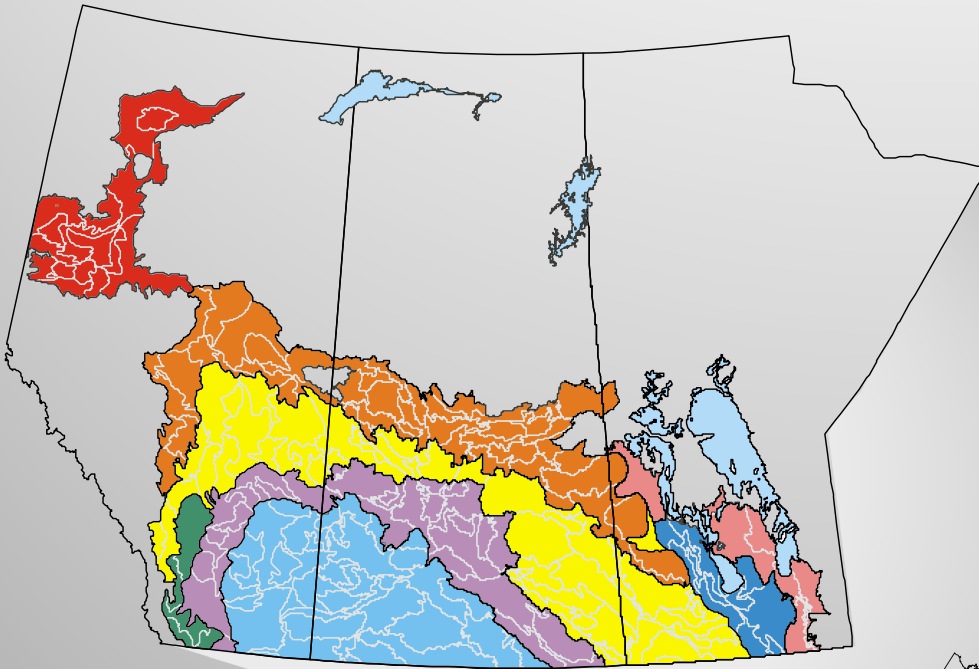




# Prairie Weed Survey

## Cereal, Oilseed and Pulse Crops 1970s to the 2000s

Julia Y. Leeson  
A. Gordon Thomas  
Linda M. Hall  
Clark A. Brenzil  
Todd Andrews  
Kim R. Brown  
Rene C. Van Acker



Weed Survey Series



# **Prairie Weed Surveys of Cereal, Oilseed and Pulse Crops from the 1970s to the 2000s**

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**PREVIOUSLY PUBLISHED REPORTS IN THE WEED SURVEY SERIES**



Number	Title
76-1	Weed survey of cultivated land in Saskatchewan (1976)
77-1	Weed survey of cultivated land in Saskatchewan (1977)
78-1	Report on the 1977 weed survey and questionnaire in Saskatchewan
78-2	Weed survey of cultivated land in Saskatchewan (1978)
78-3	Weed survey of cultivated land in Manitoba (1978)
79-1	Manitoba weed survey questionnaire data (1978)
79-2	Weed survey of cultivated land in Saskatchewan (1979)
79-3	Weed survey of cultivated land in Manitoba (1979)
80-2	Weed survey of grain fields in Prince Edward Island (1978)
80-3	Manitoba weed survey questionnaire data (1979)
82-1	Weed survey of cultivated land in Manitoba (1981)
82-2	Manitoba weed survey questionnaire data (1981)
83-1	Weed survey of Essex and Kent counties (1978 and 1979)
83-2	Essex and Kent counties - weed survey questionnaire data (1978 and 1979)
83-3	The 1979 weed survey of grain fields in Prince Edward Island
83-4	Peace River Region of British Columbia weed survey of cereal and oilseed crops (1978, 1979 and 1980)
83-5	Peace River Region of British Columbia weed survey of forage crops (1978, 1979 and 1980)
83-6	Weed survey of Saskatchewan cereal and oilseed crops from 1976 to 1979
84-1	Weed surveys of Manitoba cereal and oilseed crops from 1978, 1979 and 1981
85-1	Weed surveys of alfalfa seed fields in Manitoba (1983)
85-2	Survey for weeds and their competitive effect in corn and soybean fields of Essex and Kent Counties in Ontario
85-3	Dew's Alberta weed survey (1973-1977)
86-1	Weed survey of Saskatchewan sunflower fields (1985)
86-2	Weed survey of Saskatchewan mustard, lentil and dry pea crops (1985)
86-3	Weed survey of Saskatchewan winter wheat fields (1985)
86-4	Fort Vermilion Area of Alberta weed survey in cereal and oilseed fields (1985)
87-1	Weed survey of Saskatchewan cereal and oilseed crops (1986)
87-2	Weed survey of Saskatchewan winter wheat fields (1986)
87-3	Saskatchewan cereal and oilseed crops weed survey questionnaire (1986)
88-1	Weed survey of cereal and oilseed crops in Manitoba (1986)
88-2	Weed survey of Saskatchewan winter wheat fields (1987)
88-3	Manitoba cereal and oilseed crops weed survey questionnaire (1986)
89-1	Weed survey of Saskatchewan winter wheat fields (1985-1988)
90-1	Weeds of corn, soybean, and winter wheat fields under conventional, conservation, and no-till management systems in southwestern Ontario (1988 and 1989)
96-1	Saskatchewan weed survey of cereal, oilseed and pulse crops (1995)
97-1	Manitoba weed survey comparing zero and conventional tillage crop production systems (1994)
98-1	Manitoba weed survey of cereal and oilseed crops in 1997
98-2	Alberta weed survey of cereal and oilseed crops in 1997
98-3	Saskatchewan weed survey: herbicide resistant wild oat and green foxtail 1996
98-5	Manitoba weed survey: herbicide-resistant wild oat 1997
99-3	Farm management practices in Manitoba - 1997 weed survey questionnaire results

*(Table continued on next page)*

**Previously Published Reports in the Weed Survey Series**

Previously published reports in the Weed Survey Series (*continued*)

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Number	Title
99-4	Saskatchewan weed survey: herbicide-resistant wild oat 1997
02-1	Alberta weed survey of cereal, oilseed and pulse crops in 2001
02-2	Manitoba weed survey of cereal and oilseed crops in 2002
03-1	Saskatchewan weed survey of cereal, oilseed and pulse crops in 2003
04-1	Alberta weed survey of herbicide-resistant weeds in 2001
04-2	Manitoba weed survey of herbicide-resistant weeds in 2002

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A major four-year weed survey project titled “Shifts in the Distribution, Abundance, Resistance, and Management of Weeds in Prairie Agro-Ecosystems” was initiated in 2001. The project had three equally important components. The field survey component involved weed counts in approximately 4000 randomly selected sites located in the provinces of Alberta, Saskatchewan, and Manitoba. The second project component included a management questionnaire that was used to gather details of the farm practices used on the surveyed fields. Dr. Hugh Beckie is the coordinator for the third project component that involved a survey for resistant weeds in 800 fields randomly selected from the list of surveyed sites.

This report contains the combined results from the three provincial field surveys for weeds conducted in the 2000s as part of the current project: Alberta was surveyed in 2001, Manitoba in 2002, and Saskatchewan in 2003. These provincial surveys in the 2000s are the fourth in a series. Each of the three provinces was surveyed first in the 1970s and again in the 1980s and 1990s. This publication also provided an opportunity to compare the results from the first three series with the current series and thus identify any shifts that have occurred in the weed communities during the past 30 years.

The weed community database, compiled from the four series of surveys in the three provinces, now contains information on the density of more than 230 weed species in approximately 18,000 fields of cereal, oilseed and pulse crops. This is the only source of independent quantitative data on weed populations for these crops in the prairie region. The size and time span of the database make it unique and valuable for tracking shifts in weed populations.

Each of the three provincial Departments of Agriculture were responsible for collecting information on the farm management history of the surveyed fields using a questionnaire. The summarization of the questionnaire data is an important aspect of the overall project and will be the subject of separate reports in the future. A detailed analysis of the correlations between weed communities and management practices will also be the subject of future publications.

This report is part of the Weed Survey Series that presents the information accumulated during the past 30 years of weed survey projects in Canada. The purpose of these reports is to provide quick summaries of the results in tables and maps. The published reports to date have dealt with cereal and oilseed crops in Prince Edward Island, Manitoba, Saskatchewan, Alberta, and the Peace River Region of British Columbia. Reports from southern Ontario included the row crops, corn, soybean, tomato and cereal crops. Weeds of forage crops in the Peace River Region of British Columbia and weeds of fields where alfalfa was grown for seed in Manitoba were also the subjects of reports in this series. Some publications in this series reported on surveys of sunflower, mustard, lentils, field peas, and winter wheat in Saskatchewan. Comparisons among the weed populations under different tillage systems in Southwestern Ontario and in Manitoba were published. All these surveys have used a similar method of summarization that enables the results from across Canada and from different years to be assessed in the same way.

I hope that you will find the survey results contained in this report a useful addition to our knowledge of the distribution and abundance of weeds in the Prairie Provinces. It is my goal to provide these data in a timely manner and in a convenient format. I encourage you to take the time to delve into the details contained in this report and hope it will provide answers to some of your specific questions. Your suggestions and comments on the content and style of the presentation are always appreciated.

A. Gordon Thomas  
Weed Survey Project Leader  
Agriculture and Agri-Food Canada  
Saskatoon Research Centre

Saskatoon, SK  
January 2005



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Farming for the Future Program of Alberta Agriculture, Food and Rural Development

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The 2000s weed surveys in major cereal, oilseed and pulse crops in the three Prairie Provinces were a product of the collaboration, hard work, support, and encouragement of many people from the following organizations:

Alberta Agriculture, Food and Rural Development  
Saskatchewan Agriculture, Food and Rural Revitalization  
Manitoba Agriculture, Food and Rural Initiatives  
Agriculture and Agri-Food Canada (Saskatoon Research Centre)  
Saskatchewan Highways and Transportation, Central Information Services (Regina)

### Field Surveyors

In Alberta, Agricultural Fieldmen, Assistant Agricultural Fieldmen, Weed Inspectors, and summer survey technicians were responsible for conducting the field surveys.

In Saskatchewan, staff from the Conservation Learning Centre (Prince Albert), Wheatland Conservation Area (Swift Current), University of Saskatchewan Crop Development Centre (Saskatoon), and Agriculture and Agri-Food Canada (Saskatoon) and many independent contractors were responsible for conducting the field surveys.

In Manitoba, Agricultural Representatives, Weed Supervisors, summer survey technicians, University of Manitoba staff and graduate students, and Agriculture and Agri-Food Canada (Saskatoon) were responsible for conducting the field surveys.

### Producer Support

It is with special pleasure that we acknowledge the contribution made by 3806 producers who agreed to co-operate in the project by permitting survey staff to count weeds in their fields.

Julia Y. Leeson  
A. Gordon Thomas  
Linda M. Hall  
Clark A. Brenzil  
Todd Andrews  
Kim R. Brown  
Rene C. Van Acker





<i>Part I</i>	<b>INTRODUCTION</b>	
	History of Weed Survey Activities in the Prairie Provinces .....	1
	Rationale for the Prairie Weed Survey Report.....	2
<i>Part II</i>	<b>DESCRIPTION OF SURVEYED AREA</b>	
	Study Area .....	3
	Ecoregions .....	3
	Ecodistricts .....	6
<i>Part III</i>	<b>METHODOLOGY</b>	
	Target Number of Fields.....	9
	Crop Selection.....	9
	Stratification of Sites.....	11
	Random Site Selection .....	11
	Timing of Weed Counts.....	12
	Weed Counts in Fields.....	12
	Weed Species.....	13
	Data Analysis.....	19
	Guide to the Use of the Field Survey Summary Tables .....	21
	Limitations, Constraints and Biases.....	21
<i>Part IV</i>	<b>FIELD SURVEY SUMMARY TABLES</b>	
	List of Summary Tables in Part IV .....	23
	2000s.....	30
	1990s.....	107
	1980s.....	179
	1970s.....	242
<i>Part V</i>	<b>POPULATION SHIFTS 1973 TO 2003</b> .....	311
<i>Part VI</i>	<b>SPECIES MAPS AND SUMMARIES</b>	
	List of Distribution Maps.....	315
	Maps for Selected Species .....	317







### History of Weed Survey Activities in the Prairie Provinces

Early reports on weeds in Manitoba and Saskatchewan (then part of the Northwest Territories) were lists of species with general statements of where they occurred and the seriousness of the problem<sup>1</sup>. A similar type of report was published in Alberta in 1917 and provided information on the distribution on weeds that were either of concern or troublesome<sup>2</sup>. The first indication of the relative importance of seven serious weeds in the Prairie Provinces was obtained from reconnaissance surveys in 1930 and 1931<sup>3</sup>. In these surveys, estimates of the prevalence and distributions of species were obtained from government officials and weed inspectors through interviews and questionnaires. Groh and Frankton<sup>4</sup> published the results of their reconnaissance survey in 1949. They listed the frequency of occurrence of weeds in various areas of the prairies. In a questionnaire survey conducted during the 1960s by Alex<sup>5</sup>, extension staff was asked to estimate the density and infestation area of 40 weed species based on their knowledge of their specific areas. These estimates for municipalities were presented on maps for each species. Although this survey provided information that was of great value at the time, researchers and extension specialists recognized, by the early 1970s, a need for quantitative data based on weed counts in fields of producers.

The first in a series of quantitative surveys was initiated in 1973 by Don Dew in Alberta. His five annual weed surveys in annual cereal and oilseed crops were a co-operative endeavour between the Canadian Department of Agriculture (Lacombe Research Station) and the Agricultural Fieldmen of the Alberta Department of Agriculture. The results of these surveys were only published as internal progress reports and a summary of the results from the last survey in this series was published in a fact sheet<sup>6</sup>. Because of the great value of his survey results and the continued demand for his summaries, the data collected from 1973 to 1977 were summarized in 1985 in a Weed Survey Series Report<sup>7</sup>. His pioneering efforts in conducting quantitative surveys in Alberta greatly influenced the development of similar weed survey initiatives in Saskatchewan and Manitoba. The first series of quantitative surveys in Saskatchewan began in 1976 and information on the distribution and abundance of weeds occurring in cereal and oilseed crops was obtained for four consecutive years<sup>8</sup>. The first series of surveys in Manitoba was initiated in 1978 and two subsequent series were conducted in 1979 and 1981<sup>9</sup>.

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<sup>1</sup> **Fletcher, J.** 1897. The Worst Canadian Weeds. Central Experimental Farm, Canada Department of Agriculture. Bull. No. 28. Ottawa, Ontario. 43 p.

<sup>2</sup> **Smith, J. D.** 1917. Weeds of Alberta. Bulletin No. 2. Seed and Weed Branch. Alberta Department of Agriculture, Edmonton, Alberta. 105 p.

<sup>3</sup> **Mason, J. M.** 1932. Weed Survey of the Prairie Provinces. National Research Council of Canada. Rep. No. 26. Ottawa, Ontario. 34 p.

<sup>4</sup> **Groh, H. and C. Frankton.** 1949. Canadian Weed Survey. 7th Report. Canada Department of Agriculture, Ottawa, Ontario. 144 p.

<sup>5</sup> **Alex, J. F.** 1965. Survey of Weeds of Cultivated Land in the Prairie Provinces. Exp. Farm, Res. Branch, Canada Department of Agriculture, Regina, Saskatchewan. 68 p.

<sup>6</sup> **Dew, D. A. and A. G. Thomas.** 1978. Comparison of Weed Survey Data – 1948 and 1977. Canadex – Weeds 640. Agriculture Canada, Ottawa, Ontario. 2 p.

<sup>7</sup> **Thomas, A. G. and R. F. Wise.** 1985. Dew's Alberta Weed Survey 1973-1977. Weed Survey Series Publication 85-3. Agriculture Canada, Regina, Saskatchewan. 134 p.

<sup>8</sup> **Thomas, A. G. and R. F. Wise.** 1983. Weed Surveys of Saskatchewan Cereal and Oilseed Crops from 1976 to 1979. Weed Survey Series Publ. 83-6. Agriculture Canada, Regina, Saskatchewan. 260 p.

<sup>9</sup> **Thomas, A. G. and R. F. Wise.** 1984. Weed Surveys of Manitoba Cereal and Oilseed Crops in 1978, 1979 and 1981. Weed Survey Series Publ. 84-1. Agriculture Canada, Regina, Saskatchewan. 230 p.

## ***Introduction – Rationale***

A question asked frequently is whether the species composition and density of the weed flora have changed since the last survey. Thus, surveys are needed to document the weed picture every few years so that these comparisons can be made. Consecutive annual surveys can only rarely be used to detect trends in weed distribution and abundance because shifts in weed populations occur relatively slowly. Consequently, the initial series of annual surveys conducted in the 1970s in each of the Prairie Provinces was followed by a second series of surveys conducted in the 1980s. Saskatchewan<sup>10</sup> and Manitoba<sup>11</sup> were surveyed in 1986 and Alberta<sup>12</sup> was surveyed from 1987 to 1989. A third series of surveys was conducted in the 1990s. Saskatchewan was surveyed in 1995<sup>13</sup> and Alberta<sup>14</sup> and Manitoba<sup>15</sup> were surveyed in 1997. Approximately five years after the third series of weed surveys were conducted in the 1990s, the fourth series of prairie weed surveys was initiated in 2001 and individual provincial reports for Alberta<sup>16</sup>, Manitoba<sup>17</sup>, and Saskatchewan<sup>18</sup> were published in the Weed Survey Series.

## **Rationale for the Prairie Weed Survey Report**

The purpose of this report is to bring together the weed data from the three provincial surveys in the 2000s and present the information in tables and distribution maps for the prairies. This is the first time since the surveys began in the 1970s that results for a series of provincial surveys have been combined in a report in the Weed Survey Series. Similarly, the data from the 1970s, 1980s and 1990s have been brought together for the first time in this report. These summaries can be used to determine the changes in the distribution and abundance of weeds that have occurred on the prairies from the 1970s to the 2000s.

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<sup>10</sup> **Thomas, A. G. and R. F. Wise.** 1987. Weed Survey of Saskatchewan Cereal and Oilseed Crops in 1986. Weed Survey Series Publ. 87-1. Agriculture Canada, Regina, Saskatchewan. 251 p.

<sup>11</sup> **Thomas, A. G. and R. F. Wise.** 1988. Weed Surveys of Manitoba Cereal and Oilseed Crops in 1986. Weed Survey Series Publ. 88-1. Agriculture Canada, Regina, Saskatchewan. 201 p.

<sup>12</sup> **Maurice, D. C., J. T. O'Donovan and D. J. Pickle.** 1990. Alberta Cereals & Oilseeds Crop Protection Survey. Final Population Results. Alberta Agriculture, Edmonton, Alberta. (Unpublished report).

<sup>13</sup> **Thomas, A. G., R. F. Wise, B. L. Frick and L. T. Juras.** 1996. Saskatchewan Weed Survey of Cereal, Oilseed and Pulse Crops in 1995. Weed Survey Series Publ. 96-1. Agriculture and Agri-Food Canada, Saskatoon, Saskatchewan. 130 p.

<sup>14</sup> **Thomas, A. G., B. L. Frick and L. M. Hall.** 1998. Alberta Weed Survey of Cereal and Oilseed Crops in 1997. Weed Survey Series Publ. 98-2. Agriculture and Agri-Food Canada, Saskatoon, Saskatchewan. 241 p.

<sup>15</sup> **Thomas, A. G., B. L. Frick, R. C. Van Acker, S. Z. Knezevic and D. Joesse.** 1998. Manitoba Survey of Cereal and Oilseed Crops in 1997. Weed Survey Series Publ. 98-1. Agriculture and Agri-Food Canada, Saskatoon, Saskatchewan. 233 p.

<sup>16</sup> **Leeson, J. Y., A. G. Thomas and L. M. Hall.** 2002. Alberta Weed Survey of Cereal, Oilseed and Pulse Crops in 2001. Weed Survey Series Publ. 02-1. Agriculture and Agri-Food Canada, Saskatoon, Saskatchewan. 263 p.

<sup>17</sup> **Leeson, J. Y., A. G. Thomas, T. Andrews, K. R. Brown and R. C. Van Acker.** 2002. Manitoba Weed Survey of Cereal and Oilseed Crops in 2002. Weed Survey Series Publ.02-2. Agriculture and Agri-Food Canada, Saskatoon, Saskatchewan. 191 p.

<sup>18</sup> **Leeson, J. Y., A. G. Thomas and C. A. Brenzil.** 2003. Saskatchewan Weed Survey of Cereal, Oilseed and Pulse Crops in 2001. Weed Survey Series Publ. 03-1. Agriculture and Agri-Food Canada, Saskatoon, Saskatchewan. 342 p.

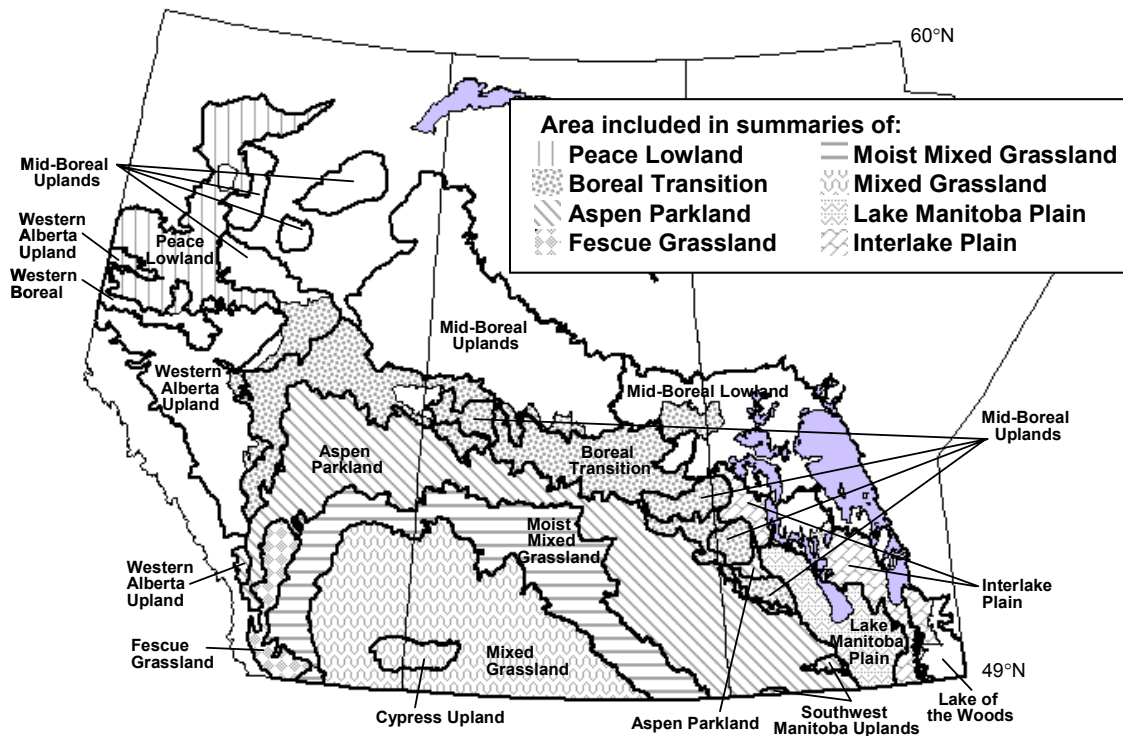


### Study Area

The survey included the 43.5 million hectares of cultivated land of the provinces of Alberta, Saskatchewan and Manitoba. Two areas were considered. The first area extended from the border with the United States in the south (49°N latitude) to approximately 54°N in the north, and from the foothills of the Rocky Mountains on the west side of Alberta to the Boreal Shield on the eastern side of Manitoba. The second area included was the agricultural region of the Peace River Valley in the northwest quarter of the Alberta (between 115 and 120°W and between 55 and 59°N).

### Ecoregions

Ecoregions are areas of similar, climate, natural vegetation, soils and land use<sup>19</sup>. The survey area is represented by eight ecoregions with a large agricultural land base and seven ecoregions with a relatively small agricultural area (Figure 1). In this report, fields in ecoregions with less agricultural area are included in summaries of adjacent ecoregions with larger agricultural areas.



**Figure 1.** Area surveyed in ecoregions included in the weed survey. Ecoregions grouped in summaries are shaded with the same pattern. Map derived from Canadian Soil Information System website<sup>20</sup>.

<sup>19</sup> **Ecological Stratification Working Group.** 1995. A National Ecological Framework for Canada. Agriculture and Agri-Food Canada, Research Branch, Centre for Land and Biological Resources Research and Environment Canada, State of the Environment Directorate, Ecozone Analysis Branch, Ottawa/Hull. Report and national map at 1:7 500 000 scale.

<sup>20</sup> **Agriculture and Agri-Food Canada.** 2003. A national ecological framework for Canada: GIS data. [Online] Available: [http://sis.agr.gc.ca/cansis/nsdb/ecostrat/gis\\_data.html](http://sis.agr.gc.ca/cansis/nsdb/ecostrat/gis_data.html) [25 November 2003].

## **Description of Surveyed Area – Ecoregions**

The **Peace Lowland Ecoregion** is a unique area in Alberta associated with the Peace River and its tributaries. Aspen poplar and balsam poplar dominate the native vegetation in the area. The ecoregion is gently undulating or sloping, with clayey lacustrine till and sandy lacustrine deposits. Predominant soils are Gray Luvisols, Dark Gray Luvisols and Chernozems. About 45% of the area is farmland.

The **Western Boreal Ecoregion** lies to the south of the Peace Lowland Ecoregion. Native vegetation is dominated by aspen poplar with inclusions of white spruce, black spruce and willows. Gleyed Solonchic Gray Luvisolic soils are dominant. Approximately 14% of this ecoregion is farmland; however, the total area in annual crops was too small to calculate separate summaries for this ecoregion. Therefore, fields in this ecoregion were combined with those in the Peace Lowland.

The **Western Alberta Upland Ecoregion** represents a transition between mid-boreal vegetation on the western edge of the Alberta Plain and mid-cordilleran vegetation of the southeastern slopes of the Rocky Mountains. This ecoregion is represented by two separate areas; a small southern portion and a larger northern portion that crosses into British Columbia and has a small extension back into Alberta adjacent to the Peace Lowland Ecoregion. Luvisolic, Gleysolic and Organic soils are dominant in the Western Alberta Upland Ecoregion. Agricultural activity only occurs on the edges of this ecoregion; therefore, only a few fields were surveyed in this ecoregion. These fields were combined with those in adjacent ecoregions (Aspen Parkland, Boreal Transition or Peace Lowland) in the summaries.

The **Mid-Boreal Uplands Ecoregion** includes a large upland in western Saskatchewan extending into eastern Alberta, north of the major agricultural area, four smaller uplands located to the south and east of this main area and four uplands to the west of the main area. Native vegetation in this ecoregion is a mixture of coniferous and deciduous trees dominated by trembling aspen, jack pine, black spruce, white spruce and balsam poplar. Gray Luvisols and Eutric Brunisols prevail on hummocky and ground moraine slopes. The lower slopes are dominated by Gleysols and Organic soils. Brunisols are common on sandy glaciofluvial, glacial till and eolian deposits. Agriculture is only common in the southern areas of the Mid-Boreal Uplands Ecoregion; with surveyed fields in six of the nine uplands. This ecoregion is combined with the Boreal Transition Ecoregion in the weed summaries.

The **Mid-Boreal Lowland Ecoregion** is north of the main agricultural area in eastern Saskatchewan extending into Manitoba. The majority of this ecoregion is not suitable for agriculture; however, grain and oilseed crops are produced where soils and drainage allow. This ecoregion is represented in the weed surveys by only a few fields, and is combined with data from the Boreal Transition Ecoregion in the weed summaries.

The **Boreal Transition Ecoregion** extends across all three provinces marking the edge of the boreal forest. The remaining native vegetation is primarily a deciduous boreal forest, dominated by trembling aspen; as the majority of the original grasslands have been cultivated. The ecoregion is a undulating to gently sloping plain, with glacial till and fluvioglacial deposits underlain by Cretaceous shale. Black and Dark Gray Chernozems are predominant in the southern areas on the ecoregion, while Dark Gray Luvisols soils occur in the north portion. As approximately 70% of this ecoregion is farmland, most of the ecoregion is represented in the survey. Only the Frog Lake Upland, located on the Alberta border, did not have enough cultivated land to be included in the weed survey.

The **Aspen Parkland Ecoregion** forms an arc across the three provinces immediately south of the Boreal Transition Ecoregion and also includes a small area between Riding Mountain and Duck Mountain in Manitoba. This area is a zone of transition between the forests and grasslands. The native vegetation is dominated by trembling aspen and fescue grasslands. The ecoregion is a broad plain with hilly uplands. The area has glacial till, glaciolacustrine and glaciofluvial deposits. The dominant soil is a Black Chernozem. This ecoregion is a highly productive agricultural area.

The **Fescue Grassland Ecoregion** lies in the Alberta Rocky Mountain foothills, in the area subject to winter chinooks. It is dominated by rough fescue, needle-and-thread grass and low-growing forbs. The ecoregion is undulating to rolling with glacial till and lacustrine deposits, underlain by sandstone and shale. The dominant soil is a Black Chernozem. Northern portions are almost entirely cultivated; southern portions are cultivated on the more level areas.

The **Moist Mixed Grassland Ecoregion** is an area of open grassland located in both Alberta and Saskatchewan, immediately south of the Aspen Parkland Ecoregion. Native vegetation, where it remains, is dominated by spear grass and wheat grass. The ecoregion is composed of hummocky to kettled glacial till and level to very gently undulating lacustrine deposits. Dark Brown Chernozemic soils predominate throughout the ecoregion. Approximately 80% of the ecoregion is in agricultural production.

The **Mixed Grassland Ecoregion** is part of the semiarid shortgrass prairie, found to the south of the Moist Mixed Grassland Ecoregion in Alberta and Saskatchewan. Native vegetation is dominated by spear grass, wheat grass and blue grama grass. The ecoregion is composed of dissected to kettled glacial till, undulating to dissected lacustrine sediments and hummocky Eolian deposits. Soils are predominantly Brown Chernozems. Cultivated land covers about half of the ecoregion.

The **Cypress Upland Ecoregion** is located within the Mixed Grassland Ecoregion, along the Alberta-Saskatchewan border. The native vegetation includes the prairie species found in the surrounding ecoregion, as well as lodge pole pine, white spruce and trembling aspen. The area is a plateau formed from very coarse gravel deposited by a migrating braided river during the Tertiary period. In some areas, the bedrock is covered by glacial drift or glaciolacustrine deposits. Dark Brown Chernozems soils are dominant in the grassland areas, but Brown soils are also found at the lower elevations. Black, Dark Gray and Gray Luvisolic soils are found in the forested areas. About 21% of the area is cultivated. This ecoregion was represented by less than ten fields in some surveys; therefore, the fields surveyed in this ecoregion are combined with the Mixed Grassland Ecoregion in the weed summaries.

The **Southwest Manitoba Uplands Ecoregion** consists of two distinct uplands in south-central Manitoba surrounded by the Aspen Parkland Ecoregion. The native vegetation is trembling aspen, balsam poplar and bur oak. The Southwest Manitoba Uplands Ecoregion is hummocky to kettled glacial till with fluvio-glacial deposits, underlain by Cretaceous or Tertiary shale. The predominant soils are Dark Gray and Black Chernozems, with local areas of Gray Luvisols, peaty Gleysols and Mesisols. Agriculture is significant only at lower elevations. This ecoregion was represented by less than ten fields in some surveys; therefore, the sites surveyed are combined with the Aspen Parkland Ecoregion in the weed summaries.

The **Lake Manitoba Plain Ecoregion** lies east of the Aspen Parkland Ecoregion in Manitoba. It is transitional between boreal forest and aspen parkland. Native vegetation is dominated by trembling aspen, bur oak and fescue grassland. The ecoregion is underlain by limestone, and has broadly ridged glacial till in the north and smooth lacustrine deposits in the south. The predominant soil is a Black Chernozem, with local pockets of Gleysols and Vertisols. Most of the ecoregion is used for agriculture. The production of cereal grains is more common in the southern areas, while oilseeds are more common in northern areas.

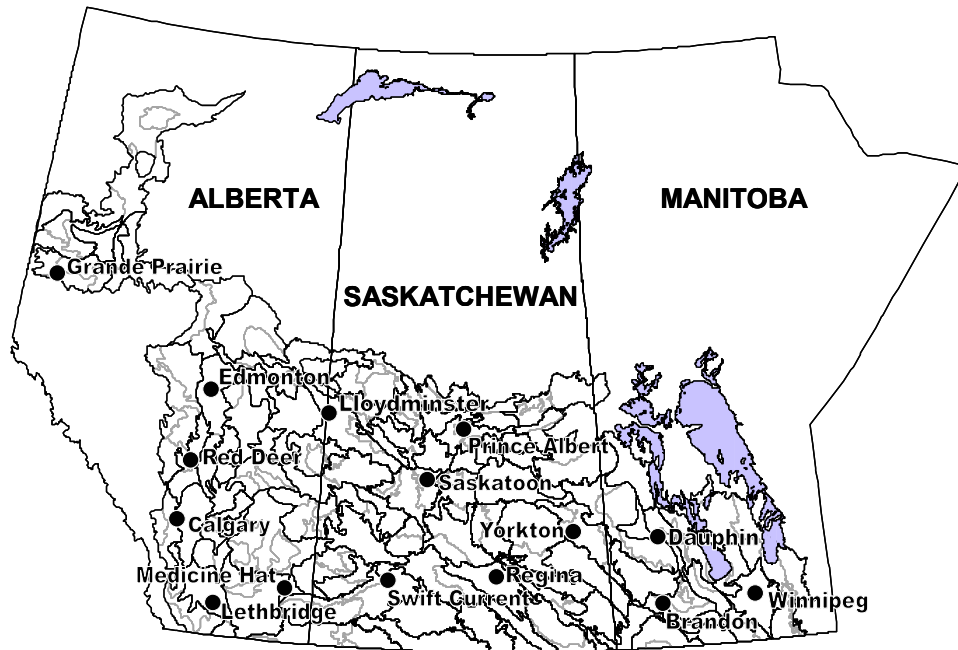
The **Interlake Plain Ecoregion** marks the northern and western limit of arable land in Manitoba. Native vegetation in this ecoregion is dominated by trembling aspen and balsam poplar. The ecoregion is level to ridged, with glacial till and glaciolacustrine deposits underlain by Paleozoic limestone. Predominant soils are Dark Gray Chernozems, with local areas of Black Chernozems, Eutric Brunisols, Gleysols and Mesisols. The majority of the area in this ecoregion was surveyed; however, the northernmost portion of the ecoregion located between Lake Winnipeg and Lake Winnipegosis did not have enough cultivated land to be included in the survey.

The **Lake of the Woods Ecoregion** occupies the southeastern corner of Manitoba. This ecoregion is a mixed forest region, with native vegetation dominated by trembling aspen, paper birch, jack pine, white spruce, eastern white cedar, black ash and white elm. The area has glacial till with fluvio-glacial deposits, overlaying Archean bedrock. The predominant soils are Organics Mesisols, Fibrisols, Brunisols, and Gray Luvisols with Dark Gray Chernozemic and Gleysolic soils found in local areas. Agriculture is not a major occupation in this ecoregion, limited to lowlands along rivers and streams where artificial drainage systems have been developed. Only few sites were surveyed along the western edge of the ecoregion; therefore, data from this area was combined with the Interlake Plain Ecoregion in the summary tables.

## Description of Surveyed Area – Ecodistricts

### Ecodistricts

Each ecoregion consists of one or more ecodistricts (Figure 2). Ecodistricts are similar in landform, relief, surficial material, soil, vegetation and land use. Ecodistricts with less than ten fields surveyed in any decade were combined with adjacent ecodistricts in the species summaries. Average January temperature, average July temperature, annual precipitation, and growing season length are mapped based on climatic normals for each of the ecodistrict groups (Figure 3).



**Figure 2.** Ecodistricts included in the weed survey. Ecodistricts surrounded by a black line on the map are grouped in species summaries. Map derived from Canadian Soil Information System website<sup>21</sup>.

<sup>21</sup> **Agriculture and Agri-Food Canada.** 2003. A national ecological framework for Canada: GIS data. [Online] Available: [http://sis.agr.gc.ca/cansis/nsdb/ecostrat/gis\\_data.html](http://sis.agr.gc.ca/cansis/nsdb/ecostrat/gis_data.html) [25 November 2003].

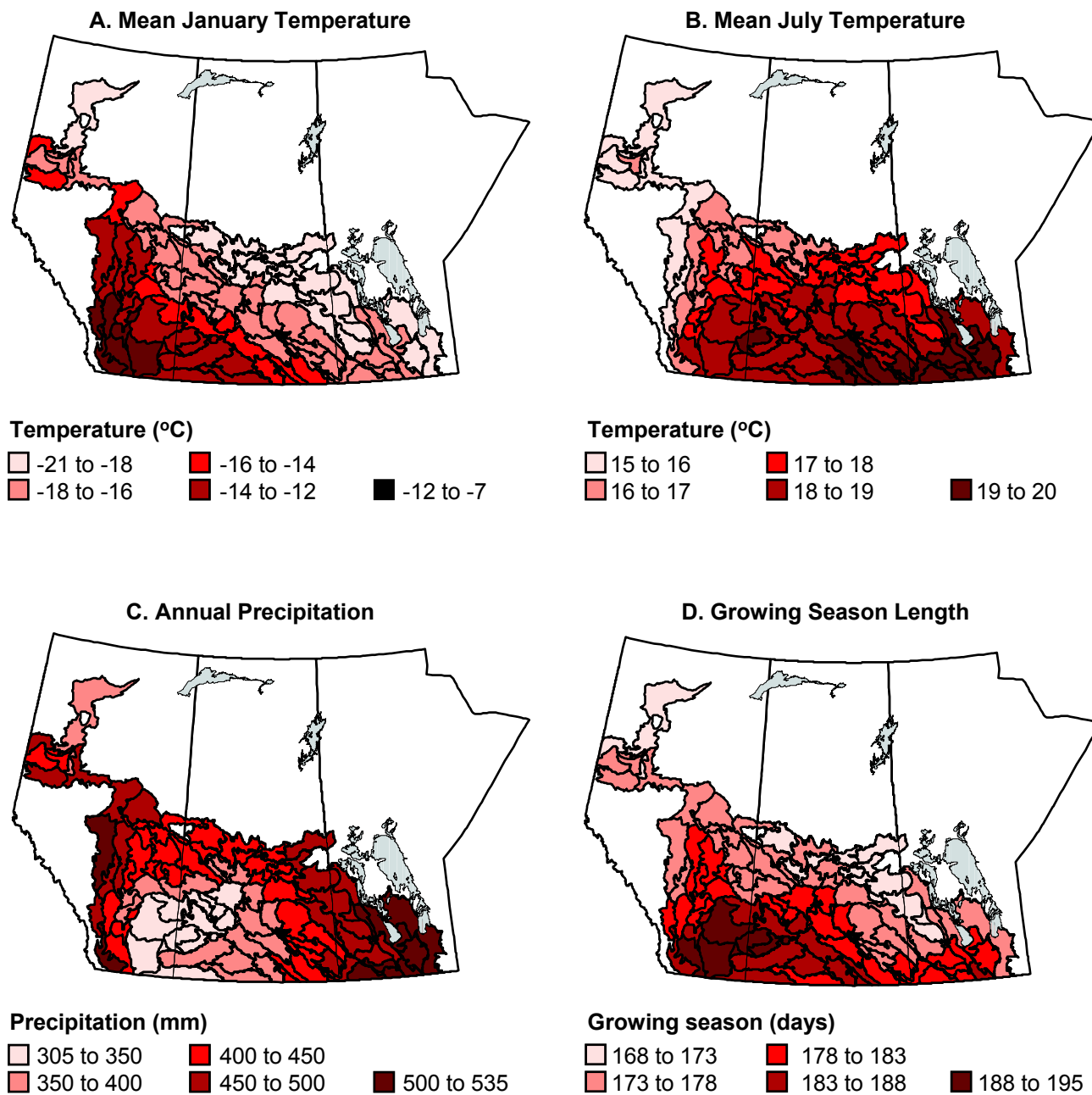


Figure 3. Average January temperature (A), average July temperature (B), annual precipitation (C), and growing season length (D)<sup>22</sup> based on climatic normals<sup>23</sup> for each ecodistrict group<sup>24</sup>.

<sup>22</sup> Growing season length is the total number of days when mean daily air temperature equals or exceeds 5°C.

<sup>23</sup> Agriculture and Agri-Food Canada. 1997. Canadian ecodistrict climate normals 1961-1990. [Online] Available: <http://sis.agr.gc.ca/cansis/nsdb/ecostrat/district/climate.html> [25 November 2003].

<sup>24</sup> Data for combined ecodistricts are weighted by the area in surveyed crops in 1996 census (see Data Analysis section).







### **Target Number of Fields**

A target for the number of fields to be surveyed was set each year for each provincial survey in the 1970s. In the annual surveys of Alberta from 1973 to 1977, the target was one field per township each year. A target of 1000 fields was set for the 1976, 1978 and 1979 surveys in Saskatchewan; the target for 1977 was increased to 1500 fields. In Manitoba, a target of 500 fields was set for the surveys in 1978, 1979 and 1981. These targets were based on the requirement of having a minimum number of fields in each extension division to produce a summary of the weed data and the availability of provincial staff to conduct the survey. These independently set targets resulted in unequal sampling intensity in each province based on the proportional area of crops grown across the prairies. As well, the survey database for the 1970s contained results from five annual surveys in Alberta, four in Saskatchewan and three in Manitoba. These annual targets and different number of survey years meant that Alberta, Saskatchewan and Manitoba represented 34, 49 and 17% of the fields respectively.

The target number of fields to be surveyed in the 1980s was also independently set in each province. As in the 1970s, the targets were based on a minimum number of fields in each extension division and the availability of provincial staff. The 1986 survey in Saskatchewan had a target of 1200 fields, the 1986 survey of Manitoba had a target of 566 fields and the 1987 to 1989 survey of Alberta had a target of 1200 fields. The complete survey for Alberta was spread over three years with different areas of the province surveyed each year. The independent selection of target numbers resulted in different sampling intensities in each province in the 1980s and these intensities were different from those in the 1970s. The target distribution of fields across the prairies resulted in 40% of the total in Alberta, 40% in Saskatchewan and 20% in Manitoba.

Similarly, the target number of fields was set independently in each province in the 1990s. The 1995 survey of Saskatchewan had a target of 1200. The 1997 surveys in Manitoba and Alberta had targets of 500 and 800 fields respectively. The target distribution of fields across the prairies resulted in 32% of the total in Alberta, 48% in Saskatchewan and 20% in Manitoba.

The target number of fields to be surveyed in the three provinces in the 2000s was set at 4000 and this target number was distributed proportionally among Alberta, Saskatchewan and Manitoba based on the seeded area of annual crops. This proportional allocation resulted in targets of 1200 fields in Alberta, 2170 in Saskatchewan, and 630 in Manitoba and 30, 54 and 16% of the fields respectively.

### **Crop Selection**

In the first series of surveys in the 1970s, crops were not pre-selected for inclusion. The annual crop seeded in the field at the selected location was included in the survey. All major cereal (spring wheat, barley, oats) and oilseed (rapeseed, flax) crops surveyed in Saskatchewan and Manitoba in the 1970s are included in this report (Table 1). While a few fields of other annual crops were included, too few fields were surveyed to allow for the creation of meaningful summaries. Winter annual crops were also surveyed at the same time; however, this information is beyond the intended scope of this report. Durum wheat was not differentiated as a separate crop and was included with spring wheat. Crops underseeded to a forage species were included. It is likely that weed data from mixed cereal crops were included but this information was not recorded; only the major crop in the mixture was associated with the field record. The Alberta survey records for the 1970s, which were obtained for the current analysis, lacked crop information. For the purposes of this report, all the records for Alberta were included in the analysis (Table 1).

In the subsequent survey series for the 1980s, 1990s, and 2000s, crops to be included in a survey were pre-selected based on the area of each crop given in the Field Crop Reporting Series from Statistics Canada and target number of fields to be surveyed in a province. In the 1980s, spring wheat, barley, oats, and canola were included in each of the provincial surveys. Fields seeded to flax were also included in the Manitoba and Saskatchewan surveys (Table 1). A small number of fields seeded to fall rye in Alberta and Saskatchewan and winter wheat in Alberta were surveyed but were excluded from the analysis in this report. Durum wheat was not differentiated as a separate crop and was included with spring wheat. Some mixed cereal crops may have been included; however, only the major crop in the mixture was recorded.

## Methodology – Crops

Table 1. Number of fields surveyed in each decade by crop and ecoregion

Decade	Crop	Peace	Boreal	Aspen	Fescue	Moist	Mixed	Lake	Interlake	Total
		Lowland	Transition	Parkland	Grassland	Grassland	Grassland	Manitoba Plain		
1970s	Spring wheat	-	343	1101	-	993	1045	219	92	3793
	Barley	-	187	386	-	124	96	115	47	955
	Oats	-	49	146	-	55	27	32	16	325
	Canola/rapeseed	-	158	214	-	31	3	42	13	461
	Flax	-	14	101	-	28	11	65	16	235
	Not recorded	317	479	1265	206	548	294	-	-	3109
	Total	317	1230	3213	206	1779	1476	473	184	8878
1980s	Spring wheat	57	122	465	25	386	367	90	37	1549
	Barley	80	134	213	46	59	23	35	26	616
	Oats	19	48	60	10	16	6	7	8	174
	Canola/rapeseed	60	74	118	10	21	-	15	5	303
	Flax	-	20	26	-	8	-	24	9	87
	Total	216	398	882	91	490	396	171	85	2729
1990s	Spring wheat	26	76	328	12	237	260	76	16	1031
	Barley	27	82	193	30	53	23	24	9	441
	Oats	5	18	48	-	12	11	15	2	111
	Canary grass	-	2	1	-	4	4	-	-	11
	Canola/rapeseed	59	70	210	10	78	25	31	12	495
	Flax	-	14	45	-	10	1	16	-	86
	Mustard	-	-	6	-	13	6	-	-	25
	Field peas	-	21	22	-	14	3	-	-	60
	Lentils	-	-	5	-	16	13	-	-	34
Total	117	283	858	52	437	346	162	39	2294	
2000s	Spring wheat	70	144	471	32	381	393	76	26	1593
	Barley	33	146	313	40	136	87	20	8	783
	Oats	17	44	143	1	29	16	58	9	317
	Canary grass	-	6	6	-	23	11	-	-	46
	Canola/rapeseed	44	110	319	3	109	20	55	14	674
	Flax	-	12	57	-	36	8	13	5	131
	Mustard	-	-	12	-	19	14	-	-	45
	Field peas	7	20	53	-	33	31	-	-	144
	Lentils	-	-	3	-	44	26	-	-	73
Total	171	482	1377	76	810	606	222	62	3806	

In the 1990s, a minimum of approximately 20 fields was set as the limit for inclusion of a crop in the survey. The provincial surveys had four crops in common: spring wheat, barley, oats, canola. Durum wheat was recognized as a separate crop in the Saskatchewan and Alberta surveys but it has been included with spring wheat for the analysis in this report. Flax was included in the Manitoba and Saskatchewan surveys. The Saskatchewan survey also included canary grass and mustard as well as the pulse crops, field peas and lentils, for the first time since the surveys began in the 1970s (Table 1). A few fields with a mixed cereal crop were surveyed in Alberta but have been excluded from the analysis because they were not pre-selected. Some mixed cereal crops may have been included in the Saskatchewan and Manitoba surveys; however, only the major crop in the mixture was recorded.

In the 2000s, crops included in the surveys were similar to the 1990s with the addition of field peas in the Alberta survey (Table 1). Chickpeas were added to the pre-selected list of crops for Saskatchewan but were excluded from the analysis in this report since this was the first time the crop had been surveyed. Durum wheat was recognized as a separate crop in the Saskatchewan and Alberta surveys but it has been included with spring wheat for the analysis in this report. A small number of fields with a mixed cereal crop were surveyed in each province but have been excluded from the analysis because they were not pre-selected.

### Stratification of Sites

Stratification methods have not been the same in the four series of surveys. Alberta surveys in the 1970s used a much different method than the other provincial surveys. Equal weight was given to each township in Alberta, regardless of the area seeded to annual crops. Each year one of the 36 sections in a township was selected at random as the survey site. The distribution of fields in the survey area of Saskatchewan and Manitoba was determined by a stratified random sampling procedure. The 43 Agricultural Extension Districts in Saskatchewan were used as the strata. The number of fields in each District was allocated in proportion to the area of the crops selected for the survey, except that a minimum of eight sites was allocated to Districts with a small number of sites. In Manitoba, the 40 Agricultural Districts were used as the strata. A minimum of 10 sites was allocated to each District, resulting in an overrepresentation of the Interlake Region in the survey.

In the 1980s, the stratified random sampling procedure with proportional allocation to strata was used in all three provinces. The strata used for the surveys were municipalities in Alberta, Agricultural Extension Districts in Saskatchewan, and Agricultural Districts in Manitoba. The number of fields selected in each strata was proportional to the area of the selected crops grown. The proportional allocation in all three provinces resulted in several strata with less than the minimum of 10 sites so the numbers were increased to the minimum in these strata.

The surveys in the 1990s and the 2000s used ecodistricts rather than extension districts or municipalities as the unit for stratification in the stratified random sampling procedure. The number of sites in an ecodistrict was allocated in proportion to the seeded area of the selected crops in the ecodistrict, relative to the total area seeded to the selected crops in all ecodistricts.

### Random Site Selection

The random selection of sites used the legal land description grid established by the Dominion Land Survey System<sup>25</sup> in western Canada. The Alberta surveys in the 1970s were based on a random selection each year of one of the 36 sections in a township. Surveyors were allowed to choose any field in this section that was seeded to one of the selected crops. In those instances where the section lacked any appropriate fields, the surveyor was permitted to select an alternative section or to omit the township. For each site in Saskatchewan, a township within an extension district was randomly selected first, then a section within the township was randomly selected, and finally a quarter section within the section was randomly selected. Each quarter section was accepted or rejected based on two criteria. First, more than 60% of the quarter section had to be cultivated land as determined from an examination of Canada Land Inventory maps. Second, the quarter section had to be accessible by road as determined from Saskatchewan Rural Municipality road maps. Surveyors were given a list of sites to be visited. Once at the selected quarter section, a surveyor selected any field that was seeded to one of the pre-selected crops. If the crop was inappropriate, the land was uncultivated, or the field was in summer fallow, then the surveyor was allowed to select another quarter in the same section. If all quarters in the section were rejected, then the surveyor selected the next field to be encountered that satisfied the site selection criteria. The site selection procedure in Manitoba in the 1970s was similar to Saskatchewan except that each randomly selected quarter section was accepted or rejected based on a modification of the two criteria. Only class 4 land or better was accepted based on an examination of the Soil Capability for Agriculture maps prepared for the Canada Land Inventory and the quarter section had to be accessible by road, as determined from the Canada Land Inventory maps. Producers were not contacted for permission to conduct the survey in any of the surveys in the 1970s.

In the 1980s, quarter sections were randomly chosen as sites in each extension district in Saskatchewan and Manitoba or each municipality in Alberta. At least twice as many random selections were made as were required. Each extension district or municipality was given a list of the randomly selected sites and provincial extension staff contacted the person who farmed the selected site to verify that site had a field seeded to one of the pre-selected crops and to ask permission to conduct the survey. If the selected site did not qualify or permission was denied, an attempt was made to qualify a field in one of the quarters in the same section only if the land was farmed by the same person. Unsuitable sites were rejected and the next site on the list was used. This procedure continued until the desired number of fields was qualified.

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<sup>25</sup> **McKercher, R. B. and B. Wolfe.** 1986. Understanding Western Canada's Dominion Land Survey System. Division of Extension and Community Relations, University of Saskatchewan, Saskatoon, SK.

## **Methodology – Weed Counts**

In the 1990s, quarter sections were randomly selected using the same procedure as in the 1980s except that ecodistricts were used as the strata rather than the extension districts or municipalities. Land use for the randomly selected quarters was determined from databases provided by the Saskatchewan Land Resource Centre, Agriculture and Agri-Food Canada, Saskatoon. Quarter sections had to have at least 20 cultivated hectares to be retained. Three to four times as many random selections were made as were required. The lists of potential survey sites were given to provincial and municipal staff who determined ownership of the land at the site. Producers were contacted and sites were qualified, in the order that they were listed, until the required number of fields had been obtained. A site qualified if the person who farmed the land answered yes to all of the following questions.

1. Will you grant permission for a surveyor to count weeds on the selected quarter section during July or early August?
2. Is there a field in the quarter section seeded to one of the pre-selected crops?
3. Is the field at least 20 hectares in size?
4. Have you farmed the identified field for a minimum of four years?
5. Is the identified field accessible by road?
6. Do you agree to complete a questionnaire on management practices used on the identified field in the fall?

If a field in a quarter section did not qualify, an attempt was made to qualify a field in another quarter of the same section. This step was followed only if the land was farmed by the same person as the pre-selected quarter section. If the list of sites was exhausted without qualifying the required number of fields, an additional list of randomly selected sites was requested.

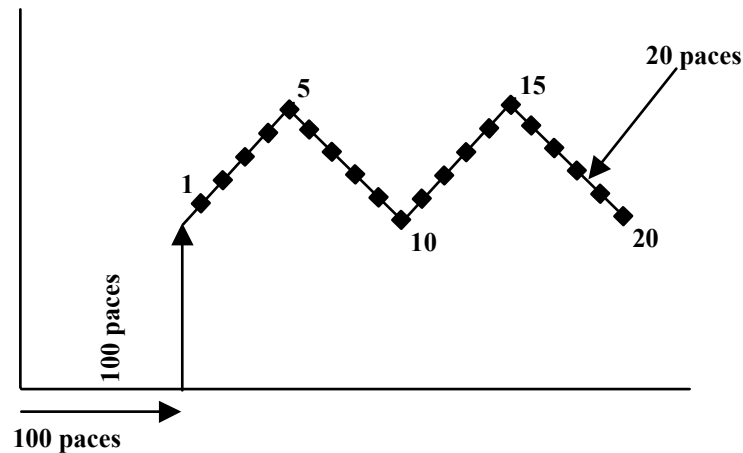
The same random site selection procedure was used for the provincial surveys in the 2000s with a few minor modifications. The minimum field size for qualifying was lowered to 16 from 20 hectares and the number of years the field had been farmed by the same person was increased from four to five. Irrigated fields were excluded in the Alberta survey. Producers were also asked if they would agree to allow a resistant weed survey to be conducted on same the same field. Regional and district staff contacted the producers in Alberta and Manitoba using the procedure described for the 1990s but the procedure was modified in Saskatchewan. An Oracle database was designed in the first quarter of 2003 to help with the management of producer information and the producer contact process. The database was housed in Regina, but was accessible by each Rural Service Center. Landowner information for the list of Legal Land Descriptions was acquired from a combination of the Master of Titles office and the Information Services Corporation of Saskatchewan, and then manually entered into a spreadsheet that was transferred to the database. Telephone numbers were added from local telephone directories. The lists of potential sites from the database were given to provincial staff for qualification.

### **Timing of Weed Counts**

In nearly all of the provincial surveys, weeds were counted in the summer prior to harvest. This time was chosen for several reasons. The weeds in the field were, in part, a result of agronomic management decisions (e.g., crop rotation, time and type of tillage, rate and placement of fertilizer, and selection, rate and effectiveness of herbicides) made by the farm operator at various times during the crop year. The impact of these agronomic practices on the weed flora was reflected in a summer survey. Counts at this time of the year showed the size and extent of troublesome weed populations. This survey time had additional advantages. Identification was simplified because many of the weeds were mature. In particular, wild oats and other grassy weeds had flowered or produced fruit and were easily recognized. In addition, the field crew had more time to work on the survey during the summer than during the period immediately after crop seeding. The exception is the 1970s surveys in Alberta where, in most cases, weeds were counted after crop emergence and before the time of post-emergent herbicide application.

### **Weed Counts in Fields**

In all but the 1970s surveys in Alberta, weeds were enumerated using a set pattern. The surveyor walked 100 paces along the edge of the field, turned at right angles, and walked 100 paces into the field. The inverted W-pattern began at this point (Figure 4). Five locations were sampled along each arm of the pattern, giving 20 locations. Locations were 20 paces apart. The number of individuals of each weed species was determined in a 0.25 m<sup>2</sup> quadrat (50 cm by 50 cm) at each of the 20 locations. The procedure was modified when necessary to compensate for sloughs, odd-shaped fields and other irregularities.



**Figure 4.** W-pattern used for field counts.

The 1970s surveys in Alberta used a different size and number of quadrats but the surveyed area in the field was the same as in the other provincial surveys. The quadrats were  $1.0 \text{ yd}^2$  in size for the first couple of survey years in Alberta and then were  $1.0 \text{ m}^2$  for the remaining years. Five quadrats were surveyed per field in each year. No set pattern was used. The quadrats were placed at five representative locations in the field.

For perennial grass species such as quack grass and perennial herbaceous species such as Canada thistle, the number of shoots rather than the number of plants was counted. For annual grasses, such as wild oats, and clumped perennials, such as foxtail barley, a rooted individual was counted as a single plant whatever the number of tillers. Volunteer crop plants were counted as weeds. The underseeded species in a field was not counted. Any plant found in the field that could not be identified, or that the surveyor was unsure of, was submitted for identification. Infrequently occurring species were identified in this way.

### **Weed Species**

The common and botanical names of species identified in the surveys from the 1970s to the 2000s are listed in Table 2. Generally, species were grouped in the analysis when they were not distinguished in some or all years of the survey. However, a few exceptions exist. Although spiny annual sow-thistle and annual sow-thistle were not always distinguished from perennial sow-thistle, the annuals were separated from the perennial species were separated when possible. The annual species were not distinguished in the 1970s in Alberta or Saskatchewan, and may have been occasionally reported as perennial sow-thistle in all provinces until the 2000s. In the 2000s, this genus was emphasized in the surveyor training sessions, resulting identifications that were more accurate. Similarly, scouring rush was separated from field horsetail when possible. The distinction between these species was also emphasized in the 2000s training sessions. Prior to the 2000s, scouring rush was only distinguished in Manitoba in the 1970s. Maple-leaved, oak-leaved, spear-leaved, red, and narrow-leaved goosefoot were distinguished to the species level in all surveys. However, in Manitoba in the 1970s, a few specimens were only identified as ‘goosefoot species’. To avoid the loss of information, these specimens were combined with the spear-leaved goosefoot records.

The 1970s Alberta data only includes 44 species (Table 2). These were considered the most important species at the time of the survey. Data for rare species and most volunteer crops (canola is the exception) are not available. In all other provinces and decades, all species are included in the dataset.

## Methodology – Weed Species

Table 2. Common and scientific names<sup>26</sup> of plants that appear in this report

Common Name	Scientific Name
Absinth	<i>Artemisia absinthium</i> L.
Alfalfa	<i>Medicago sativa</i> L.
Alsike clover (reported with clover species)	<i>Trifolium hybridum</i> L.
American dragonhead	<i>Dracocephalum parviflorum</i> Nutt.
Annual sow-thistle (reported with spiny annual sow-thistle)	<i>Sonchus oleraceus</i> L.
Ash species	<i>Fraxinus</i> spp.
Aster species	<i>Aster</i> spp.
Atriplex species (includes garden and spreading atriplex)	<i>Atriplex</i> spp.
Avens species	<i>Geum</i> spp.
Baby's-breath	<i>Gypsophila paniculata</i> L.
Ball mustard*	<i>Neslia paniculata</i> (L.) Desv.
Barley	<i>Hordeum vulgare</i> L.
Barnyard grass (includes western barnyard grass)	<i>Echinochloa crusgalli</i> (L.) P. Beauv.
Bicknell's geranium (may include other geranium species)	<i>Geranium bicknellii</i> Britton
Biennial campion	<i>Silene csereii</i> Baumg.
Biennial wormwood	<i>Artemisia biennis</i> Willd.
Bird's-foot trefoil	<i>Lotus corniculatus</i> L.
Black medick	<i>Medicago lupulina</i> L.
Black mustard	<i>Brassica nigra</i> (L.) W.D.J. Koch
Black-eyed Susan	<i>Rudbeckia hirta</i> L. var. <i>pulcherrima</i> Farw.
Bladder campion	<i>Silene vulgaris</i> (Moench) Garcke
Blue grass species	<i>Poa</i> spp.
Blue lettuce	<i>Lactuca tatarica</i> (L.) C.A. Mey. subsp. <i>pulchella</i> (Pursh) Stebbins
Blueberry species	<i>Vaccinium</i> spp.
Bluebur* (includes western bluebur)	<i>Lappula squarrosa</i> (Retz.) Dumort.
Borage	<i>Borago officinalis</i> L.
Broad-leaved plantain* (includes narrow-leaved plantain)	<i>Plantago major</i> L.
Buckwheat (reported with Tartary buckwheat)	<i>Fagopyrum esculentum</i> Moench
Buffaloberry species	<i>Shepherdia</i> spp.
California allocarya	<i>Plagiobothrys scouleri</i> (H. and A.) Johnston
Canada anemone	<i>Anemone canadensis</i> L.
Canada fleabane	<i>Conyza canadensis</i> (L.) Cronquist
Canada thistle*	<i>Cirsium arvense</i> (L.) Scop.
Canary grass	<i>Phalaris canariensis</i> L.
Canola/rapeseed*	<i>Brassica napus</i> L. and <i>B. rapa</i> L.
Caraway	<i>Carum carvi</i> L.
Chickpeas	<i>Cicer arietinum</i> L.
Chickweed*	<i>Stellaria media</i> (L.) Vill.
Clasping-leaved pennycress	<i>Thlaspi perfoliatum</i> L.
Cleavers* (includes false cleavers)	<i>Galium aparine</i> L.
Clover species (includes alsike, white and red clover)	<i>Trifolium</i> spp.
Cocklebur	<i>Xanthium strumarium</i> L.
Collomia	<i>Collomia linearis</i> Nutt.
Common burdock	<i>Arctium minus</i> Bernh. subsp. <i>minus</i>
Common groundsel*	<i>Senecio vulgaris</i> L.
Common milkweed (reported with showy milkweed)	<i>Asclepias syriaca</i> L.
Common pepper-grass (includes field pepper-grass)	<i>Lepidium densiflorum</i> Schrad
Common ragweed	<i>Ambrosia artemisiifolia</i> L.
Common yarrow	<i>Achillea millefolium</i> L.
Conical catchfly	<i>Silene conoidea</i> L.

(Table continued on next page)

<sup>26</sup> Darbyshire, S. J. 2003. Inventory of Canadian Agricultural Weeds. [Online] Available: [http://res2.agr.ca/ecorc/weeds\\_herbes/titre-titre\\_e.htm](http://res2.agr.ca/ecorc/weeds_herbes/titre-titre_e.htm) [22 November 2004]

\* Recorded in Alberta 1970s data

Table 2. Common and scientific names of plants that appear in this report (*continued*)

Common Name	Scientific Name
Coriander	<i>Coriandrum sativum</i> L.
Corn	<i>Zea mays</i> L.
Corn spurry*	<i>Spergula arvensis</i> L.
Cow cockle*	<i>Vaccaria hispanica</i> (Mill.) Rauschert
Crested wheat grass	<i>Agropyron cristatum</i> (L.) Gaertn.
Dandelion* (includes red-seeded dandelion)	<i>Taraxacum officinale</i> Weber in F.H. Wigg.
Dewberry	<i>Rubus pubescens</i> Raf.
Diffuse knapweed	<i>Centaurea diffusa</i> Lam.
Dock species	<i>Rumex</i> spp.
Dog mustard	<i>Erucastrum gallicum</i> (Willd.) O.E. Schultz
Downy brome	<i>Bromus tectorum</i> L.
Durum (reported with wheat)	<i>Triticum durum</i> Desf.
Erect knotweed (reported with prostrate knotweed)	<i>Polygonum erectum</i> L.
Fababean	<i>Vicia faba</i> L.
False cleavers (reported with cleavers)	<i>Galium spurium</i> L.
False flax species (includes flat- & small-seeded false flax)	<i>Camelina</i> spp.
False ragweed	<i>Iva xanthifolia</i> Nutt.
Fescue species	<i>Festuca</i> spp.
Field bean	<i>Phaseolus vulgaris</i> L.
Field bindweed	<i>Convolvulus arvensis</i> L.
Field chickweed	<i>Cerastium arvense</i> L.
Field dodder	<i>Cuscuta campestris</i> Yunck.
Field horsetail*	<i>Equisetum arvense</i> L.
Field mint	<i>Mentha arvensis</i> L.
Field peas	<i>Pisum arvense</i> L.
Field pepper-grass (reported with common pepper-grass)	<i>Lepidium campestre</i> (L.) R. Br. in W.T. Aiton
Field violet	<i>Viola arvensis</i> Murr.
Five-hooked bassia	<i>Bassia hyssopifolia</i> (Pall.) Volkins in Engl. & Prantl
Flat-seeded false flax (reported with false flax species)	<i>Camelina alyssum</i> (Mill.) Thell.
Flax	<i>Linum usitatissimum</i> L.
Fleabane species (reported with Aster species)	<i>Erigeron</i> spp.
Flixweed*	<i>Descurainia sophia</i> (L.) Webb ex Prantl
Foxtail barley	<i>Hordeum jubatum</i> L.
Fringed loosestrife	<i>Lysimachia ciliata</i> L.
Garden atriplex (reported with Atriplex species)	<i>Atriplex hortensis</i> L.
Geranium species (reported with Bicknell's geranium)	<i>Geranium</i> spp.
Giant ragweed	<i>Ambrosia trifida</i> L.
Goat's-beard	<i>Tragopogon dubius</i> Scop.
Golden corydalis	<i>Corydalis aurea</i> Willd.
Golden-bean	<i>Thermopsis rhombifolia</i> (Nutt. ex Pursh) Nutt. ex Richardson
Goldenrod species	<i>Solidago</i> spp.
Gray tansy mustard	<i>Descurainia incana</i> (Bernh. ex Fisch. & C.A. Mey.) Dorn
Green foxtail*	<i>Setaria viridis</i> (L.) P. Beauv.
Green smartweed (reported with pale smartweed)	<i>Polygonum scabrum</i> Moench
Green tansy mustard	<i>Descurainia pinnata</i> (Walter) Britton var. <i>brachycarpa</i> (Richardson) Fernald
Ground-ivy	<i>Glechoma hederacea</i> L.
Gumweed	<i>Grindelia squarrosa</i> (Pursh) Dunal
Hairy-nerved carrionflower	<i>Smilax lasioneura</i> Hook.
Hare's-ear mustard	<i>Conringia orientalis</i> (L.) Dumort.
Hedge mustard	<i>Sisymbrium officinale</i> (L.) Scop.
Hemp dogbane (reported with spreading dogbane)	<i>Apocynum cannabinum</i> L.
Hemp-nettle*	<i>Galeopsis tetrahit</i> L.

*(Table continued on next page)*

\* Recorded in Alberta 1970s data

**Methodology – Weed Species**

Table 2. Common and scientific names of plants that appear in this report (continued)

Common Name	Scientific Name
Henbit*	<i>Lamium amplexicaule</i> L.
Hoary cress species	<i>Cardaria</i> spp.
Hoary puccoon	<i>Lithospermum canescens</i> (Michx.) Lehm.
Indian mustard	<i>Brassica juncea</i> (L.) Czern.
Italian rye grass (reported with perennial rye grass)	<i>Lolium multiflorum</i> Lam.
June grass	<i>Koeleria cristata</i> (L.) Pers.
Knawel*	<i>Scleranthus annuus</i> L.
Kochia*	<i>Kochia scoparia</i> (L.) Schrad.
Lamb's-quarters* (includes net-seeded lamb's-quarters)	<i>Chenopodium album</i> L.
Lance-leaved psoralea	<i>Psoralea lanceolata</i> Pursh
Large crab grass	<i>Digitaria sanguinalis</i> (L.) Scop.
Leafy spurge	<i>Euphorbia esula</i> L.
Lentils	<i>Lens culinaris</i> Medic.
Long-stalked stitchwort	<i>Stellaria longipes</i> Goldie
Low bush-cranberry	<i>Viburnum edule</i> (Michx.) Raf.
Low cudweed	<i>Gnaphalium uliginosum</i> L.
Manitoba maple	<i>Acer negundo</i> L.
Maple-leaved goosefoot	<i>Chenopodium simplex</i> (Torr.) Raf.
Marsh hedge-nettle	<i>Stachys palustris</i> L.
Meadow foxtail	<i>Alopecurus pratensis</i> L.
Meadow rue species	<i>Thalictrum</i> spp.
Milk-vetch species	<i>Astragalus</i> spp.
Mouse-eared chickweed	<i>Cerastium fontanum</i> Baumg. subsp. <i>vulgare</i> (Hartm.) Greuter & Burdet
Narrow-leaved goosefoot	<i>Chenopodium leptopyllum</i> (Nutt.ex Moq.) Nutt. ex S. Watson
Narrow-leaved hawk's-beard*	<i>Crepis tectorum</i> L.
Narrow-leaved plantain (reported with broad-leaved plantain)	<i>Plantago lanceolata</i> L.
Needle-and-thread	<i>Stipa comata</i> Trin. & Rupr.
Net-seeded lamb's-quarters (reported with lamb's-quarters)	<i>Chenopodium berlandieri</i> var. <i>zschackei</i> (Murr) Murr ex Asch.
Night-flowering catchfly*	<i>Silene noctiflora</i> L.
Nightshade species	<i>Solanum</i> spp.
Nodding thistle	<i>Carduus nutans</i> L. subsp. <i>nutans</i>
Northern bedstraw	<i>Galium boreale</i> L.
Oak-leaved goosefoot	<i>Chenopodium glaucum</i> L.
Oats	<i>Avena sativa</i> L.
Orchard grass	<i>Dactylis glomerata</i> L.
Pale smartweed* (includes green smartweed)	<i>Polygonum lapathifolium</i> L.
Palmate-leaved colt's-foot	<i>Petasites palmatus</i> (Ait.) A. Gray
Pasture sage (may include other wormwood species)	<i>Artemisia frigida</i> Willd.
Pearly everlasting	<i>Anaphalis margaritacea</i> (L.) Benth. & Hook. f.
Perennial rye grass (includes Italian rye grass)	<i>Lolium perenne</i> L.
Perennial sow-thistle*	<i>Sonchus arvensis</i> L.
Persian darnel	<i>Lolium persicum</i> Boiss. & Hohen. ex Boiss.
Pineappleweed*	<i>Matricaria discoidea</i> D.C.
Plains coreopsis	<i>Coreopsis tinctoria</i> Nutt.
Plains prickly-pear	<i>Opuntia polyacantha</i> Haw.
Poison suckleya	<i>Suckleya suckleyana</i> (Torr.) Rydb.
Poplar species	<i>Populus</i> spp.
Poverty oat grass	<i>Danthonia spicata</i> (L.) P. Beauv. ex Roem. & Schult.
Povertyweed	<i>Iva axillaris</i> Pursh
Prairie coneflower	<i>Ratibida columnifera</i> (Nutt.) Wooton & Standl.
Prickly lettuce	<i>Lactuca serriola</i> L.

(Table continued on next page)

\* Recorded in Alberta 1970s data



Table 2. Common and scientific names of plants that appear in this report (*continued*)

Common Name	Scientific Name
Proso millet	<i>Panicum miliaceum</i> L.
Prostrate knotweed* (includes striate and erect knotweed)	<i>Polygonum aviculare</i> L.
Prostrate pigweed	<i>Amaranthus blitoides</i> S. Watson
Purslane	<i>Portulaca oleracea</i> L.
Purslane speedwell	<i>Veronica peregrina</i> L.
Pussytoes species	<i>Antennaria</i> spp.
Pygmyflower	<i>Androsace septentrionalis</i> L.
Quack grass*	<i>Elytrigia repens</i> (L.) Desv. ex B. D. Jacks
Rayless aster	<i>Brachyactis ciliata</i> (Ledeb.) Ledeb. subsp. <i>angusta</i> (Lindl.) A.G. Jones
Red clover (reported with clover species)	<i>Trifolium repens</i> L.
Red goosefoot	<i>Chenopodium rubrum</i> L.
Red-seeded dandelion (reported with dandelion)	<i>Taraxacum erythrospermum</i> Andr. ex Besser
Redroot pigweed*	<i>Amaranthus retroflexus</i> L.
Redtop	<i>Agrostis gigantea</i> Roth
Ridge-seeded spurge (reported with thyme-leaved spurge)	<i>Euphorbia glyptosperma</i> Engelm.
Rose species*	<i>Rosa</i> spp.
Rough cinquefoil (includes other cinquefoil species)	<i>Potentilla norvegica</i> L.
Rough pennyroyal	<i>Hedeoma hispida</i> Pursh
Round-leaved mallow*	<i>Malva pusilla</i> Sm.
Russian knapweed	<i>Acroptilon repens</i> (L.) DC.
Russian pigweed	<i>Axyris amaranthoides</i> L.
Russian thistle*	<i>Salsola kali</i> L. subsp. <i>ruthenica</i> (Iljin) Soó
Russian wild rye	<i>Psathyrostachys juncea</i> (Fisch.) Nevski
Rye	<i>Secale cereale</i> L.
Sand-rocket	<i>Diplotaxis muralis</i> (L.) DC.
Scarlet gaura	<i>Gaura coccinea</i> Nutt. ex Pursh
Scarlet mallow	<i>Sphaeralcea coccinea</i> (Nutt.) Rydb.
Scentless chamomile*	<i>Matricaria perforata</i> Mérat
Scouring-rush	<i>Equisetum hyemale</i> L.
Sedge species	<i>Carex</i> spp.
Shepherd's-purse*	<i>Capsella bursa-pastoris</i> (L.) Medik.
Short-awned foxtail	<i>Alopecurus aequalis</i> Sobol.
Showy milkweed (may include common milkweed)	<i>Asclepias speciosa</i> Torr.
Silverberry	<i>Elaeagnus commutata</i> Bernh.
Silverweed (reported with rough cinquefoil)	<i>Potentilla anserina</i> L.
Silvery cinquefoil (reported with rough cinquefoil)	<i>Potentilla argentea</i> L.
Skeletonweed	<i>Lygodesmia juncea</i> (Pursh) D. Don ex Hook.
Slough grass	<i>Beckmannia syzigachne</i> (Steud.) Fernald
Small alyssum	<i>Alyssum alyssoides</i> (L.) L.
Small bugloss	<i>Anchusa arvensis</i> (L.) M. Bieb.
Small-flowered prairie-rocket	<i>Erysimum inconspicuum</i> (S. Watson) MacMill.
Small-leaved lamb's-quarters	<i>Chenopodium desiccatum</i> A. Nelson
Small-seeded false flax (reported with false flax species)	<i>Camelina microcarpa</i> Andr. ex DC.)
Smooth brome (includes other perennial Brome species)	<i>Bromus inermis</i> Leyss.
Soybean	<i>Glycine hispida</i> L.
Spear-leaved goosefoot*	<i>Monolepis nuttalliana</i> (Schult.) Greene
Spiny annual sow-thistle (includes annual sow-thistle)	<i>Sonchus asper</i> (L.) Hill
Spiny ironplant	<i>Machaeranthera pinnatifida</i> (Hook.) Shinnars
Spreading atriplex (reported with Atriplex species)	<i>Atriplex patula</i> L.
Spreading dogbane (may include hemp dogbane)	<i>Apocynum androsaemifolium</i> L.
Stinkweed*	<i>Thlaspi arvense</i> L.
Stork's-bill*	<i>Erodium cicutarium</i> (L.) L'Hér. ex Aiton
Strawberry-blite	<i>Chenopodium capitatum</i> (L.) Ambrosi

*(Table continued on next page)*

\* Recorded in Alberta 1970s data

**Methodology – Weed Species**

Table 2. Common and scientific names of plants that appear in this report (*continued*)

Common Name	Scientific Name
Striate knotweed (reported with prostrate knotweed)	<i>Polygonum achoreum</i> S.F. Blake
Sulphur cinquefoil (reported with rough cinquefoil)	<i>Potentilla recta</i> L.
Sunflower species	<i>Helianthus</i> spp.
Tall buttercup	<i>Ranunculus acris</i> L.
Tall hedge mustard	<i>Sisymbrium loeselii</i> L.
Tansy	<i>Tanacetum vulgare</i> L.
Tartary buckwheat* (includes buckwheat)	<i>Fagopyrum tataricum</i> (L.) Gaertn.
Thyme-leaved spurge (includes ridge-seeded spurge)	<i>Euphorbia serpyllifolia</i> Pers.
Timothy	<i>Phleum pratense</i> L.
Toad rush	<i>Juncus bufonius</i> L.
Tumble mustard	<i>Sisymbrium altissimum</i> L.
Tumble pigweed	<i>Amaranthus albus</i> L.
Vervain species	<i>Verbena</i> spp.
Vetch species	<i>Vicia</i> spp.
Vetchling species	<i>Lathyrus</i> spp.
Violet species	<i>Viola</i> spp.
Water smartweed	<i>Polygonum amphibium</i> L. subsp. <i>laevimarginatum</i> Hultén
Western barnyard grass (reported with barnyard grass)	<i>Echinochloa microstachya</i> (Wiegand) Rydb.
Western bluebur (reported with bluebur)	<i>Lappula occidentalis</i> (S. Watson) Greene
Western sea-blight	<i>Suaeda calceoliformis</i> (Hook.) Moq.
Western snowberry	<i>Symphoricarpos occidentalis</i> Hook.
Western wheat grass	<i>Pascopyrum smithii</i> (Rydb.) Á. Löve
Wheat (includes durum)	<i>Triticum aestivum</i> L.
White clover (reported with clover species)	<i>Trifolium. pratense</i> L.
White cockle*	<i>Silene latifolia</i> Poir.
White mustard	<i>Sinapis alba</i> L.
White sweet-clover (reported with yellow sweet-clover)	<i>Melilotus albus</i> Medik.
Wild buckwheat*	<i>Polygonum convolvulus</i> L.
Wild chamomile	<i>Matricaria recutita</i> L.
Wild cucumber	<i>Echinocystis lobata</i> (Michx.) Torr. & A. Gray
Wild licorice	<i>Glycyrrhiza lepidota</i> Pursh
Wild mustard*	<i>Sinapis arvensis</i> L.
Wild oats*	<i>Avena fatua</i> L.
Wild parsnip	<i>Pastinaca sativa</i> L.
Wild radish	<i>Raphanus raphanistrum</i> L.
Wild red raspberry	<i>Rubus idaeus</i> L. subsp. <i>melanolasius</i> (Dieck) Focke
Wild rye/wheat grass species	<i>Elymus</i> spp.
Wild strawberry	<i>Fragaria virginiana</i> Mill.
Wild tomato*	<i>Solanum triflorum</i> Nutt.
Willow species	<i>Salix</i> spp.
Willowherb species	<i>Epilobium</i> spp.
Witch grass	<i>Panicum capillare</i> L.
Wood sage	<i>Salvia nemorosa</i> L.
Wood whitlow-grass	<i>Draba nemorosa</i> L.
Wood-sorrel species	<i>Oxalis</i> spp.
Wormseed mustard*	<i>Erysimum cheiranthoides</i> L.
Yellow alyssum	<i>Alyssum desertorum</i> Stapf
Yellow cress species	<i>Rorippa</i> spp.
Yellow foxtail	<i>Setaria pumila</i> (Poir.) Roem. & Schult.
Yellow nut sedge	<i>Cyperus esculentus</i> L.
Yellow rocket	<i>Barbarea vulgaris</i> (L.) W.T. Aiton
Yellow sweet-clover (includes white sweet-clover)	<i>Melilotus officinalis</i> (L.) Pall.
Yellow toadflax*	<i>Linaria vulgaris</i> Mill.

\* Recorded in Alberta 1970s data

## Data Analysis

Data were processed in Microsoft® Excel and summary tables were produced following the standard format used in previous Weed Survey Series Reports. However, unlike previous reports, all data were weighted to adjust for the differing allocation methods in each year and each province, enabling comparisons between years and across provinces. The expected number of fields in each ecodistrict was based on the area reported in the surveyed crops in the 1996 census. For each decade, field weights were calculated by taking the ratio of the expected number of fields in the ecodistrict to the number of fields surveyed in each ecodistrict. Therefore, a field in an ecodistrict with only half of the expected number of fields would have twice the weight of a field in an ecodistrict with the expected number of fields surveyed. To account for ecodistricts in which no surveys were conducted, the weight is then multiplied by the ratio of the expected number of fields in the ecoregion to the number of fields accounted for by the surveyed ecodistricts. For example if no fields were surveyed in an ecodistrict in the Mixed Grassland accounting for 5% of the acreage in the Mixed Grassland, the weight for each field in the Mixed Grassland would be multiplied by 1.053. This correction ensures that each ecoregion contributes an appropriate amount to the prairie summaries, regardless of number of fields surveyed in a particular year.

The average density, species richness and number of weed-free quadrats were calculated for each crop, ecoregion and decade. As crop was not recorded in the 1970s in Alberta, crop summaries for the 1970s only include Saskatchewan and Manitoba. The 1970s Alberta data excluded occasional and rare species (Table 2); therefore, species richness values for this decade were determined from Saskatchewan and Manitoba. In addition, the 1970s Alberta data did not include quadrat information; therefore, this province was excluded from calculations of weed-free quadrats in the 1970s.

Weed data were summarized in tables across the prairies by ecoregion and crop in each decade. As crop was not recorded in the 1970s in Alberta, all crop summaries for the 1970s only include Saskatchewan and Manitoba. A minimum of ten sites was set to allow meaningful summarization. Where these minima were not reached for a crop, a summary table was not provided, but data were retained in other appropriate summaries. For example, a separate summary table for flax in the Interlake Plain was not provided in the 2000s; however, the fields were included in the summaries for the Interlake Plain and prairies in the 2000s. Geographic areas (ecoregions and ecodistricts) with fewer fields than required in any decade were combined with adjacent areas in all decades.

The geographic distribution of selected weed species is presented in maps based on ecodistricts. Frequency is used as the mapping variable. Ecodistricts with less than 1.7 % of the area cultivated to the surveyed crops are not mapped, and the data are combined with adjacent ecodistricts. In these cases, the fields did not represent the entire ecodistrict area but tended to be isolated in areas immediately adjacent to the more intensively farmed ecodistricts. Distribution maps were produced with ArcView GIS 3.2 from Environmental Systems Research Institute, Inc. Life form<sup>27</sup>, origin<sup>28</sup>, and a summary of the species status in each decade are included with each map. The maps and corresponding data for volunteer crops are calculated differently than the other species, only including fields not planted to the crop summarized. For example, the species summary and map for volunteer wheat excludes data from wheat crops. This avoids an underestimation of the occurrence of volunteer wheat, due to difficulty identifying volunteer wheat in wheat crops. This is the only place in the report that volunteer data are calculated in this manner. The exclusion of some fields for each of the volunteer crop summaries necessitated further combination of ecodistrict groups to ensure that each geographical area was represented by at least ten fields in each decade. As crop is not available for the 1970s Alberta data, volunteer species summaries in the 1970s are for Saskatchewan and Manitoba only.

Data were summarized using seven quantitative variables. Details for the calculation of these variables are described elsewhere<sup>29</sup>. The calculation of these variables differs slightly from all previous reports as the data were weighted as described earlier.

**Frequency.** The number of fields in which a particular species occurred, expressed as a percentage of the total number of fields surveyed in groups such as crops, ecoregions, and decade.

<sup>27</sup> **Darbyshire, S. J.** 2003. Inventory of Canadian Agricultural Weeds. [Online] Available: [http://res2.agr.ca/ecorc/weeds\\_herbes/title-titre\\_e.htm](http://res2.agr.ca/ecorc/weeds_herbes/title-titre_e.htm) [22 November 2004]

<sup>28</sup> **Ibid**

<sup>29</sup> **Thomas, A. G.** 1985. Weed survey system used in Saskatchewan for cereal and oilseed crops. *Weed Science* 33: 34-43.

## **Methodology – Guide to Use of Tables**

**Field uniformity (all fields).** The number of quadrats in which a particular species occurred, expressed as a percentage of all the quadrats surveyed in groups such as crops, ecoregions, and decade (20 per field multiplied by the number of fields). Data from the 1970s Alberta survey were not available by quadrat; therefore, summaries including these data do not include field uniformity values.

**Field uniformity (occurrence fields).** The number of quadrats in which a particular species occurred, expressed as a percentage of the number of quadrats in groups such as crops, ecoregions, and decade for the occurrence fields only (20 per field multiplied by the number of fields in which the species occurred). Data from the 1970s Alberta survey were not available by quadrat; therefore, summaries including these data do not include field uniformity values.

**Field density (all fields).** A measure of the number of plants of a species counted in a square metre. The density values for each species in a single field are averaged over all fields surveyed in groups such as crops, ecoregions, and decade.

**Field density (occurrence fields).** A measure of the number of plants of each species counted in a square metre. The density values for each species in a single field are averaged over only the fields in which the weed occurred in groups such as crops, ecoregions, and decade.

**High density.** The highest field density values recorded for a species in groups such as crops, ecoregions, and decade.

**Relative abundance.** A combination of the frequency, field uniformity (all fields) and field density (all fields) values for each species.

**Relative frequency** for a species (RF) is the frequency value for a species divided by the sum of frequency values for all species, expressed as a percentage.

**Relative field uniformity (all fields)** for a species (RU) is the field uniformity value for a species divided by the sum of field uniformity values for all species, expressed as a percentage.

**Relative field density (all fields)** for a species (RD) is the field density value for a species divided by the sum of field density values for all species, expressed as a percentage.

**Relative abundance** for a species = RF + RU + RD. The total of the relative abundance values for all species equals 300. This measure was used to rank the species in the field survey summary tables. This calculation assumed that the frequency, field uniformity and field density measures were equally important in estimating the abundance of a species. Relative abundance has no units attached to it, but the value for one species can be compared with the value of another species. For example, if green foxtail has a value of 36 and wild buckwheat 18, then green foxtail is twice as abundant as wild buckwheat. Relative abundance does not necessarily relate to the competitive ability of the species. A species may have a high relative abundance value but not be very competitive. Data from the 1970s Alberta survey were not available by quadrat; therefore, RU could not be calculated for summaries including this data. In these cases the RF value was doubled so the relative abundance still added to 300.

### **Guide to the Use of the Field Survey Summary Tables**

For the purposes of illustration, the meaning of the variables is explained for the species green foxtail in the 2000s summary table (Table 6). A **frequency** of 37.3% means that green foxtail occurred at least once in 1420 of the 3806 fields surveyed. This variable estimates the geographic extent of the weed.

Field uniformity shows the proportion of quadrats (20 per field) in which the species occurred. In the example, the value for **all field uniformity** means that green foxtail occurred in 15.2% of the quadrats surveyed. This variable can be used as an estimate of the area occupied by a weed. The **occurrence field uniformity** value means that green foxtail was present in 40.8% of the quadrats when considering only the 1420 occurrence fields.

Three density variables are included in the tables. Green foxtail had an **occurrence field density** of 23.6 plants per square metre and an **all field density** of 8.8 plants per metre square. The density for fields in which the species occurred is always equal to or higher than the density for all the fields in the summary. The **maximum density** shows that at least one field had a density of 1070.0 green foxtail plants per square metre.

The final column shows the abundance of each species surveyed relative to each other. Values in this column add up to 300. **Relative abundance** is derived from the values of the frequency, field uniformity (all fields) and density (all fields) variables. The relative abundance variable is used for ranking species. For example, green foxtail is ranked higher than wild oats because the all field density of green foxtail is about twice that of wild oats, even though wild oats has a higher frequency and a slightly higher all field uniformity value. The relative abundance value of 48.8 for green foxtail is higher than the value of 39.2 for wild oats.

### **Limitations, Constraints and Biases**

The database for the four decades is complete with exception of the 1970s Alberta data. Information on the crop surveyed has been lost, preventing summaries by crop across the Prairies in the 1970s. In addition, the data are not available by quadrat, preventing the calculation of uniformity values and necessitating the modification of the calculation of relative abundance. This also prevents the calculation of weed-free quadrats using data from this province. Additionally, data are only available for the major weed species at the time. The absence of rare weed species prevents calculation of species richness values. A larger concern may be the absence of some volunteer crop data. Based on data from the other provinces, volunteers would also be expected to be abundant in Alberta in the 1970s. The absence of these data will have reduced the overall rank of volunteer crops in the 1970s.

The survey protocol has been modified during the 30 years of provincial survey summarized in this report. The protocol was established for the series of surveys in Saskatchewan in the 1970s and has been used since then. The surveys in Alberta in the 1970s predated the Saskatchewan surveys and used a different protocol. The current protocol has been designed to reduce bias in sampling, and to obtain objective information on the weed flora that remains after control practices have been used by the producer. In the development of the protocol, several constraints were placed on the eligibility of areas and fields for inclusion in the survey. The survey covers the main area of agriculture on the prairies. Only the major agricultural crops were considered. Other crops may have different weed floras. Fields could be of any size in the 1970s and 1980s but were limited to those with an area greater than 16 ha or 20 ha in subsequent surveys. In the 1990s and 2000s, fields were only surveyed if producers had used the field for a minimum of five or six years, if they were accessible by road, and if the producers were willing to cooperate. In earlier surveys, some of these criteria were not used in the sampling protocol. Fields under organic production may have been deliberately excluded in some of the surveys but the protocol for site selection did not differentiate types of farming systems. Organic fields were allowed to be included in the 2003 Saskatchewan survey. These constraints will have altered the spectrum of fields slightly from a completely random sample.

For a variety of reasons, some sites on the final list are different from those on the stratified random list developed initially. Sometimes site qualification was difficult because landowners could not be identified or contacted. In these instances, provincial staff may not have used the selected sites in the order given them, but may have selected producers in the area that they knew to be cooperative. This will have biased qualification of sites. When surveyors went to the field, they were given a list of pre-selected and qualified sites. Sometimes mistakes were made, and the legal description given was not in an appropriate crop, sufficiently accessible, or in another way not a legitimate site. In this instance, the surveyor made an alternative selection, usually in the immediate vicinity.

The proportion of fields surveyed for each crop differed among the survey series because of increases in the diversity crops grown, the adoption of conservation tillage systems, and the decrease summer fallow area. For example, 66% of the surveyed fields were in wheat in the 1970s and only 42% in the 2000s. Mustard, field peas and lentils were included as crops in the 1990s and 2000s. Any comparison among years that includes all crops will reflect the weed spectrum from a variable crop distribution.

Only a small portion of each field was surveyed. This portion intentionally did not include sloughs, field edges, shelterbelts, etc. It also did not extend into the less accessible areas of the field. This may limit the representation of some species, such as foxtail barley, that are found more commonly near saline sloughs, or brome grass that is often found near field margins. The small area in the field was sufficient to illustrate the distribution of major species and minor species that might be important to agriculture. This level of sampling is not sufficient to give an exhaustive list of the flora, or to illustrate the distribution of rare species.

The identification of some weed species is difficult in the field. Surveyors were trained, and asked to send in unknowns for identification. However, mistakes may have been made. In some cases, the common names of species differ in different areas. For instance, this might have caused some confusion between lamb's-quarters and redroot pigweed. The

## ***Methodology – Limitations, Constraints and Biases***

annual and perennial sow-thistle species were rarely distinguished in the early series of surveys. Training sessions for the later series of surveys emphasized the differences between spiny annual sow-thistle, annual sow-thistle and perennial sow-thistle and the records for these species are much better in the 2000s surveys. Where there is some ambiguity in the identification of species in a group, two or more species have been grouped. Generally, the identification and counts by the field surveyors were used without alteration.

The weed survey recorded the numbers of individuals of each species. It does not show the vigour, the biomass or the competitive ability of the plants found in the field. The survey records density, not its effect on the crop. In the survey analysis, all species are considered separately. The complex interrelationships among species have not been considered. This will be the subject of later analyses. Relationships between species and farm management practices will be considered in a further publication in this series. The relationships between species and field variables (for instance, distribution patterns in the field) are not considered.

The results in this report provide a ‘snapshot’ of the size and extent of weed populations in agro-ecoregions of the prairies. It might be argued that a particular survey year is not indicative of a typical year because of temperatures and precipitation amounts were not normal. These differences might have favoured some weeds over others, or may have resulted in higher or lower weed numbers in some areas. Consequently, only dramatic or consistent trends in the weed data are considered as important. Minor fluctuations may result from simple year-to-year variation.



### List of Summary Tables in Part IV

#### Table No.

3	Weed density in each decade by crop and ecoregion.....	27
4	Weed species richness in each decade by crop and ecoregion.....	28
5	Percent weed-free quadrats in each decade by crop and ecoregion .....	29
6	2000s.....	30
7	Peace Lowland Ecoregion .....	33
8	Boreal Transition Ecoregion.....	34
9	Aspen Parkland Ecoregion .....	36
10	Fescue Grassland Ecoregion.....	39
11	Moist Mixed Grassland Ecoregion .....	40
12	Mixed Grassland Ecoregion .....	41
13	Lake Manitoba Plain Ecoregion .....	43
14	Interlake Plain Ecoregion .....	45
15	2000s Spring wheat.....	46
16	Peace Lowland Ecoregion .....	49
17	Boreal Transition Ecoregion.....	50
18	Aspen Parkland Ecoregion .....	51
19	Fescue Grassland Ecoregion.....	53
20	Moist Mixed Grassland Ecoregion .....	54
21	Mixed Grassland Ecoregion .....	55
22	Lake Manitoba Plain Ecoregion .....	57
23	Interlake Plain Ecoregion .....	58
24	2000s Barley.....	59
25	Peace Lowland Ecoregion .....	61
26	Boreal Transition Ecoregion.....	62
27	Aspen Parkland Ecoregion .....	63
28	Fescue Grassland Ecoregion.....	65
29	Moist Mixed Grassland Ecoregion .....	66
30	Mixed Grassland Ecoregion .....	67
31	Lake Manitoba Plain Ecoregion .....	68
32	2000s Oats .....	69
33	Peace Lowland Ecoregion .....	71
34	Boreal Transition Ecoregion.....	72
35	Aspen Parkland Ecoregion .....	73
36	Moist Mixed Grassland Ecoregion .....	74
37	Mixed Grassland Ecoregion .....	75
38	Lake Manitoba Plain Ecoregion .....	76
39	2000s Canary grass.....	77
40	Moist Mixed Grassland Ecoregion .....	78
41	Mixed Grassland Ecoregion .....	78
42	2000s Canola/rapeseed .....	79
43	Peace Lowland Ecoregion .....	81
44	Boreal Transition Ecoregion.....	82
45	Aspen Parkland Ecoregion .....	83
46	Moist Mixed Grassland Ecoregion .....	85
47	Mixed Grassland Ecoregion .....	86
48	Lake Manitoba Plain Ecoregion .....	87
49	Interlake Plain Ecoregion .....	88
50	2000s Flax.....	89
51	Boreal Transition Ecoregion.....	90

**Field Survey Summary Tables – List of Tables**

**List of Summary Tables in Part IV (continued)**

Table No.	
	2000s Flax ( <i>continued</i> )
52	Aspen Parkland Ecoregion..... 91
53	Moist Mixed Grassland Ecoregion ..... 92
54	Lake Manitoba Plain Ecoregion..... 93
55	2000s Mustard..... 94
56	Aspen Parkland Ecoregion..... 95
57	Moist Mixed Grassland Ecoregion ..... 96
58	Mixed Grassland Ecoregion..... 97
59	2000s Field peas..... 98
60	Boreal Transition Ecoregion..... 100
61	Aspen Parkland Ecoregion..... 101
62	Moist Mixed Grassland Ecoregion ..... 102
63	Mixed Grassland Ecoregion..... 103
64	2000s Lentils..... 104
65	Moist Mixed Grassland Ecoregion ..... 105
66	Mixed Grassland Ecoregion..... 106
67	1990s..... 107
68	Peace Lowland Ecoregion ..... 110
69	Boreal Transition Ecoregion..... 111
70	Aspen Parkland Ecoregion..... 113
71	Fescue Grassland Ecoregion..... 115
72	Moist Mixed Grassland Ecoregion ..... 116
73	Mixed Grassland Ecoregion..... 118
74	Lake Manitoba Plain Ecoregion..... 119
75	Interlake Plain Ecoregion..... 121
76	1990s Spring wheat..... 122
77	Peace Lowland Ecoregion ..... 125
78	Boreal Transition Ecoregion..... 126
79	Aspen Parkland Ecoregion..... 128
80	Fescue Grassland Ecoregion..... 130
81	Moist Mixed Grassland Ecoregion ..... 130
82	Mixed Grassland Ecoregion..... 132
83	Lake Manitoba Plain Ecoregion..... 134
84	Interlake Plain Ecoregion..... 135
85	1990s Barley ..... 136
86	Peace Lowland Ecoregion ..... 138
87	Boreal Transition Ecoregion..... 139
88	Aspen Parkland Ecoregion..... 140
89	Fescue Grassland Ecoregion..... 142
90	Moist Mixed Grassland Ecoregion ..... 143
91	Mixed Grassland Ecoregion..... 144
92	Lake Manitoba Plain Ecoregion..... 145
93	1990s Oats ..... 146
94	Boreal Transition Ecoregion..... 148
95	Aspen Parkland Ecoregion..... 149
96	Moist Mixed Grassland Ecoregion ..... 150
97	Mixed Grassland Ecoregion..... 151
98	Lake Manitoba Plain Ecoregion..... 152
99	1990s Canary grass ..... 153
100	1990s Canola/rapeseed..... 154
101	Peace Lowland Ecoregion ..... 156
102	Boreal Transition Ecoregion..... 157
103	Aspen Parkland Ecoregion..... 158
104	Fescue Grassland Ecoregion..... 160



**List of Summary Tables in Part IV (continued)**

Table No.

	1990s Canola/rapeseed ( <i>continued</i> )	
105	Moist Mixed Grassland Ecoregion .....	161
106	Mixed Grassland Ecoregion .....	162
107	Lake Manitoba Plain Ecoregion .....	163
108	Interlake Plain Ecoregion .....	164
109	1990s Flax .....	165
110	Boreal Transition Ecoregion .....	166
111	Aspen Parkland Ecoregion .....	167
112	Moist Mixed Grassland Ecoregion .....	168
113	Lake Manitoba Plain Ecoregion .....	169
114	1990s Mustard .....	170
115	Moist Mixed Grassland Ecoregion .....	171
116	1990s Field peas .....	172
117	Boreal Transition Ecoregion .....	173
118	Aspen Parkland Ecoregion .....	174
119	Moist Mixed Grassland Ecoregion .....	175
120	1990s Lentils .....	176
121	Moist Mixed Grassland Ecoregion .....	177
122	Mixed Grassland Ecoregion .....	178
123	1980s .....	179
124	Peace Lowland Ecoregion .....	182
125	Boreal Transition Ecoregion .....	184
126	Aspen Parkland Ecoregion .....	186
127	Fescue Grassland Ecoregion .....	188
128	Moist Mixed Grassland Ecoregion .....	189
129	Mixed Grassland Ecoregion .....	190
130	Lake Manitoba Plain Ecoregion .....	192
131	Interlake Plain Ecoregion .....	193
132	1980s Spring wheat .....	195
133	Peace Lowland Ecoregion .....	198
134	Boreal Transition Ecoregion .....	199
135	Aspen Parkland Ecoregion .....	201
136	Fescue Grassland Ecoregion .....	203
137	Moist Mixed Grassland Ecoregion .....	204
138	Mixed Grassland Ecoregion .....	205
139	Lake Manitoba Plain Ecoregion .....	207
140	Interlake Plain Ecoregion .....	208
141	1980s Barley .....	209
142	Peace Lowland Ecoregion .....	211
143	Boreal Transition Ecoregion .....	212
144	Aspen Parkland Ecoregion .....	214
145	Fescue Grassland Ecoregion .....	216
146	Moist Mixed Grassland Ecoregion .....	217
147	Mixed Grassland Ecoregion .....	218
148	Lake Manitoba Plain Ecoregion .....	219
149	Interlake Plain Ecoregion .....	220
150	1980s Oats .....	221
151	Peace Lowland Ecoregion .....	223
152	Boreal Transition Ecoregion .....	224
153	Aspen Parkland Ecoregion .....	226
154	Fescue Grassland Ecoregion .....	227
155	Moist Mixed Grassland Ecoregion .....	228
156	1980s Canola/rapeseed .....	229
157	Peace Lowland Ecoregion .....	231

**Field Survey Summary Tables – List of Tables**

**List of Summary Tables in Part IV (continued)**

Table No.		
	1980s Canola/rapeseed ( <i>continued</i> )	
158	Boreal Transition Ecoregion.....	233
159	Aspen Parkland Ecoregion.....	234
160	Fescue Grassland Ecoregion.....	235
161	Moist Mixed Grassland Ecoregion .....	236
162	Lake Manitoba Plain Ecoregion.....	237
163	1980s Flax.....	238
164	Boreal Transition Ecoregion.....	239
165	Aspen Parkland Ecoregion.....	240
166	Lake Manitoba Plain Ecoregion.....	241
167	1970s.....	242
168	Peace Lowland Ecoregion .....	246
169	Boreal Transition Ecoregion.....	247
170	Aspen Parkland Ecoregion.....	249
171	Fescue Grassland Ecoregion.....	252
172	Moist Mixed Grassland Ecoregion .....	253
173	Mixed Grassland Ecoregion.....	255
174	Lake Manitoba Plain Ecoregion.....	257
175	Interlake Plain Ecoregion.....	259
176	1970s Spring wheat.....	261
177	Boreal Transition Ecoregion.....	264
178	Aspen Parkland Ecoregion.....	265
179	Moist Mixed Grassland Ecoregion .....	268
180	Mixed Grassland Ecoregion.....	270
181	Lake Manitoba Plain Ecoregion.....	272
182	Interlake Plain Ecoregion.....	273
183	1970s Barley .....	275
184	Boreal Transition Ecoregion.....	277
185	Aspen Parkland Ecoregion.....	279
186	Moist Mixed Grassland Ecoregion .....	281
187	Mixed Grassland Ecoregion.....	282
188	Lake Manitoba Plain Ecoregion.....	283
189	Interlake Plain Ecoregion.....	285
190	1970s Oats .....	286
191	Boreal Transition Ecoregion.....	288
192	Aspen Parkland Ecoregion.....	289
193	Moist Mixed Grassland Ecoregion .....	291
194	Mixed Grassland Ecoregion.....	292
195	Lake Manitoba Plain Ecoregion.....	293
196	Interlake Plain Ecoregion.....	294
197	1970s Canola/rapeseed.....	295
198	Boreal Transition Ecoregion.....	297
199	Aspen Parkland Ecoregion.....	298
200	Moist Mixed Grassland Ecoregion .....	300
201	Lake Manitoba Plain Ecoregion.....	301
202	Interlake Plain Ecoregion.....	302
203	1970s Flax.....	303
204	Boreal Transition Ecoregion.....	305
205	Aspen Parkland Ecoregion.....	306
206	Moist Mixed Grassland Ecoregion .....	307
207	Mixed Grassland Ecoregion.....	308
208	Lake Manitoba Plain Ecoregion.....	309
209	Interlake Plain Ecoregion.....	310

Table 3. Weed density in each decade by crop and ecoregion

Decade	Crop	Peace	Boreal	Aspen	Fescue	Moist	Mixed	Lake	Interlake	Total
		Lowland	Transition	Parkland	Grassland	Grassland	Grassland	Manitoba Plain		
Density (m <sup>-2</sup> )										
1970s*	Spring wheat	-	58.0	96.1	-	70.8	44.9	101.0	104.0	73.2
	Barley	-	75.8	89.7	-	67.9	34.6	66.8	107.0	76.7
	Oats	-	120.8	124.1	-	86.8	77.2	120.6	186.8	115.1
	Canola/rapeseed	-	58.8	49.2	-	48.5	**	27.9	84.7	51.6
	Flax	-	30.7	111.1	-	42.5	9.1	127.2	71.4	95.7
	Total	103.7	100.8	138.9	72.5	79.6	46.6	91.1	106.7	100.1
1980s	Spring wheat	92.8	59.0	73.9	41.1	47.6	30.2	50.8	57.1	53.8
	Barley	143.0	87.3	91.6	46.5	70.7	41.1	58.0	43.7	84.7
	Oats	150.1	127.7	122.4	44.5	106.6	**	**	**	116.9
	Canola/rapeseed	131.8	44.0	58.7	95.6	31.9	-	64.2	**	63.1
	Flax	-	33.5	39.9	-	**	-	30.2	**	33.7
	Total	127.9	68.9	78.0	50.3	51.2	31.3	51.3	54.8	63.3
1990s	Spring wheat	95.0	57.7	48.2	9.7	24.6	22.6	58.6	35.0	37.0
	Barley	95.8	45.2	41.3	29.1	26.9	26.0	28.1	**	40.6
	Oats	**	40.8	77.5	-	57.6	95.3	55.2	**	74.1
	Canary grass	-	**	**	-	**	**	-	-	38.8
	Canola/rapeseed	130.3	53.9	36.6	33.9	20.3	20.5	27.6	19.2	44.7
	Flax	-	40.8	31.9	-	33.0	**	31.3	-	37.4
	Mustard	-	-	**	-	54.4	**	-	-	48.4
	Field peas	-	28.9	24.2	-	35.3	**	-	-	27.5
	Lentils	-	-	**	-	26.2	19.9	-	-	23.2
	Total	119.0	49.0	44.0	25.6	26.5	26.3	45.1	28.4	40.8
2000s	Spring wheat	51.8	21.3	29.6	21.0	21.5	19.8	32.1	47.6	25.5
	Barley	46.9	43.9	47.4	18.8	21.3	15.4	28.6	**	36.5
	Oats	60.8	60.2	64.0	**	32.9	34.3	38.2	**	53.2
	Canary grass	-	**	**	-	18.6	19.6	-	-	16.9
	Canola/rapeseed	52.2	28.0	27.6	**	21.2	20.1	28.1	33.3	28.1
	Flax	-	28.0	45.5	-	20.4	**	18.6	**	32.0
	Mustard	-	-	19.7	-	14.8	15.2	-	-	16.3
	Field peas	**	20.7	37.9	-	31.8	17.6	-	-	31.6
	Lentils	-	-	**	-	23.8	34.8	-	-	27.0
	Total	52.9	33.2	37.5	19.7	22.1	20.1	31.6	36.6	30.8

\* Crop is not available for the 1970s Alberta survey; therefore, all crop data from the 1970s are based on Manitoba and Saskatchewan only.

\*\* Less than 10 fields were surveyed.

**Field Survey Summary Tables – Species Richness**

Table 4. Weed species richness in each decade by crop and ecoregion

Decade	Crop	Peace	Boreal	Aspen	Fescue	Moist	Mixed	Lake	Interlake	Total
		Lowland	Transition	Parkland	Grassland	Grassland	Grassland	Manitoba		
		Species (No./field)								
1970s*	Spring wheat	-	8.0	7.7	-	7.1	6.1	6.5	8.2	7.1
	Barley	-	7.9	7.6	-	6.5	5.8	6.4	8.7	7.2
	Oats	-	9.4	8.7	-	9.2	7.2	7.0	9.3	8.6
	Canola/rapeseed	-	7.9	7.2	-	7.1	**	6.5	10.6	7.5
	Flax	-	7.2	8.1	-	7.3	4.7	7.1	9.4	7.6
	Total	-	8.0	7.7	-	7.1	6.1	6.6	8.7	7.3
1980s	Spring wheat	11.5	8.2	6.5	4.7	4.4	4.1	6.2	9.5	5.6
	Barley	11.0	8.1	7.1	4.2	4.6	4.1	7.0	9.7	7.1
	Oats	13.4	10.6	8.4	6.3	6.2	**	**	**	8.8
	Canola/rapeseed	10.8	7.3	7.2	6.2	5.6	-	7.0	**	7.5
	Flax	-	6.6	7.1	-	**	-	6.4	**	6.7
	Total	11.3	8.1	6.8	4.7	4.6	4.2	6.5	9.3	6.3
1990s	Spring wheat	9.3	8.3	7.1	4.7	5.0	4.4	5.7	6.8	5.9
	Barley	8.6	7.2	6.9	5.8	5.3	5.7	5.8	**	6.7
	Oats	**	8.1	6.6	-	6.3	7.8	5.7	**	7.0
	Canary grass	-	**	**	-	**	**	-	-	7.3
	Canola/rapeseed	9.7	7.8	7.4	6.7	5.3	6.3	6.2	8.0	7.2
	Flax	-	6.9	8.0	-	7.6	**	6.6	-	7.5
	Mustard	-	-	**	-	6.1	**	-	-	6.5
	Field peas	-	8.9	8.3	-	8.5	**	-	-	8.3
	Lentils	-	-	**	-	7.0	5.7	-	-	6.8
Total	9.3	7.9	7.2	5.7	5.4	4.9	5.9	7.6	6.5	
2000s	Spring wheat	6.7	6.0	4.9	3.6	3.1	2.8	5.2	4.9	4.1
	Barley	7.1	5.9	5.5	4.1	3.2	3.1	5.3	**	4.9
	Oats	8.4	7.9	5.5	**	4.6	5.2	6.1	**	6.1
	Canary grass	-	**	**	-	3.4	4.4	-	-	4.3
	Canola/rapeseed	7.4	5.7	5.7	**	3.9	4.2	5.1	6.7	5.5
	Flax	-	7.3	5.0	-	4.2	**	5.8	**	5.1
	Mustard	-	-	5.6	-	5.0	4.4	-	-	5.0
	Field peas	**	5.8	7.3	-	5.2	4.5	-	-	6.2
	Lentils	-	-	**	-	3.9	4.4	-	-	4.1
Total	7.3	6.1	5.4	4.1	3.5	3.2	5.5	6.3	4.8	

\* Only data from the main weed species are available from Alberta in the 1970s; therefore, all data from the 1970s are based on Manitoba and Saskatchewan only.

\*\* Less than 10 fields were surveyed

Field Survey Summary Tables – Weed-free Quadrats

Table 5. Percent weed-free quadrats in each decade by crop and ecoregion

Decade	Crop	Weed-free quadrats (%)							Total	
		Peace Lowland	Boreal Transition	Aspen Parkland	Fescue Grassland	Moist Mixed Grassland	Mixed Grassland	Lake Manitoba Plain		Interlake Plain
1970s*	Spring wheat	-	9.5	6.9	-	12.9	18.9	11.7	7.4	12.1
	Barley	-	9.5	9.4	-	17.4	27.1	14.8	6.5	12.7
	Oats	-	3.7	3.0	-	7.8	10.2	4.2	4.0	4.6
	Canola/rapeseed	-	13.0	17.2	-	24.3	**	20.9	8.0	16.4
	Flax	-	16.4	9.3	-	20.0	36.9	7.2	4.3	11.5
	Total	-	10.0	8.3	-	13.6	19.6	12.2	6.7	12.1
1980s	Spring wheat	5.5	11.5	13.5	32.8	29.5	35.6	14.5	9.5	23.1
	Barley	4.5	11.7	15.5	38.1	33.0	32.8	15.7	6.5	17.8
	Oats	1.6	2.2	9.1	6.4	4.2	**	**	**	6.5
	Canola/rapeseed	6.4	11.7	17.3	15.0	30.1	-	23.5	**	15.7
	Flax	-	24.3	24.5	-	**	-	14.0	**	20.9
	Total	5.0	11.7	14.4	31.3	29.0	35.2	15.2	8.0	20.4
1990s	Spring wheat	5.4	15.8	19.5	40.9	28.5	39.5	23.8	14.9	27.0
	Barley	19.4	22.2	17.8	29.6	34.5	27.0	29.0	**	23.2
	Oats	**	4.0	10.0	-	22.0	12.8	14.5	**	11.1
	Canary grass	-	**	**	-	**	**	-	-	23.8
	Canola/rapeseed	6.7	15.8	19.6	20.8	28.6	32.3	32.3	20.1	20.7
	Flax	-	23.6	12.5	-	21.4	**	28.7	-	18.1
	Mustard	-	-	**	-	13.6	**	-	-	11.1
	Field peas	-	17.1	11.2	-	11.4	**	-	-	14.7
	Lentils	-	-	**	-	23.0	26.6	-	-	22.1
	Total	9.5	17.4	17.7	30.5	27.8	35.8	25.9	21.9	23.2
2000s	Spring wheat	19.9	31.6	33.3	49.1	51.0	54.5	37.8	33.1	42.7
	Barley	25.6	25.1	26.2	46.6	49.8	50.7	38.0	**	34.3
	Oats	9.4	12.0	19.8	**	30.7	21.9	20.0	**	19.2
	Canary grass	-	**	**	-	48.8	45.7	-	-	43.4
	Canola/rapeseed	16.5	33.2	33.3	**	44.5	50.1	40.5	25.7	34.8
	Flax	-	29.2	30.0	-	31.3	**	23.2	**	28.7
	Mustard	-	-	32.8	-	38.6	38.2	-	-	36.9
	Field peas	**	29.4	14.8	-	30.7	39.1	-	-	25.2
	Lentils	-	-	**	-	47.7	40.0	-	-	45.3
	Total	18.5	28.0	29.5	46.6	46.9	50.6	33.0	28.4	36.5

\* Quadrat counts not available for the 1970s Alberta survey; therefore, all data from the 1970s are based on Manitoba and Saskatchewan only.

\*\* Less than 10 fields were surveyed.

**Field Survey Summary Tables – 2000s**

Table 6. 2000s (3806 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	37.3	15.2	40.8	8.8	23.6	1070.0	48.8
2	Wild oats	50.4	17.4	34.5	4.5	8.9	449.8	39.2
3	Wild buckwheat	53.0	15.9	30.1	2.2	4.1	175.0	31.1
4	Canada thistle	37.6	7.7	20.5	0.8	2.2	41.6	16.9
5	Lamb's-quarters	22.8	5.4	23.5	1.2	5.1	564.4	12.9
6	Chickweed	8.8	3.8	43.2	2.2	25.0	1727.2	12.0
7	Stinkweed	20.1	4.8	23.8	1.1	5.5	203.2	11.7
8	Redroot pigweed	16.3	3.3	20.1	0.8	5.2	758.4	8.8
9	Cleavers	12.2	3.4	28.0	0.6	5.2	180.8	7.4
10	Kochia	13.3	2.9	21.5	0.6	4.5	197.0	7.0
11	Dandelion	16.7	3.0	18.0	0.3	1.7	43.8	6.9
12	Wheat	10.8	3.0	27.4	0.6	5.9	280.8	6.7
13	Pale smartweed	11.8	2.4	20.5	0.4	3.5	145.2	5.8
14	Canola/rapeseed	10.2	2.4	23.2	0.5	4.5	143.2	5.5
15	Barnyard grass	8.4	1.8	22.1	0.7	8.2	582.8	5.5
16	Field horsetail	9.3	2.4	25.6	0.5	5.3	96.6	5.5
17	Hemp-nettle	9.3	2.2	24.0	0.5	4.9	199.2	5.2
18	Russian thistle	8.6	2.2	25.3	0.4	5.0	120.4	5.0
19	Perennial sow-thistle	12.1	1.9	15.5	0.2	1.6	64.8	4.7
20	Shepherd's-purse	9.2	2.1	22.3	0.3	3.3	90.4	4.6
21	Quack grass	8.6	1.8	20.5	0.4	4.9	139.8	4.6
22	Spiny annual sow-thistle	7.3	1.6	22.6	0.4	5.7	275.2	4.2
23	Narrow-leaved hawk's-beard	7.6	1.5	19.2	0.3	3.4	137.2	3.6
24	Wild mustard	7.6	1.4	18.2	0.2	2.7	96.0	3.4
25	Barley	4.1	0.9	22.9	0.1	3.5	71.4	2.1
26	Flax	2.5	0.9	36.3	0.2	8.9	161.6	2.0
27	Round-leaved mallow	4.3	0.7	17.3	0.1	1.8	28.4	1.8
28	Flixweed	3.9	0.6	14.6	0.1	3.3	141.0	1.7
29	Pineappleweed	2.5	0.6	23.3	0.2	6.7	172.4	1.6
30	Common groundsel	3.0	0.6	20.5	0.1	3.2	62.0	1.4
31	Bluebur	3.2	0.5	16.8	0.1	3.2	112.0	1.4
32	Foxtail barley	3.8	0.4	11.5	0.1	1.8	96.0	1.4
33	Night-flowering catchfly	3.0	0.6	18.8	0.1	2.2	31.6	1.3
34	Clover species	1.8	0.5	26.9	0.1	6.5	96.6	1.2
35	Thyme-leaved spurge	2.5	0.5	20.1	0.1	2.6	38.4	1.1
36	Cow cockle	2.1	0.5	22.3	0.1	2.6	30.4	1.0
37	Alfalfa	1.5	0.4	28.0	0.1	6.2	78.4	0.9
38	Stork's-bill	1.5	0.4	27.3	0.1	4.5	52.2	0.9
39	Prostrate knotweed	1.9	0.3	16.2	< 0.1	1.9	55.8	0.8
40	Persian darnel	1.1	0.3	23.6	0.1	8.6	142.6	0.8
41	Corn spurry	0.7	0.3	37.4	0.1	14.6	182.4	0.7
42	Biennial wormwood	1.6	0.2	11.5	< 0.1	1.4	26.6	0.6
43	Broad-leaved plantain	1.3	0.2	14.0	< 0.1	1.5	14.4	0.5
44	Rose species	1.4	0.1	9.5	< 0.1	1.1	9.0	0.5
45	Black medick	1.0	0.2	18.7	< 0.1	2.5	15.6	0.5
46	Oats	0.5	0.2	35.3	0.1	13.9	104.4	0.5
47	Yellow sweet-clover	0.8	0.2	27.0	< 0.1	3.6	16.8	0.4
48	American dragonhead	1.2	0.1	12.1	< 0.1	0.9	7.2	0.4
49	Prostrate pigweed	0.8	0.2	19.8	< 0.1	1.8	15.6	0.3
50	Low cudweed	0.4	0.1	18.4	< 0.1	10.4	121.2	0.3
51	Prickly lettuce	1.0	0.1	8.7	< 0.1	0.6	3.2	0.3
52	White mustard	0.3	0.1	50.9	< 0.1	13.4	49.8	0.3
53	Rough cinquefoil	0.5	0.1	20.9	< 0.1	5.2	38.6	0.3
54	Wild tomato	0.7	0.1	12.6	< 0.1	1.9	11.2	0.3

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Table 6. 2000s (3806 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Field peas	0.5	0.1	24.9	< 0.1	2.0	7.6	0.3
56	White cockle	0.8	0.1	11.8	< 0.1	1.1	6.2	0.3
57	Vetch species	0.8	0.1	9.8	< 0.1	0.8	5.4	0.3
58	Common pepper-grass	0.7	0.1	11.1	< 0.1	1.5	19.8	0.3
59	Lentils	0.4	0.2	37.2	< 0.1	3.0	11.6	0.2
60	Yellow foxtail	0.4	0.1	21.1	< 0.1	6.6	28.6	0.2
61	Ball mustard	0.4	0.1	20.1	< 0.1	3.4	28.8	0.2
62	Yellow toadflax	0.5	0.1	12.2	< 0.1	1.5	4.6	0.2
63	Tumble pigweed	0.3	0.1	21.1	< 0.1	7.8	43.8	0.2
64	Scentless chamomile	0.4	0.1	17.0	< 0.1	1.8	9.6	0.2
65	Tartary buckwheat	0.1	0.1	40.9	< 0.1	20.1	96.6	0.2
66	Dog mustard	0.3	0.1	19.4	< 0.1	2.4	8.8	0.2
67	Field bindweed	0.3	0.1	18.6	< 0.1	2.8	20.8	0.1
68	Dock species	0.5	< 0.1	9.5	< 0.1	0.7	2.2	0.1
69	Canada fleabane	0.4	0.1	14.3	< 0.1	0.8	2.8	0.1
70	Downy brome	0.2	0.1	21.8	< 0.1	4.2	21.0	0.1
71	Showy milkweed	0.3	< 0.1	12.8	< 0.1	1.2	4.4	0.1
72	Scouring-rush	0.3	< 0.1	16.4	< 0.1	1.8	4.8	0.1
73	Canary grass	0.2	0.1	23.8	< 0.1	2.9	11.0	0.1
74	Bicknell's geranium	0.3	< 0.1	13.4	< 0.1	0.8	1.8	0.1
75	Goat's-beard	0.4	< 0.1	7.3	< 0.1	0.3	0.8	0.1
76	Common ragweed	0.3	< 0.1	14.6	< 0.1	1.7	7.2	0.1
77	Chickpea	0.1	< 0.1	31.3	< 0.1	17.7	39.2	0.1
78	Purslane speedwell	0.3	< 0.1	7.2	< 0.1	0.5	1.4	0.1
79	Cocklebur	0.2	< 0.1	13.9	< 0.1	1.4	4.4	0.1
80	Wormseed mustard	0.2	< 0.1	13.2	< 0.1	2.3	8.2	0.1
81	Tumble mustard	0.3	< 0.1	7.7	< 0.1	0.5	2.6	0.1
82	Knawel	0.1	< 0.1	35.1	< 0.1	8.0	22.4	0.1
83	Absinth	0.2	< 0.1	12.1	< 0.1	1.3	6.4	0.1
84	Smooth brome	0.2	< 0.1	13.6	< 0.1	1.7	3.6	0.1
85	Fescue species	0.1	< 0.1	40.5	< 0.1	11.2	32.4	0.1
86	Poplar species	0.2	< 0.1	11.0	< 0.1	1.4	7.6	0.1
87	Borage	0.1	< 0.1	71.2	< 0.1	12.8	21.4	0.1
88	Milk-vetch species	0.2	< 0.1	8.0	< 0.1	0.5	1.0	0.1
89	Field bean	0.1	< 0.1	25.1	< 0.1	1.6	3.2	0.1
90	Coriander	0.1	< 0.1	47.6	< 0.1	5.5	11.8	0.1
91	Maple-leaved goosefoot	0.2	< 0.1	12.4	< 0.1	1.2	6.4	0.1
92	Water smartweed	0.2	< 0.1	10.3	< 0.1	0.8	2.0	0.1
93	Mouse-eared chickweed	0.2	< 0.1	11.5	< 0.1	1.3	2.8	0.1
94	Skeletonweed	0.1	< 0.1	24.7	< 0.1	20.1	39.2	0.1
95	Sunflower species	0.2	< 0.1	7.0	< 0.1	0.4	1.0	0.1
96	Common yarrow	0.1	< 0.1	11.7	< 0.1	0.8	1.2	< 0.1
97	Spear-leaved goosefoot	0.1	< 0.1	8.7	< 0.1	1.6	6.6	< 0.1
98	Tansy	0.1	< 0.1	10.9	< 0.1	0.7	2.2	< 0.1
99	Povertyweed	0.1	< 0.1	39.0	< 0.1	6.7	13.2	< 0.1
100	Redtop	0.1	< 0.1	8.5	< 0.1	1.4	4.2	< 0.1
101	Russian pigweed	0.1	< 0.1	11.4	< 0.1	0.8	2.4	< 0.1
102	Wild chamomile	0.1	< 0.1	20.0	< 0.1	2.4	4.4	< 0.1
103	Pygmyflower	0.1	< 0.1	18.4	< 0.1	2.7	4.6	< 0.1
104	Purslane	0.1	< 0.1	11.3	< 0.1	0.7	1.2	< 0.1
105	Willowherb species	0.1	< 0.1	18.1	< 0.1	1.3	3.4	< 0.1
106	Wood whitlow-grass	0.1	< 0.1	6.1	< 0.1	0.2	0.4	< 0.1
107	Blue grass species	0.1	< 0.1	5.0	< 0.1	0.5	1.2	< 0.1
108	Henbit	0.1	< 0.1	12.5	< 0.1	1.8	3.4	< 0.1

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**Field Survey Summary Tables – 2000s**

Table 6. 2000s (3806 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
109	Vetchling species	0.1	< 0.1	5.0	< 0.1	0.3	0.6	< 0.1
110	Pasture sage	0.1	< 0.1	7.1	< 0.1	0.5	1.0	< 0.1
111	Manitoba maple	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
112	Wood-sorrel species	< 0.1	< 0.1	15.0	< 0.1	19.4	19.4	< 0.1
113	Blue lettuce	0.1	< 0.1	20.1	< 0.1	3.2	5.4	< 0.1
114	Perennial rye grass	< 0.1	< 0.1	27.2	< 0.1	2.2	3.8	< 0.1
115	Rye	0.1	< 0.1	6.7	< 0.1	0.9	2.2	< 0.1
116	Toad rush	0.1	< 0.1	7.5	< 0.1	3.4	6.0	< 0.1
117	Black mustard	< 0.1	< 0.1	17.3	< 0.1	1.2	2.2	< 0.1
118	Timothy	0.1	< 0.1	12.1	< 0.1	1.2	1.8	< 0.1
119	False ragweed	0.1	< 0.1	12.6	< 0.1	1.0	1.4	< 0.1
120	Wild radish	0.1	< 0.1	10.2	< 0.1	0.8	1.4	< 0.1
121	Leafy spurge	0.1	< 0.1	7.7	< 0.1	1.2	2.0	< 0.1
122	Corn	0.1	< 0.1	9.8	< 0.1	0.7	1.2	< 0.1
123	Witch grass	0.1	< 0.1	7.3	< 0.1	0.9	1.4	< 0.1
124	Ground-ivy	< 0.1	< 0.1	8.9	< 0.1	3.0	7.4	< 0.1
125	Field violet	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
126	Wild rye/wheat grass species	0.1	< 0.1	7.6	< 0.1	0.4	0.4	< 0.1
127	Green tansy mustard	0.1	< 0.1	7.5	< 0.1	0.3	0.4	< 0.1
128	Nodding thistle	< 0.1	< 0.1	35.0	< 0.1	2.2	2.2	< 0.1
129	Field mint	0.1	< 0.1	5.0	< 0.1	0.5	0.8	< 0.1
130	Oak-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
131	Indian mustard	< 0.1	< 0.1	20.0	< 0.1	1.4	1.4	< 0.1
132	Proso millet	< 0.1	< 0.1	15.0	< 0.1	2.6	2.6	< 0.1
133	Goldenrod species	< 0.1	< 0.1	15.0	< 0.1	2.2	2.2	< 0.1
134	Bladder campion	< 0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
135	Spreading dogbane	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
136	False flax species	< 0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
137	Fababean	< 0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
138	Silverberry	< 0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
139	Rayless aster	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
140	Tall hedge mustard	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
141	Prairie coneflower	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
142	Caraway	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
143	Giant ragweed	< 0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
144	Wild licorice	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
145	Small-leaved lamb's-quarters	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
146	Slough grass	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
147	Gray tansy mustard	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
148	Tall buttercup	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1



Table 7. 2000s Peace Lowland Ecoregion (171 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Field horsetail	58.5	22.8	39.0	5.5	9.4	76.8	28.9
2	Wild buckwheat	64.7	23.6	36.4	4.1	6.4	61.0	27.5
3	Stinkweed	48.3	18.3	38.0	5.0	10.3	104.2	24.4
4	Cleavers	45.7	18.3	40.0	4.9	10.8	180.8	24.0
5	Hemp-nettle	37.5	13.2	35.2	5.0	13.5	199.2	20.7
6	Chickweed	26.4	10.9	41.3	5.3	20.0	238.6	18.6
7	Narrow-leaved hawk's-beard	38.5	9.9	25.6	3.3	8.6	137.2	16.0
8	Dandelion	45.0	12.9	28.6	1.5	3.4	42.4	15.0
9	Wild oats	35.3	10.1	28.7	1.8	5.1	46.8	12.9
10	Pineappleweed	24.2	7.4	30.7	2.7	11.3	172.4	11.9
11	Canada thistle	37.2	7.7	20.8	1.2	3.2	41.6	10.9
12	Lamb's-quarters	26.4	7.8	29.4	1.4	5.1	75.4	9.8
13	Common groundsel	19.5	5.7	29.4	1.1	5.9	37.6	7.5
14	Canola/rapeseed	20.5	5.6	27.2	0.9	4.5	32.2	7.1
15	Perennial sow-thistle	21.2	4.8	22.6	0.8	3.8	64.8	6.6
16	Pale smartweed	23.3	4.6	19.8	0.6	2.4	13.2	6.4
17	Bluebur	16.1	3.3	20.5	1.1	6.9	112.0	5.8
18	Clover species	13.6	4.3	31.4	0.9	6.9	70.4	5.6
19	Wheat	11.7	2.8	23.5	1.0	8.7	128.2	4.8
20	Shepherd's-purse	13.3	3.5	26.1	0.6	4.5	41.4	4.5
21	Quack grass	10.3	1.3	12.7	0.7	6.8	63.2	3.3
22	Broad-leaved plantain	10.0	2.1	21.3	0.3	2.6	14.4	2.9
23	Prostrate pigweed	5.3	2.3	43.7	0.2	4.6	15.6	2.3
24	Corn spurry	3.2	1.0	32.3	0.6	18.0	118.2	2.0
25	Low cudweed	6.3	1.0	16.5	0.3	5.2	17.2	2.0
26	Rough cinquefoil	5.4	1.1	20.8	0.3	4.7	30.0	1.7
27	Biennial wormwood	4.3	1.0	22.7	0.2	5.7	26.6	1.5
28	Stork's-bill	2.4	0.9	39.3	0.3	14.5	52.2	1.4
29	Barley	4.1	1.0	25.6	0.2	4.5	13.2	1.4
30	Yellow sweet-clover	3.3	1.0	31.0	0.1	3.2	9.2	1.1
31	Fescue species	1.6	0.7	40.5	0.2	11.2	32.4	0.9
32	American dragonhead	3.9	0.5	13.1	< 0.1	1.0	3.0	0.8
33	Rose species	4.5	0.3	7.4	< 0.1	0.6	1.4	0.8
34	Alfalfa	1.7	0.6	35.4	0.1	8.6	27.2	0.8
35	Common yarrow	3.1	0.4	11.7	< 0.1	0.8	1.2	0.6
36	Spiny annual sow-thistle	3.3	0.3	10.0	< 0.1	0.5	1.2	0.6
37	Bicknell's geranium	2.7	0.5	17.2	< 0.1	0.9	1.8	0.6
38	Foxtail barley	2.3	0.4	19.0	< 0.1	1.7	3.4	0.6
39	Redtop	2.6	0.2	8.5	< 0.1	1.4	4.2	0.5
40	Yellow toadflax	1.7	0.4	22.0	< 0.1	2.3	4.4	0.5
41	Prostrate knotweed	1.7	0.3	18.3	< 0.1	2.4	6.4	0.5
42	Mouse-eared chickweed	1.9	0.3	15.8	< 0.1	1.7	2.8	0.5
43	Willowherb species	1.7	0.3	18.1	< 0.1	1.3	3.4	0.4
44	Field bindweed	1.2	0.4	31.3	< 0.1	3.1	6.2	0.4
45	Milk-vetch species	2.3	0.2	7.5	< 0.1	0.3	0.6	0.4
46	Round-leaved mallow	1.7	0.1	8.6	< 0.1	0.3	0.6	0.3
47	Field peas	0.6	0.3	50.0	< 0.1	6.0	6.0	0.3
48	Redroot pigweed	1.1	0.2	15.0	< 0.1	1.5	2.8	0.2
49	Wild radish	1.2	0.1	10.2	< 0.1	0.8	1.4	0.2
50	Common pepper-grass	1.1	0.1	12.9	< 0.1	0.6	0.8	0.2
51	Ball mustard	1.2	0.1	9.7	< 0.1	0.4	0.6	0.2
52	Vetchling species	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
53	Pygmyflower	0.6	0.1	15.0	< 0.1	4.6	4.6	0.2
54	Cow cockle	0.6	0.1	20.0	< 0.1	1.4	1.4	0.1

*(Table continued on next page)*

**Field Survey Summary Tables – 2000s**

Table 7. 2000s Peace Lowland Ecoregion (171 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Timothy	0.7	0.1	10.0	< 0.1	0.8	0.8	0.1
56	Ground-ivy	0.3	0.1	15.0	< 0.1	7.4	7.4	0.1
57	Wild rye/wheat grass species	0.6	0.1	10.0	< 0.1	0.4	0.4	0.1
58	Scentsless chamomile	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
59	Tall buttercup	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
60	Pasture sage	0.3	< 0.1	10.0	< 0.1	1.0	1.0	0.1

Table 8. 2000s Boreal Transition Ecoregion (482 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	55.9	20.3	36.4	4.4	7.8	113.4	35.3
2	Wild buckwheat	65.5	22.1	33.8	3.4	5.1	102.4	35.0
3	Chickweed	24.3	10.3	42.2	4.2	17.3	416.0	23.2
4	Green foxtail	22.0	6.6	30.2	3.9	17.7	397.4	19.6
5	Canada thistle	52.1	11.3	21.7	1.2	2.3	32.6	19.4
6	Lamb's-quarters	37.2	9.4	25.2	2.1	5.6	268.8	18.4
7	Field horsetail	28.3	6.7	23.7	1.0	3.5	26.0	11.9
8	Cleavers	27.6	6.5	23.6	0.9	3.3	50.2	11.4
9	Hemp-nettle	25.8	5.7	22.0	0.9	3.6	75.4	10.6
10	Stinkweed	22.0	5.6	25.3	1.1	5.1	135.6	10.6
11	Dandelion	29.1	5.6	19.1	0.6	2.0	43.8	10.1
12	Quack grass	16.6	4.5	27.2	1.2	7.1	114.0	9.2
13	Wheat	12.0	4.0	33.3	1.4	11.9	280.8	8.8
14	Canola/rapeseed	18.5	4.2	22.7	0.9	5.0	86.4	8.5
15	Pale smartweed	21.7	4.2	19.1	0.6	2.6	65.2	7.9
16	Redroot pigweed	5.7	1.4	24.7	2.0	34.9	758.4	7.9
17	Shepherd's-purse	16.9	3.8	22.3	0.5	2.8	27.6	6.6
18	Narrow-leaved hawk's-beard	18.0	3.5	19.7	0.3	1.8	18.4	6.2
19	Perennial sow-thistle	20.4	2.8	13.5	0.2	1.2	26.8	5.8
20	Wild mustard	8.8	1.9	21.6	0.3	3.4	37.6	3.6
21	Spiny annual sow-thistle	9.8	1.6	16.9	0.2	1.8	18.4	3.2
22	Clover species	4.4	1.4	31.9	0.4	9.7	96.6	2.9
23	Alfalfa	5.1	1.6	31.3	0.3	6.3	78.4	2.8
24	Barley	7.4	1.6	22.2	0.2	2.1	18.6	2.7
25	Corn spurry	2.6	1.2	45.6	0.2	7.0	22.2	1.7
26	Night-flowering catchfly	4.0	0.8	21.2	0.1	2.3	13.4	1.5
27	Bluebur	4.2	0.7	16.7	0.1	1.3	9.6	1.3
28	Common groundsel	3.2	0.4	13.8	< 0.1	0.8	1.8	0.9
29	Stork's-bill	2.7	0.4	16.6	< 0.1	1.2	5.4	0.8
30	American dragonhead	3.1	0.4	13.2	< 0.1	0.6	1.4	0.8
31	Broad-leaved plantain	2.8	0.3	11.0	< 0.1	0.7	1.8	0.7
32	Pineappleweed	2.9	0.3	10.5	< 0.1	0.5	1.4	0.7
33	Flax	1.6	0.4	25.2	< 0.1	2.2	7.6	0.6
34	Round-leaved mallow	1.4	0.4	28.2	< 0.1	3.3	9.6	0.6
35	Wild tomato	1.5	0.3	17.9	0.1	3.9	8.8	0.6
36	Yellow sweet-clover	1.4	0.3	24.6	< 0.1	3.1	16.6	0.6
37	Barnyard grass	1.5	0.2	15.8	< 0.1	2.7	11.0	0.5
38	Black medick	1.8	0.2	14.0	< 0.1	1.0	3.0	0.5

(Table continued on next page)

Table 8. 2000s Boreal Transition Ecoregion (482 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
39	Rough cinquefoil	0.6	0.2	41.3	0.1	14.3	38.6	0.5
40	Vetch species	1.4	0.2	15.1	< 0.1	1.3	5.4	0.4
41	White cockle	1.8	0.1	7.9	< 0.1	0.7	3.6	0.4
42	Russian thistle	1.4	0.2	12.8	< 0.1	0.9	2.0	0.4
43	Ball mustard	1.0	0.2	16.9	< 0.1	1.7	5.6	0.3
44	Knawel	0.2	0.2	75.0	0.1	22.4	22.4	0.3
45	Borage	0.2	0.2	100.0	< 0.1	21.4	21.4	0.3
46	Field peas	0.6	0.2	32.8	< 0.1	2.1	5.8	0.3
47	White mustard	0.2	0.2	80.0	< 0.1	10.8	10.8	0.2
48	Kochia	0.6	0.1	16.0	< 0.1	1.4	2.8	0.2
49	Prostrate knotweed	0.8	0.1	7.4	< 0.1	0.3	0.4	0.2
50	Foxtail barley	0.8	0.1	6.4	< 0.1	0.3	0.4	0.2
51	Canary grass	0.2	0.1	60.0	< 0.1	6.0	6.0	0.2
52	Cow cockle	0.6	0.1	12.2	< 0.1	0.6	0.8	0.2
53	Low cudweed	0.7	0.1	8.6	< 0.1	0.3	0.4	0.2
54	Biennial wormwood	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
55	Maple-leaved goosefoot	0.7	< 0.1	6.3	< 0.1	0.3	0.4	0.2
56	Scentless chamomile	0.4	0.1	25.0	< 0.1	2.1	2.6	0.1
57	Prickly lettuce	0.6	0.1	11.7	< 0.1	0.5	0.6	0.1
58	Purslane speedwell	0.7	< 0.1	5.0	< 0.1	0.3	0.6	0.1
59	Blue grass species	0.6	< 0.1	5.0	< 0.1	0.6	1.2	0.1
60	Tartary buckwheat	0.4	0.1	15.4	< 0.1	1.1	1.4	0.1
61	Dog mustard	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
62	Oats	0.4	0.1	20.5	< 0.1	1.1	1.8	0.1
63	Bicknell's geranium	0.4	< 0.1	12.5	< 0.1	0.6	1.0	0.1
64	Poplar species	0.5	< 0.1	5.0	< 0.1	0.3	0.4	0.1
65	Field violet	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
66	Russian pigweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Wormseed mustard	0.2	< 0.1	20.0	< 0.1	4.8	4.8	0.1
68	Pasture sage	0.4	< 0.1	7.4	< 0.1	0.5	0.8	0.1
69	Common pepper-grass	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
70	Vetchling species	0.4	< 0.1	5.0	< 0.1	0.4	0.6	0.1
71	Smooth brome	0.2	< 0.1	10.0	< 0.1	2.6	2.6	0.1
72	Field bindweed	0.2	< 0.1	10.0	< 0.1	0.8	0.8	0.1
73	Milk-vetch species	0.2	< 0.1	5.0	< 0.1	1.0	1.0	0.1
74	Purslane	0.2	< 0.1	15.0	< 0.1	0.6	0.6	0.1
75	Rose species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
76	Spreading dogbane	0.2	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
77	Downy brome	0.2	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
78	Canada fleabane	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
79	Black mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
80	Henbit	0.2	< 0.1	5.0	< 0.1	1.8	1.8	< 0.1
81	Thyme-leaved spurge	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
82	Rye	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 2000s**

Table 9. 2000s Aspen Parkland Ecoregion (1377 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	44.8	19.4	43.2	12.1	27.1	1070.0	54.6
2	Wild oats	55.0	20.7	37.6	5.5	9.9	379.6	39.6
3	Wild buckwheat	58.9	19.4	33.0	2.7	4.5	175.0	32.0
4	Canada thistle	49.6	10.9	22.0	1.2	2.4	29.4	20.1
5	Chickweed	11.4	5.2	45.9	3.9	33.8	1727.2	16.2
6	Lamb's-quarters	26.3	5.8	22.2	1.4	5.3	564.4	12.8
7	Stinkweed	18.8	3.9	21.0	0.8	4.3	203.2	8.5
8	Wheat	15.0	4.3	28.9	0.8	5.5	95.0	8.1
9	Cleavers	15.9	4.2	26.5	0.6	3.9	95.0	7.7
10	Spiny annual sow-thistle	11.9	3.2	26.8	0.9	7.3	275.2	6.8
11	Pale smartweed	13.2	3.1	23.4	0.7	5.6	145.2	6.6
12	Perennial sow-thistle	18.1	3.1	17.1	0.3	1.7	24.4	6.4
13	Shepherd's-purse	14.8	3.1	21.1	0.5	3.4	90.4	6.3
14	Redroot pigweed	14.4	2.7	19.1	0.6	3.9	168.2	6.2
15	Canola/rapeseed	12.0	2.9	23.7	0.5	4.5	143.2	5.7
16	Dandelion	17.1	2.6	15.2	0.2	1.3	26.8	5.6
17	Quack grass	12.1	2.3	18.7	0.4	3.3	55.0	4.9
18	Hemp-nettle	10.3	2.2	21.7	0.3	2.7	26.8	4.3
19	Barnyard grass	8.2	1.5	18.6	0.4	5.3	227.8	3.8
20	Wild mustard	9.7	1.6	16.6	0.3	2.7	96.0	3.6
21	Russian thistle	6.2	1.4	21.9	0.3	4.5	75.4	2.9
22	Kochia	6.1	1.2	19.9	0.3	5.3	197.0	2.9
23	Barley	6.1	1.4	23.4	0.3	4.1	71.4	2.8
24	Narrow-leaved hawk's-beard	7.7	1.3	16.8	0.2	2.1	55.6	2.8
25	Flax	3.6	1.3	36.1	0.4	9.9	161.6	2.5
26	Field horsetail	6.5	1.0	15.0	0.2	3.2	93.0	2.5
27	Round-leaved mallow	5.9	1.0	16.4	0.1	1.6	11.0	2.1
28	Night-flowering catchfly	5.3	0.9	17.4	0.1	1.8	12.0	1.9
29	Flixweed	3.3	0.4	13.1	0.2	7.2	141.0	1.5
30	Bluebur	4.1	0.6	15.6	0.1	2.7	43.8	1.5
31	Common groundsel	4.2	0.7	16.1	0.1	1.4	14.2	1.4
32	Pineappleweed	2.6	0.5	20.7	0.1	4.4	32.6	1.2
33	Stork's-bill	2.3	0.7	28.4	0.1	4.1	40.0	1.1
34	Prostrate knotweed	3.0	0.4	13.6	< 0.1	1.0	4.4	0.9
35	Black medick	1.7	0.4	22.0	0.1	3.6	15.6	0.7
36	Corn spurry	0.6	0.2	32.1	0.2	26.4	182.4	0.6
37	Foxtail barley	2.1	0.2	9.8	< 0.1	1.7	19.8	0.6
38	Biennial wormwood	2.1	0.2	10.6	< 0.1	1.0	5.4	0.6
39	Alfalfa	0.8	0.3	33.7	0.1	10.4	44.2	0.6
40	Clover species	1.3	0.3	20.0	< 0.1	3.2	29.4	0.6
41	Oats	0.8	0.3	31.4	0.1	7.2	22.0	0.5
42	Thyme-leaved spurge	1.2	0.2	18.6	< 0.1	2.8	19.4	0.5
43	Rose species	1.4	0.1	9.3	< 0.1	1.0	5.6	0.4
44	White cockle	1.2	0.2	13.0	< 0.1	1.0	6.2	0.4
45	American dragonhead	1.2	0.1	11.1	< 0.1	1.2	7.2	0.4
46	Yellow toadflax	1.2	0.1	10.4	< 0.1	1.3	4.6	0.4
47	Low cudweed	0.2	0.1	37.6	0.1	41.9	121.2	0.3
48	Persian darnel	0.9	0.1	10.6	< 0.1	3.1	22.4	0.3
49	Scentless chamomile	0.8	0.1	18.3	< 0.1	2.2	9.6	0.3
50	Tartary buckwheat	0.1	0.1	79.2	0.1	49.7	96.6	0.3
51	Ball mustard	0.6	0.1	25.0	< 0.1	5.3	28.8	0.3
52	Wild tomato	0.8	0.1	14.8	< 0.1	1.8	11.2	0.3
53	Yellow sweet-clover	0.6	0.1	24.4	< 0.1	3.6	16.2	0.3
54	Field peas	0.5	0.1	20.2	< 0.1	1.6	7.6	0.2

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Table 9. 2000s Aspen Parkland Ecoregion (1377 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Cow cockle	0.4	0.1	27.9	< 0.1	2.2	5.4	0.2
56	Broad-leaved plantain	0.7	< 0.1	6.0	< 0.1	0.3	0.8	0.2
57	Vetch species	0.7	< 0.1	6.1	< 0.1	0.5	1.2	0.2
58	Wormseed mustard	0.4	0.1	13.4	< 0.1	2.3	8.2	0.2
59	Canary grass	0.3	0.1	26.1	< 0.1	3.8	11.0	0.1
60	Purslane speedwell	0.5	< 0.1	8.5	< 0.1	0.6	1.4	0.1
61	Prostrate pigweed	0.5	< 0.1	7.3	< 0.1	0.5	1.6	0.1
62	Absinth	0.4	0.1	15.3	< 0.1	1.9	6.4	0.1
63	Poplar species	0.4	0.1	13.9	< 0.1	1.8	7.6	0.1
64	Showy milkweed	0.4	< 0.1	11.0	< 0.1	1.4	4.4	0.1
65	Smooth brome	0.3	0.1	17.6	< 0.1	1.8	3.6	0.1
66	Dog mustard	0.3	< 0.1	12.4	< 0.1	2.4	8.0	0.1
67	Downy brome	0.2	0.1	23.9	< 0.1	3.8	4.8	0.1
68	Rough cinquefoil	0.3	< 0.1	14.1	< 0.1	2.0	6.0	0.1
69	Povertyweed	0.1	0.1	39.0	< 0.1	6.7	13.2	0.1
70	Wild chamomile	0.2	< 0.1	20.0	< 0.1	2.4	4.4	0.1
71	Coriander	0.1	0.1	85.0	< 0.1	11.8	11.8	0.1
72	Prickly lettuce	0.3	< 0.1	6.2	< 0.1	0.9	3.2	0.1
73	Cocklebur	0.2	< 0.1	19.9	< 0.1	1.7	4.4	0.1
74	White mustard	0.2	< 0.1	32.5	< 0.1	2.8	5.0	0.1
75	Knawel	0.2	< 0.1	18.2	< 0.1	1.9	3.4	0.1
76	Field bindweed	0.3	< 0.1	7.5	< 0.1	0.4	0.4	0.1
77	Yellow foxtail	0.1	< 0.1	17.9	< 0.1	4.1	7.8	0.1
78	Bicknell's geranium	0.2	< 0.1	10.1	< 0.1	0.7	1.0	0.1
79	Mouse-eared chickweed	0.2	< 0.1	6.7	< 0.1	0.9	1.4	0.1
80	Scouring-rush	0.2	< 0.1	6.6	< 0.1	0.4	0.8	0.1
81	Tansy	0.2	< 0.1	6.7	< 0.1	0.3	0.4	0.1
82	Russian pigweed	0.1	< 0.1	18.3	< 0.1	1.4	2.4	0.1
83	Wood whitlow-grass	0.2	< 0.1	6.6	< 0.1	0.3	0.4	0.1
84	Henbit	0.1	< 0.1	15.3	< 0.1	1.8	3.4	0.1
85	Common ragweed	0.2	< 0.1	5.0	< 0.1	0.3	0.4	< 0.1
86	Tumble pigweed	0.2	< 0.1	14.9	< 0.1	1.0	1.8	< 0.1
87	Borage	0.1	< 0.1	45.0	< 0.1	5.0	5.0	< 0.1
88	Manitoba maple	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
89	Leafy spurge	0.1	< 0.1	7.7	< 0.1	1.2	2.0	< 0.1
90	Rye	0.1	< 0.1	7.4	< 0.1	1.2	2.2	< 0.1
91	Goat's-beard	0.1	< 0.1	7.4	< 0.1	0.4	0.4	< 0.1
92	Perennial rye grass	0.1	< 0.1	40.0	< 0.1	3.8	3.8	< 0.1
93	Maple-leaved goosefoot	0.1	< 0.1	7.5	< 0.1	0.5	0.6	< 0.1
94	Spear-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
95	Common pepper-grass	0.1	< 0.1	7.7	< 0.1	0.5	0.8	< 0.1
96	Oak-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
97	Black mustard	0.1	< 0.1	30.0	< 0.1	2.2	2.2	< 0.1
98	Goldenrod species	0.1	< 0.1	15.0	< 0.1	2.2	2.2	< 0.1
99	False ragweed	0.1	< 0.1	10.0	< 0.1	1.4	1.4	< 0.1
100	Witch grass	0.1	< 0.1	10.0	< 0.1	1.4	1.4	< 0.1
101	Canada fleabane	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
102	False flax species	0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
103	Toad rush	0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
104	Sunflower species	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
105	Rayless aster	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
106	Tall hedge mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
107	Wild rye/wheat grass species	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
108	Caraway	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1

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**Field Survey Summary Tables – 2000s**

Table 9. 2000s Aspen Parkland Ecoregion (1377 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
109	Giant ragweed	0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
110	Wild licorice	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
111	Tumble mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
112	Slough grass	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
113	Field mint	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
114	Milk-vetch species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
115	Purslane	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
116	Ground-ivy	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 10. 2000s Fescue Grassland Ecoregion (76 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	50.2	17.9	35.6	3.3	6.5	50.8	46.4
2	Wild buckwheat	47.6	13.6	28.5	1.1	2.3	12.8	30.5
3	Canada thistle	47.6	9.2	19.3	1.2	2.5	12.6	26.8
4	Cleavers	9.3	5.2	55.9	2.5	27.4	81.4	20.3
5	Spiny annual sow-thistle	11.9	4.2	35.6	2.5	20.8	159.8	19.6
6	Stinkweed	32.5	4.8	14.7	0.5	1.4	6.2	15.0
7	Shepherd's-purse	15.9	6.5	41.2	0.8	5.3	16.2	14.6
8	Lamb's-quarters	19.9	3.9	19.7	0.4	1.8	10.0	10.5
9	Green foxtail	6.6	1.9	29.0	1.4	20.5	100.4	10.4
10	Dandelion	21.2	3.5	16.5	0.2	0.9	3.4	9.6
11	Flixweed	13.1	3.0	23.0	0.7	5.0	37.6	9.5
12	Common groundsel	5.3	1.9	36.3	0.9	16.8	62.0	7.7
13	Chickweed	5.3	1.7	31.1	0.7	13.2	44.2	6.5
14	Canola/rapeseed	10.6	2.4	22.5	0.2	1.5	4.2	5.7
15	Barley	5.3	2.2	42.5	0.4	7.6	18.6	5.5
16	Hemp-nettle	8.0	1.9	24.1	0.3	3.3	11.6	5.2
17	Quack grass	8.0	1.7	21.7	0.3	3.5	11.2	5.1
18	Prostrate knotweed	7.9	2.3	29.1	0.2	2.1	4.8	5.0
19	Foxtail barley	9.1	1.5	16.5	0.1	1.2	5.0	4.3
20	Round-leaved mallow	6.7	1.7	26.0	0.2	2.3	5.2	4.1
21	Yellow sweet-clover	3.6	1.4	39.7	0.3	8.5	16.8	3.8
22	Alfalfa	1.4	1.2	90.0	0.4	31.4	31.4	3.7
23	Redroot pigweed	6.7	0.9	14.0	0.1	1.7	7.0	3.1
24	Cow cockle	5.3	1.2	22.5	0.1	2.2	6.2	3.1
25	Kochia	6.7	0.9	12.9	0.1	0.8	2.0	2.8
26	Downy brome	1.4	1.0	70.0	0.3	21.0	21.0	2.7
27	Pineappleweed	4.0	1.0	25.0	0.1	3.6	8.8	2.7
28	Persian darnel	1.3	0.8	60.0	0.3	20.4	20.4	2.5
29	Perennial sow-thistle	5.3	0.7	13.7	0.1	1.5	4.6	2.4
30	Wheat	4.0	0.9	21.7	0.1	1.9	3.8	2.2
31	Rose species	4.0	0.3	8.4	< 0.1	0.9	2.4	1.5
32	Bluebur	4.0	0.4	10.0	< 0.1	0.5	0.6	1.5
33	Narrow-leaved hawk's-beard	4.0	0.3	6.7	< 0.1	0.3	0.4	1.3
34	Pale smartweed	2.6	0.1	5.0	< 0.1	1.3	2.4	1.0
35	Toad rush	1.3	0.1	10.0	0.1	6.0	6.0	0.9
36	Smooth brome	1.3	0.1	5.0	< 0.1	1.0	1.0	0.5
37	White cockle	1.4	0.1	5.0	< 0.1	0.4	0.4	0.4
38	Wood whitlow-grass	1.4	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Goat's-beard	1.3	0.1	5.0	< 0.1	0.2	0.2	0.4
40	Pasture sage	1.3	0.1	5.0	< 0.1	0.2	0.2	0.4
41	Wild tomato	1.3	0.1	5.0	< 0.1	0.2	0.2	0.4

**Field Survey Summary Tables – 2000s**

Table 11. 2000s Moist Mixed Grassland Ecoregion (810 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	38.3	16.0	41.8	9.7	25.2	568.4	73.2
2	Wild oats	43.4	14.7	33.9	3.7	8.5	201.2	46.3
3	Wild buckwheat	42.1	10.3	24.2	1.2	2.8	100.0	29.4
4	Kochia	23.9	5.6	23.5	1.2	5.1	181.4	19.0
5	Canada thistle	31.0	6.0	19.3	0.6	2.0	16.6	18.7
6	Stinkweed	19.3	4.4	22.7	0.9	4.4	117.4	14.5
7	Redroot pigweed	18.8	3.8	20.2	0.8	4.0	179.2	13.3
8	Russian thistle	13.6	3.8	28.0	0.7	5.2	58.8	11.6
9	Lamb's-quarters	14.3	3.6	24.9	0.7	4.9	113.2	11.5
10	Dandelion	10.4	1.6	15.4	0.1	1.1	13.4	5.4
11	Barnyard grass	6.8	1.4	20.8	0.2	3.7	39.6	4.7
12	Flax	2.8	1.4	49.7	0.4	13.2	49.6	4.1
13	Canola/rapeseed	5.5	1.1	20.7	0.2	4.2	84.6	4.0
14	Wheat	6.0	1.1	18.6	0.1	2.5	24.4	3.7
15	Foxtail barley	6.5	0.8	12.4	0.1	1.1	7.0	3.1
16	Flixweed	5.5	0.8	15.4	0.1	1.1	5.4	2.8
17	Wild mustard	4.5	0.9	20.8	0.1	2.0	26.8	2.8
18	Thyme-leaved spurge	3.7	0.7	17.8	0.1	2.4	31.8	2.3
19	Round-leaved mallow	3.9	0.6	14.3	< 0.1	1.1	5.2	1.9
20	Perennial sow-thistle	4.5	0.4	9.0	< 0.1	0.6	2.2	1.9
21	Shepherd's-purse	2.7	0.6	22.5	0.1	3.2	12.4	1.9
22	Spiny annual sow-thistle	1.9	0.4	20.8	0.1	6.7	73.8	1.5
23	Narrow-leaved hawk's-beard	2.8	0.4	13.9	< 0.1	1.3	7.4	1.4
24	Rose species	2.7	0.3	10.3	< 0.1	1.4	9.0	1.3
25	Cow cockle	2.0	0.4	18.7	< 0.1	1.9	8.2	1.2
26	Prostrate knotweed	1.3	0.4	24.1	0.1	6.1	55.8	1.2
27	Oats	0.3	0.2	83.6	0.2	70.6	104.4	1.2
28	Pale smartweed	2.4	0.3	12.3	< 0.1	1.1	3.2	1.2
29	Quack grass	1.7	0.3	16.2	0.1	3.1	20.0	1.1
30	Lentils	1.3	0.5	34.9	< 0.1	2.6	7.2	1.1
31	Barley	1.6	0.3	19.9	< 0.1	3.0	28.6	1.1
32	Common pepper-grass	1.9	0.2	12.6	< 0.1	1.6	19.8	1.0
33	Cleavers	1.6	0.3	18.7	< 0.1	2.0	13.2	0.9
34	Biennial wormwood	2.0	0.2	9.9	< 0.1	0.8	5.6	0.9
35	Bluebur	1.5	0.3	18.1	< 0.1	1.7	9.2	0.8
36	Field horsetail	1.0	0.2	21.7	< 0.1	3.1	10.4	0.7
37	Prostrate pigweed	1.3	0.1	11.4	< 0.1	0.7	3.0	0.6
38	Scouring-rush	0.9	0.2	20.5	< 0.1	2.3	4.8	0.6
39	Vetch species	1.1	0.1	10.6	< 0.1	1.0	2.6	0.5
40	Prickly lettuce	1.2	0.1	9.5	< 0.1	0.6	1.8	0.5
41	Night-flowering catchfly	0.3	0.2	46.6	< 0.1	12.2	31.6	0.5
42	Persian darnel	0.7	0.2	22.6	< 0.1	2.4	6.6	0.5
43	Canada fleabane	0.7	0.2	21.8	< 0.1	1.1	2.8	0.4
44	Dock species	0.8	0.1	12.1	< 0.1	0.9	2.2	0.4
45	Goat's-beard	0.8	0.1	9.1	< 0.1	0.4	0.8	0.3
46	Yellow sweet-clover	0.4	0.1	28.2	< 0.1	3.5	8.4	0.3
47	Field peas	0.5	0.1	17.7	< 0.1	1.4	4.6	0.3
48	Stork's-bill	0.2	0.1	40.6	< 0.1	7.0	14.6	0.3
49	Common groundsel	0.2	0.1	25.1	< 0.1	4.2	8.0	0.2
50	Black medick	0.4	< 0.1	11.4	< 0.1	0.8	2.2	0.2
51	Sunflower species	0.4	< 0.1	6.5	< 0.1	0.3	0.4	0.2
52	Spear-leaved goosefoot	0.3	< 0.1	9.2	< 0.1	3.0	6.6	0.1
53	Field bindweed	0.1	0.1	65.0	< 0.1	3.4	3.4	0.1
54	Chickweed	0.3	< 0.1	8.3	< 0.1	0.7	1.0	0.1

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Table 11. 2000s Moist Mixed Grassland Ecoregion (810 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Clover species	0.2	< 0.1	10.0	< 0.1	3.6	6.6	0.1
56	Alfalfa	0.2	< 0.1	20.1	< 0.1	1.4	2.4	0.1
57	Wild tomato	0.3	< 0.1	5.0	< 0.1	0.3	0.4	0.1
58	Blue lettuce	0.1	< 0.1	30.0	< 0.1	5.4	5.4	0.1
59	Nodding thistle	0.1	< 0.1	35.0	< 0.1	2.2	2.2	0.1
60	Pygmyflower	0.1	< 0.1	25.0	< 0.1	3.0	3.0	0.1
61	Dog mustard	0.1	< 0.1	25.0	< 0.1	1.0	1.0	0.1
62	Tartary buckwheat	0.1	< 0.1	20.0	< 0.1	2.4	2.4	0.1
63	American dragonhead	0.1	< 0.1	25.0	< 0.1	1.0	1.0	0.1
64	Indian mustard	0.1	< 0.1	20.0	< 0.1	1.4	1.4	0.1
65	False ragweed	0.1	< 0.1	15.0	< 0.1	0.6	0.6	0.1
66	Smooth brome	0.1	< 0.1	10.0	< 0.1	1.2	1.2	0.1
67	Canary grass	0.1	< 0.1	10.0	< 0.1	1.0	1.0	0.1
68	Rough cinquefoil	0.1	< 0.1	5.0	< 0.1	1.6	1.6	0.1
69	Milk-vetch species	0.1	< 0.1	10.0	< 0.1	0.6	0.6	0.1
70	Field mint	0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
71	Broad-leaved plantain	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
72	Corn spurry	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
73	Downy brome	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
74	Green tansy mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
75	Water smartweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
76	Scentsless chamomile	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 12. 2000s Mixed Grassland Ecoregion (606 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	37.4	15.7	41.9	7.8	20.8	520.0	70.5
2	Wild oats	50.6	13.9	27.6	3.0	6.0	107.6	48.8
3	Wild buckwheat	38.1	8.6	22.6	1.0	2.6	50.0	27.9
4	Kochia	33.9	7.0	20.8	1.3	3.7	99.8	25.9
5	Stinkweed	19.8	4.7	24.0	1.5	7.8	198.0	19.9
6	Russian thistle	19.9	5.2	26.0	1.1	5.3	120.4	18.1
7	Redroot pigweed	23.2	4.2	18.2	0.7	3.2	128.0	16.3
8	Lamb's-quarters	11.6	2.5	21.8	0.6	5.0	118.2	9.7
9	Wheat	6.3	2.0	31.9	0.3	4.8	33.4	6.0
10	Barnyard grass	6.5	1.3	20.3	0.4	6.8	67.6	6.0
11	Cow cockle	7.6	1.8	23.6	0.2	3.1	30.4	5.9
12	Persian darnel	3.8	1.1	28.8	0.5	12.4	142.6	4.9
13	Flixweed	7.6	1.1	13.9	0.1	1.6	28.4	4.4
14	Foxtail barley	7.5	0.8	10.4	0.2	2.7	96.0	4.3
15	Canada thistle	6.8	0.8	11.2	0.1	1.4	15.4	3.6
16	Wild mustard	5.1	0.9	17.2	0.1	2.6	37.4	3.4
17	Dandelion	4.3	0.8	18.3	0.1	1.9	19.0	2.7
18	White mustard	1.1	0.6	52.1	0.2	17.1	49.8	1.9
19	Prickly lettuce	3.4	0.3	8.0	< 0.1	0.6	2.8	1.5
20	Tumble pigweed	1.4	0.3	22.6	0.1	9.4	43.8	1.5
21	Round-leaved mallow	1.5	0.4	24.5	0.1	6.5	28.4	1.4
22	Thyme-leaved spurge	1.6	0.3	18.2	0.1	4.3	38.4	1.2

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**Field Survey Summary Tables – 2000s**

Table 12. 2000s Mixed Grassland Ecoregion (606 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
23	Canola/rapeseed	1.5	0.4	26.3	< 0.1	3.1	9.0	1.2
24	Chickpea	0.6	0.2	31.3	0.1	17.7	39.2	0.9
25	Lentils	0.8	0.3	42.0	< 0.1	4.0	11.6	0.8
26	Field peas	0.9	0.3	27.2	< 0.1	2.2	6.8	0.7
27	Tumble mustard	1.6	0.1	8.0	< 0.1	0.5	2.6	0.7
28	Pale smartweed	1.1	0.2	14.1	< 0.1	1.8	6.2	0.6
29	Flax	1.1	0.2	15.3	< 0.1	1.1	4.0	0.6
30	Common pepper-grass	1.1	0.1	9.7	< 0.1	2.1	11.8	0.6
31	Skeletonweed	0.3	0.1	24.7	0.1	20.1	39.2	0.5
32	Biennial wormwood	1.1	0.1	10.3	< 0.1	0.5	1.4	0.5
33	Field bindweed	0.6	0.1	13.9	< 0.1	5.9	20.8	0.5
34	Yellow foxtail	0.2	0.1	65.0	< 0.1	25.6	25.6	0.5
35	Quack grass	0.4	0.1	29.5	< 0.1	10.0	13.2	0.4
36	Canada fleabane	0.9	0.1	9.2	< 0.1	0.6	1.4	0.4
37	Perennial sow-thistle	0.8	0.1	10.6	< 0.1	0.5	1.0	0.4
38	Alfalfa	0.8	0.1	10.8	< 0.1	0.7	2.6	0.4
39	Vetch species	0.7	0.1	8.5	< 0.1	0.6	0.6	0.3
40	Barley	0.5	0.1	18.4	< 0.1	1.4	2.4	0.3
41	Wild tomato	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.3
42	Prostrate knotweed	0.5	0.1	13.4	< 0.1	1.0	1.6	0.2
43	Downy brome	0.5	0.1	13.4	< 0.1	0.9	1.4	0.2
44	Goat's-beard	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
45	Wood-sorrel species	0.2	< 0.1	15.0	< 0.1	19.4	19.4	0.2
46	Black medick	0.3	0.1	20.0	< 0.1	1.7	3.2	0.2
47	Dock species	0.4	< 0.1	8.5	< 0.1	0.9	1.8	0.2
48	Dog mustard	0.2	0.1	50.0	< 0.1	6.0	6.0	0.2
49	Bluebur	0.4	< 0.1	9.4	< 0.1	0.6	1.4	0.2
50	Narrow-leaved hawk's-beard	0.4	< 0.1	8.3	< 0.1	0.5	0.7	0.2
51	Spiny annual sow-thistle	0.5	< 0.1	5.0	< 0.1	0.4	0.6	0.2
52	Rose species	0.3	< 0.1	12.8	< 0.1	2.0	3.6	0.2
53	Field horsetail	0.2	< 0.1	20.0	< 0.1	5.6	5.6	0.1
54	Clover species	0.2	< 0.1	10.0	< 0.1	4.0	4.0	0.1
55	Spear-leaved goosefoot	0.2	< 0.1	15.0	< 0.1	0.8	0.8	0.1
56	Pygmyflower	0.2	< 0.1	15.0	< 0.1	0.6	0.6	0.1
57	Shepherd's-purse	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
58	Green tansy mustard	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
59	Cocklebur	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
60	Blue lettuce	0.1	< 0.1	8.8	< 0.1	0.6	0.6	0.1
61	Canary grass	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
62	Prairie coneflower	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
63	Sunflower species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
64	Purslane speedwell	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Small-leaved lamb's-quarters	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Oats	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Rough cinquefoil	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
68	Gray tansy mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Yellow sweet-clover	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
70	Prostrate pigweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 13. 2000s Lake Manitoba Plain Ecoregion (222 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	58.5	20.0	34.3	9.5	16.2	316.0	57.2
2	Wild oats	45.8	15.2	33.3	5.5	11.9	336.0	38.2
3	Barnyard grass	36.2	10.4	28.8	6.4	17.6	582.8	35.4
4	Wild buckwheat	61.2	17.0	27.8	2.2	3.6	80.6	32.1
5	Redroot pigweed	33.2	7.5	22.6	1.3	3.8	46.8	16.3
6	Canada thistle	41.3	6.1	14.8	0.7	1.6	18.2	14.7
7	Pale smartweed	34.4	6.0	17.4	0.5	1.5	11.2	12.8
8	Lamb's-quarters	26.1	5.0	19.0	0.7	2.6	45.8	11.0
9	Quack grass	13.4	2.3	17.2	1.0	7.7	139.8	7.6
10	Thyme-leaved spurge	16.6	3.9	23.3	0.4	2.3	14.4	7.4
11	Dandelion	19.5	3.2	16.3	0.3	1.8	20.8	7.3
12	Canola/rapeseed	13.8	3.0	21.9	0.7	4.9	86.0	7.2
13	Wild mustard	16.1	2.8	17.1	0.5	3.0	45.2	6.7
14	Wheat	14.6	2.9	19.7	0.4	2.5	21.0	6.2
15	Spiny annual sow-thistle	14.2	1.6	11.5	0.1	0.8	7.8	4.3
16	Round-leaved mallow	11.2	1.8	16.0	0.1	1.3	13.0	4.0
17	Perennial sow-thistle	10.9	1.0	9.4	0.1	0.9	4.4	3.2
18	Flax	4.0	0.9	23.3	0.1	2.4	6.6	1.8
19	Hemp-nettle	4.5	0.8	18.4	0.1	1.7	9.4	1.7
20	Stork's-bill	1.7	0.9	52.6	0.2	9.8	25.6	1.6
21	Night-flowering catchfly	5.4	0.5	8.8	< 0.1	0.5	2.4	1.5
22	Kochia	3.6	0.7	18.3	0.1	1.9	10.2	1.4
23	Stinkweed	4.6	0.4	9.5	< 0.1	0.9	5.0	1.3
24	Common ragweed	3.2	0.6	18.8	0.1	2.4	7.2	1.3
25	Yellow foxtail	3.1	0.4	13.7	0.1	3.0	10.6	1.2
26	Cleavers	2.6	0.6	22.3	0.1	2.4	8.6	1.2
27	Barley	3.2	0.5	15.1	0.1	1.6	5.8	1.1
28	Field horsetail	3.9	0.4	9.1	< 0.1	0.6	2.2	1.1
29	Field bean	2.3	0.6	25.1	< 0.1	1.6	3.2	1.0
30	Shepherd's-purse	2.6	0.4	14.0	0.1	2.3	8.4	1.0
31	Dog mustard	1.8	0.5	28.7	0.1	3.4	8.8	0.9
32	Oats	1.0	0.3	35.1	0.1	10.6	15.4	0.8
33	Showy milkweed	2.3	0.4	15.9	< 0.1	1.1	2.6	0.8
34	Cocklebur	2.2	0.2	11.0	< 0.1	1.4	4.4	0.7
35	Chickweed	1.7	0.3	17.9	< 0.1	1.8	5.2	0.7
36	Dock species	2.3	0.2	8.0	< 0.1	0.6	1.6	0.6
37	Prostrate knotweed	1.8	0.1	7.5	< 0.1	0.3	0.8	0.5
38	Black medick	1.4	0.2	13.0	< 0.1	1.2	1.6	0.5
39	Coriander	0.9	0.2	27.5	< 0.1	2.2	3.8	0.4
40	Alfalfa	1.3	0.1	10.0	< 0.1	0.9	2.2	0.4
41	Prostrate pigweed	1.3	0.1	10.1	< 0.1	0.7	1.0	0.4
42	Broad-leaved plantain	1.3	0.1	10.0	< 0.1	0.5	1.0	0.4
43	Water smartweed	1.3	0.1	5.0	< 0.1	1.1	2.0	0.3
44	Maple-leaved goosefoot	0.4	0.2	45.0	< 0.1	6.4	6.4	0.3
45	Tansy	0.9	0.2	17.7	< 0.1	1.3	2.2	0.3
46	Purslane	0.9	0.1	12.4	< 0.1	0.9	1.2	0.3
47	Corn	0.9	0.1	9.8	< 0.1	0.7	1.2	0.3
48	Sunflower species	0.9	0.1	7.4	< 0.1	0.7	1.0	0.3
49	American dragonhead	0.9	0.1	7.6	< 0.1	0.4	0.6	0.2
50	Pineappleweed	0.9	0.1	7.5	< 0.1	0.4	0.6	0.2
51	Absinth	0.9	< 0.1	5.0	< 0.1	0.3	0.4	0.2
52	Proso millet	0.5	0.1	15.0	< 0.1	2.6	2.6	0.2
53	Common groundsel	0.5	0.1	15.0	< 0.1	1.4	1.4	0.2
54	Prickly lettuce	0.4	0.1	20.0	< 0.1	0.8	0.8	0.1

(Table continued on next page)

**Field Survey Summary Tables – 2000s**

Table 13. 2000s Lake Manitoba Plain Ecoregion (222 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Bicknell's geranium	0.5	< 0.1	10.0	< 0.1	1.8	1.8	0.1
56	Scentless chamomile	0.4	< 0.1	10.0	< 0.1	1.2	1.2	0.1
57	Fababean	0.4	< 0.1	10.0	< 0.1	0.6	0.6	0.1
58	Silverberry	0.4	< 0.1	10.0	< 0.1	0.6	0.6	0.1
59	Vetch species	0.5	< 0.1	5.0	< 0.1	0.8	0.8	0.1
60	Russian thistle	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
61	Clover species	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
62	Yellow sweet-clover	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
63	Canary grass	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
64	Wormseed mustard	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Manitoba maple	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 14. 2000s Interlake Plain Ecoregion (62 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	50.7	16.8	33.2	13.4	26.5	449.8	55.6
2	Green foxtail	50.5	19.5	38.6	5.0	9.9	44.6	34.3
3	Wild buckwheat	60.0	16.9	28.2	1.6	2.7	21.6	24.9
4	Barnyard grass	47.3	11.6	24.5	3.0	6.4	38.0	23.3
5	Lamb's-quarters	38.9	11.9	30.5	2.1	5.4	59.6	19.7
6	Redroot pigweed	38.9	11.4	29.4	1.8	4.7	28.6	18.5
7	Pale smartweed	37.6	9.8	26.2	1.4	3.6	27.0	16.1
8	Canada thistle	34.5	5.3	15.4	0.5	1.6	10.2	10.4
9	Field horsetail	11.1	3.6	31.9	2.0	18.2	96.6	9.6
10	Dandelion	26.3	4.5	17.1	0.3	1.1	4.6	7.9
11	Night-flowering catchfly	17.6	4.9	27.8	0.6	3.6	11.0	7.7
12	Quack grass	18.3	3.9	21.1	0.6	3.5	13.2	7.2
13	Wild mustard	19.6	4.1	21.2	0.3	1.6	4.4	6.7
14	Cleavers	14.4	3.1	21.2	0.3	2.2	14.0	5.1
15	Yellow foxtail	7.1	1.5	21.7	0.6	7.9	28.6	3.7
16	Wheat	11.2	2.0	17.7	0.1	1.3	5.6	3.5
17	Chickweed	3.0	1.7	56.4	0.7	22.9	44.0	3.5
18	Canola/rapeseed	11.0	2.0	17.9	0.1	0.9	1.2	3.3
19	Perennial sow-thistle	12.8	1.3	10.1	0.1	0.8	1.8	3.1
20	Alfalfa	10.8	1.6	15.2	0.1	1.1	4.6	3.1
21	Broad-leaved plantain	7.0	1.3	18.0	0.3	3.9	11.4	2.7
22	Spiny annual sow-thistle	8.4	1.4	17.1	0.1	1.2	4.6	2.5
23	Round-leaved mallow	7.1	1.7	23.5	0.1	1.7	3.4	2.5
24	Hemp-nettle	10.3	0.7	6.6	< 0.1	0.3	0.4	2.2
25	Flax	1.6	1.4	85.0	0.3	20.8	20.8	2.1
26	Yellow sweet-clover	3.6	1.3	35.0	0.1	3.5	5.8	1.7
27	Stinkweed	8.0	0.5	6.0	< 0.1	0.3	0.4	1.6
28	Thyme-leaved spurge	3.3	1.0	30.0	0.1	4.1	4.8	1.5
29	Barley	4.9	0.8	16.5	< 0.1	1.0	2.0	1.4
30	Water smartweed	4.9	0.8	17.1	< 0.1	0.7	1.0	1.4
31	White cockle	3.1	0.7	23.9	0.1	4.4	4.8	1.3
32	Shepherd's-purse	4.3	0.6	14.9	0.1	1.5	3.4	1.3
33	Flixweed	4.6	0.5	9.7	0.1	1.5	2.4	1.2
34	Dock species	5.1	0.3	6.6	< 0.1	0.4	0.4	1.1
35	American dragonhead	4.7	0.4	8.1	< 0.1	0.5	1.0	1.1
36	Stork's-bill	4.8	0.3	6.7	< 0.1	0.3	0.4	1.0
37	Showy milkweed	3.6	0.4	10.0	< 0.1	1.0	1.8	0.9
38	Kochia	1.8	0.5	30.0	< 0.1	1.6	1.6	0.7
39	Prostrate knotweed	1.6	0.3	20.0	< 0.1	1.4	1.4	0.5
40	Timothy	1.5	0.2	15.0	< 0.1	1.8	1.8	0.4
41	Milk-vetch species	1.6	0.2	15.0	< 0.1	0.6	0.6	0.4
42	Absinth	1.8	0.2	10.0	< 0.1	0.6	0.6	0.4
43	Bladder campion	1.8	0.2	10.0	< 0.1	0.6	0.6	0.4
44	Clover species	1.8	0.2	10.0	< 0.1	0.4	0.4	0.4
45	Perennial rye grass	1.5	0.2	15.0	< 0.1	0.6	0.6	0.4
46	Narrow-leaved hawk's-beard	1.7	0.2	10.0	< 0.1	0.4	0.4	0.4
47	Bicknell's geranium	1.6	0.2	10.0	< 0.1	0.4	0.4	0.4
48	Witch grass	1.8	0.1	5.0	< 0.1	0.4	0.4	0.4
49	Blue grass species	1.6	0.1	5.0	< 0.1	0.2	0.2	0.3

**Field Survey Summary Tables – 2000s Spring Wheat**

Table 15. 2000s Spring wheat (1593 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	38.0	16.0	42.3	9.2	24.2	568.4	61.0
2	Wild oats	50.4	16.3	32.3	4.1	8.1	449.8	44.3
3	Wild buckwheat	47.7	14.3	29.9	1.8	3.8	94.4	32.9
4	Canada thistle	34.1	6.7	19.5	0.7	2.1	41.6	17.8
5	Stinkweed	16.4	3.2	19.8	0.7	4.5	198.0	10.1
6	Kochia	15.2	3.0	19.9	0.8	5.1	197.0	9.7
7	Redroot pigweed	15.6	3.1	19.9	0.6	3.7	128.0	9.1
8	Lamb's-quarters	14.8	2.8	19.0	0.5	3.2	113.2	8.2
9	Chickweed	5.6	2.5	43.9	1.1	19.6	238.6	8.1
10	Cleavers	10.0	2.9	29.0	0.5	5.4	180.8	7.4
11	Canola/rapeseed	10.9	2.4	21.5	0.4	3.9	143.2	6.7
12	Russian thistle	9.1	2.3	24.8	0.5	5.6	120.4	6.5
13	Dandelion	13.3	2.3	17.5	0.2	1.7	43.8	6.4
14	Field horsetail	7.6	1.9	24.8	0.5	6.5	96.6	5.7
15	Barnyard grass	7.9	1.5	19.2	0.4	5.1	129.2	5.0
16	Pale smartweed	8.7	1.7	19.3	0.3	3.1	98.4	4.8
17	Perennial sow-thistle	9.7	1.6	16.4	0.2	2.0	64.8	4.7
18	Hemp-nettle	6.7	1.7	25.1	0.3	4.7	90.8	4.5
19	Spiny annual sow-thistle	5.8	1.1	19.5	0.2	4.1	159.8	3.5
20	Shepherd's-purse	6.2	1.2	19.0	0.2	2.5	31.2	3.3
21	Quack grass	6.0	0.9	15.3	0.2	2.7	45.2	3.0
22	Narrow-leaved hawk's-beard	5.8	0.9	16.2	0.1	2.1	78.8	2.8
23	Wild mustard	5.5	0.9	15.4	0.1	2.2	37.4	2.7
24	Flax	2.8	0.9	33.8	0.2	7.1	49.6	2.4
25	Barley	4.0	0.7	18.3	0.1	2.3	28.6	2.0
26	Foxtail barley	5.0	0.5	10.1	< 0.1	0.9	14.4	1.9
27	Round-leaved mallow	3.4	0.6	18.8	0.1	2.3	28.4	1.8
28	Flixweed	3.4	0.4	13.1	0.1	3.4	141.0	1.7
29	Cow cockle	2.6	0.7	27.2	0.1	3.6	30.4	1.7
30	Bluebur	2.2	0.5	20.2	0.1	6.4	112.0	1.6
31	Common groundsel	2.2	0.5	22.1	0.1	3.9	37.6	1.3
32	Night-flowering catchfly	2.4	0.4	17.2	< 0.1	1.8	12.0	1.2
33	Persian darnel	1.4	0.4	29.5	0.1	7.2	39.8	1.1
34	Pineappleweed	1.8	0.4	20.6	0.1	3.7	51.4	1.0
35	Thyme-leaved spurge	2.0	0.4	19.6	< 0.1	2.3	31.8	1.0
36	Stork's-bill	1.0	0.4	40.2	0.1	8.9	52.2	0.9
37	Prostrate knotweed	1.4	0.3	18.0	< 0.1	1.5	12.0	0.7
38	Corn spurry	0.6	0.2	25.1	0.1	11.6	118.2	0.6
39	Wheat	0.9	0.2	17.7	< 0.1	1.7	10.8	0.5
40	Alfalfa	0.8	0.1	15.0	< 0.1	4.6	44.2	0.4
41	Oats	0.4	0.1	34.3	0.1	13.4	42.8	0.4
42	Clover species	1.0	0.1	14.6	< 0.1	1.1	4.6	0.4
43	Tartary buckwheat	0.2	0.1	36.1	0.1	23.6	96.6	0.4
44	American dragonhead	0.9	0.1	14.4	< 0.1	1.3	7.2	0.4
45	Black medick	0.7	0.1	21.7	< 0.1	2.3	7.8	0.4
46	Rose species	1.0	0.1	7.7	< 0.1	0.6	2.8	0.4
47	Yellow sweet-clover	0.6	0.1	20.3	< 0.1	1.9	8.4	0.3
48	Common pepper-grass	0.7	0.1	15.7	< 0.1	2.2	19.8	0.3
49	White mustard	0.2	0.1	60.0	< 0.1	18.7	45.4	0.3
50	Prostrate pigweed	0.5	0.1	28.5	< 0.1	2.0	4.8	0.3
51	Wild tomato	0.6	0.1	13.4	< 0.1	2.9	8.8	0.3
52	Broad-leaved plantain	0.6	0.1	14.4	< 0.1	1.2	5.2	0.3
53	White cockle	0.6	0.1	12.0	< 0.1	1.0	4.8	0.2
54	Chickpea	0.2	< 0.1	31.8	< 0.1	24.1	39.2	0.2

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Table 15. 2000s Spring wheat (1593 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Yellow foxtail	0.2	0.1	26.6	< 0.1	10.8	25.6	0.2
56	Field bindweed	0.4	0.1	20.2	< 0.1	4.9	20.8	0.2
57	Yellow toadflax	0.5	0.1	17.2	< 0.1	2.1	4.6	0.2
58	Lentils	0.4	0.1	29.2	< 0.1	1.9	5.0	0.2
59	Prickly lettuce	0.7	< 0.1	7.3	< 0.1	0.4	1.0	0.2
60	Ball mustard	0.4	0.1	19.4	< 0.1	2.3	12.4	0.2
61	Biennial wormwood	0.4	0.1	12.0	< 0.1	1.5	5.6	0.2
62	Scouring-rush	0.3	0.1	22.5	< 0.1	2.1	4.8	0.2
63	Skeletonweed	0.1	< 0.1	24.7	< 0.1	20.1	39.2	0.2
64	Downy brome	0.4	< 0.1	11.9	< 0.1	1.6	4.8	0.2
65	Common ragweed	0.3	0.1	18.5	< 0.1	1.9	6.0	0.2
66	Field bean	0.2	0.1	29.9	< 0.1	2.0	3.2	0.1
67	Dock species	0.4	< 0.1	11.8	< 0.1	1.0	2.2	0.1
68	Fescue species	0.1	0.1	100.0	< 0.1	32.4	32.4	0.1
69	Field peas	0.3	< 0.1	14.1	< 0.1	1.1	4.6	0.1
70	Canary grass	0.2	< 0.1	25.4	< 0.1	4.3	11.0	0.1
71	Vetch species	0.4	< 0.1	5.0	< 0.1	0.3	0.6	0.1
72	Tumble pigweed	0.4	< 0.1	6.7	< 0.1	0.4	0.8	0.1
73	Low cudweed	0.2	< 0.1	18.2	< 0.1	4.7	8.2	0.1
74	Cocklebur	0.3	< 0.1	10.0	< 0.1	1.2	4.4	0.1
75	Rough cinquefoil	0.3	< 0.1	13.9	< 0.1	1.7	6.0	0.1
76	Bicknell's geranium	0.2	< 0.1	17.0	< 0.1	0.9	1.8	0.1
77	Scentless chamomile	0.2	< 0.1	16.9	< 0.1	2.6	6.2	0.1
78	Showy milkweed	0.2	< 0.1	15.0	< 0.1	1.3	2.6	0.1
79	Canada fleabane	0.2	< 0.1	11.6	< 0.1	0.8	1.4	0.1
80	Wood-sorrel species	0.1	< 0.1	15.0	< 0.1	19.4	19.4	0.1
81	Sunflower species	0.2	< 0.1	8.0	< 0.1	0.5	1.0	0.1
82	Goat's-beard	0.2	< 0.1	7.0	< 0.1	0.3	0.4	0.1
83	Water smartweed	0.2	< 0.1	10.0	< 0.1	1.1	2.0	0.1
84	Absinth	0.2	< 0.1	8.3	< 0.1	0.4	0.6	0.1
85	Milk-vetch species	0.2	< 0.1	6.5	< 0.1	0.6	1.0	0.1
86	Mouse-eared chickweed	0.2	< 0.1	6.7	< 0.1	1.2	1.6	0.1
87	Purslane speedwell	0.2	< 0.1	5.0	< 0.1	0.3	0.6	0.1
88	Vetchling species	0.2	< 0.1	5.0	< 0.1	0.3	0.6	0.1
89	Borage	0.1	< 0.1	45.0	< 0.1	5.0	5.0	0.1
90	Tumble mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
91	Redtop	0.1	< 0.1	7.8	< 0.1	2.4	4.2	0.1
92	Blue lettuce	0.1	< 0.1	30.0	< 0.1	5.4	5.4	< 0.1
93	Poplar species	0.1	< 0.1	7.4	< 0.1	0.3	0.4	< 0.1
94	Leafy spurge	0.1	< 0.1	7.7	< 0.1	1.2	2.0	< 0.1
95	Pygmyflower	0.1	< 0.1	25.0	< 0.1	3.0	3.0	< 0.1
96	Toad rush	0.1	< 0.1	10.0	< 0.1	6.0	6.0	< 0.1
97	Blue grass species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
98	Knawel	0.1	< 0.1	20.0	< 0.1	3.4	3.4	< 0.1
99	Wild chamomile	0.1	< 0.1	20.0	< 0.1	0.8	0.8	< 0.1
100	Common yarrow	0.1	< 0.1	10.0	< 0.1	1.2	1.2	< 0.1
101	Timothy	0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
102	Purslane	0.1	< 0.1	15.0	< 0.1	0.6	0.6	< 0.1
103	Witch grass	0.1	< 0.1	10.0	< 0.1	1.4	1.4	< 0.1
104	Perennial rye grass	0.1	< 0.1	15.0	< 0.1	0.6	0.6	< 0.1
105	Fababean	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
106	Wood whitlow-grass	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
107	Tansy	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
108	Pasture sage	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

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**Field Survey Summary Tables – 2000s Spring Wheat**

Table 15. 2000s Spring wheat (1593 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
109	Tall hedge mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
110	Wormseed mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
111	Prairie coneflower	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
112	Spear-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
113	Giant ragweed	0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
114	Field violet	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
115	Wild licorice	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
116	Russian pigweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
117	Gray tansy mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
118	Green tansy mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
119	Oak-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
120	Manitoba maple	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
121	Maple-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
122	Henbit	< 0.1	< 0.1	5.0	< 0.1	1.8	1.8	< 0.1



Table 16. 2000s Spring wheat in the Peace Lowland Ecoregion (70 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	65.5	28.8	44.1	5.4	8.3	59.2	34.5
2	Field horsetail	59.6	18.7	31.4	5.3	8.9	76.8	28.4
3	Stinkweed	44.6	16.6	37.1	5.0	11.1	104.2	24.5
4	Cleavers	43.3	17.6	40.7	4.7	11.0	180.8	24.3
5	Hemp-nettle	40.5	15.1	37.4	4.8	11.9	90.8	22.8
6	Chickweed	18.8	7.6	40.5	7.2	38.4	238.6	20.5
7	Wild oats	31.7	12.1	38.1	2.2	6.9	46.8	15.0
8	Canada thistle	37.8	10.6	28.2	1.8	4.7	41.6	14.3
9	Dandelion	44.2	11.2	25.3	1.0	2.3	14.8	14.1
10	Narrow-leaved hawk's-beard	32.9	6.0	18.2	1.5	4.6	78.8	10.8
11	Perennial sow-thistle	23.3	6.8	29.2	1.5	6.6	64.8	9.8
12	Canola/rapeseed	31.2	6.9	22.0	0.7	2.4	11.4	9.5
13	Bluebur	16.0	4.5	27.9	2.5	15.4	112.0	9.3
14	Common groundsel	18.0	5.9	32.8	1.5	8.1	37.6	8.4
15	Pineappleweed	16.4	4.8	29.1	1.2	7.3	51.4	7.1
16	Lamb's-quarters	17.3	5.1	29.5	0.8	4.4	25.2	6.6
17	Pale smartweed	22.0	4.4	20.1	0.5	2.2	10.4	6.4
18	Corn spurry	5.1	1.6	32.5	1.3	26.2	118.2	4.1
19	Clover species	10.8	1.9	17.4	0.2	1.4	4.6	2.9
20	Broad-leaved plantain	8.9	1.8	20.4	0.2	1.8	5.2	2.5
21	Stork's-bill	1.5	1.5	100.0	0.8	52.2	52.2	2.5
22	Prostrate pigweed	4.4	2.3	51.8	0.2	3.4	4.8	2.1
23	Shepherd's-purse	7.1	1.1	15.7	0.1	1.6	5.2	1.8
24	Quack grass	8.8	0.6	6.7	0.1	1.2	3.4	1.8
25	Fescue species	1.3	1.3	100.0	0.4	32.4	32.4	1.7
26	Low cudweed	4.5	0.8	18.2	0.2	4.7	8.2	1.5
27	Yellow sweet-clover	4.7	1.1	22.6	0.1	1.8	3.4	1.4
28	Bicknell's geranium	3.8	0.8	21.3	< 0.1	1.1	1.8	1.0
29	Yellow toadflax	3.0	0.7	25.1	0.1	2.8	4.4	1.0
30	Prostrate knotweed	2.9	0.6	22.3	0.1	3.4	6.4	0.9
31	American dragonhead	2.8	0.6	22.9	< 0.1	1.6	3.0	0.8
32	Field bindweed	1.4	0.9	60.0	0.1	6.2	6.2	0.8
33	Redtop	3.1	0.2	7.8	0.1	2.4	4.2	0.7
34	Ball mustard	2.9	0.3	9.7	< 0.1	0.4	0.6	0.6
35	Rough cinquefoil	3.1	0.2	5.0	< 0.1	0.2	0.2	0.5
36	Rose species	2.6	0.1	5.0	< 0.1	0.4	0.4	0.5
37	Redroot pigweed	1.3	0.3	25.0	< 0.1	2.8	2.8	0.4
38	Cow cockle	1.4	0.3	20.0	< 0.1	1.4	1.4	0.4
39	Common yarrow	1.7	0.2	10.0	< 0.1	1.2	1.2	0.4
40	Timothy	1.7	0.2	10.0	< 0.1	0.8	0.8	0.4
41	Spiny annual sow-thistle	1.7	0.2	10.0	< 0.1	0.4	0.4	0.4
42	Biennial wormwood	1.7	0.1	5.0	< 0.1	0.4	0.4	0.3
43	Alfalfa	1.6	0.1	5.0	< 0.1	0.4	0.4	0.3
44	Milk-vetch species	1.5	0.1	5.0	< 0.1	0.2	0.2	0.3
45	Vetchling species	1.5	0.1	5.0	< 0.1	0.2	0.2	0.3
46	Barley	1.3	0.1	10.0	< 0.1	0.4	0.4	0.3
47	Mouse-eared chickweed	1.3	0.1	5.0	< 0.1	1.6	1.6	0.3
48	Round-leaved mallow	1.4	0.1	5.0	< 0.1	0.2	0.2	0.2
49	Common pepper-grass	1.3	0.1	5.0	< 0.1	0.4	0.4	0.2
50	Wheat	1.3	0.1	5.0	< 0.1	0.4	0.4	0.2

**Field Survey Summary Tables – 2000s Spring Wheat**

Table 17. 2000s Spring wheat in the Boreal Transition Ecoregion (144 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	62.0	20.4	32.8	4.2	6.8	73.8	45.0
2	Wild buckwheat	66.5	21.3	32.0	3.6	5.3	94.4	43.4
3	Canada thistle	58.7	13.7	23.3	1.7	2.8	32.6	27.7
4	Chickweed	20.7	7.7	37.1	2.0	9.8	96.2	18.6
5	Green foxtail	26.9	7.4	27.5	1.5	5.7	40.4	17.1
6	Cleavers	30.0	7.5	25.1	1.1	3.6	50.2	15.5
7	Field horsetail	30.1	6.4	21.2	1.1	3.5	26.0	14.7
8	Dandelion	27.4	5.2	18.8	0.6	2.3	43.8	11.3
9	Lamb's-quarters	27.2	4.9	17.9	0.4	1.6	7.2	10.1
10	Hemp-nettle	25.6	4.2	16.5	0.3	1.3	6.4	9.0
11	Canola/rapeseed	25.1	3.9	15.4	0.4	1.4	9.4	8.7
12	Stinkweed	20.2	4.3	21.4	0.4	2.2	26.2	8.6
13	Quack grass	14.5	3.2	21.8	0.8	5.2	45.2	8.3
14	Pale smartweed	20.5	3.5	17.1	0.4	1.8	21.2	7.7
15	Narrow-leaved hawk's-beard	17.7	3.6	20.3	0.3	1.7	9.2	7.0
16	Perennial sow-thistle	17.9	2.4	13.3	0.3	1.6	26.8	6.1
17	Redroot pigweed	5.2	1.3	24.8	0.8	14.8	111.6	5.4
18	Shepherd's-purse	12.9	2.6	19.8	0.3	2.2	11.8	5.3
19	Barley	13.8	2.4	17.7	0.2	1.5	10.0	5.1
20	Wild mustard	8.8	1.2	13.2	0.1	1.1	10.2	2.8
21	Spiny annual sow-thistle	8.2	1.0	11.9	0.1	1.1	5.2	2.5
22	Wild tomato	3.1	0.6	20.6	0.2	5.5	8.8	1.8
23	Night-flowering catchfly	5.2	0.7	13.9	0.1	1.2	3.8	1.7
24	Corn spurry	2.5	0.7	26.8	0.1	5.3	22.2	1.5
25	American dragonhead	3.9	0.7	16.8	< 0.1	0.7	1.4	1.3
26	Bluebur	3.6	0.4	10.7	< 0.1	0.6	2.0	1.0
27	Stork's-bill	1.5	0.6	38.8	0.1	3.4	5.4	0.9
28	Flax	1.4	0.5	37.6	0.1	4.5	7.6	0.9
29	Alfalfa	3.3	0.4	11.6	< 0.1	0.5	1.6	0.9
30	Clover species	2.5	0.4	17.8	< 0.1	1.2	3.0	0.9
31	White mustard	0.7	0.6	80.0	0.1	10.8	10.8	0.9
32	Pineappleweed	3.4	0.3	9.2	< 0.1	0.5	1.2	0.9
33	Barnyard grass	2.2	0.3	14.5	< 0.1	2.1	2.4	0.8
34	Black medick	1.1	0.4	35.0	< 0.1	2.3	3.0	0.6
35	Common groundsel	2.2	0.2	6.8	< 0.1	0.4	0.8	0.5
36	Kochia	1.4	0.2	16.4	< 0.1	1.7	2.8	0.5
37	Prostrate knotweed	2.0	0.2	8.2	< 0.1	0.3	0.4	0.5
38	Tartary buckwheat	1.4	0.2	15.4	< 0.1	1.1	1.4	0.5
39	Yellow sweet-clover	1.3	0.2	17.7	< 0.1	0.7	1.2	0.4
40	Round-leaved mallow	1.3	0.1	7.5	< 0.1	0.3	0.4	0.3
41	Ball mustard	1.2	0.1	7.4	< 0.1	0.3	0.4	0.3
42	Vetchling species	1.3	0.1	5.0	< 0.1	0.4	0.6	0.3
43	Russian thistle	0.6	0.1	20.0	< 0.1	2.0	2.0	0.2
44	Milk-vetch species	0.8	< 0.1	5.0	< 0.1	1.0	1.0	0.2
45	Purslane	0.6	0.1	15.0	< 0.1	0.6	0.6	0.2
46	White cockle	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
47	Poplar species	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
48	Prickly lettuce	0.6	0.1	10.0	< 0.1	0.4	0.4	0.2
49	Canada fleabane	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
50	Vetch species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
51	Henbit	0.5	< 0.1	5.0	< 0.1	1.8	1.8	0.1
52	Field violet	0.6	< 0.1	5.0	< 0.1	0.4	0.4	0.1
53	Russian pigweed	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
54	Foxtail barley	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1

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Table 17. 2000s Spring wheat in the Boreal Transition Ecoregion (144 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Broad-leaved plantain	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
56	Blue grass species	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
57	Biennial wormwood	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
58	Field peas	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
59	Thyme-leaved spurge	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
60	Maple-leaved goosefoot	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
61	Rough cinquefoil	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 18. 2000s Spring wheat in the Aspen Parkland Ecoregion (471 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	47.8	20.8	43.5	11.0	23.1	483.6	63.9
2	Wild oats	56.5	19.5	34.4	4.8	8.5	170.8	43.4
3	Wild buckwheat	56.5	20.0	35.5	2.7	4.7	77.4	36.7
4	Canada thistle	50.0	10.2	20.5	1.0	2.0	21.4	21.9
5	Chickweed	9.4	4.7	50.0	2.0	21.3	124.8	12.4
6	Cleavers	15.6	4.3	27.4	0.6	3.9	40.6	8.7
7	Canola/rapeseed	14.4	3.5	24.6	0.8	5.8	143.2	8.6
8	Lamb's-quarters	18.7	3.0	16.0	0.4	1.9	20.6	7.5
9	Redroot pigweed	13.7	3.0	21.6	0.6	4.3	48.2	7.2
10	Perennial sow-thistle	18.0	2.9	16.3	0.3	1.7	24.4	7.1
11	Pale smartweed	11.9	2.7	22.6	0.6	5.1	98.4	6.7
12	Dandelion	16.4	2.4	14.5	0.2	1.5	26.8	6.1
13	Shepherd's-purse	12.5	2.3	18.2	0.3	2.5	31.2	5.5
14	Spiny annual sow-thistle	11.0	2.4	22.0	0.3	2.8	33.8	5.2
15	Kochia	7.1	1.4	19.7	0.6	8.1	197.0	4.5
16	Quack grass	11.3	1.6	13.9	0.2	1.8	13.0	4.3
17	Stinkweed	13.5	1.3	9.8	0.1	0.8	6.4	4.2
18	Hemp-nettle	7.9	1.9	24.3	0.2	2.8	23.2	3.9
19	Field horsetail	5.9	1.1	19.1	0.3	5.7	93.0	3.3
20	Wild mustard	8.0	1.2	15.1	0.2	2.1	24.6	3.2
21	Barnyard grass	7.4	1.1	14.9	0.2	2.5	26.4	3.0
22	Flax	4.3	1.4	33.2	0.2	5.6	25.8	2.9
23	Narrow-leaved hawk's-beard	6.8	1.0	14.6	0.1	1.4	8.6	2.5
24	Barley	5.6	1.0	17.0	0.1	1.9	15.0	2.3
25	Night-flowering catchfly	5.4	1.0	18.4	0.1	1.9	12.0	2.3
26	Russian thistle	4.5	0.8	18.6	0.2	3.4	26.0	2.1
27	Round-leaved mallow	5.2	0.8	15.7	0.1	1.4	8.6	2.0
28	Flixweed	2.6	0.3	13.4	0.3	12.5	141.0	1.9
29	Stork's-bill	2.4	0.9	37.5	0.2	6.7	40.0	1.7
30	Bluebur	2.6	0.6	22.3	0.1	4.2	20.6	1.4
31	Common groundsel	3.4	0.6	16.8	0.1	1.7	14.2	1.3
32	Foxtail barley	3.6	0.3	8.2	< 0.1	0.7	4.6	1.1
33	Wheat	1.8	0.4	23.3	< 0.1	2.4	10.8	0.9
34	Tartary buckwheat	0.2	0.2	100.0	0.2	96.6	96.6	0.8
35	Pineappleweed	2.1	0.3	15.4	< 0.1	1.0	4.6	0.8
36	Prostrate knotweed	2.2	0.3	14.8	< 0.1	0.9	4.4	0.8
37	Alfalfa	0.6	0.1	16.5	0.1	17.3	44.2	0.6

(Table continued on next page)

**Field Survey Summary Tables – 2000s Spring Wheat**

Table 18. 2000s Spring wheat in the Aspen Parkland Ecoregion (471 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
38	Black medick	1.1	0.3	23.8	< 0.1	3.2	7.8	0.5
39	White cockle	1.6	0.1	9.3	< 0.1	0.6	1.6	0.5
40	Yellow toadflax	1.1	0.2	14.0	< 0.1	1.8	4.6	0.4
41	Thyme-leaved spurge	1.0	0.2	15.5	< 0.1	1.3	5.6	0.4
42	Cow cockle	0.6	0.2	36.3	< 0.1	2.8	5.4	0.4
43	Oats	0.7	0.1	20.9	< 0.1	4.5	12.6	0.4
44	Rose species	1.2	0.1	7.5	< 0.1	0.5	1.2	0.3
45	Ball mustard	0.4	0.2	40.2	< 0.1	6.1	12.4	0.3
46	American dragonhead	0.8	0.1	10.0	< 0.1	2.4	7.2	0.3
47	Canary grass	0.4	0.1	32.5	< 0.1	5.8	11.0	0.3
48	Scentless chamomile	0.6	0.1	16.9	< 0.1	2.6	6.2	0.3
49	Corn spurry	0.6	0.1	13.9	< 0.1	2.3	4.8	0.3
50	Clover species	0.7	0.1	10.2	< 0.1	0.5	0.8	0.2
51	Downy brome	0.4	0.1	12.9	< 0.1	3.4	4.8	0.2
52	Biennial wormwood	0.4	0.1	17.6	< 0.1	1.9	2.2	0.2
53	Vetch species	0.7	< 0.1	5.0	< 0.1	0.3	0.4	0.2
54	Rough cinquefoil	0.2	0.1	40.0	< 0.1	6.0	6.0	0.2
55	Borage	0.2	0.1	45.0	< 0.1	5.0	5.0	0.2
56	Leafy spurge	0.4	< 0.1	7.7	< 0.1	1.2	2.0	0.1
57	Mouse-eared chickweed	0.4	< 0.1	7.5	< 0.1	1.0	1.4	0.1
58	Absinth	0.4	< 0.1	7.5	< 0.1	0.3	0.4	0.1
59	Purslane speedwell	0.4	< 0.1	5.0	< 0.1	0.4	0.6	0.1
60	Wild tomato	0.4	< 0.1	7.5	< 0.1	0.4	0.6	0.1
61	Knawel	0.2	< 0.1	20.0	< 0.1	3.4	3.4	0.1
62	Wild chamomile	0.2	< 0.1	20.0	< 0.1	0.8	0.8	0.1
63	White mustard	0.2	< 0.1	15.0	< 0.1	0.6	0.6	0.1
64	Witch grass	0.2	< 0.1	10.0	< 0.1	1.4	1.4	0.1
65	Poplar species	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
66	Common pepper-grass	0.2	< 0.1	10.0	< 0.1	0.8	0.8	0.1
67	Showy milkweed	0.2	< 0.1	10.0	< 0.1	0.6	0.6	0.1
68	Scouring-rush	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Wood whitlow-grass	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
70	Field bindweed	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
71	Goat's-beard	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
72	Tall hedge mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
73	Wormseed mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
74	Tumble pigweed	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
75	Giant ragweed	0.2	< 0.1	5.0	< 0.1	0.6	0.6	0.1
76	Spear-leaved goosefoot	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
77	Field peas	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
78	Cocklebur	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
79	Wild licorice	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Oak-leaved goosefoot	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
81	Broad-leaved plantain	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
82	Bicknell's geranium	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
83	Persian darnel	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 19. 2000s Spring wheat in the Fescue Grassland Ecoregion (32 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	43.7	16.4	37.5	3.5	8.0	50.8	46.3
2	Spiny annual sow-thistle	15.6	6.2	40.0	5.5	35.5	159.8	37.4
3	Wild buckwheat	46.9	13.0	27.7	1.0	2.1	5.2	31.6
4	Canada thistle	50.0	6.1	12.2	0.5	1.1	5.6	22.9
5	Cleavers	12.5	5.8	46.3	2.7	21.6	78.6	22.5
6	Green foxtail	6.2	3.4	55.0	3.1	50.4	100.4	20.4
7	Shepherd's-purse	15.6	7.2	46.0	1.0	6.6	11.4	17.0
8	Stinkweed	28.1	5.5	19.4	0.5	1.8	6.0	16.1
9	Barley	12.5	5.3	42.5	0.9	7.6	18.6	13.7
10	Dandelion	21.9	4.8	22.1	0.3	1.3	3.4	12.6
11	Canola/rapeseed	12.5	3.3	26.3	0.3	2.1	4.2	8.2
12	Lamb's-quarters	15.6	1.9	12.0	0.1	0.7	1.6	6.9
13	Prostrate knotweed	9.4	2.3	25.0	0.1	1.3	1.6	5.7
14	Pineappleweed	6.2	1.7	27.5	0.3	4.7	8.8	5.0
15	Foxtail barley	6.2	2.0	32.5	0.2	2.7	5.0	4.7
16	Common groundsel	6.2	1.6	25.0	0.1	2.4	4.2	4.1
17	Perennial sow-thistle	6.2	1.4	22.5	0.2	2.6	4.6	4.0
18	Round-leaved mallow	3.1	1.4	45.0	0.2	5.2	5.2	3.2
19	Quack grass	6.2	0.9	15.0	< 0.1	0.7	1.0	2.9
20	Narrow-leaved hawk's-beard	6.2	0.3	5.0	< 0.1	0.2	0.2	2.1
21	Toad rush	3.1	0.3	10.0	0.2	6.0	6.0	2.1
22	Flixweed	3.1	0.5	15.0	< 0.1	0.8	0.8	1.5
23	Pale smartweed	3.1	0.2	5.0	0.1	2.4	2.4	1.4
24	Bluebur	3.1	0.3	10.0	< 0.1	0.6	0.6	1.3
25	Yellow sweet-clover	3.1	0.2	5.0	< 0.1	0.4	0.4	1.1
26	Hemp-nettle	3.1	0.2	5.0	< 0.1	0.2	0.2	1.1
27	Kochia	3.1	0.2	5.0	< 0.1	0.2	0.2	1.1
28	Redroot pigweed	3.1	0.2	5.0	< 0.1	0.2	0.2	1.1
29	Rose species	3.1	0.2	5.0	< 0.1	0.2	0.2	1.1
30	Pasture sage	3.1	0.2	5.0	< 0.1	0.2	0.2	1.1

**Field Survey Summary Tables – 2000s Spring Wheat**

Table 20. 2000s Spring wheat in the Moist Mixed Grassland Ecoregion (381 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	37.4	16.6	44.3	11.8	31.6	568.4	89.1
2	Wild oats	43.6	14.7	33.6	2.7	6.3	112.2	46.3
3	Wild buckwheat	35.7	8.6	24.0	0.7	2.0	14.2	26.3
4	Canada thistle	30.4	5.5	18.0	0.6	1.9	16.6	19.8
5	Kochia	22.0	4.5	20.2	1.4	6.2	181.4	19.5
6	Russian thistle	13.3	3.9	28.5	0.8	5.9	58.8	13.1
7	Stinkweed	14.2	3.0	21.2	0.4	3.0	31.0	10.6
8	Lamb's-quarters	9.3	2.7	28.0	0.8	8.4	113.2	10.3
9	Redroot pigweed	16.2	2.8	17.1	0.3	1.6	15.8	10.2
10	Flax	3.7	1.7	44.0	0.5	12.6	49.6	5.6
11	Barnyard grass	7.8	1.2	15.8	0.2	2.1	30.2	5.0
12	Dandelion	8.3	1.1	13.7	0.1	0.9	5.0	4.5
13	Foxtail barley	8.6	0.9	10.4	0.1	0.8	5.6	4.3
14	Flixweed	5.9	1.0	17.1	0.1	1.2	3.8	3.6
15	Canola/rapeseed	5.2	1.0	18.3	0.1	2.4	24.6	3.5
16	Thyme-leaved spurge	2.8	0.6	21.7	0.1	3.5	31.8	2.2
17	Perennial sow-thistle	3.8	0.5	11.8	< 0.1	0.8	2.2	2.0
18	Round-leaved mallow	2.9	0.5	17.3	< 0.1	1.3	4.4	1.8
19	Wild mustard	2.9	0.4	15.3	< 0.1	0.8	2.2	1.6
20	Barley	2.2	0.4	18.2	0.1	3.8	28.6	1.6
21	Common pepper-grass	2.1	0.4	17.6	0.1	2.7	19.8	1.5
22	Narrow-leaved hawk's-beard	2.5	0.2	8.8	< 0.1	0.5	1.4	1.2
23	Cow cockle	1.4	0.4	25.9	< 0.1	3.1	8.2	1.1
24	Pale smartweed	1.7	0.3	14.9	< 0.1	1.4	3.2	1.0
25	Quack grass	1.0	0.2	23.6	0.1	6.6	20.0	1.0
26	Oats	0.3	0.2	70.0	0.1	42.8	42.8	1.0
27	Rose species	1.8	0.2	9.1	< 0.1	0.9	2.8	0.9
28	Spiny annual sow-thistle	0.8	0.3	37.4	0.1	8.0	24.0	0.9
29	Shepherd's-purse	1.9	0.2	8.8	< 0.1	0.5	2.2	0.9
30	Scouring-rush	1.1	0.3	27.2	< 0.1	2.6	4.8	0.9
31	Persian darnel	1.0	0.3	26.3	< 0.1	3.1	6.6	0.8
32	Bluebur	1.4	0.2	13.7	< 0.1	1.0	3.4	0.7
33	Prostrate knotweed	0.6	0.3	33.8	< 0.1	4.4	12.0	0.7
34	Field horsetail	0.8	0.2	28.0	< 0.1	4.1	10.4	0.7
35	Yellow sweet-clover	0.6	0.2	39.0	< 0.1	5.0	8.4	0.6
36	Lentils	0.8	0.1	19.8	< 0.1	1.1	1.8	0.5
37	Dock species	0.8	0.1	15.0	< 0.1	1.2	2.2	0.4
38	Prostrate pigweed	0.5	0.1	25.3	< 0.1	1.8	3.0	0.4
39	Cleavers	0.6	0.1	19.5	< 0.1	1.5	2.4	0.4
40	Biennial wormwood	0.5	0.1	15.0	< 0.1	2.9	5.6	0.3
41	Field peas	0.3	0.1	50.0	< 0.1	4.6	4.6	0.3
42	Black medick	0.5	0.1	15.0	< 0.1	1.2	2.2	0.3
43	Sunflower species	0.6	< 0.1	7.2	< 0.1	0.3	0.4	0.3
44	Goat's-beard	0.6	< 0.1	7.9	< 0.1	0.3	0.4	0.3
45	Blue lettuce	0.3	0.1	30.0	< 0.1	5.4	5.4	0.3
46	Alfalfa	0.3	0.1	30.0	< 0.1	2.4	2.4	0.2
47	Pygmyflower	0.3	0.1	25.0	< 0.1	3.0	3.0	0.2
48	Tartary buckwheat	0.3	0.1	20.0	< 0.1	2.4	2.4	0.2
49	Canary grass	0.3	< 0.1	10.0	< 0.1	1.0	1.0	0.1
50	Chickweed	0.2	< 0.1	10.0	< 0.1	1.0	1.0	0.1
51	Prickly lettuce	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
52	Milk-vetch species	0.3	< 0.1	10.0	< 0.1	0.6	0.6	0.1
53	Wheat	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
54	Broad-leaved plantain	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1

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Table 20. 2000s Spring wheat in the Moist Mixed Grassland Ecoregion (381 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Clover species	0.3	< 0.1	5.0	< 0.1	0.6	0.6	0.1
56	Downy brome	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
57	Green tansy mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
58	Vetch species	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1

Table 21. 2000s Spring wheat in the Mixed Grassland Ecoregion (393 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	37.7	16.2	43.0	8.8	23.4	520.0	81.7
2	Wild oats	50.4	13.7	27.1	3.1	6.2	102.4	53.5
3	Wild buckwheat	35.9	7.6	21.3	0.8	2.3	50.0	28.1
4	Kochia	29.3	5.9	20.2	1.1	3.7	64.2	24.4
5	Russian thistle	17.9	4.3	24.2	1.1	6.1	120.4	18.2
6	Stinkweed	16.9	3.4	20.3	1.4	8.0	198.0	17.8
7	Redroot pigweed	21.3	3.9	18.3	0.7	3.5	128.0	17.0
8	Cow cockle	8.1	2.2	26.8	0.3	3.8	30.4	7.6
9	Barnyard grass	6.7	1.5	22.1	0.5	6.9	59.6	6.8
10	Lamb's-quarters	7.8	1.2	15.9	0.3	4.1	52.4	6.2
11	Persian darnel	4.3	1.3	31.4	0.4	8.5	39.8	5.3
12	Canada thistle	7.1	0.7	10.1	0.1	1.2	7.6	4.0
13	Foxtail barley	6.8	0.6	9.3	0.1	1.0	14.4	3.7
14	Wild mustard	3.6	0.7	19.9	0.2	4.3	37.4	3.1
15	Flixweed	4.8	0.4	8.0	< 0.1	0.4	2.2	2.3
16	Dandelion	2.4	0.6	22.8	0.1	2.8	19.0	2.0
17	Round-leaved mallow	1.6	0.5	31.4	0.1	9.1	28.4	2.0
18	Canola/rapeseed	1.5	0.5	35.4	0.1	4.4	9.0	1.7
19	Chickpea	0.6	0.2	31.8	0.1	24.1	39.2	1.2
20	Prickly lettuce	2.1	0.1	6.7	< 0.1	0.4	1.0	1.0
21	Pale smartweed	1.3	0.2	17.8	< 0.1	2.3	6.2	1.0
22	White mustard	0.2	0.2	85.0	0.1	45.4	45.4	1.0
23	Skeletonweed	0.5	0.1	24.7	0.1	20.1	39.2	0.8
24	Field bindweed	0.9	0.1	13.9	0.1	5.9	20.8	0.8
25	Lentils	0.7	0.3	38.3	< 0.1	2.7	5.0	0.8
26	Yellow foxtail	0.3	0.2	65.0	0.1	25.6	25.6	0.8
27	Tumble pigweed	1.2	0.1	7.0	< 0.1	0.4	0.8	0.6
28	Wheat	0.9	0.1	12.0	< 0.1	1.1	2.4	0.5
29	Thyme-leaved spurge	1.0	0.1	8.6	< 0.1	0.3	0.8	0.5
30	Flax	1.0	0.1	7.5	< 0.1	0.3	0.6	0.5
31	Quack grass	0.3	0.1	40.0	< 0.1	13.2	13.2	0.4
32	Downy brome	0.7	0.1	13.4	< 0.1	0.9	1.4	0.4
33	Perennial sow-thistle	0.6	0.1	16.9	< 0.1	0.7	1.0	0.4
34	Wood-sorrel species	0.2	< 0.1	15.0	< 0.1	19.4	19.4	0.4
35	Dock species	0.7	0.1	8.5	< 0.1	0.9	1.8	0.4
36	Tumble mustard	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.3
37	Canada fleabane	0.5	0.1	15.4	< 0.1	1.1	1.4	0.3
38	Wild tomato	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.3
39	Alfalfa	0.2	0.1	35.0	< 0.1	2.6	2.6	0.2
40	Spiny annual sow-thistle	0.5	< 0.1	5.0	< 0.1	0.5	0.6	0.2

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**Field Survey Summary Tables – 2000s Spring Wheat**

Table 21. 2000s Spring wheat in the Mixed Grassland Ecoregion (393 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
41	Field peas	0.5	< 0.1	5.0	< 0.1	0.3	0.4	0.2
42	Vetch species	0.3	< 0.1	5.0	< 0.1	0.6	0.6	0.1
43	Common pepper-grass	0.2	< 0.1	15.0	< 0.1	0.6	0.6	0.1
44	Shepherd's-purse	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
45	Biennial wormwood	0.2	< 0.1	10.0	< 0.1	0.6	0.6	0.1
46	Cocklebur	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
47	Prostrate knotweed	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
48	Prairie coneflower	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
49	Bluebur	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
50	Purslane speedwell	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
51	Rose species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
52	Gray tansy mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
53	Narrow-leaved hawk's-beard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
54	Barley	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
55	Yellow sweet-clover	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
56	Prostrate pigweed	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1



Table 22. 2000s Spring wheat in the Lake Manitoba Plain Ecoregion (76 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	47.4	18.4	38.8	13.6	28.6	316.0	68.1
2	Wild oats	39.2	12.1	30.7	5.7	14.5	260.0	36.3
3	Wild buckwheat	63.3	16.5	26.1	1.8	2.8	18.6	32.8
4	Barnyard grass	30.1	8.2	27.1	3.4	11.3	129.2	23.9
5	Redroot pigweed	32.5	8.6	26.6	1.6	4.9	46.8	19.1
6	Canada thistle	45.7	6.3	13.8	0.7	1.6	11.2	16.8
7	Canola/rapeseed	22.3	4.7	21.3	1.5	6.9	86.0	13.4
8	Lamb's-quarters	25.1	4.6	18.4	0.5	2.0	8.6	10.7
9	Pale smartweed	29.5	4.0	13.6	0.3	1.1	4.4	10.4
10	Spiny annual sow-thistle	23.3	2.2	9.5	0.2	0.8	7.8	7.1
11	Thyme-leaved spurge	14.4	3.6	24.7	0.3	2.3	9.6	7.0
12	Wild mustard	14.5	2.0	13.9	0.4	2.5	11.0	5.8
13	Dandelion	14.6	1.9	12.7	0.2	1.3	8.6	5.1
14	Round-leaved mallow	11.9	2.3	19.4	0.2	1.4	3.2	4.9
15	Common ragweed	6.8	1.3	18.5	0.1	1.9	6.0	2.9
16	Field bean	5.4	1.6	29.9	0.1	2.0	3.2	2.9
17	Perennial sow-thistle	9.3	0.9	9.5	0.1	0.8	4.2	2.8
18	Flax	5.3	1.2	23.7	0.2	3.4	6.6	2.7
19	Quack grass	10.1	0.6	6.1	< 0.1	0.4	1.0	2.7
20	Oats	2.9	1.0	35.1	0.3	10.6	15.4	2.4
21	Hemp-nettle	2.6	1.5	55.0	0.1	5.5	9.4	2.3
22	Stinkweed	6.8	0.6	8.9	< 0.1	0.7	2.6	2.0
23	Shepherd's-purse	4.0	0.6	16.4	0.1	3.0	8.4	1.7
24	Kochia	5.2	0.6	12.3	< 0.1	0.8	2.0	1.7
25	Yellow foxtail	3.9	0.4	10.1	0.2	4.4	10.6	1.6
26	Cocklebur	3.9	0.5	11.7	0.1	1.8	4.4	1.4
27	Cleavers	3.7	0.4	11.7	< 0.1	0.9	1.8	1.2
28	Barley	4.0	0.3	6.7	< 0.1	0.7	1.6	1.1
29	Showy milkweed	2.6	0.5	17.5	< 0.1	1.6	2.6	1.1
30	Field horsetail	2.5	0.5	18.5	< 0.1	1.2	2.2	1.0
31	Black medick	3.0	0.4	12.2	< 0.1	1.2	1.6	1.0
32	Night-flowering catchfly	2.7	0.3	12.3	< 0.1	0.6	1.0	0.9
33	Prostrate pigweed	2.6	0.1	5.0	< 0.1	0.5	0.8	0.7
34	Common groundsel	1.3	0.2	15.0	< 0.1	1.4	1.4	0.5
35	American dragonhead	1.5	0.1	10.0	< 0.1	0.6	0.6	0.4
36	Sunflower species	1.3	0.1	10.0	< 0.1	1.0	1.0	0.4
37	Wheat	1.3	0.1	10.0	< 0.1	0.8	0.8	0.4
38	Water smartweed	1.3	0.1	5.0	< 0.1	2.0	2.0	0.4
39	Fababean	1.3	0.1	10.0	< 0.1	0.6	0.6	0.4
40	Tansy	1.3	0.1	10.0	< 0.1	0.4	0.4	0.4
41	Prostrate knotweed	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3
42	Clover species	1.3	0.1	5.0	< 0.1	0.2	0.2	0.3
43	Yellow sweet-clover	1.3	0.1	5.0	< 0.1	0.2	0.2	0.3
44	Alfalfa	1.3	0.1	5.0	< 0.1	0.2	0.2	0.3
45	Manitoba maple	1.3	0.1	5.0	< 0.1	0.2	0.2	0.3

**Field Survey Summary Tables – 2000s Spring Wheat**

Table 23. 2000s Spring wheat in the Interlake Plain Ecoregion (26 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	60.5	23.6	39.1	28.0	46.3	449.8	90.1
2	Green foxtail	54.2	23.4	43.2	6.3	11.5	36.0	42.9
3	Wild buckwheat	54.5	14.3	26.2	1.1	2.1	9.8	24.9
4	Barnyard grass	42.8	9.0	21.0	2.5	5.8	33.0	21.2
5	Field horsetail	15.0	5.6	37.5	3.9	26.3	96.6	15.8
6	Canada thistle	27.1	4.5	16.8	0.4	1.6	7.0	10.1
7	Lamb's-quarters	27.4	4.7	17.2	0.3	1.1	2.2	10.0
8	Redroot pigweed	20.1	5.2	25.6	0.5	2.4	6.6	9.3
9	Dandelion	22.8	4.7	20.7	0.4	1.6	4.6	9.2
10	Pale smartweed	15.7	5.1	32.5	0.6	4.1	7.8	8.7
11	Chickweed	7.3	4.1	56.4	1.7	22.9	44.0	8.3
12	Cleavers	19.1	3.2	17.0	0.2	0.9	1.6	6.9
13	Night-flowering catchfly	15.7	2.9	18.8	0.4	2.8	7.0	6.5
14	Canola/rapeseed	11.4	1.7	15.0	0.1	0.9	1.2	3.9
15	Spiny annual sow-thistle	7.5	2.0	26.3	0.2	2.4	4.6	3.5
16	Perennial sow-thistle	11.6	1.2	10.0	0.1	0.6	0.8	3.5
17	Wild mustard	8.3	1.0	12.1	0.1	1.0	1.6	2.7
18	Quack grass	8.3	0.8	10.0	0.1	0.6	0.8	2.5
19	Water smartweed	7.5	0.9	12.5	< 0.1	0.6	1.0	2.4
20	White cockle	3.5	1.6	45.0	0.2	4.8	4.8	2.3
21	Round-leaved mallow	4.4	1.3	30.0	0.1	3.4	3.4	2.3
22	Shepherd's-purse	3.9	1.0	25.0	0.1	3.4	3.4	1.9
23	Thyme-leaved spurge	3.9	0.8	20.0	0.1	3.4	3.4	1.7
24	Absinth	4.4	0.4	10.0	< 0.1	0.6	0.6	1.3
25	Alfalfa	3.5	0.5	15.0	< 0.1	1.0	1.0	1.2
26	Perennial rye grass	3.5	0.5	15.0	< 0.1	0.6	0.6	1.2
27	Stork's-bill	3.9	0.4	10.0	< 0.1	0.4	0.4	1.2
28	Hemp-nettle	3.9	0.2	5.0	< 0.1	0.2	0.2	1.0
29	American dragonhead	3.7	0.2	5.0	< 0.1	0.2	0.2	0.9
30	Broad-leaved plantain	3.7	0.2	5.0	< 0.1	0.2	0.2	0.9
31	Blue grass species	3.7	0.2	5.0	< 0.1	0.2	0.2	0.9
32	Stinkweed	3.5	0.2	5.0	< 0.1	0.2	0.2	0.9

Table 24. 2000s Barley (783 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	54.8	19.8	36.2	5.8	10.7	379.6	42.3
2	Green foxtail	28.6	11.1	38.8	7.2	25.1	397.4	34.0
3	Wild buckwheat	52.1	16.7	32.1	2.3	4.4	175.0	29.6
4	Chickweed	14.4	6.9	47.8	6.4	44.4	1727.2	25.8
5	Canada thistle	40.1	9.4	23.5	1.1	2.7	29.2	18.3
6	Lamb's-quarters	21.1	5.6	26.5	1.4	6.8	268.8	12.5
7	Cleavers	14.5	4.8	33.1	1.1	7.9	108.4	9.8
8	Stinkweed	19.9	4.7	23.9	0.7	3.7	83.0	9.7
9	Canola/rapeseed	12.7	3.4	26.8	0.9	7.0	92.8	7.6
10	Dandelion	19.9	3.5	17.4	0.3	1.6	32.0	7.6
11	Hemp-nettle	14.1	3.2	22.9	0.5	3.7	56.0	6.8
12	Spiny annual sow-thistle	9.3	2.7	29.3	1.0	10.8	275.2	6.7
13	Wheat	13.9	3.3	23.7	0.5	3.5	58.0	6.7
14	Pale smartweed	12.8	2.8	21.6	0.6	4.7	145.2	6.4
15	Quack grass	12.6	2.5	20.2	0.6	5.1	63.2	6.2
16	Redroot pigweed	14.2	2.5	17.3	0.4	2.9	45.4	5.9
17	Kochia	10.4	2.7	25.5	0.6	5.6	145.0	5.7
18	Shepherd's-purse	10.4	2.7	26.3	0.4	3.7	27.6	5.3
19	Perennial sow-thistle	13.1	2.1	16.0	0.2	1.6	18.0	4.8
20	Field horsetail	9.7	2.4	24.8	0.4	3.7	26.0	4.8
21	Russian thistle	6.9	1.9	27.4	0.5	6.8	75.4	4.1
22	Narrow-leaved hawk's-beard	10.4	1.8	17.4	0.2	2.0	18.4	4.1
23	Barnyard grass	4.6	1.3	27.2	0.6	12.5	227.8	3.5
24	Wild mustard	6.4	1.3	20.8	0.3	4.6	96.0	3.1
25	Common groundsel	4.0	0.8	19.9	0.2	4.7	62.0	2.0
26	Flax	2.2	0.9	41.5	0.2	8.2	36.0	1.7
27	Pineappleweed	3.6	0.6	18.0	0.2	4.3	37.6	1.6
28	Flixweed	4.1	0.5	13.3	0.1	2.8	37.6	1.6
29	Bluebur	3.3	0.6	19.0	0.1	3.3	43.8	1.5
30	Clover species	1.8	0.6	32.2	0.2	12.4	96.6	1.5
31	Round-leaved mallow	4.0	0.6	14.0	< 0.1	1.0	4.4	1.3
32	Foxtail barley	4.1	0.5	11.4	0.1	1.3	6.8	1.3
33	Alfalfa	1.5	0.6	38.9	0.2	13.3	78.4	1.3
34	Night-flowering catchfly	2.5	0.6	25.2	0.1	3.1	13.4	1.2
35	Thyme-leaved spurge	1.1	0.4	39.1	0.1	9.5	38.4	0.9
36	Stork's-bill	1.9	0.3	17.1	< 0.1	1.8	14.6	0.7
37	Broad-leaved plantain	2.0	0.3	12.5	< 0.1	1.0	5.8	0.7
38	Biennial wormwood	1.5	0.2	16.1	0.1	4.0	26.6	0.6
39	Low cudweed	0.4	0.1	40.9	0.2	42.1	121.2	0.6
40	Field peas	0.9	0.4	43.7	< 0.1	3.8	7.6	0.6
41	Corn spurry	0.9	0.3	37.1	0.1	6.0	19.6	0.6
42	Rose species	1.8	0.2	10.9	< 0.1	1.3	5.6	0.6
43	Cow cockle	1.4	0.2	17.9	< 0.1	2.1	8.0	0.5
44	Prostrate knotweed	1.0	0.2	17.2	0.1	6.8	55.8	0.5
45	Yellow sweet-clover	0.9	0.2	26.1	< 0.1	4.2	16.8	0.5
46	White cockle	1.3	0.2	12.9	< 0.1	1.0	6.2	0.4
47	Oats	0.8	0.2	23.3	< 0.1	5.6	16.0	0.4
48	American dragonhead	1.1	0.1	9.6	< 0.1	0.6	1.2	0.3
49	Persian darnel	0.7	0.1	16.6	< 0.1	4.4	20.4	0.3
50	Black medick	0.8	0.1	11.6	< 0.1	2.0	7.6	0.3
51	Prostrate pigweed	0.8	0.1	11.9	< 0.1	0.8	2.8	0.2
52	Scentless chamomile	0.7	0.1	12.6	< 0.1	0.9	1.6	0.2
53	Prickly lettuce	0.8	0.1	8.4	< 0.1	1.2	3.2	0.2
54	Coriander	0.2	0.2	63.3	< 0.1	7.9	11.8	0.2

(Table continued on next page)

**Field Survey Summary Tables – 2000s Barley**

Table 24. 2000s Barley (783 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Downy brome	0.3	0.1	38.2	< 0.1	11.1	21.0	0.2
56	Lentils	0.4	0.1	37.6	< 0.1	2.9	7.2	0.2
57	Yellow toadflax	0.7	0.1	8.4	< 0.1	0.8	3.0	0.2
58	Canary grass	0.4	0.1	25.1	< 0.1	2.3	6.0	0.2
59	Common pepper-grass	0.5	< 0.1	8.7	< 0.1	3.1	11.8	0.2
60	Barley	0.4	0.1	23.1	< 0.1	3.0	5.6	0.2
61	Wild tomato	0.5	0.1	17.6	< 0.1	1.1	1.8	0.2
62	Smooth brome	0.5	< 0.1	9.9	< 0.1	1.5	2.6	0.2
63	Wormseed mustard	0.3	0.1	30.4	< 0.1	6.6	8.2	0.2
64	Poplar species	0.4	0.1	14.3	< 0.1	2.6	7.6	0.2
65	Mouse-eared chickweed	0.4	0.1	15.5	< 0.1	1.5	2.8	0.2
66	Yellow foxtail	0.4	0.1	13.4	< 0.1	2.7	7.8	0.1
67	Field bindweed	0.5	< 0.1	7.5	< 0.1	0.3	0.4	0.1
68	Vetch species	0.5	< 0.1	6.3	< 0.1	0.4	0.8	0.1
69	Purslane speedwell	0.4	0.1	12.7	< 0.1	0.8	1.4	0.1
70	Goat's-beard	0.5	< 0.1	6.2	< 0.1	0.2	0.4	0.1
71	Canada fleabane	0.4	0.1	15.1	< 0.1	0.9	1.0	0.1
72	Dog mustard	0.3	0.1	27.4	< 0.1	3.1	6.0	0.1
73	Povertyweed	0.1	0.1	60.0	< 0.1	13.2	13.2	0.1
74	White mustard	0.2	0.1	24.3	< 0.1	2.1	4.2	0.1
75	Bicknell's geranium	0.4	< 0.1	6.7	< 0.1	0.5	1.0	0.1
76	Tartary buckwheat	0.1	0.1	60.0	< 0.1	6.2	6.2	0.1
77	Showy milkweed	0.3	< 0.1	15.0	< 0.1	2.6	4.4	0.1
78	Absinth	0.1	0.1	45.0	< 0.1	6.4	6.4	0.1
79	Henbit	0.3	< 0.1	15.3	< 0.1	1.8	3.4	0.1
80	Scouring-rush	0.2	< 0.1	10.0	< 0.1	2.4	4.0	0.1
81	Rough cinquefoil	0.3	< 0.1	5.0	< 0.1	0.8	1.6	0.1
82	Wild rye/wheat grass species	0.3	< 0.1	7.6	< 0.1	0.4	0.4	0.1
83	Wood whitlow-grass	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
84	Field mint	0.3	< 0.1	5.0	< 0.1	0.5	0.8	0.1
85	Water smartweed	0.2	< 0.1	5.0	< 0.1	0.3	0.4	0.1
86	Rye	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
87	Indian mustard	0.1	< 0.1	20.0	< 0.1	1.4	1.4	< 0.1
88	Wild radish	0.1	< 0.1	15.0	< 0.1	1.4	1.4	< 0.1
89	Redtop	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
90	Fescue species	0.1	< 0.1	15.0	< 0.1	0.8	0.8	< 0.1
91	Spear-leaved goosefoot	0.2	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
92	Wild chamomile	0.1	< 0.1	5.0	< 0.1	2.0	2.0	< 0.1
93	Cocklebur	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
94	Ball mustard	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
95	Caraway	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
96	Oak-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
97	Common ragweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
98	Milk-vetch species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
99	Blue grass species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
100	Russian pigweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
101	Tall buttercup	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 25. 2000s Barley in the Peace Lowland Ecoregion (33 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Cleavers	51.7	23.2	44.8	8.5	16.4	108.4	36.7
2	Field horsetail	50.1	20.2	40.4	3.8	7.5	26.0	25.0
3	Wild buckwheat	65.2	20.7	31.8	2.5	3.8	16.8	24.5
4	Hemp-nettle	39.3	12.5	31.7	4.0	10.1	56.0	20.1
5	Stinkweed	48.0	15.5	32.3	2.6	5.5	37.4	19.9
6	Chickweed	29.0	11.0	37.9	4.2	14.5	93.2	18.4
7	Dandelion	42.7	14.1	33.1	1.6	3.8	11.8	16.4
8	Wild oats	50.2	10.8	21.5	1.9	3.7	25.6	16.3
9	Lamb's-quarters	17.4	10.6	61.1	3.6	20.7	75.4	15.3
10	Narrow-leaved hawk's-beard	42.0	8.6	20.4	1.5	3.5	17.6	13.2
11	Pineappleweed	28.9	6.4	22.1	2.0	6.8	37.6	11.3
12	Common groundsel	25.6	7.2	28.0	1.7	6.8	21.4	10.8
13	Quack grass	17.7	2.8	16.0	2.6	14.8	63.2	9.4
14	Pale smartweed	26.3	6.7	25.3	1.0	3.8	13.2	9.1
15	Canada thistle	27.7	4.2	15.3	0.8	2.9	10.2	7.7
16	Canola/rapeseed	15.8	4.6	28.9	1.3	8.3	21.2	7.3
17	Biennial wormwood	8.0	3.2	40.0	1.1	14.1	26.6	5.1
18	Bluebur	13.1	3.5	26.7	0.3	2.6	5.0	4.3
19	Perennial sow-thistle	14.5	2.7	18.8	0.2	1.6	4.8	3.9
20	Shepherd's-purse	9.1	3.3	36.1	0.4	4.7	10.2	3.8
21	Broad-leaved plantain	9.9	1.7	17.1	0.2	2.5	5.8	2.7
22	Mouse-eared chickweed	6.7	1.3	19.9	0.1	1.8	2.8	1.8
23	Wheat	9.8	0.6	6.4	< 0.1	0.4	0.8	1.8
24	Field peas	2.8	1.4	50.0	0.2	6.0	6.0	1.4
25	Foxtail barley	4.0	1.2	30.0	0.1	3.4	3.4	1.4
26	Prostrate pigweed	3.0	1.2	40.0	0.1	2.8	2.8	1.2
27	Rose species	6.1	0.4	7.2	< 0.1	0.7	1.0	1.2
28	Stork's-bill	2.8	1.0	35.0	0.1	3.6	3.6	1.1
29	Yellow sweet-clover	3.4	0.5	15.0	< 0.1	0.8	0.8	0.8
30	Wild radish	3.0	0.5	15.0	< 0.1	1.4	1.4	0.7
31	Rough cinquefoil	4.0	0.2	5.0	< 0.1	0.2	0.2	0.7
32	Redtop	4.0	0.2	5.0	< 0.1	0.2	0.2	0.7
33	Fescue species	2.8	0.4	15.0	< 0.1	0.8	0.8	0.7
34	Low cudweed	2.7	0.4	15.0	< 0.1	0.8	0.8	0.6
35	Wild rye/wheat grass species	3.0	0.3	10.0	< 0.1	0.4	0.4	0.6
36	American dragonhead	2.7	0.3	10.0	< 0.1	1.2	1.2	0.6
37	Alfalfa	2.7	0.3	10.0	< 0.1	0.6	0.6	0.6
38	Clover species	3.1	0.2	5.0	< 0.1	0.6	0.6	0.5
39	Field bindweed	3.1	0.2	5.0	< 0.1	0.2	0.2	0.5
40	Bicknell's geranium	3.1	0.2	5.0	< 0.1	0.2	0.2	0.5
41	Scentless chamomile	2.8	0.1	5.0	< 0.1	0.2	0.2	0.5
42	Tall buttercup	2.7	0.1	5.0	< 0.1	0.2	0.2	0.5
43	Redroot pigweed	2.6	0.1	5.0	< 0.1	0.2	0.2	0.4

**Field Survey Summary Tables – 2000s Barley**

Table 26. 2000s Barley in the Boreal Transition Ecoregion (146 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	28.0	14.5	51.7	9.5	33.9	416.0	35.1
2	Wild oats	59.4	22.5	37.9	4.8	8.1	113.4	34.6
3	Wild buckwheat	64.9	23.1	35.6	2.9	4.4	25.4	31.4
4	Green foxtail	21.2	7.6	35.8	9.6	45.3	397.4	30.0
5	Lamb's-quarters	33.0	11.5	34.9	3.3	10.2	268.8	20.1
6	Canada thistle	46.5	10.2	22.0	1.0	2.2	18.0	16.4
7	Canola/rapeseed	20.5	5.5	27.0	2.0	9.6	86.4	11.3
8	Cleavers	20.8	7.1	34.0	1.1	5.3	29.4	10.3
9	Field horsetail	27.2	6.3	23.0	0.8	2.9	11.6	10.2
10	Dandelion	32.5	5.4	16.5	0.5	1.6	32.0	9.9
11	Hemp-nettle	24.7	5.1	20.6	0.6	2.5	35.6	8.6
12	Pale smartweed	21.8	4.8	22.0	0.8	3.7	65.2	8.4
13	Narrow-leaved hawk's-beard	24.4	4.9	20.1	0.5	2.1	18.4	8.2
14	Stinkweed	20.5	5.2	25.4	0.6	3.0	26.0	8.0
15	Quack grass	16.3	4.0	24.5	0.8	4.9	28.6	7.0
16	Shepherd's-purse	15.2	3.8	25.1	0.6	3.8	27.6	6.2
17	Wheat	13.6	3.3	24.6	0.8	5.8	58.0	6.1
18	Perennial sow-thistle	20.3	2.6	12.9	0.2	1.2	5.0	5.6
19	Clover species	5.4	2.3	42.9	1.1	19.8	96.6	4.8
20	Wild mustard	7.3	2.6	36.0	0.5	6.7	30.0	3.9
21	Spiny annual sow-thistle	9.3	1.8	19.2	0.3	2.8	18.4	3.2
22	Alfalfa	3.6	1.0	27.0	0.6	16.9	78.4	2.6
23	Redroot pigweed	7.0	1.1	15.5	0.2	3.5	26.8	2.4
24	Corn spurry	2.7	1.4	50.9	0.2	8.0	19.6	1.8
25	Stork's-bill	5.7	0.6	10.6	< 0.1	0.7	2.4	1.4
26	Common groundsel	4.0	0.7	17.1	< 0.1	1.2	1.6	1.2
27	Night-flowering catchfly	1.9	0.9	48.7	0.1	7.1	13.4	1.2
28	Broad-leaved plantain	4.1	0.6	14.1	< 0.1	0.7	1.8	1.1
29	Bluebur	3.2	0.5	15.7	< 0.1	0.8	2.2	0.9
30	American dragonhead	2.6	0.4	14.1	< 0.1	0.7	1.2	0.7
31	Pineappleweed	2.7	0.3	12.3	< 0.1	0.7	1.4	0.7
32	Flax	2.0	0.5	23.2	< 0.1	1.6	2.8	0.7
33	White cockle	3.1	0.2	6.2	< 0.1	0.3	0.4	0.7
34	Round-leaved mallow	1.3	0.5	36.4	< 0.1	2.2	4.4	0.6
35	Field peas	0.6	0.6	85.0	< 0.1	5.8	5.8	0.5
36	Canary grass	0.7	0.4	60.0	< 0.1	6.0	6.0	0.5
37	Russian thistle	1.3	0.2	16.9	< 0.1	1.4	2.0	0.4
38	Wild tomato	1.2	0.1	12.3	< 0.1	0.9	1.0	0.3
39	Foxtail barley	1.4	0.1	7.7	< 0.1	0.3	0.4	0.3
40	Black medick	1.3	0.1	5.0	< 0.1	0.2	0.2	0.3
41	Wormseed mustard	0.6	0.1	20.0	< 0.1	4.8	4.8	0.2
42	Scentless chamomile	0.6	0.2	25.0	< 0.1	1.6	1.6	0.2
43	Smooth brome	0.6	0.1	10.0	< 0.1	2.6	2.6	0.2
44	Kochia	0.6	0.1	15.0	< 0.1	0.6	0.6	0.2
45	Rose species	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
46	Purslane speedwell	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
47	Poplar species	0.8	< 0.1	5.0	< 0.1	0.4	0.4	0.2
48	Cow cockle	0.6	0.1	10.0	< 0.1	0.6	0.6	0.2
49	Barnyard grass	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.1
50	Downy brome	0.7	< 0.1	5.0	< 0.1	0.8	0.8	0.1
51	Prostrate knotweed	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
52	Dog mustard	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
53	Common pepper-grass	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
54	Blue grass species	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1

(Table continued on next page)

Table 26. 2000s Barley in the Boreal Transition Ecoregion (146 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Bicknell's geranium	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
56	Rye	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 27. 2000s Barley in the Aspen Parkland Ecoregion (313 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	57.5	23.8	41.4	8.4	14.5	379.6	43.7
2	Green foxtail	34.6	14.9	43.1	8.3	24.0	319.6	33.6
3	Chickweed	18.2	8.7	47.9	10.9	60.1	1727.2	32.1
4	Wild buckwheat	58.6	20.1	34.3	3.2	5.4	175.0	30.6
5	Canada thistle	52.6	12.8	24.4	1.5	2.9	29.2	21.2
6	Spiny annual sow-thistle	16.7	5.4	32.3	2.2	13.0	275.2	11.1
7	Lamb's-quarters	21.8	4.4	20.3	1.1	5.0	91.4	9.2
8	Cleavers	18.8	5.2	27.6	1.0	5.5	95.0	9.0
9	Wheat	19.7	5.2	26.7	0.7	3.6	55.4	8.5
10	Stinkweed	17.1	4.5	26.4	0.8	4.5	83.0	7.7
11	Quack grass	17.1	3.4	19.9	0.8	4.7	55.0	7.1
12	Canola/rapeseed	15.3	4.0	26.0	0.7	4.7	92.8	6.9
13	Hemp-nettle	17.2	3.8	22.4	0.5	3.2	26.8	6.8
14	Perennial sow-thistle	18.2	3.5	18.9	0.3	1.9	18.0	6.3
15	Pale smartweed	12.6	2.9	23.3	0.9	7.5	145.2	6.2
16	Shepherd's-purse	14.1	3.6	25.9	0.5	3.7	25.0	6.0
17	Dandelion	19.0	2.9	15.4	0.2	1.2	9.0	5.9
18	Redroot pigweed	12.5	2.5	20.2	0.4	3.0	30.2	4.7
19	Barnyard grass	5.4	1.7	30.7	0.9	16.9	227.8	4.0
20	Russian thistle	6.6	1.9	28.4	0.7	9.9	75.4	3.8
21	Wild mustard	8.3	1.3	15.7	0.5	5.5	96.0	3.3
22	Flax	3.4	1.9	55.2	0.4	12.7	36.0	2.8
23	Narrow-leaved hawk's-beard	8.4	1.1	12.9	0.1	1.1	9.4	2.4
24	Kochia	4.4	1.1	25.7	0.3	6.5	31.4	2.2
25	Night-flowering catchfly	4.9	1.0	19.9	0.1	2.3	10.0	1.8
26	Bluebur	3.8	0.7	18.4	0.2	5.6	43.8	1.6
27	Field horsetail	4.9	0.7	14.3	0.1	2.0	12.6	1.6
28	Round-leaved mallow	5.0	0.8	15.5	0.1	1.3	3.4	1.6
29	Pineappleweed	3.9	0.7	18.2	0.2	4.1	32.6	1.5
30	Common groundsel	4.5	0.5	10.4	< 0.1	0.6	3.0	1.2
31	Low cudweed	0.6	0.3	53.5	0.4	62.2	121.2	1.1
32	Oats	1.6	0.4	26.8	0.1	6.7	16.0	0.8
33	Foxtail barley	2.6	0.3	11.8	0.1	2.0	4.2	0.8
34	Alfalfa	1.0	0.6	61.5	0.1	8.3	18.0	0.8
35	Flixweed	3.2	0.2	6.0	< 0.1	0.8	2.4	0.8
36	Biennial wormwood	2.2	0.2	9.8	< 0.1	1.0	5.4	0.6
37	Rose species	1.9	0.2	12.4	< 0.1	1.9	5.6	0.6
38	Thyme-leaved spurge	0.7	0.4	59.8	0.1	11.0	19.4	0.5
39	Clover species	1.4	0.3	23.0	< 0.1	2.6	8.6	0.5
40	White cockle	1.3	0.3	22.9	< 0.1	2.1	6.2	0.5
41	Field peas	1.0	0.3	32.4	< 0.1	2.6	7.6	0.5
42	Yellow toadflax	1.8	0.2	8.4	< 0.1	0.8	3.0	0.5

(Table continued on next page)

**Field Survey Summary Tables – 2000s Barley**

Table 27. 2000s Barley in the Aspen Parkland Ecoregion (313 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
43	Broad-leaved plantain	1.6	0.1	7.0	< 0.1	0.4	0.8	0.4
44	Stork's-bill	1.2	0.2	14.9	< 0.1	1.0	1.6	0.4
45	Prostrate knotweed	1.3	0.1	8.8	< 0.1	0.6	0.8	0.3
46	Corn spurry	0.9	0.1	16.5	< 0.1	3.1	8.6	0.3
47	Coriander	0.3	0.3	85.0	< 0.1	11.8	11.8	0.3
48	Yellow sweet-clover	1.0	0.2	17.8	< 0.1	1.5	2.6	0.3
49	Black medick	1.0	0.1	8.3	< 0.1	2.9	7.6	0.3
50	American dragonhead	1.3	0.1	5.0	< 0.1	0.4	0.8	0.3
51	Scentless chamomile	1.0	0.1	13.4	< 0.1	1.1	1.6	0.3
52	Povertyweed	0.3	0.2	60.0	< 0.1	13.2	13.2	0.3
53	Prickly lettuce	1.0	0.1	6.6	< 0.1	1.2	3.2	0.3
54	Poplar species	0.6	0.1	19.6	< 0.1	3.9	7.6	0.3
55	Yellow foxtail	0.6	0.1	17.9	< 0.1	4.1	7.8	0.2
56	Prostrate pigweed	1.0	0.1	6.9	< 0.1	0.4	0.4	0.2
57	Persian darnel	1.0	0.1	6.7	< 0.1	0.7	1.6	0.2
58	Field bindweed	1.0	0.1	8.4	< 0.1	0.3	0.4	0.2
59	Barley	0.6	0.1	15.0	< 0.1	3.4	5.6	0.2
60	Tartary buckwheat	0.3	0.2	60.0	< 0.1	6.2	6.2	0.2
61	Vetch species	1.0	< 0.1	5.0	< 0.1	0.4	0.8	0.2
62	Showy milkweed	0.6	0.1	15.0	< 0.1	2.6	4.4	0.2
63	Wild tomato	0.6	0.1	22.7	< 0.1	1.2	1.8	0.2
64	Henbit	0.6	0.1	15.3	< 0.1	1.8	3.4	0.2
65	Purslane speedwell	0.6	0.1	17.3	< 0.1	1.2	1.4	0.2
66	Wormseed mustard	0.3	0.1	40.0	< 0.1	8.2	8.2	0.2
67	Absinth	0.3	0.1	45.0	< 0.1	6.4	6.4	0.2
68	Smooth brome	0.3	< 0.1	15.0	< 0.1	1.2	1.2	0.1
69	Bicknell's geranium	0.3	< 0.1	10.0	< 0.1	1.0	1.0	0.1
70	Canada fleabane	0.3	< 0.1	10.0	< 0.1	0.6	0.6	0.1
71	Wild chamomile	0.3	< 0.1	5.0	< 0.1	2.0	2.0	0.1
72	Scouring-rush	0.3	< 0.1	10.0	< 0.1	0.8	0.8	0.1
73	Goat's-beard	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
74	Ball mustard	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
75	Wood whitlow-grass	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
76	Rye	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
77	Mouse-eared chickweed	0.3	< 0.1	5.0	< 0.1	0.8	0.8	0.1
78	Wild rye/wheat grass species	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
79	Caraway	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
80	Oak-leaved goosefoot	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
81	Common ragweed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
82	Field mint	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
83	Milk-vetch species	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
84	Russian pigweed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1



Table 28. 2000s Barley in the Fescue Grassland Ecoregion (40 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	53.0	17.2	32.4	3.1	5.8	49.4	46.9
2	Canada thistle	50.5	12.6	24.9	1.9	3.7	12.6	35.1
3	Wild buckwheat	47.9	12.8	26.7	1.1	2.3	12.8	30.5
4	Cleavers	7.7	5.3	68.7	2.7	35.0	81.4	21.5
5	Flixweed	19.9	4.0	19.9	1.1	5.8	37.6	15.0
6	Stinkweed	31.7	3.6	11.3	0.4	1.3	6.2	13.5
7	Chickweed	10.2	3.2	31.1	1.3	13.2	44.2	12.9
8	Lamb's-quarters	20.3	4.4	21.9	0.5	2.5	10.0	12.2
9	Common groundsel	5.0	2.4	47.5	1.6	31.1	62.0	12.0
10	Shepherd's-purse	10.1	3.4	33.7	0.5	5.3	16.2	8.8
11	Quack grass	10.2	2.6	25.1	0.5	4.9	11.2	7.8
12	Dandelion	20.2	2.2	10.6	0.1	0.5	1.0	7.7
13	Alfalfa	2.6	2.4	90.0	0.8	31.4	31.4	7.4
14	Yellow sweet-clover	4.3	2.6	60.0	0.6	13.3	16.8	6.7
15	Hemp-nettle	7.7	2.5	33.1	0.3	4.2	11.6	6.2
16	Cow cockle	10.1	2.3	22.5	0.2	2.2	6.2	6.0
17	Downy brome	2.6	1.8	70.0	0.5	21.0	21.0	5.4
18	Redroot pigweed	10.2	1.7	16.2	0.2	2.1	7.0	5.3
19	Persian darnel	2.5	1.5	60.0	0.5	20.4	20.4	4.9
20	Canola/rapeseed	10.1	1.9	18.8	0.1	1.0	2.0	4.9
21	Foxtail barley	12.3	1.2	10.0	0.1	0.6	1.6	4.7
22	Wheat	7.6	1.6	21.7	0.1	1.9	3.8	4.3
23	Kochia	7.7	0.9	11.6	0.1	0.9	2.0	3.1
24	Spiny annual sow-thistle	5.0	0.9	17.5	0.1	1.9	3.4	2.6
25	Round-leaved mallow	5.2	0.6	12.6	< 0.1	0.9	1.2	2.2
26	Rose species	5.2	0.5	10.1	0.1	1.3	2.4	2.1
27	Green foxtail	5.0	0.6	12.5	< 0.1	0.6	0.8	2.0
28	Bluebur	5.0	0.5	10.0	< 0.1	0.4	0.6	1.9
29	Perennial sow-thistle	5.1	0.3	5.0	< 0.1	0.4	0.6	1.6
30	Smooth brome	2.5	0.1	5.0	< 0.1	1.0	1.0	0.9
31	White cockle	2.6	0.1	5.0	< 0.1	0.4	0.4	0.8
32	Wood whitlow-grass	2.6	0.1	5.0	< 0.1	0.2	0.2	0.8
33	Prostrate knotweed	2.5	0.1	5.0	< 0.1	0.2	0.2	0.8
34	Goat's-beard	2.5	0.1	5.0	< 0.1	0.2	0.2	0.8
35	Pale smartweed	2.5	0.1	5.0	< 0.1	0.2	0.2	0.8

**Field Survey Summary Tables – 2000s Barley**

Table 29. 2000s Barley in the Moist Mixed Grassland Ecoregion (136 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	29.6	11.1	37.7	8.3	28.1	308.6	62.5
2	Wild oats	48.4	14.4	29.8	3.5	7.2	197.0	50.1
3	Wild buckwheat	33.0	8.7	26.3	1.2	3.7	39.2	27.2
4	Kochia	24.4	6.7	27.5	1.8	7.6	145.0	24.9
5	Canada thistle	28.1	7.8	27.8	0.9	3.0	15.6	22.8
6	Stinkweed	18.7	3.9	21.1	0.7	3.5	25.8	14.0
7	Redroot pigweed	19.3	3.2	16.3	0.3	1.6	11.2	11.5
8	Lamb's-quarters	11.4	2.4	20.9	0.7	5.9	79.2	9.8
9	Canola/rapeseed	6.2	1.7	28.0	0.8	12.6	84.6	7.9
10	Russian thistle	8.1	2.0	24.9	0.4	4.5	40.0	6.8
11	Dandelion	11.9	1.7	14.0	0.2	1.6	13.4	6.8
12	Wheat	8.0	1.5	18.6	0.2	2.0	8.8	5.2
13	Barnyard grass	3.7	1.3	34.4	0.3	9.2	27.4	4.4
14	Spiny annual sow-thistle	1.7	0.9	56.2	0.5	31.8	73.8	4.2
15	Foxtail barley	7.1	1.0	13.9	0.1	1.7	6.8	4.1
16	Shepherd's-purse	5.0	1.3	26.9	0.1	3.0	8.6	4.0
17	Prostrate knotweed	1.4	0.7	50.0	0.4	28.3	55.8	3.1
18	Flixweed	6.1	0.6	10.3	< 0.1	0.7	2.2	2.9
19	Wild mustard	3.6	0.8	22.5	0.1	1.6	3.6	2.4
20	Thyme-leaved spurge	2.2	0.6	27.0	0.2	7.3	22.8	2.2
21	Round-leaved mallow	5.1	0.4	7.2	< 0.1	0.3	0.8	2.2
22	Quack grass	3.7	0.4	11.0	< 0.1	1.2	3.8	1.9
23	Lentils	1.4	0.8	54.2	0.1	4.2	7.2	1.7
24	Stork's-bill	1.5	0.6	40.6	0.1	7.0	14.6	1.7
25	Narrow-leaved hawk's-beard	3.0	0.3	11.2	< 0.1	1.3	3.0	1.5
26	Bluebur	2.1	0.5	21.9	< 0.1	1.4	2.6	1.4
27	Perennial sow-thistle	3.2	0.2	6.5	< 0.1	0.6	1.0	1.4
28	Pale smartweed	2.9	0.2	7.6	< 0.1	0.7	1.4	1.3
29	Rose species	2.2	0.3	13.4	< 0.1	0.8	1.0	1.1
30	Cow cockle	0.7	0.4	55.0	0.1	8.0	8.0	1.0
31	Canada fleabane	1.5	0.3	17.5	< 0.1	1.0	1.0	0.9
32	Common groundsel	0.7	0.3	40.0	0.1	8.0	8.0	0.8
33	Barley	0.7	0.3	40.0	< 0.1	2.2	2.2	0.6
34	Prostrate pigweed	1.5	0.1	5.0	< 0.1	0.5	0.8	0.6
35	Night-flowering catchfly	0.7	0.2	30.0	< 0.1	3.0	3.0	0.6
36	Flax	0.7	0.1	20.0	< 0.1	0.8	0.8	0.5
37	Indian mustard	0.7	0.1	20.0	< 0.1	1.4	1.4	0.5
38	Scouring-rush	0.7	0.1	10.0	< 0.1	4.0	4.0	0.4
39	Spear-leaved goosefoot	1.0	< 0.1	5.0	< 0.1	0.4	0.4	0.4
40	Vetch species	0.8	0.1	10.0	< 0.1	0.6	0.6	0.4
41	Smooth brome	0.7	0.1	10.0	< 0.1	1.2	1.2	0.4
42	Rough cinquefoil	0.7	< 0.1	5.0	< 0.1	1.6	1.6	0.3
43	Field mint	0.8	< 0.1	5.0	< 0.1	0.8	0.8	0.3
44	Yellow sweet-clover	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3
45	Common pepper-grass	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.3
46	Goat's-beard	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.3
47	Water smartweed	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.3
48	Scentless chamomile	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.3

Table 30. 2000s Barley in the Mixed Grassland Ecoregion (87 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	35.5	14.0	39.5	5.2	14.5	83.8	63.7
2	Wild oats	53.0	14.6	27.6	2.9	5.4	62.8	55.3
3	Kochia	35.8	9.0	25.0	1.4	3.8	42.8	32.3
4	Russian thistle	22.4	6.7	30.0	1.3	5.7	35.0	24.4
5	Wild buckwheat	32.1	6.7	21.0	0.6	1.8	7.4	23.2
6	Redroot pigweed	24.7	3.8	15.5	0.7	3.0	45.4	17.9
7	Stinkweed	18.5	3.6	19.5	0.6	3.2	29.0	14.7
8	Lamb's-quarters	13.3	3.1	23.5	0.3	2.3	11.0	10.5
9	Barnyard grass	6.6	1.5	22.6	0.8	12.1	67.6	9.3
10	Flixweed	6.6	1.4	20.3	0.3	5.2	28.4	6.2
11	Dandelion	6.4	1.6	25.4	0.2	2.9	9.4	5.5
12	Thyme-leaved spurge	2.2	1.0	46.3	0.4	18.8	38.4	4.9
13	Wheat	5.7	1.3	23.6	0.1	2.2	7.2	4.4
14	Foxtail barley	7.3	0.4	5.7	< 0.1	0.2	0.4	3.0
15	Wild mustard	4.2	0.8	19.7	0.1	1.2	2.2	2.8
16	Cow cockle	5.4	0.4	8.1	0.1	1.2	3.8	2.7
17	Field peas	2.2	0.9	38.4	0.1	3.6	6.8	2.4
18	Common pepper-grass	2.2	0.3	12.6	0.1	6.0	11.8	1.9
19	Prickly lettuce	3.3	0.3	10.3	< 0.1	1.2	2.8	1.8
20	Canada thistle	3.4	0.3	9.8	< 0.1	0.7	1.6	1.7
21	White mustard	2.1	0.5	24.3	< 0.1	2.1	4.2	1.7
22	Dog mustard	1.1	0.6	50.0	0.1	6.0	6.0	1.5
23	Flax	2.2	0.4	17.2	< 0.1	1.4	2.6	1.4
24	Round-leaved mallow	2.3	0.2	10.0	< 0.1	1.2	1.2	1.2
25	Black medick	1.1	0.4	35.0	< 0.1	3.2	3.2	1.1
26	Biennial wormwood	2.3	0.1	5.0	< 0.1	0.3	0.4	0.9
27	Clover species	1.1	0.1	10.0	< 0.1	4.0	4.0	0.8
28	Persian darnel	1.5	0.1	5.0	< 0.1	0.2	0.2	0.6
29	Canary grass	1.2	0.1	5.0	< 0.1	0.2	0.2	0.5
30	Goat's-beard	1.1	0.1	5.0	< 0.1	0.2	0.2	0.4
31	Lentils	1.1	0.1	5.0	< 0.1	0.2	0.2	0.4
32	Oats	1.1	0.1	5.0	< 0.1	0.2	0.2	0.4
33	Pale smartweed	1.1	0.1	5.0	< 0.1	0.2	0.2	0.4

**Field Survey Summary Tables – 2000s Barley**

Table 31. 2000s Barley in the Lake Manitoba Plain Ecoregion (20 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	45.0	23.1	51.4	19.1	42.4	336.0	97.3
2	Wild buckwheat	54.0	19.2	35.6	1.5	2.8	7.8	34.0
3	Pale smartweed	56.2	9.0	16.0	0.6	1.1	3.6	21.6
4	Green foxtail	50.5	7.9	15.6	1.2	2.4	10.4	21.4
5	Redroot pigweed	34.8	3.2	9.3	1.7	4.8	25.8	15.6
6	Canada thistle	41.9	6.0	14.3	0.4	0.9	2.8	15.0
7	Canola/rapeseed	10.0	5.2	52.6	1.0	10.1	19.2	10.5
8	Barnyard grass	20.7	2.9	13.9	0.8	4.0	12.2	9.6
9	Wheat	25.1	2.8	11.0	0.3	1.0	2.2	8.4
10	Lamb's-quarters	20.1	2.8	13.8	0.4	1.9	6.4	7.8
11	Cleavers	10.0	3.3	33.3	0.5	5.0	8.6	6.8
12	Spiny annual sow-thistle	15.5	2.3	14.6	0.1	0.8	1.8	5.6
13	Perennial sow-thistle	16.2	1.9	11.5	0.2	1.1	2.2	5.5
14	Thyme-leaved spurge	10.0	2.8	27.5	0.2	1.6	2.0	5.1
15	Quack grass	14.4	1.8	12.9	0.1	0.8	1.2	4.9
16	Wild mustard	16.2	1.4	8.5	0.1	0.6	1.0	4.7
17	Round-leaved mallow	14.8	1.5	9.9	0.1	0.5	0.8	4.5
18	Coriander	5.0	2.0	40.0	0.2	3.8	3.8	3.5
19	Hemp-nettle	10.0	1.0	10.0	< 0.1	0.4	0.6	3.0
20	Pineappleweed	9.9	0.7	7.5	< 0.1	0.4	0.6	2.7
21	Flax	5.0	1.0	20.0	0.1	1.6	1.6	2.2
22	Cocklebur	5.0	0.5	10.0	< 0.1	0.6	0.6	1.5
23	Water smartweed	5.0	0.3	5.0	< 0.1	0.4	0.4	1.3
24	Dandelion	5.0	0.3	5.0	< 0.1	0.2	0.2	1.2
25	Field horsetail	5.0	0.3	5.0	< 0.1	0.2	0.2	1.2
26	Stinkweed	5.0	0.3	5.0	< 0.1	0.2	0.2	1.2
27	Russian thistle	5.0	0.3	5.0	< 0.1	0.2	0.2	1.2
28	Alfalfa	5.0	0.3	5.0	< 0.1	0.2	0.2	1.2
29	Canary grass	5.0	0.3	5.0	< 0.1	0.2	0.2	1.2

Table 32. 2000s Oats (317 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	59.5	28.4	47.8	20.8	35.0	575.8	64.9
2	Wild buckwheat	63.4	22.5	35.4	4.4	7.0	112.2	31.5
3	Wild oats	43.9	16.4	37.4	3.7	8.4	91.0	23.4
4	Lamb's-quarters	32.2	9.6	29.9	3.3	10.4	564.4	17.0
5	Canada thistle	44.2	9.9	22.3	1.1	2.5	18.2	14.9
6	Dandelion	27.4	7.2	26.4	1.0	3.6	42.4	10.5
7	Stinkweed	19.8	6.0	30.2	1.7	8.5	135.6	9.8
8	Chickweed	11.0	4.9	44.5	2.1	19.0	150.8	8.5
9	Barnyard grass	16.8	4.5	26.8	1.6	9.5	167.0	8.3
10	Redroot pigweed	20.1	4.8	23.8	1.2	5.9	168.2	8.2
11	Quack grass	13.5	3.6	26.8	1.4	10.3	139.8	6.9
12	Pale smartweed	17.3	4.5	25.4	0.7	3.8	31.0	6.6
13	Wheat	17.4	4.2	23.8	0.6	3.6	31.8	6.4
14	Hemp-nettle	12.2	4.1	33.6	1.0	8.0	75.4	6.2
15	Barley	12.7	3.6	28.7	0.7	5.6	71.4	5.5
16	Field horsetail	11.3	3.6	31.8	0.7	6.1	20.6	5.2
17	Canola/rapeseed	13.1	3.3	25.3	0.5	3.9	37.2	5.0
18	Cleavers	11.0	2.6	23.5	0.3	2.9	25.4	3.9
19	Wild mustard	11.4	2.1	18.8	0.3	3.0	45.2	3.7
20	Perennial sow-thistle	12.7	2.0	15.7	0.2	1.5	8.4	3.6
21	Russian thistle	9.3	2.0	21.0	0.3	2.7	13.8	3.1
22	Shepherd's-purse	8.8	1.5	17.6	0.3	3.1	41.4	2.8
23	Kochia	8.2	1.5	18.7	0.2	2.8	24.2	2.7
24	Alfalfa	5.3	2.1	40.3	0.3	5.5	27.2	2.6
25	Narrow-leaved hawk's-beard	7.3	1.6	21.4	0.3	3.7	54.0	2.6
26	Flax	3.4	1.1	33.3	0.6	18.5	161.6	2.4
27	Round-leaved mallow	7.2	1.5	20.5	0.2	2.4	13.0	2.3
28	Flixweed	4.1	1.0	24.3	0.5	13.3	133.2	2.3
29	Corn spurry	1.8	1.1	62.6	0.7	37.5	182.4	2.2
30	Spiny annual sow-thistle	7.1	1.3	18.0	0.1	1.4	11.4	2.1
31	Night-flowering catchfly	5.6	1.1	19.6	0.1	2.0	11.0	1.8
32	Bluebur	5.5	1.0	18.1	0.1	1.6	9.2	1.7
33	Thyme-leaved spurge	4.9	1.0	19.6	0.1	2.3	14.4	1.6
34	Clover species	3.3	1.0	31.8	0.2	5.0	24.0	1.4
35	Persian darnel	0.6	0.4	64.2	0.5	81.2	142.6	1.3
36	Pineappleweed	2.7	0.8	27.3	0.2	7.5	35.6	1.3
37	Stork's-bill	2.1	0.9	40.5	0.2	8.7	25.6	1.2
38	Rose species	4.5	0.4	9.3	< 0.1	1.0	4.2	1.1
39	Broad-leaved plantain	2.5	0.6	22.7	0.1	2.5	14.4	0.9
40	Prostrate knotweed	3.5	0.4	10.1	< 0.1	0.7	1.6	0.8
41	Yellow sweet-clover	1.4	0.6	45.6	0.1	6.3	16.6	0.7
42	Rough cinquefoil	1.3	0.4	32.1	0.1	10.3	38.6	0.7
43	Common groundsel	1.9	0.4	23.6	0.1	3.3	12.4	0.7
44	Black medick	1.5	0.5	34.3	0.1	5.0	15.6	0.7
45	Vetch species	1.9	0.3	17.8	< 0.1	1.6	5.4	0.6
46	Knawel	1.0	0.4	39.6	0.1	9.4	22.4	0.5
47	Cow cockle	1.5	0.3	21.3	< 0.1	1.3	2.2	0.5
48	Foxtail barley	2.2	0.1	5.8	< 0.1	0.3	0.6	0.4
49	Biennial wormwood	1.6	0.2	11.8	< 0.1	0.9	3.2	0.4
50	American dragonhead	1.9	0.1	6.7	< 0.1	0.3	0.6	0.4
51	Low cudweed	0.9	0.1	13.4	0.1	7.9	17.2	0.4
52	White cockle	1.3	0.1	11.1	< 0.1	1.2	3.6	0.3
53	Borage	0.3	0.3	100.0	0.1	21.4	21.4	0.3
54	White mustard	0.6	0.3	42.8	< 0.1	3.4	5.0	0.3

(Table continued on next page)

**Field Survey Summary Tables – 2000s Oats**

Table 32. 2000s Oats (317 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Field peas	0.6	0.3	43.1	< 0.1	2.9	4.8	0.3
56	Dock species	1.3	0.1	6.3	< 0.1	0.4	0.4	0.3
57	Showy milkweed	1.0	0.1	10.0	< 0.1	0.9	1.8	0.2
58	Russian pigweed	0.7	0.1	16.7	< 0.1	1.2	2.4	0.2
59	Willowherb species	0.6	0.2	24.5	< 0.1	1.8	3.4	0.2
60	Wild tomato	0.7	0.1	17.3	< 0.1	1.7	2.6	0.2
61	Common pepper-grass	0.9	0.1	5.8	< 0.1	0.4	0.7	0.2
62	Water smartweed	0.7	0.1	15.7	< 0.1	0.9	1.0	0.2
63	Prickly lettuce	0.6	0.1	20.0	< 0.1	0.9	1.0	0.2
64	Bicknell's geranium	0.6	0.1	15.0	< 0.1	1.4	1.8	0.2
65	Milk-vetch species	0.6	0.1	15.0	< 0.1	0.6	0.6	0.2
66	Scentless chamomile	0.6	0.1	12.6	< 0.1	1.1	1.2	0.2
67	Common yarrow	0.6	0.1	12.1	< 0.1	0.6	0.8	0.2
68	Corn	0.6	0.1	9.8	< 0.1	0.7	1.2	0.1
69	Scouring-rush	0.7	0.1	7.8	< 0.1	0.5	0.8	0.1
70	Sunflower species	0.6	< 0.1	7.3	< 0.1	0.4	0.4	0.1
71	Dog mustard	0.6	< 0.1	5.0	< 0.1	0.4	0.6	0.1
72	Common ragweed	0.6	< 0.1	5.0	< 0.1	0.3	0.4	0.1
73	Perennial rye grass	0.3	0.1	40.0	< 0.1	3.8	3.8	0.1
74	Tumble pigweed	0.3	0.1	25.0	< 0.1	1.8	1.8	0.1
75	Canary grass	0.3	0.1	30.0	< 0.1	3.0	3.0	0.1
76	Proso millet	0.3	< 0.1	15.0	< 0.1	2.6	2.6	0.1
77	Redtop	0.3	< 0.1	15.0	< 0.1	1.0	1.0	0.1
78	Bladder campion	0.3	< 0.1	10.0	< 0.1	0.6	0.6	0.1
79	Timothy	0.3	< 0.1	15.0	< 0.1	1.8	1.8	0.1
80	Rye	0.3	< 0.1	10.0	< 0.1	2.2	2.2	0.1
81	Coriander	0.3	< 0.1	15.0	< 0.1	0.6	0.6	0.1
82	Cocklebur	0.3	< 0.1	10.0	< 0.1	1.2	1.2	0.1
83	Prostrate pigweed	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
84	Blue grass species	0.3	< 0.1	5.0	< 0.1	1.2	1.2	0.1
85	Witch grass	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
86	Smooth brome	0.3	< 0.1	5.0	< 0.1	0.8	0.8	0.1
87	Ball mustard	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
88	Blue lettuce	0.3	< 0.1	8.8	< 0.1	0.6	0.6	0.1
89	Rayless aster	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
90	Vetchling species	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
91	Tansy	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
92	Absinth	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
93	Yellow toadflax	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
94	Yellow foxtail	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
95	Field bean	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 33. 2000s Oats in the Peace Lowland Ecoregion (17 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	58.3	29.9	51.4	11.1	19.1	66.8	36.1
2	Dandelion	77.4	29.5	38.1	5.3	6.8	42.4	28.7
3	Field horsetail	60.1	28.8	48.0	5.8	9.7	17.0	27.2
4	Stinkweed	45.4	21.7	47.7	5.4	12.0	53.4	22.2
5	Wild buckwheat	51.4	20.1	39.1	2.8	5.4	25.6	18.0
6	Hemp-nettle	42.3	15.1	35.7	3.8	9.1	34.6	16.8
7	Narrow-leaved hawk's-beard	40.8	12.1	29.6	3.7	9.0	54.0	15.3
8	Pineappleweed	39.6	10.5	26.5	2.6	6.6	35.6	12.8
9	Shepherd's-purse	30.6	10.6	34.8	3.2	10.4	41.4	12.7
10	Canada thistle	48.4	8.7	17.9	1.5	3.0	9.8	11.3
11	Wild oats	29.5	8.6	29.0	2.7	9.2	39.2	11.1
12	Cleavers	35.0	10.1	29.0	1.7	5.0	25.4	10.7
13	Canola/rapeseed	17.3	10.5	60.8	2.6	15.0	32.2	10.2
14	Lamb's-quarters	28.5	8.5	29.7	1.1	4.0	8.2	8.4
15	Pale smartweed	30.1	5.0	16.7	0.5	1.6	5.6	6.2
16	Common groundsel	17.1	6.8	39.8	1.0	6.0	12.4	6.2
17	Alfalfa	5.4	5.4	100.0	1.5	27.2	27.2	5.0
18	Broad-leaved plantain	11.3	5.5	48.7	0.8	7.4	14.4	4.7
19	Clover species	17.4	4.9	28.3	0.3	2.0	3.0	4.4
20	Low cudweed	11.5	2.0	17.7	1.4	11.8	17.2	4.3
21	Barley	12.6	3.7	29.5	0.7	5.3	11.2	4.0
22	Rose species	17.1	1.7	9.9	0.1	0.8	1.4	2.9
23	Willowherb species	11.5	2.8	24.5	0.2	1.8	3.4	2.7
24	Wheat	17.8	0.9	5.0	0.1	0.3	0.6	2.5
25	Perennial sow-thistle	5.4	2.7	50.0	0.4	6.8	6.8	2.2
26	Common yarrow	11.9	1.4	12.1	0.1	0.6	0.8	2.1
27	Rough cinquefoil	12.3	1.2	9.9	< 0.1	0.4	0.6	2.0
28	Bluebur	12.9	0.9	7.3	< 0.1	0.3	0.4	1.9
29	Quack grass	6.3	1.3	20.0	0.1	1.2	1.2	1.3
30	Redtop	5.9	0.9	15.0	0.1	1.0	1.0	1.1
31	Milk-vetch species	5.9	0.9	15.0	< 0.1	0.6	0.6	1.1
32	Prostrate pigweed	6.0	0.6	10.0	< 0.1	0.4	0.4	1.0
33	Prostrate knotweed	5.9	0.6	10.0	< 0.1	0.6	0.6	1.0
34	Foxtail barley	5.9	0.3	5.0	< 0.1	0.2	0.2	0.8
35	Vetchling species	5.9	0.3	5.0	< 0.1	0.2	0.2	0.8

**Field Survey Summary Tables – 2000s Oats**

Table 34. 2000s Oats in the Boreal Transition Ecoregion (44 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	76.6	37.3	48.7	10.7	13.9	102.4	41.3
2	Wild oats	51.4	24.7	48.1	6.6	12.8	91.0	26.7
3	Stinkweed	31.6	13.3	42.0	7.4	23.3	135.6	21.2
4	Hemp-nettle	36.4	15.2	41.8	4.4	12.0	75.4	17.5
5	Dandelion	53.1	17.9	33.7	2.3	4.3	21.6	17.2
6	Canada thistle	50.7	15.6	30.8	1.7	3.4	14.6	15.1
7	Chickweed	25.2	11.1	43.8	4.0	15.7	75.6	13.9
8	Quack grass	26.5	9.0	34.0	3.9	14.7	114.0	13.1
9	Lamb's-quarters	38.0	11.4	29.9	1.8	4.7	42.2	12.0
10	Pale smartweed	27.2	10.5	38.5	1.8	6.6	31.0	10.3
11	Field horsetail	34.5	8.4	24.2	1.2	3.5	14.4	9.5
12	Green foxtail	27.5	8.6	31.4	1.6	5.9	18.8	9.4
13	Alfalfa	22.4	10.7	48.0	1.3	5.9	13.4	9.0
14	Canola/rapeseed	23.7	7.6	32.0	1.6	6.6	37.2	8.4
15	Cleavers	28.4	3.8	13.3	0.6	1.9	10.6	5.9
16	Wheat	17.1	6.2	36.5	0.7	4.3	16.2	5.7
17	Barley	18.2	5.4	29.5	0.8	4.1	18.6	5.5
18	Narrow-leaved hawk's-beard	20.1	4.9	24.5	0.4	2.0	10.6	5.0
19	Redroot pigweed	8.7	4.2	48.6	1.4	16.3	54.2	5.0
20	Perennial sow-thistle	21.7	4.3	20.0	0.4	1.8	6.8	5.0
21	Corn spurry	10.5	5.9	55.9	0.8	7.4	16.8	4.8
22	Clover species	9.1	4.4	48.8	0.9	10.5	24.0	4.4
23	Shepherd's-purse	19.5	2.8	14.5	0.3	1.6	6.8	4.0
24	Wild mustard	17.5	3.0	17.3	0.3	1.9	8.2	3.9
25	Rough cinquefoil	2.3	2.3	100.0	0.9	38.6	38.6	2.7
26	Bluebur	9.3	2.5	27.4	0.2	1.8	5.0	2.4
27	Yellow sweet-clover	4.8	2.7	56.1	0.4	9.0	16.6	2.3
28	Vetch species	9.2	2.1	22.7	0.2	2.2	5.4	2.3
29	Knawel	2.6	1.9	75.0	0.6	22.4	22.4	2.0
30	Night-flowering catchfly	9.1	1.3	14.0	0.1	1.2	3.6	1.8
31	Borage	2.0	2.0	100.0	0.4	21.4	21.4	1.7
32	Round-leaved mallow	4.5	1.9	43.6	0.2	5.2	9.6	1.7
33	White cockle	7.0	0.8	11.5	0.1	1.5	3.6	1.4
34	Broad-leaved plantain	6.7	0.8	12.0	0.1	0.8	1.0	1.2
35	Spiny annual sow-thistle	2.3	1.1	45.0	0.1	3.4	3.4	0.8
36	American dragonhead	4.3	0.4	10.2	< 0.1	0.4	0.6	0.7
37	Barnyard grass	4.4	0.2	5.0	< 0.1	0.3	0.4	0.7
38	Flax	2.2	0.8	35.0	0.1	2.6	2.6	0.6
39	Cow cockle	2.6	0.5	20.0	< 0.1	0.8	0.8	0.6
40	Bicknell's geranium	2.1	0.4	20.0	< 0.1	1.0	1.0	0.5
41	Russian pigweed	2.7	0.1	5.0	< 0.1	0.2	0.2	0.4
42	Blue grass species	2.4	0.1	5.0	< 0.1	1.2	1.2	0.4
43	Ball mustard	2.1	0.2	10.0	< 0.1	0.4	0.4	0.4
44	Common groundsel	2.3	0.1	5.0	< 0.1	0.2	0.2	0.3
45	Common pepper-grass	2.2	0.1	5.0	< 0.1	0.2	0.2	0.3
46	Foxtail barley	2.2	0.1	5.0	< 0.1	0.2	0.2	0.3
47	Low cudweed	2.2	0.1	5.0	< 0.1	0.2	0.2	0.3



Table 35. 2000s Oats in the Aspen Parkland Ecoregion (143 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	71.1	39.8	55.9	36.7	51.6	575.8	95.5
2	Wild buckwheat	60.2	19.5	32.4	2.9	4.9	112.2	27.9
3	Wild oats	40.8	15.1	36.9	3.1	7.6	75.8	21.9
4	Lamb's-quarters	29.2	8.9	30.3	5.0	17.1	564.4	18.7
5	Canada thistle	47.7	10.4	21.8	1.1	2.2	13.0	17.0
6	Redroot pigweed	18.1	4.6	25.6	1.7	9.3	168.2	8.9
7	Barley	16.2	5.0	31.0	1.2	7.3	71.4	8.0
8	Chickweed	8.2	3.4	41.6	2.0	24.8	150.8	6.8
9	Stinkweed	16.7	3.8	22.6	0.5	2.8	15.4	6.2
10	Dandelion	16.4	3.6	21.9	0.5	2.9	21.8	6.0
11	Wheat	15.2	3.4	22.6	0.6	4.0	31.8	5.9
12	Barnyard grass	12.8	2.3	18.0	0.5	4.2	38.0	4.6
13	Cleavers	10.7	3.3	31.2	0.3	3.1	7.2	4.6
14	Pale smartweed	11.1	2.9	25.9	0.5	4.1	20.6	4.6
15	Wild mustard	13.8	2.2	16.0	0.3	2.3	15.2	4.4
16	Flax	4.3	1.8	42.3	1.4	32.0	161.6	4.1
17	Flixweed	5.8	1.6	26.8	1.1	18.6	133.2	3.7
18	Canola/rapeseed	10.9	2.1	19.4	0.2	2.2	13.0	3.7
19	Perennial sow-thistle	11.7	2.0	16.9	0.2	1.6	8.4	3.7
20	Quack grass	9.7	1.9	19.8	0.3	3.3	12.8	3.5
21	Hemp-nettle	6.4	2.2	34.6	0.3	4.9	20.0	3.0
22	Russian thistle	10.3	1.4	13.5	0.2	1.7	8.0	3.0
23	Shepherd's-purse	9.9	1.3	13.0	0.1	1.4	7.2	2.8
24	Spiny annual sow-thistle	7.6	1.6	21.4	0.2	2.0	11.4	2.7
25	Corn spurry	0.7	0.7	95.0	1.3	182.4	182.4	2.6
26	Field horsetail	5.7	1.5	25.7	0.3	5.4	16.0	2.4
27	Round-leaved mallow	6.4	1.3	19.9	0.2	2.8	11.0	2.3
28	Night-flowering catchfly	5.6	1.2	21.1	0.1	2.3	5.6	2.0
29	Kochia	6.8	0.9	13.8	0.1	1.0	2.6	2.0
30	Prostrate knotweed	7.2	0.7	10.1	< 0.1	0.7	1.6	1.9
31	Bluebur	6.1	1.0	15.8	0.1	1.2	4.6	1.8
32	Black medick	2.8	1.1	38.5	0.2	5.8	15.6	1.4
33	Stork's-bill	2.8	0.9	32.4	0.2	7.0	23.8	1.4
34	Narrow-leaved hawk's-beard	3.5	0.3	8.7	< 0.1	0.7	2.2	0.9
35	Pineappleweed	1.4	0.4	30.0	0.1	10.6	19.8	0.8
36	Rose species	2.9	0.3	9.0	< 0.1	0.7	1.0	0.7
37	Biennial wormwood	2.1	0.3	16.3	< 0.1	1.3	3.2	0.6
38	Persian darnel	0.7	0.2	30.0	0.2	22.4	22.4	0.5
39	Wild tomato	1.5	0.3	17.3	< 0.1	1.7	2.6	0.5
40	Clover species	1.5	0.2	15.1	< 0.1	1.1	1.6	0.5
41	White mustard	0.7	0.4	50.0	< 0.1	5.0	5.0	0.4
42	Knawel	1.3	0.2	17.3	< 0.1	1.2	2.2	0.4
43	Common groundsel	1.5	0.1	10.2	< 0.1	0.9	1.6	0.4
44	Alfalfa	1.3	0.1	10.0	< 0.1	1.1	1.8	0.4
45	Foxtail barley	1.4	0.1	7.8	< 0.1	0.4	0.6	0.3
46	Russian pigweed	0.8	0.2	30.0	< 0.1	2.4	2.4	0.3
47	Common ragweed	1.4	0.1	5.0	< 0.1	0.3	0.4	0.3
48	American dragonhead	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3
49	Perennial rye grass	0.6	0.2	40.0	< 0.1	3.8	3.8	0.3
50	Tumble pigweed	0.7	0.2	25.0	< 0.1	1.8	1.8	0.3
51	Canary grass	0.6	0.2	30.0	< 0.1	3.0	3.0	0.3
52	Field peas	0.7	0.1	20.0	< 0.1	1.0	1.0	0.2
53	Scentless chamomile	0.7	0.1	15.0	< 0.1	1.0	1.0	0.2
54	White cockle	0.8	0.1	10.0	< 0.1	0.4	0.4	0.2

(Table continued on next page)

**Field Survey Summary Tables – 2000s Oats**

Table 35. 2000s Oats in the Aspen Parkland Ecoregion (143 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Rye	0.7	0.1	10.0	< 0.1	2.2	2.2	0.2
56	Cow cockle	0.4	0.1	30.0	< 0.1	2.2	2.2	0.2
57	Smooth brome	0.7	< 0.1	5.0	< 0.1	0.8	0.8	0.2
58	Thyme-leaved spurge	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.2
59	Rayless aster	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
60	Sunflower species	0.6	0.1	10.0	< 0.1	0.4	0.4	0.2
61	Vetch species	0.7	< 0.1	5.0	< 0.1	0.6	0.6	0.2
62	Dog mustard	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
63	Tansy	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
64	Rough cinquefoil	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.2
65	Yellow toadflax	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.1
66	Scouring-rush	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Common pepper-grass	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 36. 2000s Oats in the Moist Mixed Grassland Ecoregion (29 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	53.8	25.0	46.4	17.0	31.7	243.0	86.6
2	Wild buckwheat	45.7	13.3	29.2	5.2	11.3	100.0	38.0
3	Wild oats	27.4	10.0	36.4	2.6	9.6	51.4	23.1
4	Canada thistle	41.4	8.2	19.7	1.2	2.8	16.4	20.1
5	Lamb's-quarters	36.5	8.9	24.5	1.1	3.1	19.8	19.7
6	Kochia	27.6	7.9	28.8	1.7	6.2	24.2	18.6
7	Russian thistle	27.8	6.4	23.0	1.0	3.6	13.8	15.0
8	Redroot pigweed	24.3	6.3	26.0	0.7	3.0	9.6	13.4
9	Stinkweed	25.5	5.7	22.5	0.7	2.9	9.2	13.1
10	Rose species	21.0	1.8	7.7	0.2	1.0	4.2	7.0
11	Barnyard grass	9.9	3.6	36.7	0.3	3.3	4.4	6.5
12	Round-leaved mallow	13.2	2.1	16.1	0.1	1.0	3.2	5.3
13	Canola/rapeseed	9.9	2.7	27.4	0.1	1.5	4.0	5.1
14	Wheat	9.9	0.8	8.4	< 0.1	0.3	0.4	3.1
15	Bluebur	3.3	1.2	35.0	0.3	9.2	9.2	2.7
16	Perennial sow-thistle	6.6	0.7	11.3	< 0.1	0.7	1.0	2.3
17	Spiny annual sow-thistle	6.5	0.5	7.6	< 0.1	0.4	0.6	2.0
18	Biennial wormwood	6.7	0.3	5.0	< 0.1	0.2	0.2	1.8
19	Dandelion	6.6	0.3	5.0	< 0.1	0.3	0.4	1.8
20	Thyme-leaved spurge	6.6	0.3	5.0	< 0.1	0.2	0.2	1.8
21	Foxtail barley	6.5	0.3	5.0	< 0.1	0.2	0.2	1.8
22	Barley	3.2	1.0	30.0	< 0.1	1.2	1.2	1.7
23	Pale smartweed	3.3	0.8	25.0	0.1	2.2	2.2	1.7
24	Cow cockle	3.3	0.7	20.0	< 0.1	1.2	1.2	1.4
25	Scouring-rush	3.9	0.4	10.0	< 0.1	0.8	0.8	1.3
26	Flixweed	4.4	0.2	5.0	< 0.1	0.2	0.2	1.2
27	Quack grass	3.3	0.3	10.0	< 0.1	0.4	0.4	1.1
28	Flax	3.3	0.2	5.0	< 0.1	0.4	0.4	0.9
29	Wild mustard	3.3	0.2	5.0	< 0.1	0.2	0.2	0.9
30	Cleavers	3.2	0.2	5.0	< 0.1	0.2	0.2	0.9

Table 37. 2000s Oats in the Mixed Grassland Ecoregion (16 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Lamb's-quarters	52.5	27.3	51.9	10.1	19.2	118.2	56.9
2	Green foxtail	62.3	25.6	41.1	4.6	7.3	20.0	41.7
3	Wild buckwheat	53.8	25.5	47.4	3.4	6.3	19.8	36.5
4	Persian darnel	5.7	5.7	100.0	8.1	142.6	142.6	28.4
5	Russian thistle	38.4	13.3	34.6	1.4	3.7	9.4	20.1
6	Stinkweed	43.2	12.0	27.9	1.0	2.4	6.6	19.1
7	Wild oats	34.1	9.0	26.4	1.3	3.9	9.4	16.2
8	Kochia	34.8	4.9	14.1	0.5	1.4	6.6	11.3
9	Redroot pigweed	32.8	4.0	12.1	0.2	0.6	1.4	9.4
10	Flixweed	14.2	4.7	33.2	1.1	8.1	19.4	9.1
11	Wheat	14.2	4.7	33.0	0.8	5.6	7.6	8.1
12	Dandelion	16.5	2.2	13.3	0.2	1.0	2.4	5.1
13	Canada thistle	16.9	1.4	8.4	0.1	0.6	0.9	4.5
14	Field peas	5.7	3.7	65.0	0.3	4.8	4.8	4.2
15	Cow cockle	11.4	2.3	20.0	0.1	1.3	1.4	4.1
16	Quack grass	6.9	1.4	20.0	0.5	7.0	7.0	3.6
17	Bluebur	9.1	1.2	11.8	0.1	0.8	1.4	2.8
18	Rose species	6.1	1.2	20.0	0.2	3.6	3.6	2.6
19	White mustard	5.6	1.9	35.0	0.1	1.6	1.6	2.6
20	Prickly lettuce	5.7	1.1	20.0	0.1	1.0	1.0	2.0
21	Wild mustard	5.2	1.0	20.0	0.1	1.0	1.0	1.8
22	Vetch species	5.7	0.6	10.0	< 0.1	0.4	0.4	1.5
23	Narrow-leaved hawk's-beard	5.2	0.5	10.0	< 0.1	0.7	0.7	1.4
24	Blue lettuce	5.2	0.5	8.8	< 0.1	0.6	0.6	1.4
25	Common pepper-grass	5.2	0.4	7.5	< 0.1	0.7	0.7	1.4
26	Spiny annual sow-thistle	5.7	0.3	5.0	< 0.1	0.2	0.2	1.3
27	Foxtail barley	5.7	0.3	5.0	< 0.1	0.2	0.2	1.3
28	Perennial sow-thistle	5.2	0.3	5.0	< 0.1	0.5	0.5	1.3
29	Pale smartweed	1.3	0.1	1.3	< 0.1	0.1	0.1	0.3

**Field Survey Summary Tables – 2000s Oats**

Table 38. 2000s Oats in the Lake Manitoba Plain Ecoregion (58 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	75.8	28.5	37.6	12.3	16.3	201.2	63.3
2	Wild buckwheat	76.0	21.8	28.7	4.0	5.2	80.6	37.1
3	Wild oats	62.3	22.1	35.5	4.5	7.2	53.8	36.4
4	Barnyard grass	44.5	13.7	30.7	6.4	14.3	167.0	32.9
5	Quack grass	15.6	4.5	29.1	3.3	21.3	139.8	14.2
6	Canada thistle	39.7	7.0	17.6	0.9	2.2	18.2	13.4
7	Wheat	29.5	7.5	25.3	1.1	3.8	21.0	12.6
8	Dandelion	33.0	6.6	20.0	0.8	2.6	20.8	11.9
9	Redroot pigweed	32.4	6.9	21.3	0.8	2.5	7.8	11.9
10	Pale smartweed	27.3	5.1	18.8	0.4	1.6	9.8	8.9
11	Thyme-leaved spurge	22.3	5.1	23.1	0.6	2.8	14.4	8.6
12	Lamb's-quarters	22.2	3.9	17.3	0.4	1.8	11.6	7.2
13	Wild mustard	8.6	2.3	26.9	0.7	8.6	45.2	4.9
14	Round-leaved mallow	13.7	2.4	17.5	0.3	1.9	13.0	4.5
15	Canola/rapeseed	13.5	2.0	14.6	0.2	1.2	3.8	3.9
16	Perennial sow-thistle	14.7	1.3	8.9	0.1	1.0	4.4	3.6
17	Stork's-bill	3.2	2.5	76.8	0.5	16.7	25.6	3.5
18	Spiny annual sow-thistle	8.3	1.3	15.3	0.1	0.9	1.8	2.4
19	Barley	5.2	1.1	20.1	0.1	2.7	5.8	1.9
20	Flax	5.1	1.2	23.3	0.1	1.5	2.2	1.8
21	Hemp-nettle	6.8	0.6	8.5	< 0.1	0.6	1.4	1.6
22	Chickweed	3.4	1.0	30.0	0.1	3.2	5.2	1.5
23	Kochia	3.8	0.6	15.5	< 0.1	1.2	1.8	1.1
24	Night-flowering catchfly	5.0	0.3	5.0	< 0.1	0.2	0.2	1.0
25	Broad-leaved plantain	3.4	0.4	12.5	< 0.1	0.6	1.0	0.9
26	Corn	3.5	0.3	9.8	< 0.1	0.7	1.2	0.9
27	Dock species	3.4	0.2	5.0	< 0.1	0.3	0.4	0.7
28	Stinkweed	3.4	0.2	5.0	< 0.1	0.2	0.2	0.7
29	Proso millet	1.7	0.3	15.0	< 0.1	2.6	2.6	0.6
30	Bicknell's geranium	1.7	0.2	10.0	< 0.1	1.8	1.8	0.5
31	Coriander	1.7	0.3	15.0	< 0.1	0.6	0.6	0.5
32	Prickly lettuce	1.5	0.3	20.0	< 0.1	0.8	0.8	0.5
33	Cocklebur	1.7	0.2	10.0	< 0.1	1.2	1.2	0.4
34	Scentless chamomile	1.7	0.2	10.0	< 0.1	1.2	1.2	0.4
35	Showy milkweed	1.8	0.2	10.0	< 0.1	0.6	0.6	0.4
36	Black medick	1.5	0.2	15.0	< 0.1	1.0	1.0	0.4
37	Sunflower species	1.9	0.1	5.0	< 0.1	0.4	0.4	0.4
38	Field horsetail	1.5	0.1	10.0	< 0.1	1.0	1.0	0.4
39	Water smartweed	1.7	0.1	5.0	< 0.1	0.8	0.8	0.4
40	Dog mustard	1.7	0.1	5.0	< 0.1	0.6	0.6	0.4
41	Absinth	1.7	0.1	5.0	< 0.1	0.4	0.4	0.4
42	American dragonhead	1.7	0.1	5.0	< 0.1	0.2	0.2	0.3
43	Yellow foxtail	1.7	0.1	5.0	< 0.1	0.2	0.2	0.3
44	Field bean	1.7	0.1	5.0	< 0.1	0.2	0.2	0.3

Table 39. 2000s Canary grass (46 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	36.4	15.5	42.6	5.3	14.6	73.2	58.0
2	Redroot pigweed	30.4	10.0	32.8	5.4	17.7	179.2	50.5
3	Wild oats	43.6	9.5	21.8	1.2	2.9	12.6	28.6
4	Kochia	31.3	7.5	24.1	1.1	3.7	31.0	22.9
5	Wild buckwheat	43.9	6.7	15.3	0.4	0.9	3.0	20.4
6	Canada thistle	30.1	5.0	16.5	0.6	1.9	15.4	16.3
7	Stinkweed	21.1	3.4	16.3	0.3	1.6	7.0	11.0
8	Dandelion	15.3	3.0	19.4	0.2	1.2	2.0	8.1
9	Lamb's-quarters	8.3	3.2	38.8	0.4	4.7	8.6	8.0
10	Wheat	10.5	2.6	24.8	0.3	3.1	8.2	7.4
11	Canola/rapeseed	14.8	2.2	15.0	0.1	0.8	3.4	6.8
12	Flax	2.9	1.5	50.0	0.4	12.0	12.0	4.5
13	Perennial sow-thistle	12.8	0.9	6.7	< 0.1	0.4	1.0	4.3
14	Barnyard grass	4.0	1.4	35.3	0.3	6.3	13.2	4.1
15	Russian thistle	8.6	1.4	16.2	0.1	0.8	1.6	4.1
16	Barley	2.1	2.0	95.0	0.2	9.0	9.0	4.0
17	Field horsetail	4.2	1.7	39.6	0.2	3.7	7.2	3.9
18	Cleavers	8.5	0.8	10.0	< 0.1	0.5	0.8	3.2
19	Foxtail barley	8.6	0.8	8.8	< 0.1	0.4	0.6	3.1
20	Cow cockle	8.8	0.7	7.5	< 0.1	0.3	0.6	3.0
21	Wild mustard	8.7	0.7	7.5	< 0.1	0.3	0.4	3.0
22	Flixweed	6.3	0.9	13.8	< 0.1	0.8	1.2	2.8
23	Pale smartweed	7.2	0.5	6.5	< 0.1	0.3	0.4	2.3
24	Shepherd's-purse	6.4	0.5	8.3	< 0.1	0.5	1.0	2.3
25	Hemp-nettle	6.4	0.5	8.4	< 0.1	0.5	1.0	2.3
26	Prostrate pigweed	5.1	0.4	7.1	< 0.1	0.3	0.4	1.7
27	Spiny annual sow-thistle	4.2	0.4	10.0	< 0.1	0.7	0.8	1.6
28	Chickweed	4.2	0.3	7.5	< 0.1	0.3	0.4	1.4
29	Field peas	4.2	0.3	7.5	< 0.1	0.3	0.4	1.4
30	Biennial wormwood	4.3	0.2	5.0	< 0.1	0.3	0.4	1.4
31	Prickly lettuce	4.3	0.2	5.0	< 0.1	0.2	0.2	1.3
32	Common pepper-grass	4.2	0.2	5.0	< 0.1	0.3	0.4	1.3
33	White mustard	2.0	0.3	15.0	< 0.1	1.0	1.0	0.9
34	Night-flowering catchfly	2.1	0.3	15.0	< 0.1	0.6	0.6	0.9
35	Alfalfa	2.1	0.2	10.0	< 0.1	0.4	0.4	0.8
36	Thyme-leaved spurge	2.2	0.1	5.0	< 0.1	0.2	0.2	0.7
37	Purslane speedwell	2.2	0.1	5.0	< 0.1	0.2	0.2	0.7
38	Black medick	2.1	0.1	5.0	< 0.1	0.2	0.2	0.7
39	Vetch species	2.1	0.1	5.0	< 0.1	0.2	0.2	0.6

**Field Survey Summary Tables – 2000s Canary Grass**

Table 40. 2000s Canary grass in the Moist Mixed Grassland Ecoregion (23 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Redroot pigweed	35.9	17.1	47.7	10.4	29.1	179.2	91.2
2	Green foxtail	25.7	12.3	47.7	4.5	17.5	73.2	49.3
3	Wild oats	38.8	6.0	15.6	0.6	1.6	5.2	23.6
4	Kochia	27.1	7.9	29.2	0.8	2.9	6.6	23.6
5	Canada thistle	26.0	4.5	17.5	0.4	1.5	4.2	16.3
6	Wild buckwheat	27.2	4.2	15.4	0.2	0.9	2.0	15.3
7	Stinkweed	21.0	3.1	14.9	0.3	1.4	5.0	12.3
8	Dandelion	17.3	3.9	22.5	0.3	1.6	2.0	12.1
9	Flax	5.8	2.9	50.0	0.7	12.0	12.0	9.6
10	Perennial sow-thistle	21.4	1.5	7.0	0.1	0.4	1.0	8.9
11	Canola/rapeseed	12.6	0.8	6.6	0.1	0.4	0.8	5.2
12	Prostrate pigweed	10.2	0.7	7.1	< 0.1	0.3	0.4	4.2
13	Pale smartweed	10.1	0.7	7.1	< 0.1	0.3	0.4	4.2
14	Foxtail barley	8.5	0.6	7.5	< 0.1	0.3	0.4	3.6
15	Biennial wormwood	8.7	0.4	5.0	< 0.1	0.3	0.4	3.3
16	Prickly lettuce	8.7	0.4	5.0	< 0.1	0.2	0.2	3.3
17	Flixweed	4.3	0.6	15.0	0.1	1.2	1.2	2.5
18	Alfalfa	4.2	0.4	10.0	< 0.1	0.4	0.4	1.9
19	Thyme-leaved spurge	4.3	0.2	5.0	< 0.1	0.2	0.2	1.6
20	Wheat	4.3	0.2	5.0	< 0.1	0.2	0.2	1.6
21	Cow cockle	4.2	0.2	5.0	< 0.1	0.2	0.2	1.6
22	Wild mustard	4.2	0.2	5.0	< 0.1	0.2	0.2	1.6
23	Common pepper-grass	4.2	0.2	5.0	< 0.1	0.2	0.2	1.6
24	Russian thistle	4.2	0.2	5.0	< 0.1	0.2	0.2	1.6

Table 41. 2000s Canary grass in the Mixed Grassland Ecoregion (11 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	44.9	25.9	57.5	8.8	19.6	43.8	80.1
2	Wild oats	62.6	19.5	31.1	3.2	5.2	12.6	49.6
3	Kochia	64.0	13.7	21.4	3.0	4.7	31.0	43.2
4	Wild buckwheat	53.6	8.0	14.9	0.4	0.8	1.8	22.1
5	Canada thistle	8.1	5.7	70.0	1.3	15.4	15.4	13.7
6	Russian thistle	26.5	5.2	19.8	0.3	1.1	1.6	12.5
7	Stinkweed	17.3	3.7	21.5	0.6	3.4	7.0	10.5
8	Wheat	8.7	4.4	50.0	0.7	8.2	8.2	9.9
9	Cow cockle	27.5	2.3	8.3	0.1	0.4	0.6	9.1
10	Lamb's-quarters	8.1	3.7	45.0	0.6	7.4	7.4	8.5
11	Redroot pigweed	25.3	2.1	8.2	0.1	0.4	0.6	8.3
12	Dandelion	17.9	3.2	17.7	0.1	0.8	0.8	7.9
13	Wild mustard	18.4	1.4	7.5	0.1	0.3	0.4	5.8
14	Flixweed	9.1	1.8	20.0	0.1	0.8	0.8	4.2
15	White mustard	8.1	1.2	15.0	0.1	1.0	1.0	3.5
16	Foxtail barley	9.1	0.9	10.0	< 0.1	0.4	0.4	3.2
17	Field peas	8.4	0.8	10.0	< 0.1	0.4	0.4	2.9
18	Common pepper-grass	8.6	0.4	5.0	< 0.1	0.4	0.4	2.6
19	Barnyard grass	8.7	0.4	5.0	< 0.1	0.2	0.2	2.5

Table 42. 2000s Canola/rapeseed (674 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	49.8	18.4	37.0	4.9	9.9	201.2	40.4
2	Wild buckwheat	60.0	17.2	28.7	2.1	3.6	97.8	31.5
3	Green foxtail	35.0	11.9	33.9	3.9	11.3	237.0	29.3
4	Lamb's-quarters	38.5	9.2	23.9	1.6	4.2	204.6	19.7
5	Canada thistle	42.3	8.1	19.0	0.8	1.9	18.2	16.6
6	Stinkweed	27.3	7.1	25.9	1.7	6.4	159.6	16.5
7	Wheat	19.8	6.2	31.4	1.9	9.4	280.8	14.9
8	Redroot pigweed	13.6	2.7	19.6	1.5	11.3	758.4	10.0
9	Cleavers	18.9	4.8	25.6	0.7	3.7	51.0	9.6
10	Chickweed	10.6	4.2	39.3	1.1	10.4	136.8	9.0
11	Field horsetail	14.8	3.8	25.4	0.8	5.1	49.8	8.2
12	Barnyard grass	9.0	2.1	23.8	1.4	15.4	582.8	8.1
13	Shepherd's-purse	16.4	3.8	23.0	0.5	3.1	42.4	7.7
14	Pale smartweed	16.5	2.9	17.6	0.5	2.8	93.2	6.9
15	Hemp-nettle	10.8	2.2	20.6	0.6	5.9	199.2	5.9
16	Dandelion	17.2	2.3	13.2	0.1	0.8	6.4	5.3
17	Perennial sow-thistle	15.4	2.1	13.8	0.1	0.9	5.6	4.9
18	Narrow-leaved hawk's-beard	8.5	1.8	21.4	0.5	6.3	137.2	4.8
19	Quack grass	9.5	2.4	25.5	0.4	3.8	44.6	4.8
20	Spiny annual sow-thistle	9.3	2.0	21.3	0.4	3.8	48.0	4.4
21	Kochia	9.3	2.1	22.9	0.2	2.4	22.2	4.1
22	Wild mustard	8.7	1.7	19.6	0.2	2.3	37.6	3.6
23	Russian thistle	7.0	1.5	21.6	0.2	2.2	15.8	3.0
24	Clover species	3.2	1.0	29.9	0.3	8.5	70.4	2.3
25	Barley	4.8	1.0	20.2	0.1	2.9	42.6	2.1
26	Pineappleweed	3.2	0.8	26.3	0.2	6.2	32.0	1.9
27	Common groundsel	4.9	1.0	20.3	0.1	1.7	7.2	1.9
28	Round-leaved mallow	5.4	0.8	15.3	0.1	1.5	8.4	1.9
29	Thyme-leaved spurge	3.3	0.6	19.0	0.1	2.0	8.0	1.3
30	Prostrate knotweed	3.7	0.5	14.8	< 0.1	1.1	4.8	1.2
31	Bluebur	3.8	0.5	12.4	< 0.1	1.1	9.6	1.2
32	Canola/rapeseed	2.6	0.6	22.0	0.1	2.5	15.8	1.1
33	Night-flowering catchfly	3.5	0.4	11.0	< 0.1	0.9	5.4	1.0
34	Flixweed	2.8	0.4	15.1	< 0.1	1.0	5.4	0.9
35	Flax	1.6	0.4	27.1	0.1	4.3	20.8	0.9
36	Alfalfa	1.7	0.4	21.4	0.1	3.7	35.8	0.8
37	Biennial wormwood	2.5	0.2	9.7	< 0.1	0.7	3.6	0.7
38	Prostrate pigweed	1.4	0.4	26.3	< 0.1	3.5	15.6	0.7
39	Stork's-bill	2.0	0.2	11.4	< 0.1	1.0	6.8	0.6
40	Black medick	1.2	0.3	24.1	< 0.1	3.9	15.2	0.6
41	American dragonhead	1.8	0.2	13.7	< 0.1	1.0	3.4	0.6
42	Ball mustard	1.0	0.2	23.5	0.1	5.1	28.8	0.6
43	Oats	0.7	0.3	39.0	0.1	7.3	22.0	0.5
44	Broad-leaved plantain	1.7	0.1	8.1	< 0.1	1.5	11.4	0.5
45	Rough cinquefoil	0.7	0.2	26.2	0.1	6.9	30.0	0.5
46	Wild tomato	1.2	0.1	11.6	< 0.1	1.8	11.2	0.4
47	Corn spurry	0.6	0.2	33.8	< 0.1	4.5	11.4	0.4
48	Yellow foxtail	0.5	0.1	27.9	< 0.1	10.9	28.6	0.4
49	Tumble pigweed	0.3	0.1	25.0	0.1	22.2	43.8	0.3
50	Dog mustard	0.7	0.1	18.6	< 0.1	3.6	8.8	0.3
51	Rose species	1.0	0.1	10.0	< 0.1	1.5	4.6	0.3
52	Lentils	0.6	0.2	34.1	< 0.1	2.4	4.4	0.3
53	Yellow sweet-clover	0.7	0.1	17.7	< 0.1	1.8	8.2	0.3
54	Foxtail barley	0.8	0.1	12.7	< 0.1	1.1	3.6	0.3

(Table continued on next page)

**Field Survey Summary Tables – 2000s Canola/rapeseed**

Table 42. 2000s Canola/rapeseed (674 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Persian darnel	0.9	0.1	9.1	< 0.1	0.9	2.4	0.2
56	Common pepper-grass	0.8	0.1	10.7	< 0.1	0.7	1.4	0.2
57	Vetch species	0.7	0.1	10.8	< 0.1	1.0	2.6	0.2
58	White cockle	0.6	0.1	10.8	< 0.1	1.5	4.0	0.2
59	Cow cockle	0.6	0.1	15.1	< 0.1	0.8	2.0	0.2
60	Tansy	0.4	0.1	13.2	< 0.1	1.0	2.2	0.1
61	Wormseed mustard	0.4	< 0.1	10.0	< 0.1	1.6	4.4	0.1
62	Maple-leaved goosefoot	0.5	< 0.1	6.3	< 0.1	0.4	0.6	0.1
63	Common ragweed	0.3	0.1	19.5	< 0.1	3.6	7.2	0.1
64	Low cudweed	0.5	< 0.1	6.5	< 0.1	0.6	0.8	0.1
65	Dock species	0.4	< 0.1	10.0	< 0.1	0.9	1.6	0.1
66	Purslane	0.4	< 0.1	10.0	< 0.1	0.7	1.2	0.1
67	Spear-leaved goosefoot	0.3	< 0.1	15.0	< 0.1	3.7	6.6	0.1
68	Yellow toadflax	0.4	< 0.1	8.2	< 0.1	1.1	1.6	0.1
69	Tumble mustard	0.4	< 0.1	5.0	< 0.1	0.3	0.4	0.1
70	Scentless chamomile	0.3	< 0.1	14.8	< 0.1	1.4	2.6	0.1
71	Prickly lettuce	0.3	< 0.1	15.0	< 0.1	1.0	1.4	0.1
72	False ragweed	0.3	< 0.1	12.6	< 0.1	1.0	1.4	0.1
73	Wild chamomile	0.1	0.1	35.0	< 0.1	4.4	4.4	0.1
74	Field peas	0.3	< 0.1	7.5	< 0.1	0.9	1.6	0.1
75	Purslane speedwell	0.3	< 0.1	5.0	< 0.1	0.4	0.6	0.1
76	Showy milkweed	0.3	< 0.1	7.4	< 0.1	0.6	1.0	0.1
77	Pasture sage	0.3	< 0.1	7.4	< 0.1	0.5	0.8	0.1
78	Black mustard	0.1	< 0.1	30.0	< 0.1	2.2	2.2	0.1
79	Pygmyflower	0.1	< 0.1	15.0	< 0.1	4.6	4.6	0.1
80	Absinth	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
81	Milk-vetch species	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
82	Povertyweed	0.2	< 0.1	20.0	< 0.1	0.8	0.8	0.1
83	Goldenrod species	0.1	< 0.1	15.0	< 0.1	2.2	2.2	0.1
84	Common yarrow	0.2	< 0.1	15.0	< 0.1	0.6	0.6	< 0.1
85	Scouring-rush	0.1	< 0.1	15.0	< 0.1	1.2	1.2	< 0.1
86	Field bindweed	0.2	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
87	Bicknell's geranium	0.1	< 0.1	15.0	< 0.1	1.0	1.0	< 0.1
88	Poplar species	0.1	< 0.1	15.0	< 0.1	0.6	0.6	< 0.1
89	Fescue species	0.1	< 0.1	10.0	< 0.1	1.8	1.8	< 0.1
90	Field violet	0.2	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
91	Spreading dogbane	0.2	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
92	Cocklebur	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
93	Silverberry	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
94	Goat's-beard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
95	Slough grass	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
96	Wood whitlow-grass	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
97	Wild radish	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
98	Willowherb species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
99	Manitoba maple	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1



Table 43. 2000s Canola/rapeseed in the Peace Lowland Ecoregion (44 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Field horsetail	68.2	30.9	45.4	7.6	11.1	49.8	38.4
2	Stinkweed	50.1	19.8	39.6	6.0	12.0	75.0	27.7
3	Wild buckwheat	64.7	19.8	30.6	4.3	6.6	61.0	26.3
4	Hemp-nettle	31.2	11.8	37.8	7.4	23.8	199.2	24.0
5	Cleavers	50.8	19.5	38.4	4.1	8.0	51.0	23.9
6	Narrow-leaved hawk's-beard	36.5	12.2	33.4	6.6	18.0	137.2	23.3
7	Clover species	22.7	10.2	44.8	3.1	13.5	70.4	13.7
8	Wheat	26.8	7.8	29.0	3.3	12.4	128.2	13.7
9	Lamb's-quarters	48.9	10.1	20.6	0.8	1.6	4.0	12.8
10	Chickweed	28.0	10.4	37.1	1.6	5.9	24.6	11.9
11	Pineappleweed	21.3	7.1	33.3	1.9	8.8	32.0	9.8
12	Canada thistle	40.3	6.1	15.2	0.5	1.3	4.2	9.4
13	Wild oats	29.4	7.0	23.8	0.8	2.9	13.6	8.9
14	Dandelion	36.4	6.5	17.9	0.4	1.2	3.8	8.8
15	Perennial sow-thistle	25.5	3.9	15.2	0.3	1.2	3.2	5.9
16	Pale smartweed	21.3	3.4	15.8	0.4	1.8	5.8	5.2
17	Prostrate pigweed	9.1	4.3	46.9	0.6	6.9	15.6	4.5
18	Shepherd's-purse	15.7	3.1	19.6	0.3	2.0	8.0	4.2
19	Common groundsel	13.8	3.5	25.4	0.3	2.0	6.0	4.1
20	Bluebur	17.4	2.1	12.1	0.1	0.7	2.4	3.6
21	Rough cinquefoil	4.5	2.5	54.7	0.7	16.2	30.0	3.2
22	Quack grass	7.5	1.2	16.0	0.4	5.9	18.0	2.4
23	Spiny annual sow-thistle	7.3	0.9	11.8	< 0.1	0.7	1.2	1.5
24	Corn spurry	4.3	1.4	31.8	0.1	2.9	4.8	1.5
25	Broad-leaved plantain	6.8	0.5	8.0	< 0.1	0.7	1.6	1.3
26	American dragonhead	6.4	0.6	10.1	< 0.1	0.7	1.0	1.2
27	Low cudweed	5.3	0.4	7.1	< 0.1	0.7	0.8	1.0
28	Round-leaved mallow	4.5	0.5	10.3	< 0.1	0.4	0.6	0.9
29	Barley	4.2	0.2	5.0	< 0.1	0.5	0.8	0.7
30	Biennial wormwood	3.1	0.5	15.0	< 0.1	0.6	0.6	0.7
31	Milk-vetch species	4.1	0.2	5.0	< 0.1	0.2	0.2	0.7
32	Pygmyflower	2.2	0.3	15.0	0.1	4.6	4.6	0.7
33	Common pepper-grass	2.3	0.5	20.0	< 0.1	0.8	0.8	0.6
34	Foxtail barley	2.1	0.4	20.0	< 0.1	1.4	1.4	0.5
35	Common yarrow	2.4	0.4	15.0	< 0.1	0.6	0.6	0.5
36	Yellow toadflax	2.0	0.3	15.0	< 0.1	1.0	1.0	0.5
37	Fescue species	2.1	0.2	10.0	< 0.1	1.8	1.8	0.5
38	Canola/rapeseed	2.5	0.1	5.0	< 0.1	0.4	0.4	0.4
39	Wild radish	2.1	0.1	5.0	< 0.1	0.2	0.2	0.3
40	Willowherb species	2.1	0.1	5.0	< 0.1	0.2	0.2	0.3
41	Rose species	2.0	0.1	5.0	< 0.1	0.2	0.2	0.3
42	Stork's-bill	2.0	0.1	5.0	< 0.1	0.2	0.2	0.3

**Field Survey Summary Tables – 2000s Canola/rapeseed**

Table 44. 2000s Canola/rapeseed in the Boreal Transition Ecoregion (110 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	51.5	18.1	35.1	3.9	7.5	63.8	36.5
2	Wild buckwheat	61.9	16.6	26.9	1.3	2.0	18.0	27.9
3	Redroot pigweed	3.6	1.3	36.3	7.0	195.2	758.4	26.5
4	Wheat	20.1	8.1	40.2	4.6	22.8	280.8	26.0
5	Lamb's-quarters	50.9	10.7	20.9	1.8	3.6	127.0	23.6
6	Canada thistle	51.2	9.9	19.4	0.9	1.8	13.0	19.7
7	Field horsetail	25.8	7.0	27.3	1.1	4.4	20.6	13.9
8	Chickweed	19.4	8.1	42.0	1.1	5.9	18.8	13.6
9	Cleavers	31.4	6.2	19.8	0.8	2.4	27.6	12.9
10	Shepherd's-purse	26.0	6.5	24.9	0.8	2.9	20.6	12.2
11	Green foxtail	16.7	4.8	28.9	1.3	8.1	57.4	11.4
12	Stinkweed	24.9	5.7	22.9	0.6	2.3	16.2	10.7
13	Quack grass	16.3	5.0	30.5	0.6	4.0	9.2	8.9
14	Hemp-nettle	19.9	3.5	17.5	0.4	1.9	8.2	7.5
15	Perennial sow-thistle	21.6	3.1	14.3	0.2	0.8	4.2	6.7
16	Pale smartweed	19.9	2.0	10.3	0.1	0.6	2.0	5.4
17	Dandelion	19.1	2.2	11.5	0.1	0.5	2.0	5.4
18	Spiny annual sow-thistle	13.0	1.9	14.7	0.1	1.1	5.0	4.3
19	Wild mustard	8.0	1.6	20.7	0.4	4.7	37.6	4.0
20	Narrow-leaved hawk's-beard	8.5	0.9	10.5	0.1	0.6	1.0	2.3
21	Barley	5.4	1.0	18.5	0.1	1.0	2.2	1.9
22	Canola/rapeseed	1.1	1.1	100.0	0.2	15.8	15.8	1.6
23	Alfalfa	4.3	0.9	21.7	< 0.1	1.0	3.0	1.6
24	Common groundsel	4.2	0.8	18.1	< 0.1	0.9	1.8	1.4
25	Bluebur	3.2	0.5	14.5	0.1	2.5	9.6	1.2
26	Clover species	3.6	0.4	10.8	< 0.1	0.4	1.0	1.0
27	Ball mustard	1.9	0.5	27.8	0.1	3.4	5.6	1.0
28	Russian thistle	3.7	0.3	9.4	< 0.1	0.4	0.8	1.0
29	Barnyard grass	1.0	0.5	50.0	0.1	11.0	11.0	0.9
30	American dragonhead	3.2	0.2	7.6	< 0.1	0.4	0.8	0.8
31	Black medick	1.9	0.3	17.8	< 0.1	1.7	2.0	0.7
32	Night-flowering catchfly	1.9	0.3	16.1	< 0.1	1.0	1.6	0.6
33	Pineappleweed	2.9	0.1	5.0	< 0.1	0.2	0.2	0.6
34	Broad-leaved plantain	2.4	0.2	6.8	< 0.1	0.8	1.8	0.6
35	Oats	1.6	0.3	20.5	< 0.1	1.1	1.8	0.6
36	Round-leaved mallow	0.8	0.2	20.0	0.1	7.6	7.6	0.5
37	Purslane speedwell	1.9	0.1	5.0	< 0.1	0.4	0.6	0.4
38	Pasture sage	1.6	0.1	7.4	< 0.1	0.5	0.8	0.4
39	Scentless chamomile	0.8	0.2	25.0	< 0.1	2.6	2.6	0.4
40	Yellow sweet-clover	1.7	0.1	5.0	< 0.1	0.2	0.2	0.4
41	Maple-leaved goosefoot	1.5	0.1	5.0	< 0.1	0.2	0.2	0.3
42	Stork's-bill	1.1	0.1	10.0	< 0.1	0.4	0.4	0.3
43	Prickly lettuce	0.9	0.1	15.0	< 0.1	0.6	0.6	0.3
44	Field bindweed	1.0	0.1	10.0	< 0.1	0.8	0.8	0.3
45	Field violet	1.1	0.1	5.0	< 0.1	0.4	0.4	0.2
46	Wild tomato	0.7	0.1	15.0	< 0.1	1.0	1.0	0.2
47	Spreading dogbane	1.0	0.1	5.0	< 0.1	0.4	0.4	0.2
48	Rough cinquefoil	0.8	0.1	10.0	< 0.1	0.4	0.4	0.2
49	Vetch species	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.2
50	Cow cockle	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
51	Dog mustard	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
52	Biennial wormwood	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 45. 2000s Canola/rapeseed in the Aspen Parkland Ecoregion (319 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	56.6	21.6	38.1	5.1	8.9	148.4	43.8
2	Green foxtail	40.1	13.8	34.6	5.5	13.7	237.0	36.8
3	Wild buckwheat	62.2	18.7	30.1	2.3	3.8	51.0	32.9
4	Lamb's-quarters	38.4	9.4	24.6	1.9	5.0	204.6	20.5
5	Canada thistle	45.5	9.7	21.2	1.0	2.1	18.2	18.4
6	Stinkweed	27.7	6.7	24.4	1.6	5.7	159.6	15.4
7	Wheat	22.9	7.4	32.5	1.6	7.1	88.6	15.2
8	Chickweed	11.0	4.5	41.0	1.7	15.7	136.8	11.5
9	Shepherd's-purse	21.0	4.6	21.7	0.7	3.4	42.4	9.5
10	Cleavers	19.4	4.8	24.6	0.6	2.9	26.6	8.9
11	Pale smartweed	16.1	3.7	23.2	0.8	5.0	93.2	8.4
12	Spiny annual sow-thistle	11.1	2.9	26.6	0.7	6.1	48.0	6.5
13	Perennial sow-thistle	18.1	2.6	14.1	0.2	0.9	5.6	5.6
14	Quack grass	10.0	2.7	26.8	0.4	3.8	44.6	5.1
15	Dandelion	15.9	2.1	13.1	0.1	0.8	4.2	4.7
16	Redroot pigweed	12.8	1.7	12.9	0.3	2.4	27.0	4.5
17	Barnyard grass	7.9	1.3	16.3	0.4	4.7	93.6	3.7
18	Barley	7.5	1.7	22.4	0.3	3.7	42.6	3.5
19	Narrow-leaved hawk's-beard	8.8	1.7	19.7	0.2	2.3	17.0	3.5
20	Hemp-nettle	9.7	1.6	16.7	0.1	1.5	10.6	3.4
21	Wild mustard	8.8	1.7	18.7	0.2	1.8	8.6	3.3
22	Field horsetail	10.7	1.0	9.6	0.1	1.4	5.0	3.1
23	Kochia	5.9	1.3	21.5	0.2	3.4	22.2	2.7
24	Common groundsel	6.7	1.3	19.7	0.1	1.8	7.2	2.6
25	Round-leaved mallow	6.8	1.0	15.0	0.1	1.5	8.4	2.3
26	Russian thistle	6.3	1.1	16.8	0.1	1.7	8.6	2.3
27	Pineappleweed	2.5	0.7	27.3	0.2	6.3	23.8	1.5
28	Prostrate knotweed	4.5	0.6	13.7	< 0.1	1.0	3.6	1.4
29	Night-flowering catchfly	4.6	0.5	10.4	< 0.1	1.0	5.4	1.3
30	Canola/rapeseed	3.6	0.5	14.6	0.1	1.7	8.2	1.2
31	Flax	2.8	0.6	20.9	0.1	2.8	11.6	1.2
32	Clover species	2.1	0.5	21.2	0.1	6.0	29.4	1.2
33	Bluebur	3.9	0.4	10.8	< 0.1	0.9	4.0	1.1
34	Black medick	1.9	0.5	26.4	0.1	4.7	15.2	1.0
35	Biennial wormwood	3.8	0.3	8.3	< 0.1	0.7	3.6	1.0
36	Stork's-bill	3.0	0.4	12.5	< 0.1	1.3	6.8	0.9
37	Oats	1.0	0.5	49.9	0.1	10.9	22.0	0.9
38	Ball mustard	1.5	0.3	21.5	0.1	5.9	28.8	0.8
39	Alfalfa	0.9	0.3	36.1	0.1	11.8	35.8	0.8
40	Flixweed	2.8	0.2	8.3	< 0.1	0.4	1.2	0.7
41	American dragonhead	1.8	0.4	19.3	< 0.1	1.5	3.4	0.7
42	Thyme-leaved spurge	1.8	0.2	11.0	< 0.1	2.4	8.0	0.6
43	Wild tomato	1.6	0.2	13.7	< 0.1	2.6	11.2	0.6
44	Yellow sweet-clover	0.9	0.2	26.3	< 0.1	2.9	8.2	0.4
45	Corn spurry	0.3	0.2	65.0	< 0.1	11.4	11.4	0.4
46	Prostrate pigweed	1.3	0.1	7.6	< 0.1	0.7	1.6	0.3
47	White cockle	1.0	0.1	12.5	< 0.1	0.8	1.4	0.3
48	Wormseed mustard	0.9	0.1	10.0	< 0.1	1.6	4.4	0.3
49	Dog mustard	0.7	0.1	12.1	< 0.1	4.3	8.0	0.3
50	Broad-leaved plantain	1.2	0.1	5.0	< 0.1	0.3	0.4	0.3
51	Persian darnel	1.0	0.1	6.7	< 0.1	1.1	2.4	0.3
52	Rose species	0.9	0.1	6.8	< 0.1	0.9	1.6	0.2
53	Wild chamomile	0.3	0.1	35.0	< 0.1	4.4	4.4	0.2
54	Field peas	0.6	< 0.1	7.5	< 0.1	0.9	1.6	0.2

(Table continued on next page)

**Field Survey Summary Tables – 2000s Canola/rapeseed**

Table 45. 2000s Canola/rapeseed in the Aspen Parkland Ecoregion (319 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Showy milkweed	0.6	< 0.1	7.4	< 0.1	0.6	1.0	0.2
56	Yellow toadflax	0.6	< 0.1	5.0	< 0.1	1.2	1.6	0.2
57	Tansy	0.6	< 0.1	7.5	< 0.1	0.4	0.4	0.2
58	Maple-leaved goosefoot	0.6	< 0.1	7.5	< 0.1	0.5	0.6	0.1
59	Rough cinquefoil	0.6	< 0.1	5.0	< 0.1	0.6	1.0	0.1
60	Black mustard	0.3	0.1	30.0	< 0.1	2.2	2.2	0.1
61	Povertyweed	0.3	0.1	20.0	< 0.1	0.8	0.8	0.1
62	Goldenrod species	0.3	< 0.1	15.0	< 0.1	2.2	2.2	0.1
63	Bicknell's geranium	0.3	< 0.1	15.0	< 0.1	1.0	1.0	0.1
64	Poplar species	0.3	< 0.1	15.0	< 0.1	0.6	0.6	0.1
65	False ragweed	0.3	< 0.1	10.0	< 0.1	1.4	1.4	0.1
66	Cocklebur	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
67	Scentless chamomile	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
68	Tumble mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Slough grass	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
70	Wood whitlow-grass	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
71	Absinth	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
72	Purslane	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
73	Low cudweed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
74	Manitoba maple	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 46. 2000s Canola/rapeseed in the Moist Mixed Grassland Ecoregion (109 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	40.7	17.7	43.2	8.6	21.0	201.2	69.0
2	Green foxtail	43.5	15.7	36.1	3.7	8.4	83.2	44.6
3	Wild buckwheat	59.2	14.8	24.8	2.0	3.4	97.8	39.9
4	Stinkweed	29.7	7.9	26.6	2.3	7.7	117.4	26.5
5	Lamb's-quarters	26.4	6.9	26.0	1.0	3.7	37.2	18.5
6	Canada thistle	32.3	5.8	17.8	0.5	1.6	12.8	16.7
7	Kochia	26.6	6.2	23.0	0.5	1.9	8.8	15.5
8	Russian thistle	16.5	4.3	26.1	0.4	2.6	15.8	10.7
9	Wheat	9.7	2.5	26.1	0.5	4.8	22.4	7.3
10	Barnyard grass	6.5	1.7	26.6	0.5	8.2	39.6	6.0
11	Dandelion	11.2	1.4	12.7	0.1	0.9	6.4	4.8
12	Redroot pigweed	9.7	1.6	16.3	0.1	1.0	3.2	4.5
13	Thyme-leaved spurge	5.4	0.9	16.7	0.1	1.1	3.0	2.6
14	Lentils	3.5	1.2	34.1	0.1	2.4	4.4	2.5
15	Flixweed	4.4	0.9	19.6	0.1	1.5	5.4	2.3
16	Cleavers	4.8	0.7	13.7	< 0.1	0.7	1.2	2.1
17	Wild mustard	3.5	0.7	20.0	< 0.1	1.2	2.2	1.8
18	Perennial sow-thistle	4.6	0.4	8.0	< 0.1	0.8	1.8	1.8
19	Common pepper-grass	4.1	0.4	8.7	< 0.1	0.6	1.4	1.6
20	Shepherd's-purse	1.8	0.6	35.2	0.1	5.6	11.0	1.5
21	Vetch species	3.5	0.4	12.5	< 0.1	1.3	2.6	1.5
22	Round-leaved mallow	3.5	0.4	11.1	< 0.1	1.1	2.8	1.5
23	Prostrate knotweed	4.2	0.3	6.8	< 0.1	0.4	1.0	1.4
24	Rose species	2.5	0.4	15.0	0.1	2.6	4.6	1.4
25	Quack grass	2.9	0.4	13.0	< 0.1	1.2	2.6	1.3
26	Spiny annual sow-thistle	2.6	0.3	10.1	< 0.1	0.7	1.0	1.0
27	Narrow-leaved hawk's-beard	2.6	0.3	10.0	< 0.1	0.5	1.0	1.0
28	Cow cockle	1.8	0.4	24.8	< 0.1	1.3	2.0	1.0
29	Pale smartweed	2.6	0.2	8.4	< 0.1	0.7	1.1	1.0
30	Field horsetail	2.7	0.1	5.0	< 0.1	0.7	1.0	0.9
31	Bluebur	1.7	0.3	19.8	< 0.1	1.2	2.2	0.9
32	Persian darnel	1.7	0.3	14.9	< 0.1	0.8	1.2	0.8
33	Night-flowering catchfly	0.9	0.3	40.0	< 0.1	2.4	2.4	0.7
34	Clover species	0.9	0.1	15.0	0.1	6.6	6.6	0.6
35	Spear-leaved goosefoot	0.8	0.1	15.0	0.1	6.6	6.6	0.6
36	Foxtail barley	0.8	0.2	25.0	< 0.1	3.6	3.6	0.6
37	Biennial wormwood	0.9	0.3	30.0	< 0.1	1.4	1.4	0.6
38	Prickly lettuce	0.9	0.1	15.0	< 0.1	1.4	1.4	0.4
39	False ragweed	0.9	0.1	15.0	< 0.1	0.6	0.6	0.4
40	Scouring-rush	0.9	0.1	15.0	< 0.1	1.2	1.2	0.4
41	Dock species	0.8	0.1	10.0	< 0.1	0.6	0.6	0.3
42	Chickweed	0.8	0.1	10.0	< 0.1	0.4	0.4	0.3
43	Common groundsel	0.8	0.1	10.0	< 0.1	0.4	0.4	0.3
44	Corn spurry	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
45	Barley	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
46	Wild tomato	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3

**Field Survey Summary Tables – 2000s Canola/rapeseed**

Table 47. 2000s Canola/rapeseed in the Mixed Grassland Ecoregion (20 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	49.9	17.2	34.5	4.4	8.9	42.0	51.9
2	Green foxtail	36.2	12.1	33.3	3.3	9.2	47.4	37.7
3	Wild buckwheat	44.8	14.5	32.4	1.9	4.2	16.6	35.3
4	Stinkweed	27.9	6.5	23.2	4.2	15.0	89.0	34.2
5	Kochia	49.9	11.0	21.9	0.9	1.9	4.8	28.0
6	Redroot pigweed	41.1	6.8	16.5	0.6	1.4	4.4	19.7
7	Russian thistle	23.7	8.2	34.6	1.0	4.2	13.4	19.2
8	Wheat	23.0	5.8	25.1	0.7	3.0	7.4	14.8
9	Tumble pigweed	9.2	2.3	25.0	2.0	22.2	43.8	14.7
10	Lamb's-quarters	14.0	2.6	18.5	0.3	2.0	2.8	7.4
11	Flixweed	14.0	2.3	16.7	0.1	0.9	1.4	6.4
12	Foxtail barley	17.1	1.3	7.7	0.1	0.4	0.8	5.7
13	Canada thistle	14.4	1.2	8.3	0.1	0.7	1.6	5.2
14	Barnyard grass	9.4	0.9	10.0	0.3	3.1	5.8	4.7
15	Tumble mustard	9.2	0.5	5.0	< 0.1	0.3	0.4	2.8
16	Biennial wormwood	7.8	0.4	5.0	< 0.1	0.2	0.2	2.3
17	Alfalfa	7.8	0.4	5.0	< 0.1	0.2	0.2	2.3
18	Spear-leaved goosefoot	4.6	0.7	15.0	< 0.1	0.8	0.8	2.0
19	Goat's-beard	4.8	0.2	5.0	< 0.1	0.2	0.2	1.4
20	Dandelion	4.8	0.2	5.0	< 0.1	0.2	0.2	1.4
21	Persian darnel	4.6	0.2	5.0	< 0.1	0.2	0.2	1.4
22	Cow cockle	4.3	0.2	5.0	< 0.1	0.2	0.2	1.3

Table 48. 2000s Canola/rapeseed in the Lake Manitoba Plain Ecoregion (55 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Barnyard grass	37.2	12.7	34.1	13.7	36.9	582.8	68.0
2	Green foxtail	54.2	16.5	30.5	4.8	8.9	141.0	43.2
3	Wild oats	39.6	11.0	27.8	2.3	5.8	34.4	26.2
4	Wild buckwheat	43.7	11.7	26.8	1.3	3.1	22.0	24.3
5	Redroot pigweed	37.2	9.2	24.8	1.4	3.8	14.6	21.0
6	Canada thistle	40.6	5.3	13.1	0.6	1.5	10.8	15.1
7	Lamb's-quarters	34.2	6.5	19.1	0.6	1.7	11.6	14.9
8	Pale smartweed	34.3	4.8	14.0	0.4	1.2	9.0	12.7
9	Wild mustard	26.4	5.1	19.3	0.6	2.2	9.2	12.0
10	Thyme-leaved spurge	18.0	4.1	23.0	0.3	1.9	3.6	8.6
11	Quack grass	14.6	2.6	17.6	0.5	3.4	10.6	7.1
12	Dandelion	18.0	1.7	9.5	0.1	0.5	1.2	5.5
13	Wheat	13.0	1.6	12.1	0.1	1.1	3.4	4.5
14	Canola/rapeseed	7.0	1.7	23.5	0.1	1.3	2.2	3.3
15	Perennial sow-thistle	9.9	0.9	9.0	0.1	0.6	1.8	3.0
16	Spiny annual sow-thistle	9.0	0.6	7.0	< 0.1	0.3	0.4	2.4
17	Kochia	3.5	1.2	33.8	0.2	5.0	10.2	2.4
18	Dog mustard	3.6	1.2	32.5	0.2	4.5	8.8	2.4
19	Night-flowering catchfly	9.0	0.5	6.0	< 0.1	0.2	0.4	2.3
20	Shepherd's-purse	5.1	0.6	11.6	0.1	1.6	3.6	1.8
21	Common ragweed	3.5	0.7	19.5	0.1	3.6	7.2	1.8
22	Stinkweed	3.8	0.7	17.5	0.1	2.6	5.0	1.7
23	Round-leaved mallow	5.4	0.5	8.3	< 0.1	0.4	0.6	1.6
24	Prostrate knotweed	5.4	0.5	8.3	< 0.1	0.4	0.8	1.6
25	Field horsetail	5.2	0.3	5.0	< 0.1	0.5	0.6	1.3
26	Purslane	3.7	0.5	12.4	< 0.1	0.9	1.2	1.3
27	Dock species	3.6	0.4	10.0	< 0.1	1.0	1.6	1.2
28	Hemp-nettle	3.5	0.3	9.8	< 0.1	1.2	2.2	1.2
29	Cleavers	1.8	0.5	30.0	< 0.1	1.4	1.4	0.9
30	Tansy	1.8	0.5	25.0	< 0.1	2.2	2.2	0.9
31	Flax	1.8	0.5	25.0	< 0.1	1.6	1.6	0.9
32	Chickweed	3.4	0.2	5.0	< 0.1	0.3	0.4	0.9
33	Alfalfa	1.8	0.4	20.0	< 0.1	2.2	2.2	0.8
34	Prostrate pigweed	1.8	0.4	20.0	< 0.1	1.0	1.0	0.8
35	Stork's-bill	1.6	0.2	15.0	< 0.1	1.0	1.0	0.6
36	Silverberry	1.7	0.2	10.0	< 0.1	0.6	0.6	0.5
37	Absinth	1.8	0.1	5.0	< 0.1	0.2	0.2	0.5
38	Broad-leaved plantain	1.8	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Yellow foxtail	1.7	0.1	5.0	< 0.1	0.4	0.4	0.4

**Field Survey Summary Tables – 2000s Canola/rapeseed**

Table 49. 2000s Canola/rapeseed in the Interlake Plain Ecoregion (14 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Lamb's-quarters	49.3	24.8	50.3	6.8	13.8	59.6	41.8
2	Redroot pigweed	63.3	24.6	38.8	4.6	7.3	28.6	37.3
3	Wild oats	47.5	15.4	32.4	5.1	10.8	53.2	31.2
4	Wild buckwheat	70.8	20.6	29.2	2.5	3.5	21.6	29.7
5	Green foxtail	35.9	14.4	40.1	3.6	10.0	42.2	24.2
6	Pale smartweed	55.9	9.0	16.0	0.6	1.1	3.4	15.2
7	Yellow foxtail	16.0	6.0	37.5	2.5	15.3	28.6	13.2
8	Barnyard grass	41.8	7.2	17.3	0.9	2.2	6.8	13.1
9	Wild mustard	28.7	6.8	23.8	0.6	2.2	4.4	10.0
10	Canada thistle	44.0	3.6	8.3	0.3	0.7	2.8	9.6
11	Wheat	28.8	6.5	22.5	0.5	1.8	5.6	9.5
12	Cleavers	14.4	6.8	47.5	1.0	7.2	14.0	9.1
13	Flax	7.2	6.1	85.0	1.5	20.8	20.8	9.0
14	Round-leaved mallow	23.2	4.9	21.2	0.3	1.1	2.0	7.0
15	Dandelion	29.6	3.6	12.3	0.2	0.5	0.8	6.9
16	Broad-leaved plantain	8.0	2.0	25.0	0.9	11.4	11.4	5.1
17	Thyme-leaved spurge	7.2	2.9	40.0	0.3	4.8	4.8	3.7
18	Hemp-nettle	15.2	1.1	7.4	< 0.1	0.3	0.4	3.0
19	Stinkweed	15.2	1.1	7.4	< 0.1	0.3	0.4	3.0
20	Kochia	8.0	2.4	30.0	0.1	1.6	1.6	2.9
21	Perennial sow-thistle	7.2	1.8	25.0	0.1	1.4	1.4	2.4
22	Prostrate knotweed	7.2	1.4	20.0	0.1	1.4	1.4	2.2
23	White cockle	7.2	0.4	5.0	0.3	4.0	4.0	2.1
24	Flixweed	7.2	0.4	5.0	0.2	2.4	2.4	1.8
25	Field horsetail	6.9	1.0	15.0	0.1	0.8	0.8	1.8
26	Night-flowering catchfly	7.2	0.4	5.0	< 0.1	0.2	0.2	1.3
27	Stork's-bill	7.2	0.4	5.0	< 0.1	0.2	0.2	1.3
28	Alfalfa	7.2	0.4	5.0	< 0.1	0.2	0.2	1.3
29	Shepherd's-purse	4.5	0.7	15.0	< 0.1	0.8	0.8	1.2



Table 50. 2000s Flax (131 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	52.9	24.3	46.0	16.4	31.1	1070.0	80.5
2	Wild oats	42.0	15.0	35.8	2.7	6.4	59.2	28.2
3	Wild buckwheat	59.6	14.1	23.6	1.0	1.7	8.8	25.7
4	Redroot pigweed	36.4	7.2	19.9	0.9	2.5	27.6	15.6
5	Wheat	21.6	7.0	32.1	1.9	8.8	95.0	15.5
6	Lamb's-quarters	22.0	5.4	24.5	1.8	8.1	153.6	14.0
7	Canada thistle	33.6	6.2	18.6	0.7	1.9	13.8	13.4
8	Pale smartweed	21.0	5.3	25.2	0.7	3.1	16.4	10.2
9	Russian thistle	11.0	4.8	44.0	1.2	10.8	53.8	9.6
10	Wild mustard	17.7	4.4	25.0	0.5	2.6	20.8	8.3
11	Kochia	15.2	4.2	27.3	0.5	3.3	36.2	7.7
12	Barnyard grass	18.6	3.3	17.8	0.3	1.7	6.2	7.2
13	Dandelion	16.2	3.3	20.3	0.3	1.6	7.0	6.5
14	Stinkweed	14.4	2.0	13.7	0.2	1.3	8.0	4.9
15	Night-flowering catchfly	9.8	2.3	23.5	0.3	2.6	10.8	4.5
16	Chickweed	6.3	2.4	37.3	0.3	4.5	17.0	3.9
17	Round-leaved mallow	9.0	1.6	17.9	0.1	1.4	5.0	3.4
18	Shepherd's-purse	5.5	1.5	27.8	0.2	4.2	12.4	3.0
19	Canola/rapeseed	6.6	1.5	23.4	0.1	2.1	13.8	2.9
20	Hemp-nettle	7.0	1.2	17.5	0.1	1.6	6.6	2.7
21	Cleavers	7.7	1.0	13.0	0.1	1.0	4.6	2.5
22	Field horsetail	5.4	1.1	19.7	0.1	2.2	7.4	2.2
23	Perennial sow-thistle	7.5	0.6	8.5	< 0.1	0.6	1.8	2.1
24	White mustard	0.8	0.7	90.0	0.4	49.8	49.8	1.9
25	Barley	3.9	0.8	20.0	0.1	3.8	8.2	1.8
26	Bluebur	5.4	0.7	12.2	0.1	1.1	3.6	1.7
27	Tumble pigweed	0.8	0.8	100.0	0.3	35.8	35.8	1.6
28	Quack grass	4.6	0.4	9.1	0.1	1.1	2.6	1.4
29	Thyme-leaved spurge	3.7	0.5	13.0	< 0.1	0.8	1.6	1.2
30	Flixweed	3.7	0.4	11.8	< 0.1	1.0	2.6	1.2
31	Spiny annual sow-thistle	3.0	0.6	18.6	< 0.1	1.2	3.4	1.1
32	Yellow foxtail	2.2	0.4	19.9	0.1	2.5	5.2	1.0
33	Yellow sweet-clover	0.7	0.4	60.0	0.1	16.2	16.2	0.8
34	Cow cockle	2.5	0.3	12.9	< 0.1	1.0	2.6	0.8
35	Black medick	3.0	0.2	6.2	< 0.1	0.3	0.8	0.8
36	Maple-leaved goosefoot	1.5	0.4	27.6	0.1	3.4	6.4	0.8
37	Clover species	1.5	0.5	30.0	< 0.1	1.4	1.4	0.7
38	Dog mustard	1.6	0.4	23.9	< 0.1	2.1	4.2	0.7
39	Showy milkweed	1.4	0.3	17.4	< 0.1	0.8	1.0	0.5
40	Cocklebur	0.7	0.3	45.0	< 0.1	4.4	4.4	0.5
41	Narrow-leaved hawk's-beard	0.7	0.3	40.0	< 0.1	6.4	6.4	0.5
42	Prostrate knotweed	0.7	0.3	40.0	< 0.1	4.4	4.4	0.5
43	Stork's-bill	0.7	0.3	40.0	< 0.1	4.4	4.4	0.5
44	Biennial wormwood	1.5	0.1	10.1	< 0.1	0.4	0.6	0.4
45	American dragonhead	1.4	0.1	9.7	< 0.1	0.6	1.0	0.4
46	Persian darnel	0.8	0.2	25.0	< 0.1	3.8	3.8	0.4
47	Dock species	1.5	0.1	7.5	< 0.1	0.4	0.4	0.4
48	Nodding thistle	0.7	0.3	35.0	< 0.1	2.2	2.2	0.4
49	Prostrate pigweed	1.5	0.1	5.0	< 0.1	0.3	0.4	0.4
50	Wormseed mustard	1.5	0.1	5.0	< 0.1	0.2	0.2	0.4
51	Manitoba maple	1.5	0.1	5.0	< 0.1	0.2	0.2	0.3
52	Prickly lettuce	0.8	0.2	20.0	< 0.1	1.8	1.8	0.3
53	Bicknell's geranium	0.8	0.1	10.0	< 0.1	0.4	0.4	0.2
54	Rose species	0.8	< 0.1	5.0	< 0.1	0.8	0.8	0.2

(Table continued on next page)

**Field Survey Summary Tables – 2000s Flax**

Table 50. 2000s Flax (131 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Toad rush	0.8	< 0.1	5.0	< 0.1	0.8	0.8	0.2
56	Flax	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
57	Vetch species	0.7	< 0.1	5.0	< 0.1	0.8	0.8	0.2
58	Pineappleweed	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
59	Wild tomato	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
60	Black mustard	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
61	Broad-leaved plantain	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
62	Alfalfa	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 51. 2000s Flax in the Boreal Transition Ecoregion (12 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Lamb's-quarters	41.6	10.8	26.0	12.9	31.0	153.6	58.9
2	Wild oats	51.4	19.5	37.8	3.5	6.9	33.6	32.3
3	Wild buckwheat	67.8	19.0	28.0	1.2	1.7	5.8	25.9
4	Chickweed	52.4	14.2	27.2	1.2	2.3	9.6	20.8
5	Wheat	26.6	12.6	47.6	2.4	9.1	20.2	20.5
6	Hemp-nettle	51.7	11.0	21.2	1.0	2.0	6.6	17.8
7	Cleavers	51.3	9.4	18.4	0.7	1.4	4.6	15.7
8	Green foxtail	17.2	7.3	42.7	1.1	6.6	13.8	11.2
9	Field horsetail	17.5	6.1	35.0	0.9	5.4	7.4	9.7
10	Stinkweed	32.9	4.6	13.8	0.6	1.7	5.8	9.5
11	Canola/rapeseed	33.3	5.4	16.3	0.2	0.7	1.2	8.9
12	Pale smartweed	43.1	3.4	7.9	0.1	0.3	0.8	8.6
13	Canada thistle	42.2	2.9	6.9	0.2	0.4	0.6	8.3
14	Dandelion	33.2	3.7	11.2	0.2	0.7	1.8	7.8
15	Night-flowering catchfly	8.3	4.6	55.0	0.7	8.0	8.0	6.5
16	Wild mustard	14.6	3.7	25.5	0.1	1.0	1.2	5.0
17	Bluebur	16.4	2.5	15.2	0.1	0.9	1.6	4.4
18	Perennial sow-thistle	16.8	2.1	12.5	0.1	0.6	0.8	4.0
19	Shepherd's-purse	8.1	3.2	40.0	0.2	2.6	2.6	4.0
20	Redroot pigweed	18.2	0.9	5.0	< 0.1	0.2	0.2	3.2
21	Clover species	8.1	2.4	30.0	0.1	1.4	1.4	3.1
22	Barley	8.3	0.8	10.0	< 0.1	0.4	0.4	1.8
23	Maple-leaved goosefoot	8.1	0.8	10.0	< 0.1	0.4	0.4	1.8
24	Dog mustard	9.1	0.5	5.0	< 0.1	0.2	0.2	1.6
25	Pineappleweed	8.4	0.4	5.0	< 0.1	0.2	0.2	1.5
26	Black medick	8.3	0.4	5.0	< 0.1	0.2	0.2	1.5
27	Black mustard	8.3	0.4	5.0	< 0.1	0.2	0.2	1.5
28	Broad-leaved plantain	8.3	0.4	5.0	< 0.1	0.2	0.2	1.5
29	Spiny annual sow-thistle	8.3	0.4	5.0	< 0.1	0.2	0.2	1.5
30	Biennial wormwood	8.1	0.4	5.0	< 0.1	0.2	0.2	1.4

Table 52. 2000s Flax in the Aspen Parkland Ecoregion (57 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	54.3	25.8	47.4	31.1	57.2	1070.0	99.7
2	Wild oats	42.2	16.0	38.0	3.2	7.5	28.2	28.2
3	Wild buckwheat	54.4	13.9	25.6	1.0	1.8	6.0	24.2
4	Wheat	26.8	8.0	29.9	3.2	12.0	95.0	18.8
5	Canada thistle	42.2	8.3	19.6	0.9	2.2	13.8	17.0
6	Redroot pigweed	35.2	5.7	16.2	0.8	2.2	27.6	13.3
7	Wild mustard	22.5	5.5	24.6	0.7	3.1	20.8	10.4
8	Pale smartweed	19.4	4.5	23.2	0.7	3.7	16.4	9.1
9	Lamb's-quarters	19.5	4.3	22.1	0.4	1.9	6.8	8.2
10	Barnyard grass	20.8	3.9	18.9	0.3	1.6	4.0	8.0
11	Dandelion	16.1	3.0	18.5	0.2	1.5	4.2	6.1
12	Round-leaved mallow	14.0	2.8	20.0	0.2	1.7	5.0	5.6
13	Night-flowering catchfly	14.1	2.4	16.9	0.2	1.4	3.8	5.2
14	Canola/rapeseed	6.8	2.2	31.5	0.3	3.9	13.8	3.7
15	Chickweed	3.6	2.5	67.9	0.4	11.2	17.0	3.6
16	Stinkweed	10.4	1.3	12.5	0.2	1.6	8.0	3.5
17	Kochia	8.6	1.6	18.9	0.1	1.4	4.2	3.3
18	Bluebur	9.0	1.0	11.0	0.1	1.1	3.6	2.8
19	Barley	5.6	1.2	21.6	0.3	5.7	8.2	2.8
20	Shepherd's-purse	5.5	1.5	26.9	0.1	2.1	4.4	2.5
21	Perennial sow-thistle	8.7	0.6	7.0	< 0.1	0.3	0.6	2.3
22	Yellow sweet-clover	1.7	1.0	60.0	0.3	16.2	16.2	1.7
23	Hemp-nettle	5.4	0.5	9.9	< 0.1	0.8	1.6	1.6
24	Quack grass	5.5	0.3	5.0	0.1	1.3	2.6	1.5
25	Black medick	5.3	0.4	6.6	< 0.1	0.4	0.8	1.4
26	Cleavers	5.4	0.3	5.0	< 0.1	0.7	1.6	1.4
27	Flixweed	3.5	0.5	15.0	< 0.1	1.4	2.6	1.2
28	Russian thistle	3.7	0.5	12.7	< 0.1	1.0	1.0	1.2
29	Spiny annual sow-thistle	3.5	0.5	14.8	< 0.1	0.7	1.2	1.2
30	Cocklebur	1.7	0.8	45.0	0.1	4.4	4.4	1.1
31	Thyme-leaved spurge	3.5	0.4	12.5	< 0.1	0.9	1.6	1.1
32	Narrow-leaved hawk's-beard	1.7	0.7	40.0	0.1	6.4	6.4	1.1
33	Prostrate knotweed	1.7	0.7	40.0	0.1	4.4	4.4	1.1
34	Field horsetail	3.5	0.4	10.0	< 0.1	0.6	0.8	1.0
35	Persian darnel	1.9	0.5	25.0	0.1	3.8	3.8	0.9
36	Clover species	1.9	0.6	30.0	< 0.1	1.4	1.4	0.9
37	Manitoba maple	3.4	0.2	5.0	< 0.1	0.2	0.2	0.8
38	Cow cockle	1.7	0.4	25.0	< 0.1	2.6	2.6	0.8
39	Toad rush	1.9	0.1	5.0	< 0.1	0.8	0.8	0.5
40	Flax	1.9	0.1	5.0	< 0.1	0.2	0.2	0.5
41	Wormseed mustard	1.9	0.1	5.0	< 0.1	0.2	0.2	0.5
42	American dragonhead	1.8	0.1	5.0	< 0.1	0.2	0.2	0.4

**Field Survey Summary Tables – 2000s Flax**

Table 53. 2000s Flax in the Moist Mixed Grassland Ecoregion (36 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	59.1	28.9	48.9	7.1	12.1	74.6	72.4
2	Wild oats	41.3	15.2	36.9	2.6	6.3	59.2	34.8
3	Russian thistle	24.8	12.6	50.9	3.7	14.9	53.8	34.1
4	Wild buckwheat	65.7	13.5	20.5	1.1	1.7	8.8	31.9
5	Kochia	32.1	10.5	32.8	1.4	4.5	36.2	23.2
6	Redroot pigweed	40.4	7.9	19.6	0.8	2.0	6.6	20.0
7	Canada thistle	27.5	6.7	24.5	0.7	2.6	9.4	15.5
8	Wheat	16.8	5.1	30.7	0.8	5.0	24.4	12.3
9	Lamb's-quarters	16.4	4.6	28.1	0.3	1.9	3.6	9.2
10	Wild mustard	10.7	4.2	39.3	0.4	4.1	11.2	8.1
11	Dandelion	11.3	3.5	30.8	0.2	2.1	4.8	6.7
12	Shepherd's-purse	8.4	2.1	25.0	0.6	6.8	12.4	6.5
13	Stinkweed	13.9	2.3	16.4	0.1	0.9	2.2	5.8
14	Barnyard grass	7.8	0.9	11.6	0.1	0.9	2.2	2.9
15	Round-leaved mallow	5.3	0.7	12.4	< 0.1	0.9	1.6	2.0
16	Cow cockle	6.2	0.5	7.9	< 0.1	0.3	0.4	2.0
17	Perennial sow-thistle	5.2	0.4	7.5	< 0.1	0.6	1.0	1.7
18	Field horsetail	2.8	0.8	30.0	0.1	2.2	2.2	1.7
19	Nodding thistle	2.6	0.9	35.0	0.1	2.2	2.2	1.6
20	Prostrate pigweed	5.3	0.3	5.0	< 0.1	0.3	0.4	1.6
21	Prickly lettuce	2.6	0.5	20.0	< 0.1	1.8	1.8	1.3
22	Pale smartweed	2.6	0.5	20.0	< 0.1	1.6	1.6	1.2
23	Biennial wormwood	2.6	0.4	15.0	< 0.1	0.6	0.6	1.0
24	Rose species	2.8	0.1	5.0	< 0.1	0.8	0.8	0.9
25	Thyme-leaved spurge	2.6	0.3	10.0	< 0.1	0.4	0.4	0.9
26	Flixweed	2.6	0.1	5.0	< 0.1	0.2	0.2	0.8

Table 54. 2000s Flax in the Lake Manitoba Plain Ecoregion (13 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	76.5	25.7	33.7	5.5	7.1	40.8	60.4
2	Pale smartweed	61.2	21.9	35.7	2.2	3.7	11.2	37.8
3	Wild buckwheat	69.5	17.5	25.2	1.2	1.7	4.8	30.7
4	Lamb's-quarters	23.5	8.6	36.6	3.7	15.6	45.8	29.7
5	Barnyard grass	54.0	11.1	20.5	0.9	1.7	3.8	22.0
6	Wild oats	37.7	8.5	22.6	1.0	2.5	4.0	17.6
7	Dandelion	15.6	6.3	40.0	0.6	3.8	7.0	10.2
8	Yellow foxtail	15.7	4.3	27.5	0.6	3.7	5.2	8.8
9	Canada thistle	23.5	4.3	18.3	0.3	1.3	2.4	8.6
10	Redroot pigweed	21.6	2.9	13.6	0.1	0.7	1.6	6.6
11	Wheat	15.2	3.9	25.7	0.2	1.4	2.6	6.5
12	Maple-leaved goosefoot	7.8	3.5	45.0	0.5	6.4	6.4	6.5
13	Night-flowering catchfly	15.6	2.7	17.5	0.2	1.3	2.4	5.7
14	Dog mustard	7.8	3.5	45.0	0.3	4.2	4.2	5.6
15	Stork's-bill	7.8	3.1	40.0	0.3	4.4	4.4	5.4
16	Showy milkweed	15.3	2.7	17.4	0.1	0.8	1.0	5.2
17	Round-leaved mallow	15.7	2.4	15.0	0.1	0.9	1.6	5.1
18	Spiny annual sow-thistle	7.8	3.1	40.0	0.3	3.4	3.4	5.0
19	Quack grass	15.7	1.6	10.0	0.1	0.6	0.8	4.3
20	Wild mustard	15.7	1.2	7.5	0.1	0.4	0.6	3.9
21	Field horsetail	15.6	1.2	7.5	< 0.1	0.3	0.4	3.8
22	Barley	7.8	2.0	25.0	0.1	1.0	1.0	3.1
23	Dock species	7.8	0.8	10.0	< 0.1	0.4	0.4	2.1
24	Vetch species	7.8	0.4	5.0	0.1	0.8	0.8	2.0
25	Thyme-leaved spurge	7.8	0.4	5.0	< 0.1	0.4	0.4	1.8
26	Wormseed mustard	7.8	0.4	5.0	< 0.1	0.2	0.2	1.7

**Field Survey Summary Tables – 2000s Mustard**

Table 55. 2000s Mustard (45 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	54.9	21.4	38.9	2.5	4.6	40.6	44.3
2	Green foxtail	36.9	10.6	28.7	3.1	8.3	76.8	35.1
3	Stinkweed	48.9	13.5	27.6	2.0	4.0	29.6	33.2
4	Wild oats	50.0	14.3	28.5	1.8	3.5	17.8	32.7
5	Canada thistle	28.6	7.3	25.5	1.0	3.3	22.0	17.6
6	Lamb's-quarters	34.0	6.4	18.7	0.7	1.9	20.4	16.1
7	Russian thistle	26.9	7.4	27.3	0.7	2.5	11.6	15.7
8	Wheat	19.5	4.6	23.4	0.8	4.2	23.0	12.8
9	Kochia	30.8	4.7	15.2	0.4	1.2	6.2	12.3
10	Redroot pigweed	19.0	4.9	25.8	0.6	3.3	14.0	11.7
11	Perennial sow-thistle	10.4	2.7	25.6	0.5	5.0	21.8	7.5
12	Dandelion	15.7	1.7	11.1	0.1	0.5	1.0	5.1
13	Shepherd's-purse	6.4	1.9	30.4	0.3	4.8	11.2	4.8
14	Flax	2.1	2.0	95.0	0.4	18.4	18.4	4.5
15	Cleavers	7.4	2.0	26.4	0.1	1.7	3.0	3.9
16	Biennial wormwood	11.4	1.1	9.7	0.1	0.6	1.2	3.6
17	Narrow-leaved hawk's-beard	4.4	1.2	28.3	0.2	5.2	7.4	3.3
18	Barnyard grass	8.4	0.9	11.3	0.1	1.1	2.0	3.0
19	Vetch species	7.2	0.7	10.0	0.1	1.0	1.8	2.5
20	Flixweed	6.3	0.9	15.0	< 0.1	0.7	1.2	2.3
21	Cow cockle	6.3	0.7	11.7	< 0.1	0.7	1.4	2.2
22	Lentils	2.1	1.2	60.0	0.1	5.4	5.4	2.1
23	Rose species	2.1	0.6	30.0	0.2	9.0	9.0	2.1
24	Thyme-leaved spurge	2.2	1.4	65.0	0.1	3.2	3.2	2.0
25	Spiny annual sow-thistle	4.9	0.4	7.9	0.1	1.3	1.4	1.7
26	Scentless chamomile	2.3	0.8	35.0	< 0.1	1.8	1.8	1.4
27	Wild mustard	2.2	0.8	35.0	< 0.1	1.8	1.8	1.3
28	Foxtail barley	2.1	0.6	30.0	0.1	2.6	2.6	1.3
29	Tumble mustard	2.1	0.5	25.0	0.1	2.6	2.6	1.2
30	Tumble pigweed	2.1	0.4	20.0	0.1	3.2	3.2	1.2
31	Pale smartweed	4.5	0.2	5.0	< 0.1	0.2	0.2	1.1
32	Barley	2.1	0.6	30.0	< 0.1	1.6	1.6	1.1
33	Round-leaved mallow	2.3	0.4	15.0	< 0.1	0.8	0.8	0.9
34	Canola/rapeseed	2.3	0.3	15.0	< 0.1	0.6	0.6	0.8
35	Quack grass	2.8	0.1	5.0	< 0.1	0.6	0.6	0.8
36	Pygmyflower	2.1	0.3	15.0	< 0.1	0.6	0.6	0.8
37	Goat's-beard	2.8	0.1	5.0	< 0.1	0.4	0.4	0.8
38	Bluebur	2.3	0.2	10.0	< 0.1	0.4	0.4	0.7
39	Yellow toadflax	2.0	0.2	10.0	< 0.1	0.8	0.8	0.7
40	Canada fleabane	2.2	0.1	5.0	< 0.1	0.2	0.2	0.6
41	Rough cinquefoil	2.1	0.1	5.0	< 0.1	0.2	0.2	0.5
42	Prickly lettuce	2.1	0.1	5.0	< 0.1	0.2	0.2	0.5
43	Sunflower species	2.1	0.1	5.0	< 0.1	0.2	0.2	0.5
44	Common pepper-grass	2.1	0.1	5.0	< 0.1	0.2	0.2	0.5
45	Wild tomato	2.1	0.1	5.0	< 0.1	0.2	0.2	0.5
46	Yellow sweet-clover	2.0	0.1	5.0	< 0.1	0.2	0.2	0.5

Table 56. 2000s Mustard in the Aspen Parkland Ecoregion (12 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	56.9	21.0	36.9	3.0	5.2	17.8	39.2
2	Canada thistle	63.4	18.5	29.2	2.7	4.3	22.0	37.6
3	Wild buckwheat	49.3	24.5	49.7	1.9	3.9	9.8	35.1
4	Green foxtail	51.1	13.9	27.1	2.8	5.4	27.0	32.5
5	Lamb's-quarters	60.2	12.3	20.4	1.9	3.2	20.4	28.8
6	Russian thistle	36.4	13.8	37.7	1.8	4.9	11.6	24.8
7	Stinkweed	44.0	11.8	26.8	1.3	3.0	7.0	22.4
8	Perennial sow-thistle	22.8	9.1	39.9	1.9	8.2	21.8	19.7
9	Wheat	25.5	8.5	33.3	1.0	3.8	6.4	15.2
10	Redroot pigweed	15.8	2.0	13.0	0.4	2.6	4.8	6.3
11	Dandelion	15.6	2.0	12.7	0.1	0.5	0.6	4.5
12	Shepherd's-purse	15.0	1.1	7.5	0.2	1.1	1.4	4.3
13	Scentsless chamomile	8.4	2.9	35.0	0.2	1.8	1.8	4.2
14	Narrow-leaved hawk's-beard	7.6	1.1	15.0	0.2	2.6	2.6	3.1
15	Cleavers	8.4	1.3	15.0	0.1	0.8	0.8	2.7
16	Canola/rapeseed	8.6	1.3	15.0	0.1	0.6	0.6	2.7
17	Quack grass	10.6	0.5	5.0	0.1	0.6	0.6	2.6
18	Vetch species	8.5	0.9	10.0	< 0.1	0.4	0.4	2.3
19	Bluebur	8.4	0.8	10.0	< 0.1	0.4	0.4	2.2
20	Barnyard grass	7.4	0.7	10.0	0.1	1.0	1.0	2.2
21	Yellow toadflax	7.6	0.8	10.0	0.1	0.8	0.8	2.2
22	Kochia	8.9	0.4	5.0	< 0.1	0.2	0.2	2.0
23	Pale smartweed	7.9	0.4	5.0	< 0.1	0.2	0.2	1.8
24	Yellow sweet-clover	7.4	0.4	5.0	< 0.1	0.2	0.2	1.7

**Field Survey Summary Tables – 2000s Mustard**

Table 57. 2000s Mustard in the Moist Mixed Grassland Ecoregion (19 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	35.4	11.2	31.7	5.0	14.0	76.8	50.5
2	Wild buckwheat	59.6	19.7	33.0	1.4	2.4	8.0	39.1
3	Stinkweed	47.2	10.0	21.2	1.4	3.1	14.6	28.1
4	Wild oats	42.8	9.4	21.9	1.2	2.8	7.0	24.9
5	Russian thistle	36.0	8.5	23.6	0.5	1.3	4.2	17.9
6	Canada thistle	27.5	5.5	19.9	0.5	1.9	5.4	13.9
7	Lamb's-quarters	27.8	5.8	21.0	0.3	1.0	3.6	12.5
8	Flax	5.0	4.8	95.0	0.9	18.4	18.4	11.5
9	Shepherd's-purse	5.6	3.9	70.0	0.6	11.2	11.2	8.8
10	Cleavers	12.3	3.9	31.4	0.3	2.1	3.0	7.7
11	Dandelion	22.4	2.4	10.7	0.1	0.5	1.0	7.3
12	Biennial wormwood	22.0	2.1	9.6	0.1	0.6	1.2	7.2
13	Kochia	24.9	1.7	7.0	0.1	0.4	0.8	7.1
14	Redroot pigweed	10.2	3.6	35.8	0.2	2.2	4.0	6.8
15	Narrow-leaved hawk's-beard	5.6	2.2	40.0	0.4	7.4	7.4	5.9
16	Wheat	14.9	1.5	10.0	0.2	1.2	3.0	5.5
17	Lentils	5.0	3.0	60.0	0.3	5.4	5.4	5.4
18	Rose species	5.0	1.5	30.0	0.4	9.0	9.0	5.3
19	Thyme-leaved spurge	5.2	3.4	65.0	0.2	3.2	3.2	5.2
20	Spiny annual sow-thistle	11.7	0.9	7.9	0.2	1.3	1.4	4.2
21	Barnyard grass	10.0	1.3	12.5	0.1	1.1	2.0	3.9
22	Foxtail barley	5.0	1.5	30.0	0.1	2.6	2.6	3.2
23	Cow cockle	10.0	1.0	10.1	< 0.1	0.4	0.6	3.2
24	Vetch species	6.8	0.7	10.0	0.1	1.8	1.8	2.8
25	Perennial sow-thistle	10.2	0.5	5.0	< 0.1	0.3	0.4	2.7
26	Round-leaved mallow	5.6	0.8	15.0	< 0.1	0.8	0.8	2.2
27	Goat's-beard	6.8	0.3	5.0	< 0.1	0.4	0.4	1.8
28	Pale smartweed	5.6	0.3	5.0	< 0.1	0.2	0.2	1.4
29	Flixweed	5.0	0.3	5.0	< 0.1	0.2	0.2	1.3
30	Sunflower species	5.0	0.3	5.0	< 0.1	0.2	0.2	1.3
31	Common pepper-grass	5.0	0.2	5.0	< 0.1	0.2	0.2	1.3



Table 58. 2000s Mustard in the Mixed Grassland Ecoregion (14 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	53.5	20.9	39.1	4.5	8.5	40.6	61.4
2	Stinkweed	55.6	19.7	35.4	3.3	5.9	29.6	52.4
3	Wild oats	53.7	15.0	27.9	1.5	2.8	8.8	36.1
4	Kochia	57.7	12.3	21.3	1.0	1.8	6.2	31.3
5	Redroot pigweed	33.6	9.0	26.9	1.3	4.0	14.0	24.8
6	Wheat	20.3	5.3	26.0	1.6	7.7	23.0	19.9
7	Green foxtail	26.8	7.0	26.0	0.8	3.1	5.4	18.0
8	Lamb's-quarters	19.7	2.0	10.0	0.1	0.5	0.6	7.0
9	Flixweed	13.5	2.7	20.0	0.1	0.9	1.2	6.4
10	Wild mustard	6.9	2.4	35.0	0.1	1.8	1.8	4.6
11	Tumble mustard	6.8	1.7	25.0	0.2	2.6	2.6	4.3
12	Tumble pigweed	6.8	1.4	20.0	0.2	3.2	3.2	4.2
13	Barley	6.6	2.0	30.0	0.1	1.6	1.6	4.1
14	Cow cockle	6.8	1.0	15.0	0.1	1.4	1.4	3.1
15	Pygmyflower	6.8	1.0	15.0	< 0.1	0.6	0.6	2.8
16	Barnyard grass	7.1	0.7	10.0	0.1	1.0	1.0	2.7
17	Biennial wormwood	7.1	0.7	10.0	< 0.1	0.4	0.4	2.5
18	Vetch species	6.8	0.7	10.0	< 0.1	0.6	0.6	2.4
19	Dandelion	6.8	0.7	10.0	< 0.1	0.4	0.4	2.4
20	Canada fleabane	6.9	0.3	5.0	< 0.1	0.2	0.2	2.0
21	Rough cinquefoil	6.8	0.3	5.0	< 0.1	0.2	0.2	2.0
22	Prickly lettuce	6.8	0.3	5.0	< 0.1	0.2	0.2	2.0
23	Russian thistle	6.6	0.3	5.0	< 0.1	0.2	0.2	1.9
24	Wild tomato	6.6	0.3	5.0	< 0.1	0.2	0.2	1.9

**Field Survey Summary Tables – 2000s Field Peas**

Table 59. 2000s Field peas (144 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	57.9	21.3	36.8	4.8	8.2	66.6	38.5
2	Wild buckwheat	61.7	16.7	27.1	2.3	3.7	43.2	28.4
3	Green foxtail	26.8	10.1	37.7	4.3	16.1	135.2	24.6
4	Stinkweed	23.7	7.1	29.9	2.8	12.0	203.2	17.5
5	Wheat	29.6	9.7	32.8	1.6	5.3	33.4	16.2
6	Canada thistle	40.3	8.4	20.7	1.0	2.6	29.4	15.3
7	Lamb's-quarters	33.4	7.3	21.8	0.7	2.2	17.0	12.5
8	Narrow-leaved hawk's-beard	21.3	5.7	26.6	1.1	5.3	55.6	10.8
9	Canola/rapeseed	24.4	5.5	22.7	0.7	3.1	17.2	10.0
10	Perennial sow-thistle	26.3	4.4	16.7	0.5	1.8	11.6	8.7
11	Pineappleweed	6.3	2.5	39.7	1.5	24.2	172.4	7.5
12	Shepherd's-purse	13.5	3.2	24.0	1.0	7.1	90.4	7.4
13	Spiny annual sow-thistle	12.5	3.3	26.7	0.9	7.4	83.6	7.1
14	Quack grass	11.1	2.7	24.0	0.9	8.5	84.8	6.5
15	Dandelion	19.4	3.4	17.7	0.3	1.6	21.4	6.4
16	Kochia	16.0	3.0	19.0	0.3	2.0	18.2	5.6
17	Foxtail barley	6.6	1.7	25.7	0.9	12.9	96.0	4.9
18	Chickweed	9.6	2.5	25.7	0.5	5.6	31.2	4.9
19	Pale smartweed	8.8	2.2	24.6	0.5	6.2	53.4	4.6
20	Russian thistle	8.9	2.7	30.4	0.4	4.7	17.8	4.6
21	Hemp-nettle	9.3	2.1	22.2	0.5	5.6	44.4	4.5
22	Cleavers	8.4	1.9	22.6	0.3	3.9	13.2	3.6
23	Barley	6.4	2.0	31.3	0.3	4.2	13.2	3.2
24	Field horsetail	7.1	1.6	22.9	0.2	3.1	11.4	2.9
25	Flax	4.0	1.5	37.5	0.4	9.7	25.2	2.9
26	Redroot pigweed	9.6	1.5	15.2	0.1	1.0	4.2	2.8
27	Oats	0.7	0.7	100.0	0.7	104.4	104.4	2.7
28	Wild mustard	9.5	0.9	9.5	0.1	0.8	2.6	2.4
29	Biennial wormwood	8.4	0.9	11.3	0.1	0.7	2.4	2.2
30	Stork's-bill	3.6	1.5	41.7	0.1	3.0	8.8	1.9
31	Common groundsel	6.2	1.0	15.7	0.1	1.2	4.6	1.9
32	Flixweed	6.2	0.9	13.9	0.1	0.9	2.4	1.7
33	Barnyard grass	5.2	0.8	15.2	0.1	1.8	6.0	1.7
34	Bluebur	6.2	0.7	11.3	0.1	0.8	3.0	1.6
35	Round-leaved mallow	4.7	0.9	19.0	0.1	1.4	5.2	1.5
36	Night-flowering catchfly	2.0	0.7	36.5	0.2	11.2	31.6	1.5
37	Low cudweed	3.4	0.6	16.5	0.1	3.5	15.0	1.3
38	Prostrate knotweed	3.4	0.8	23.7	0.1	1.7	4.0	1.3
39	Clover species	2.6	0.7	27.5	0.1	2.8	6.8	1.1
40	Persian darnel	4.1	0.3	8.4	0.1	1.3	3.0	1.1
41	Lentils	1.4	0.8	55.2	0.1	6.6	11.6	1.0
42	Yellow sweet-clover	1.5	0.6	41.3	0.1	5.2	9.2	0.9
43	Prickly lettuce	3.3	0.3	9.0	< 0.1	0.7	2.2	0.8
44	Broad-leaved plantain	1.9	0.5	24.6	0.1	3.4	7.4	0.8
45	Black medick	2.8	0.3	11.3	< 0.1	1.5	4.2	0.8
46	Vetch species	2.8	0.3	10.1	< 0.1	0.6	1.2	0.7
47	Thyme-leaved spurge	2.7	0.3	10.0	< 0.1	0.8	1.4	0.7
48	Scentless chamomile	1.4	0.4	27.6	0.1	4.9	9.6	0.7
49	Rough cinquefoil	1.2	0.3	26.7	0.1	5.4	15.0	0.6
50	Smooth brome	1.4	0.4	25.0	< 0.1	2.6	3.6	0.6
51	Cow cockle	2.3	0.2	9.5	< 0.1	0.8	1.2	0.6
52	Canada fleabane	2.1	0.2	11.6	< 0.1	0.6	1.4	0.5
53	Yellow toadflax	1.3	0.2	14.9	< 0.1	2.5	4.4	0.5
54	Downy brome	0.7	0.3	45.0	< 0.1	4.6	4.6	0.4

(Table continued on next page)

Table 59. 2000s Field peas (144 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Prostrate pigweed	1.4	0.2	15.0	< 0.1	0.6	1.0	0.4
56	American dragonhead	1.3	0.2	14.9	< 0.1	0.6	1.0	0.4
57	Ground-ivy	1.1	0.1	8.9	< 0.1	3.0	7.4	0.3
58	Alfalfa	1.6	0.1	5.0	< 0.1	0.2	0.2	0.3
59	Chickpea	0.7	0.2	30.0	< 0.1	1.6	1.6	0.3
60	Wild tomato	1.3	0.1	5.0	< 0.1	0.3	0.4	0.3
61	Dog mustard	0.7	0.1	20.0	< 0.1	0.8	0.8	0.2
62	Common yarrow	0.8	0.1	10.0	< 0.1	0.8	0.8	0.2
63	Bicknell's geranium	0.6	0.1	20.0	< 0.1	0.8	0.8	0.2
64	Rose species	0.9	< 0.1	5.0	< 0.1	0.8	0.8	0.2
65	Absinth	0.7	0.1	10.0	< 0.1	2.0	2.0	0.2
66	False flax species	0.8	< 0.1	5.0	< 0.1	0.8	0.8	0.2
67	Green tansy mustard	0.7	0.1	10.0	< 0.1	0.4	0.4	0.2
68	Tumble mustard	0.7	0.1	10.0	< 0.1	0.4	0.4	0.2
69	Spear-leaved goosefoot	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.2
70	Poplar species	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.1
71	Dock species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
72	Small-leaved lamb's-quarters	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
73	White cockle	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
74	Purslane speedwell	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
75	Goat's-beard	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
76	Pasture sage	0.4	< 0.1	10.0	< 0.1	1.0	1.0	0.1

**Field Survey Summary Tables – 2000s Field Peas**

Table 60. 2000s Field peas in the Boreal Transition Ecoregion (20 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	52.1	22.2	42.7	2.9	5.5	20.6	39.8
2	Quack grass	29.0	10.0	34.6	5.3	18.2	84.8	38.2
3	Lamb's-quarters	63.5	14.3	22.5	1.4	2.2	8.6	28.5
4	Hemp-nettle	22.7	9.1	40.1	3.0	13.3	44.4	25.5
5	Wild oats	27.0	10.8	39.8	1.9	7.0	14.8	22.0
6	Narrow-leaved hawk's-beard	35.0	7.3	20.9	0.9	2.6	13.2	16.0
7	Canada thistle	49.5	4.7	9.4	0.4	0.9	5.4	14.2
8	Wheat	27.0	7.0	25.8	0.8	3.1	8.8	14.0
9	Chickweed	28.8	7.0	24.1	0.6	1.9	6.8	12.9
10	Spiny annual sow-thistle	22.7	5.9	26.1	0.8	3.4	13.6	12.1
11	Canola/rapeseed	22.7	5.7	24.9	0.8	3.3	13.0	11.8
12	Field horsetail	27.8	5.6	20.1	0.4	1.4	3.4	11.0
13	Perennial sow-thistle	34.8	2.2	6.3	0.1	0.3	0.6	8.2
14	Pale smartweed	18.1	3.0	16.7	0.5	2.8	11.0	7.9
15	Dandelion	18.5	3.5	18.7	0.2	1.2	2.0	6.9
16	Cleavers	13.8	0.9	6.7	0.1	0.4	0.8	3.3
17	Low cudweed	12.1	1.2	10.0	< 0.1	0.4	0.4	3.2
18	Green foxtail	9.3	0.7	7.4	0.1	1.3	2.0	2.7
19	Stinkweed	4.6	1.6	35.0	0.1	2.8	2.8	2.6
20	Flax	9.4	0.9	10.1	< 0.1	0.5	0.8	2.6
21	Stork's-bill	5.6	1.4	25.0	0.1	1.2	1.2	2.4
22	Pineappleweed	4.5	1.6	35.0	0.1	1.4	1.4	2.3
23	Bluebur	4.5	0.9	20.0	< 0.1	0.8	0.8	1.6
24	Prickly lettuce	4.8	0.5	10.0	< 0.1	0.4	0.4	1.3
25	Night-flowering catchfly	4.6	0.5	10.0	< 0.1	0.6	0.6	1.3
26	Shepherd's-purse	4.5	0.5	10.0	< 0.1	0.4	0.4	1.2
27	Clover species	4.5	0.5	10.0	< 0.1	0.4	0.4	1.2
28	Wild mustard	4.6	0.2	5.0	< 0.1	1.0	1.0	1.2
29	Common groundsel	4.5	0.2	5.0	< 0.1	0.2	0.2	1.0
30	Black medick	4.5	0.2	5.0	< 0.1	0.2	0.2	1.0
31	Biennial wormwood	4.5	0.2	5.0	< 0.1	0.2	0.2	1.0
32	Yellow sweet-clover	4.5	0.2	5.0	< 0.1	0.2	0.2	1.0

Table 61. 2000s Field peas in the Aspen Parkland Ecoregion (53 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	69.7	30.0	43.1	6.9	9.9	35.8	44.1
2	Wild buckwheat	64.7	20.0	30.9	3.2	5.0	43.2	28.3
3	Canada thistle	64.8	16.3	25.2	2.1	3.3	29.4	23.4
4	Stinkweed	30.2	8.4	27.9	4.2	13.8	203.2	19.8
5	Green foxtail	24.5	8.0	32.6	3.1	12.7	63.0	15.9
6	Wheat	35.1	11.2	31.8	1.7	4.7	16.4	15.3
7	Perennial sow-thistle	46.8	10.1	21.6	1.2	2.6	11.6	15.1
8	Lamb's-quarters	38.8	9.5	24.4	1.1	2.8	17.0	13.4
9	Shepherd's-purse	26.2	6.4	24.4	2.3	8.8	90.4	13.2
10	Spiny annual sow-thistle	19.3	6.4	33.1	2.2	11.4	83.6	12.0
11	Canola/rapeseed	31.5	6.5	20.7	0.9	2.9	17.2	10.3
12	Narrow-leaved hawk's-beard	22.8	5.9	25.8	1.4	6.2	55.6	10.1
13	Chickweed	13.2	3.9	29.7	1.2	9.4	31.2	7.2
14	Pale smartweed	13.1	3.9	29.7	1.2	9.1	53.4	7.0
15	Dandelion	24.6	2.9	12.0	0.2	0.7	4.2	5.5
16	Quack grass	15.2	2.6	17.4	0.4	2.3	11.4	4.5
17	Barley	11.4	3.5	30.2	0.4	3.1	8.8	4.4
18	Cleavers	9.8	2.5	25.3	0.4	4.4	13.0	3.8
19	Hemp-nettle	13.2	1.9	14.2	0.2	1.9	7.2	3.5
20	Russian thistle	4.6	3.0	65.8	0.5	10.1	11.8	3.5
21	Pineappleweed	7.6	1.8	23.6	0.5	6.5	23.4	3.3
22	Stork's-bill	5.5	3.3	59.2	0.2	4.5	8.8	3.2
23	Wild mustard	13.2	1.3	9.7	0.1	0.6	2.0	2.8
24	Common groundsel	9.3	1.5	16.4	0.1	0.9	3.4	2.3
25	Biennial wormwood	9.5	1.0	10.8	0.1	0.8	2.4	2.1
26	Bluebur	9.3	0.9	9.6	0.1	0.9	3.0	2.0
27	Flax	3.6	1.0	27.5	0.3	9.3	18.4	1.9
28	Barnyard grass	8.7	0.8	9.0	< 0.1	0.5	1.0	1.8
29	Scentsless chamomile	3.7	1.0	27.6	0.2	4.9	9.6	1.5
30	Foxtail barley	1.9	0.5	25.0	0.4	19.8	19.8	1.5
31	Round-leaved mallow	5.3	0.9	17.8	< 0.1	0.8	1.4	1.3
32	Smooth brome	3.9	1.0	25.0	0.1	2.6	3.6	1.3
33	Flixweed	5.6	0.7	13.1	0.1	1.2	2.4	1.3
34	Persian darnel	5.7	0.5	8.4	0.1	1.4	3.0	1.3
35	Redroot pigweed	6.0	0.6	9.4	< 0.1	0.6	1.4	1.2
36	Field horsetail	3.9	0.7	17.4	0.1	3.0	4.2	1.2
37	Black medick	3.9	0.7	17.5	0.1	2.7	4.2	1.2
38	Prostrate knotweed	3.9	0.9	22.3	< 0.1	1.2	1.6	1.1
39	Yellow toadflax	3.6	0.5	14.9	0.1	2.5	4.4	1.0
40	Downy brome	2.0	0.9	45.0	0.1	4.6	4.6	1.0
41	Night-flowering catchfly	1.8	0.6	30.0	< 0.1	2.0	2.0	0.7
42	Clover species	1.8	0.5	30.0	< 0.1	1.2	1.2	0.6
43	Dog mustard	2.0	0.4	20.0	< 0.1	0.8	0.8	0.5
44	Absinth	1.9	0.2	10.0	< 0.1	2.0	2.0	0.5
45	Vetch species	1.8	0.2	10.0	< 0.1	1.2	1.2	0.4
46	False flax species	2.1	0.1	5.0	< 0.1	0.8	0.8	0.4
47	Spear-leaved goosefoot	2.0	0.1	5.0	< 0.1	0.4	0.4	0.3
48	Cow cockle	2.0	0.1	5.0	< 0.1	0.2	0.2	0.3
49	Kochia	2.0	0.1	5.0	< 0.1	0.2	0.2	0.3
50	Poplar species	1.8	0.1	5.0	< 0.1	0.4	0.4	0.3
51	White cockle	1.8	0.1	5.0	< 0.1	0.2	0.2	0.3
52	Purslane speedwell	1.8	0.1	5.0	< 0.1	0.2	0.2	0.3
53	Ground-ivy	1.8	0.1	5.0	< 0.1	0.2	0.2	0.3

**Field Survey Summary Tables – 2000s Field Peas**

Table 62. 2000s Field peas in the Moist Mixed Grassland Ecoregion (33 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	42.5	21.7	51.2	9.9	23.2	135.2	55.8
2	Wild oats	55.0	21.5	39.0	6.5	11.9	66.6	47.5
3	Wild buckwheat	73.2	17.5	23.9	2.0	2.7	11.0	33.7
4	Stinkweed	20.4	5.1	24.8	2.7	13.2	89.0	16.3
5	Canada thistle	31.2	6.0	19.2	0.6	1.9	7.4	12.4
6	Oats	2.9	2.9	100.0	3.0	104.4	104.4	12.3
7	Kochia	19.4	5.5	28.3	0.9	4.6	18.2	10.7
8	Canola/rapeseed	20.8	5.3	25.5	0.8	3.9	13.8	10.6
9	Lamb's-quarters	23.7	4.4	18.4	0.3	1.3	3.0	8.9
10	Flax	5.8	4.4	75.0	1.1	19.4	25.2	8.0
11	Redroot pigweed	20.6	4.1	20.2	0.3	1.3	4.2	8.0
12	Wheat	21.2	3.3	15.7	0.2	0.9	4.0	7.3
13	Narrow-leaved hawk's-beard	14.7	3.4	22.8	0.3	2.2	6.8	6.4
14	Foxtail barley	12.2	3.0	24.5	0.2	1.9	7.0	5.4
15	Dandelion	15.7	2.5	16.1	0.1	0.8	1.6	5.3
16	Night-flowering catchfly	2.8	2.0	70.0	0.9	31.6	31.6	4.9
17	Round-leaved mallow	8.9	2.1	23.1	0.2	2.2	5.2	3.9
18	Cleavers	5.7	1.3	22.5	0.4	6.8	13.2	3.3
19	Barnyard grass	5.9	1.8	30.2	0.2	3.8	6.0	3.2
20	Prostrate knotweed	5.8	1.6	27.0	0.1	2.3	4.0	2.7
21	Wild mustard	8.6	1.0	11.6	< 0.1	0.5	0.8	2.6
22	Shepherd's-purse	6.3	0.9	14.5	0.1	1.5	3.0	2.2
23	Biennial wormwood	9.0	0.4	5.0	< 0.1	0.3	0.6	2.2
24	Flixweed	6.1	0.9	15.6	0.1	0.9	1.6	2.1
25	Prostrate pigweed	6.0	0.9	15.0	< 0.1	0.6	1.0	1.9
26	Quack grass	2.8	0.8	30.0	0.2	7.4	7.4	1.8
27	Vetch species	6.2	0.6	10.2	< 0.1	0.4	0.6	1.8
28	Thyme-leaved spurge	5.8	0.4	7.4	< 0.1	0.4	0.6	1.5
29	Spiny annual sow-thistle	5.8	0.4	7.4	< 0.1	0.3	0.4	1.5
30	Perennial sow-thistle	6.3	0.3	5.0	< 0.1	0.2	0.2	1.5
31	Wild tomato	5.8	0.3	5.0	< 0.1	0.3	0.4	1.4
32	Pale smartweed	2.8	0.7	25.0	0.1	3.2	3.2	1.4
33	Canada fleabane	3.0	0.7	25.0	< 0.1	1.4	1.4	1.3
34	Lentils	3.0	0.6	20.0	< 0.1	1.6	1.6	1.2
35	American dragonhead	2.8	0.7	25.0	< 0.1	1.0	1.0	1.2
36	Russian thistle	4.0	0.4	10.0	< 0.1	0.8	0.8	1.2
37	Cow cockle	4.0	0.2	5.0	< 0.1	1.2	1.2	1.1
38	Rose species	4.0	0.2	5.0	< 0.1	0.8	0.8	1.0
39	Bluebur	3.0	0.3	10.0	< 0.1	0.4	0.4	0.8
40	Prickly lettuce	2.9	0.3	10.0	< 0.1	0.6	0.6	0.8
41	Barley	3.0	0.1	5.0	< 0.1	1.0	1.0	0.8
42	Black medick	3.3	0.2	5.0	< 0.1	0.2	0.2	0.8
43	Dock species	3.0	0.1	5.0	< 0.1	0.2	0.2	0.7
44	Chickweed	2.8	0.1	5.0	< 0.1	0.6	0.6	0.7

Table 63. 2000s Field peas in the Mixed Grassland Ecoregion (31 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	31.4	9.8	31.2	4.2	13.3	77.8	41.5
2	Wild oats	63.5	15.5	24.5	1.8	2.8	19.2	41.3
3	Wheat	34.5	15.2	44.0	2.9	8.3	33.4	40.5
4	Foxtail barley	12.7	3.7	28.7	3.1	24.1	96.0	24.3
5	Kochia	50.1	8.0	16.1	0.5	1.1	4.8	23.0
6	Wild buckwheat	45.5	6.5	14.3	0.9	2.0	9.2	22.4
7	Russian thistle	29.5	7.1	24.0	1.2	3.9	17.8	20.9
8	Stinkweed	15.8	5.0	31.8	1.1	7.2	27.6	15.5
9	Lamb's-quarters	18.7	2.8	15.0	0.2	1.2	3.2	8.6
10	Lentils	3.2	2.9	90.0	0.4	11.6	11.6	6.0
11	Flixweed	12.6	1.7	13.7	0.1	0.7	1.4	5.2
12	Redroot pigweed	12.5	1.4	11.2	0.1	0.8	1.4	4.9
13	Wild mustard	9.2	0.8	8.3	0.1	1.6	2.6	3.7
14	Persian darnel	9.4	0.8	8.3	0.1	1.1	2.6	3.6
15	Prickly lettuce	9.2	0.8	8.3	0.1	0.9	2.2	3.4
16	Dandelion	10.2	0.7	7.1	< 0.1	0.4	0.6	3.3
17	Canola/rapeseed	9.3	0.6	6.7	< 0.1	0.3	0.4	2.9
18	Thyme-leaved spurge	6.4	0.8	12.5	0.1	1.1	1.4	2.7
19	Field horsetail	3.2	0.6	20.0	0.2	5.6	5.6	2.4
20	Canada thistle	4.2	0.6	15.0	0.1	2.6	2.6	2.3
21	Alfalfa	7.3	0.4	5.0	< 0.1	0.2	0.2	2.1
22	Biennial wormwood	3.3	1.0	30.0	< 0.1	1.4	1.4	2.1
23	Chickpea	3.2	1.0	30.0	0.1	1.6	1.6	2.0
24	Barnyard grass	3.2	0.5	15.0	0.1	3.8	3.8	1.9
25	Canada fleabane	6.4	0.3	5.0	< 0.1	0.2	0.2	1.9
26	Prostrate knotweed	3.2	0.6	20.0	0.1	1.6	1.6	1.7
27	Cow cockle	3.2	0.6	20.0	< 0.1	0.8	0.8	1.6
28	Vetch species	3.3	0.3	10.0	< 0.1	0.6	0.6	1.2
29	Round-leaved mallow	3.2	0.3	10.0	< 0.1	0.4	0.4	1.1
30	Green tansy mustard	3.2	0.3	10.0	< 0.1	0.4	0.4	1.1
31	Tumble mustard	3.2	0.3	10.0	< 0.1	0.4	0.4	1.1
32	Narrow-leaved hawk's-beard	2.9	0.3	10.0	< 0.1	0.6	0.6	1.1
33	Small-leaved lamb's-quarters	3.1	0.2	5.0	< 0.1	0.2	0.2	0.9
34	Goat's-beard	3.1	0.2	5.0	< 0.1	0.2	0.2	0.9
35	Perennial sow-thistle	2.9	0.1	5.0	< 0.1	0.2	0.2	0.9

**Field Survey Summary Tables – 2000s Lentils**

Table 64. 2000s Lentils (73 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	36.1	11.6	32.2	12.2	33.7	323.4	66.4
2	Wild oats	39.0	12.2	31.3	3.2	8.3	107.6	34.7
3	Stinkweed	26.8	9.6	35.7	2.7	10.0	103.8	26.9
4	Redroot pigweed	29.9	6.7	22.4	2.5	8.3	121.8	23.7
5	Kochia	28.8	7.0	24.4	2.2	7.5	99.8	22.6
6	Wild buckwheat	43.8	8.7	19.8	0.7	1.5	11.4	22.5
7	Wheat	20.3	4.5	22.0	0.4	2.1	12.8	11.3
8	Canada thistle	27.8	3.1	11.0	0.2	0.9	3.4	10.9
9	Wild mustard	20.1	3.6	18.2	0.5	2.4	26.8	10.6
10	Flixweed	16.7	2.7	16.4	0.2	1.3	4.8	7.8
11	Lamb's-quarters	15.7	2.6	16.8	0.2	1.0	3.4	7.2
12	Flax	4.3	2.9	68.1	0.7	16.6	30.4	6.8
13	Russian thistle	11.0	1.6	14.8	0.2	1.6	5.4	5.1
14	Barnyard grass	8.5	1.8	21.5	0.3	3.1	6.4	5.1
15	Prickly lettuce	13.3	0.9	6.9	< 0.1	0.4	1.0	4.4
16	Dandelion	6.7	1.7	25.8	0.1	1.4	3.4	3.9
17	Cow cockle	3.9	1.4	34.8	0.1	2.8	5.4	2.8
18	Thyme-leaved spurge	8.0	0.6	7.6	< 0.1	0.3	0.8	2.7
19	Canada fleabane	5.3	1.1	20.3	0.1	1.1	2.8	2.7
20	Canola/rapeseed	5.4	0.8	14.1	< 0.1	0.6	1.2	2.2
21	Foxtail barley	5.3	0.6	11.3	< 0.1	0.8	1.6	2.1
22	White mustard	1.2	1.0	85.0	0.2	12.4	12.4	2.0
23	Barley	2.6	0.7	27.2	0.1	3.4	4.4	1.8
24	Goat's-beard	4.0	0.5	11.7	< 0.1	0.5	0.8	1.5
25	Field bindweed	1.3	0.9	65.0	< 0.1	3.4	3.4	1.4
26	Field horsetail	1.3	0.6	45.0	0.1	8.6	8.6	1.4
27	Tumble mustard	4.0	0.3	6.6	< 0.1	0.3	0.4	1.3
28	Field peas	3.9	0.3	6.7	< 0.1	0.3	0.4	1.3
29	Dock species	2.6	0.3	12.5	< 0.1	0.8	1.0	1.1
30	Common pepper-grass	2.7	0.2	7.5	< 0.1	0.4	0.6	0.9
31	Dog mustard	1.4	0.4	25.0	< 0.1	1.0	1.0	0.8
32	Prostrate knotweed	1.4	0.1	10.0	< 0.1	1.0	1.0	0.5
33	Canary grass	1.4	0.1	10.0	< 0.1	0.6	0.6	0.5
34	Biennial wormwood	1.4	0.1	10.0	< 0.1	0.4	0.4	0.5
35	Purslane speedwell	1.4	0.1	5.0	< 0.1	0.6	0.6	0.4
36	Quack grass	1.4	0.1	5.0	< 0.1	0.2	0.2	0.4
37	Sunflower species	1.4	0.1	5.0	< 0.1	0.2	0.2	0.4
38	Black medick	1.4	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Perennial sow-thistle	1.4	0.1	5.0	< 0.1	0.2	0.2	0.4
40	Spiny annual sow-thistle	1.3	0.1	5.0	< 0.1	0.2	0.2	0.4



Table 65. 2000s Lentils in the Moist Mixed Grassland Ecoregion (44 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	35.5	9.3	26.1	11.7	33.1	323.4	69.2
2	Wild oats	39.6	13.2	33.4	2.6	6.5	54.4	36.4
3	Redroot pigweed	34.9	8.2	23.6	3.8	11.0	121.8	34.7
4	Wild buckwheat	36.5	6.5	17.8	0.4	1.0	3.4	18.5
5	Stinkweed	25.4	7.2	28.3	0.8	3.3	18.6	18.4
6	Canada thistle	42.4	4.6	10.8	0.4	0.8	3.4	17.7
7	Kochia	23.9	6.0	25.1	0.5	2.1	5.2	15.2
8	Wild mustard	17.9	4.6	25.6	0.7	4.1	26.8	13.0
9	Flax	5.2	4.0	77.3	1.1	21.7	30.4	10.7
10	Lamb's-quarters	14.3	2.8	19.3	0.2	1.1	3.4	7.6
11	Dandelion	11.3	2.9	25.8	0.2	1.4	3.4	7.0
12	Wheat	14.3	1.3	9.2	0.1	0.7	1.2	5.6
13	Barnyard grass	7.5	1.9	26.0	0.3	3.7	6.4	5.3
14	Russian thistle	9.6	1.4	14.7	0.2	2.0	5.4	4.9
15	Canola/rapeseed	9.1	1.3	14.1	0.1	0.6	1.2	4.0
16	Canada fleabane	6.7	1.6	23.7	0.1	1.2	2.8	3.9
17	Flixweed	6.9	1.4	19.9	0.1	1.6	3.4	3.8
18	Prickly lettuce	8.8	0.7	7.5	< 0.1	0.4	0.6	3.2
19	Thyme-leaved spurge	8.9	0.6	6.2	< 0.1	0.2	0.4	3.0
20	Field bindweed	2.2	1.5	65.0	0.1	3.4	3.4	2.6
21	Field horsetail	2.2	1.0	45.0	0.2	8.6	8.6	2.5
22	Field peas	6.6	0.4	6.7	< 0.1	0.3	0.4	2.3
23	Goat's-beard	4.5	0.7	15.1	< 0.1	0.6	0.8	2.1
24	Dock species	4.5	0.6	12.5	< 0.1	0.8	1.0	1.9
25	Barley	2.2	0.8	35.0	0.1	4.4	4.4	1.8
26	Dog mustard	2.4	0.6	25.0	< 0.1	1.0	1.0	1.4
27	Foxtail barley	2.2	0.2	10.0	< 0.1	1.6	1.6	1.0
28	Biennial wormwood	2.3	0.2	10.0	< 0.1	0.4	0.4	0.9
29	Cow cockle	2.2	0.1	5.0	< 0.1	0.2	0.2	0.7
30	Spiny annual sow-thistle	2.2	0.1	5.0	< 0.1	0.2	0.2	0.7

**Field Survey Summary Tables – 2000s Lentils**

Table 66. 2000s Lentils in the Mixed Grassland Ecoregion (26 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	37.3	16.4	43.9	14.1	37.8	322.6	64.2
2	Stinkweed	32.2	14.6	45.2	6.0	18.5	103.8	38.1
3	Wild oats	38.7	11.6	30.1	4.6	12.0	107.6	33.0
4	Kochia	40.0	9.5	23.8	5.1	12.7	99.8	32.5
5	Wild buckwheat	49.1	11.7	23.7	1.1	2.3	11.4	25.2
6	Wheat	28.5	9.3	32.6	0.9	3.2	12.8	17.7
7	Flixweed	34.4	5.3	15.3	0.4	1.2	4.8	13.9
8	Redroot pigweed	25.4	5.0	19.5	0.6	2.2	4.4	12.0
9	Wild mustard	22.0	2.3	10.7	0.1	0.7	3.0	7.6
10	Lamb's-quarters	16.0	2.4	14.9	0.1	0.8	2.0	6.2
11	Russian thistle	14.5	2.2	15.0	0.2	1.2	2.4	5.8
12	Cow cockle	7.0	3.5	50.0	0.3	4.2	5.4	5.7
13	Prickly lettuce	18.3	1.3	7.0	0.1	0.4	1.0	5.5
14	Barnyard grass	11.2	1.9	16.7	0.3	2.6	4.8	5.1
15	White mustard	3.3	2.8	85.0	0.4	12.4	12.4	4.6
16	Foxtail barley	10.9	1.3	11.8	0.1	0.5	1.0	3.8
17	Tumble mustard	10.9	0.7	6.6	< 0.1	0.3	0.4	3.2
18	Flax	3.3	1.5	45.0	0.1	4.0	4.0	2.5
19	Common pepper-grass	7.4	0.5	7.5	< 0.1	0.4	0.6	2.3
20	Barley	3.7	0.7	20.0	0.1	2.4	2.4	1.8
21	Canada thistle	3.7	0.6	15.0	0.1	1.4	1.4	1.5
22	Prostrate knotweed	3.7	0.4	10.0	< 0.1	1.0	1.0	1.3
23	Canada fleabane	3.6	0.4	10.0	< 0.1	0.8	0.8	1.2
24	Sunflower species	3.7	0.2	5.0	< 0.1	0.2	0.2	1.0
25	Black medick	3.7	0.2	5.0	< 0.1	0.2	0.2	1.0
26	Perennial sow-thistle	3.7	0.2	5.0	< 0.1	0.2	0.2	1.0
27	Thyme-leaved spurge	3.7	0.2	5.0	< 0.1	0.2	0.2	1.0
28	Goat's-beard	3.6	0.2	5.0	< 0.1	0.2	0.2	1.0

Table 67. 1990s (2294 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	46.3	19.7	42.6	10.4	22.4	1693.2	44.1
2	Wild oats	63.5	20.2	31.8	5.4	8.4	403.4	34.7
3	Wild buckwheat	63.6	21.7	34.1	2.7	4.3	167.6	29.2
4	Stinkweed	36.5	11.1	30.3	3.0	8.3	348.2	19.5
5	Canada thistle	49.7	11.1	22.2	1.2	2.5	61.8	17.2
6	Chickweed	11.5	4.9	42.3	3.3	28.5	619.8	12.6
7	Lamb's-quarters	29.8	6.6	22.3	0.9	3.2	141.2	10.8
8	Perennial sow-thistle	30.0	6.5	21.6	0.8	2.7	74.0	10.4
9	Shepherd's-purse	17.8	4.5	25.4	1.0	5.8	198.8	7.9
10	Redroot pigweed	22.7	4.9	21.5	0.6	2.8	63.8	7.9
11	Wild mustard	17.3	4.0	23.1	0.5	2.7	40.6	6.2
12	Cleavers	11.5	3.9	34.4	0.8	7.4	244.0	6.1
13	Quack grass	14.4	3.1	21.2	0.9	6.0	181.0	6.1
14	Dandelion	21.7	3.5	16.3	0.3	1.3	76.4	6.1
15	Pale smartweed	17.7	3.5	19.8	0.5	2.8	133.0	6.0
16	Russian thistle	14.4	3.0	21.0	0.5	3.4	138.0	5.2
17	Canola/rapeseed	11.0	3.3	30.0	0.6	5.3	95.2	5.1
18	Field horsetail	10.1	2.5	25.1	0.8	8.1	201.0	5.0
19	Hemp-nettle	11.3	3.1	27.5	0.5	4.4	55.6	4.8
20	Kochia	11.9	2.4	20.0	0.3	2.8	50.8	4.1
21	Narrow-leaved hawk's-beard	10.5	2.2	21.3	0.3	3.1	51.6	3.7
22	Wheat	9.3	2.0	21.2	0.4	3.9	137.0	3.5
23	Common groundsel	6.1	1.8	29.2	0.5	8.9	138.6	3.3
24	Thyme-leaved spurge	6.0	1.7	28.3	0.2	4.1	41.6	2.5
25	Barnyard grass	5.5	1.1	20.4	0.4	7.3	224.8	2.5
26	Flax	3.9	1.3	34.0	0.3	8.7	83.6	2.2
27	Pineappleweed	3.7	0.8	22.2	0.4	10.6	258.6	2.0
28	Bluebur	6.1	0.9	15.4	0.1	2.0	40.0	1.8
29	Persian darnel	2.4	0.6	24.0	0.4	17.8	243.6	1.8
30	Flixweed	6.8	0.8	12.3	0.1	0.9	10.2	1.7
31	Night-flowering catchfly	4.5	1.1	23.5	0.1	3.2	46.0	1.7
32	Cow cockle	4.5	0.9	20.9	0.2	3.4	30.2	1.6
33	Barley	4.0	1.0	24.2	0.1	3.6	60.4	1.5
34	Corn spurry	2.4	0.6	23.0	0.3	11.8	161.8	1.4
35	Round-leaved mallow	4.4	0.7	16.8	0.1	1.7	25.6	1.3
36	Prostrate knotweed	3.8	0.5	14.1	0.1	1.5	24.0	1.0
37	Yellow sweet-clover	1.2	0.5	42.1	0.2	18.0	48.8	1.0
38	Rose species	3.9	0.4	9.8	< 0.1	1.0	9.8	0.9
39	Spiny annual sow-thistle	2.8	0.5	19.1	0.1	2.1	29.4	0.9
40	Stork's-bill	1.7	0.5	31.2	0.1	8.0	59.0	0.9
41	Clover species	2.5	0.5	21.3	0.1	2.9	30.6	0.9
42	Low cudweed	0.5	0.2	29.4	0.3	50.0	363.8	0.8
43	Alfalfa	2.1	0.3	15.0	< 0.1	1.3	9.8	0.6
44	Broad-leaved plantain	2.1	0.3	14.7	< 0.1	1.4	14.4	0.6
45	Field violet	0.2	0.1	37.3	0.2	130.2	421.6	0.6
46	Foxtail barley	2.2	0.2	10.7	< 0.1	1.2	9.6	0.5
47	Prostrate pigweed	1.9	0.2	10.5	< 0.1	1.1	15.6	0.5
48	Dog mustard	1.3	0.3	20.5	< 0.1	2.9	27.0	0.4
49	Absinth	1.1	0.3	28.0	< 0.1	1.7	5.4	0.4
50	Ball mustard	1.4	0.2	17.2	< 0.1	1.6	13.6	0.4
51	Canada fleabane	1.5	0.2	11.5	< 0.1	0.8	4.2	0.4
52	Biennial wormwood	1.5	0.1	9.7	< 0.1	1.0	11.6	0.4
53	Yellow toadflax	0.7	0.2	32.0	< 0.1	5.6	41.2	0.3
54	Tumble pigweed	1.0	0.2	20.4	< 0.1	2.2	11.0	0.3

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**Field Survey Summary Tables – 1990s**

Table 67. 1990s (2294 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	American dragonhead	1.3	0.1	11.6	< 0.1	1.4	26.8	0.3
56	Canary grass	0.4	0.1	27.6	0.1	22.8	144.2	0.3
57	Vetch species	1.4	0.1	9.1	< 0.1	0.7	3.6	0.3
58	Tartary buckwheat	0.8	0.2	23.1	< 0.1	3.7	26.0	0.3
59	Field peas	1.1	0.2	16.4	< 0.1	1.0	4.4	0.3
60	Wormseed mustard	0.9	0.2	20.9	< 0.1	1.6	8.2	0.3
61	Scentless chamomile	1.0	0.2	15.6	< 0.1	1.4	9.2	0.3
62	Wild tomato	1.3	0.1	7.5	< 0.1	0.5	2.6	0.3
63	Lentils	0.7	0.2	25.1	< 0.1	2.3	12.2	0.3
64	Rough cinquefoil	1.1	0.1	9.7	< 0.1	0.6	3.8	0.2
65	Sunflower species	0.8	0.1	11.8	< 0.1	1.3	11.8	0.2
66	Dock species	0.8	0.1	14.5	< 0.1	1.0	5.2	0.2
67	Common pepper-grass	0.9	0.1	9.5	< 0.1	0.6	2.4	0.2
68	Water smartweed	0.6	0.1	11.0	< 0.1	1.9	8.4	0.2
69	Black medick	0.6	0.1	11.3	< 0.1	0.8	2.8	0.2
70	Showy milkweed	0.4	0.1	16.3	< 0.1	4.5	42.8	0.2
71	Yellow foxtail	0.5	0.1	13.6	< 0.1	2.3	11.6	0.1
72	White cockle	0.3	0.1	35.6	< 0.1	5.0	20.4	0.1
73	White mustard	0.3	0.1	35.0	< 0.1	6.1	31.2	0.1
74	Common ragweed	0.5	0.1	13.1	< 0.1	2.1	14.6	0.1
75	Rye	0.3	0.1	27.4	< 0.1	2.3	6.8	0.1
76	Field bindweed	0.3	0.1	17.6	< 0.1	1.7	6.2	0.1
77	Vetchling species	0.4	< 0.1	11.0	< 0.1	0.9	6.8	0.1
78	Milk-vetch species	0.3	0.1	17.2	< 0.1	1.7	5.4	0.1
79	Wood whitlow-grass	0.3	< 0.1	12.4	< 0.1	2.9	18.0	0.1
80	Povertyweed	0.2	< 0.1	15.8	< 0.1	3.8	8.8	0.1
81	Henbit	0.3	0.1	20.3	< 0.1	1.2	4.6	0.1
82	Nodding thistle	0.2	< 0.1	19.3	< 0.1	1.2	1.6	0.1
83	Tall buttercup	0.3	< 0.1	14.3	< 0.1	0.9	2.2	0.1
84	Oats	0.1	0.1	37.5	< 0.1	4.2	7.6	0.1
85	Leafy spurge	0.3	< 0.1	10.2	< 0.1	1.2	5.0	0.1
86	Willowherb species	0.3	< 0.1	9.4	< 0.1	1.2	8.6	0.1
87	Purslane	0.3	< 0.1	6.8	< 0.1	0.7	3.0	0.1
88	Nightshade species	0.2	< 0.1	19.9	< 0.1	2.8	10.6	0.1
89	Bicknell's geranium	0.3	< 0.1	6.3	< 0.1	0.5	1.6	0.1
90	Prickly lettuce	0.3	< 0.1	7.2	< 0.1	0.5	0.8	0.1
91	Purslane speedwell	0.2	< 0.1	13.1	< 0.1	0.8	2.2	0.1
92	Indian mustard	0.2	< 0.1	18.4	< 0.1	1.1	2.6	0.1
93	Perennial rye grass	0.1	< 0.1	33.0	< 0.1	2.6	3.8	0.1
94	Poplar species	0.2	< 0.1	10.3	< 0.1	0.6	1.2	< 0.1
95	Blue grass species	0.2	< 0.1	18.9	< 0.1	1.3	4.6	< 0.1
96	Cocklebur	0.2	< 0.1	8.5	< 0.1	0.5	1.2	< 0.1
97	Downy brome	0.2	< 0.1	8.0	< 0.1	0.3	0.4	< 0.1
98	Green tansy mustard	0.2	< 0.1	6.0	< 0.1	0.2	0.4	< 0.1
99	Tumble mustard	0.2	< 0.1	6.2	< 0.1	0.2	0.4	< 0.1
100	Goat's-beard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
101	Black-eyed Susan	< 0.1	< 0.1	55.0	< 0.1	9.0	9.0	< 0.1
102	Gray tansy mustard	0.1	< 0.1	9.8	< 0.1	0.7	1.0	< 0.1
103	Caraway	0.1	< 0.1	26.8	< 0.1	2.6	2.6	< 0.1
104	Manitoba maple	0.1	< 0.1	10.0	< 0.1	0.4	0.6	< 0.1
105	Bladder campion	0.1	< 0.1	14.8	< 0.1	0.8	1.2	< 0.1
106	Wild chamomile	0.1	< 0.1	13.3	< 0.1	0.7	1.0	< 0.1
107	Blue lettuce	0.1	< 0.1	5.0	< 0.1	0.3	0.4	< 0.1
108	Timothy	0.1	< 0.1	34.1	< 0.1	2.7	5.4	< 0.1

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Table 67. 1990s (2294 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
109	Tansy	0.1	< 0.1	7.0	< 0.1	0.8	1.6	< 0.1
110	Maple-leaved goosefoot	0.1	< 0.1	8.1	< 0.1	0.3	0.4	< 0.1
111	Sedge species	0.1	< 0.1	7.1	< 0.1	0.6	0.6	< 0.1
112	Spreading dogbane	0.1	< 0.1	5.0	< 0.1	0.4	0.6	< 0.1
113	Smooth brome	0.1	< 0.1	10.9	< 0.1	0.9	2.0	< 0.1
114	Wild rye/wheat grass species	< 0.1	< 0.1	45.0	< 0.1	7.0	7.0	< 0.1
115	Common yarrow	0.1	< 0.1	7.5	< 0.1	3.6	6.8	< 0.1
116	Proso millet	< 0.1	< 0.1	50.0	< 0.1	10.0	10.0	< 0.1
117	Oak-leaved goosefoot	0.1	< 0.1	7.0	< 0.1	1.5	3.4	< 0.1
118	Russian pigweed	0.1	< 0.1	5.0	< 0.1	0.4	0.6	< 0.1
119	Skeletonweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
120	Borage	< 0.1	< 0.1	30.0	< 0.1	2.6	2.6	< 0.1
121	Spear-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
122	Slough grass	< 0.1	< 0.1	5.0	< 0.1	9.6	9.6	< 0.1
123	Giant ragweed	0.1	< 0.1	10.0	< 0.1	0.5	0.6	< 0.1
124	Diffuse knapweed	0.1	< 0.1	5.0	< 0.1	0.3	0.4	< 0.1
125	Russian knapweed	< 0.1	< 0.1	30.0	< 0.1	3.2	3.2	< 0.1
126	Witch grass	0.1	< 0.1	10.7	< 0.1	0.5	0.8	< 0.1
127	Yellow alyssum	0.1	< 0.1	10.0	< 0.1	1.8	1.8	< 0.1
128	Common burdock	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
129	Buffaloberry species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
130	Short-awned foxtail	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
131	Aster species	0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
132	Field mint	0.1	< 0.1	5.0	< 0.1	1.8	1.8	< 0.1
133	False flax species	< 0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
134	Meadow foxtail	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
135	Plains prickly-pear	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
136	Northern bedstraw	< 0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
137	Western snowberry	< 0.1	< 0.1	10.0	< 0.1	1.2	1.2	< 0.1
138	Vervain species	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
139	False ragweed	< 0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
140	Gumweed	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
141	Knawel	< 0.1	< 0.1	10.0	< 0.1	1.6	1.6	< 0.1
142	Yellow cress species	< 0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
143	Bird's-foot trefoil	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
144	Baby's-breath	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
145	Redtop	< 0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
146	Soybean	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
147	Yellow nut sedge	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
148	Meadow rue species	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
149	Wild strawberry	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 1990s**

Table 68. 1990s Peace Lowland Ecoregion (117 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	66.5	35.4	53.3	18.5	27.8	269.4	34.9
2	Chickweed	43.0	17.6	41.0	22.4	52.1	619.8	29.5
3	Field horsetail	63.4	25.2	39.7	11.2	17.6	201.0	24.9
4	Wild oats	48.9	15.6	31.8	9.3	18.9	270.6	18.4
5	Wild buckwheat	64.9	22.4	34.5	4.1	6.2	115.6	18.1
6	Cleavers	45.7	20.9	45.7	6.9	15.2	244.0	18.0
7	Common groundsel	39.1	15.0	38.4	6.2	15.7	138.6	14.6
8	Narrow-leaved hawk's-beard	44.3	13.9	31.4	2.5	5.6	51.6	11.7
9	Dandelion	58.7	11.3	19.2	1.5	2.6	76.4	11.5
10	Pineappleweed	34.8	9.5	27.2	5.1	14.7	258.6	11.3
11	Lamb's-quarters	37.1	12.4	33.6	3.3	8.8	141.2	11.0
12	Pale smartweed	39.4	10.1	25.6	3.4	8.7	133.0	10.6
13	Hemp-nettle	41.6	11.0	26.6	2.1	5.0	29.2	10.0
14	Shepherd's-purse	33.0	8.8	26.8	3.1	9.5	91.4	9.2
15	Canada thistle	42.6	8.8	20.6	1.3	3.1	15.2	8.7
16	Perennial sow-thistle	36.8	6.2	16.8	0.8	2.3	17.0	6.8
17	Quack grass	14.7	4.2	28.7	2.9	19.9	181.0	5.5
18	Bluebur	23.3	5.9	25.1	1.1	4.6	30.0	5.4
19	Canola/rapeseed	12.3	4.9	39.7	1.7	14.1	77.4	4.5
20	Wheat	9.9	5.2	52.9	1.8	18.4	70.6	4.4
21	Field violet	1.1	1.1	100.0	4.4	421.6	421.6	4.2
22	Clover species	17.3	4.9	28.3	0.6	3.6	13.8	4.1
23	Corn spurry	9.4	1.7	18.0	1.6	16.7	152.8	2.9
24	Broad-leaved plantain	14.4	2.7	18.7	0.3	2.0	14.4	2.7
25	Yellow toadflax	3.3	2.0	60.3	0.6	17.4	41.2	1.5
26	Redroot pigweed	6.7	1.1	16.8	0.2	3.4	16.0	1.3
27	Flax	1.7	1.0	57.5	0.8	44.5	83.6	1.2
28	Spiny annual sow-thistle	3.8	1.3	34.0	0.3	8.4	29.4	1.1
29	Alfalfa	7.6	0.7	9.1	0.1	0.8	2.8	1.1
30	Tall buttercup	6.0	0.9	14.3	0.1	0.9	2.2	1.0
31	Rose species	5.2	0.6	11.2	0.1	1.4	3.8	0.8
32	Rough cinquefoil	5.6	0.5	8.5	< 0.1	0.5	1.2	0.8
33	Barley	3.4	0.8	24.2	0.1	4.3	14.2	0.8
34	Green foxtail	5.1	0.3	5.8	< 0.1	0.3	0.4	0.7
35	Tartary buckwheat	1.7	1.0	57.5	0.1	8.6	13.0	0.6
36	Low cudweed	4.1	0.4	10.8	< 0.1	1.2	2.8	0.6
37	Vetch species	3.9	0.4	11.1	0.1	1.4	3.6	0.6
38	Wild mustard	3.3	0.6	17.9	< 0.1	1.2	2.2	0.6
39	Flixweed	4.1	0.3	8.0	< 0.1	0.5	1.4	0.6
40	Stork's-bill	3.0	0.5	17.4	< 0.1	0.9	1.8	0.5
41	Prostrate knotweed	2.4	0.5	20.1	< 0.1	1.2	2.4	0.4
42	Round-leaved mallow	2.2	0.4	18.3	< 0.1	1.3	2.8	0.4
43	Milk-vetch species	1.6	0.2	15.0	< 0.1	1.2	2.0	0.3
44	Bicknell's geranium	1.8	0.2	9.9	< 0.1	1.2	1.6	0.3
45	Night-flowering catchfly	1.5	0.2	14.8	< 0.1	0.8	1.0	0.3
46	Purslane speedwell	1.7	0.1	5.0	< 0.1	0.2	0.2	0.2
47	Yellow sweet-clover	1.6	0.1	5.0	< 0.1	0.2	0.2	0.2
48	Northern bedstraw	1.0	0.1	10.0	< 0.1	0.6	0.6	0.1
49	Vetchling species	1.1	0.1	5.0	< 0.1	0.4	0.4	0.1
50	Wild chamomile	0.8	0.1	15.0	< 0.1	0.8	0.8	0.1
51	Dock species	0.8	0.1	15.0	< 0.1	0.8	0.8	0.1
52	Common pepper-grass	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.1
53	Ball mustard	0.9	< 0.1	5.0	< 0.1	0.8	0.8	0.1
54	Redtop	0.8	< 0.1	5.0	< 0.1	0.6	0.6	0.1
55	Tansy	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 69. 1990s Boreal Transition Ecoregion (283 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	70.7	27.8	39.3	7.0	9.9	248.0	36.5
2	Chickweed	29.7	11.4	38.3	8.1	27.1	524.6	25.6
3	Canada thistle	76.2	19.0	24.9	2.5	3.3	34.8	23.9
4	Stinkweed	43.8	14.5	33.1	4.4	10.1	348.2	21.4
5	Wild buckwheat	55.4	17.7	32.0	2.1	3.7	118.0	19.7
6	Lamb's-quarters	45.5	13.4	29.5	2.2	4.8	124.0	16.6
7	Shepherd's-purse	37.7	10.8	28.8	2.8	7.5	95.0	15.7
8	Perennial sow-thistle	49.0	10.5	21.3	1.2	2.5	39.8	13.8
9	Green foxtail	21.0	6.6	31.6	3.9	18.4	487.8	13.7
10	Cleavers	33.6	10.0	29.8	1.7	5.0	74.4	12.4
11	Field horsetail	33.2	7.5	22.5	1.6	4.9	70.8	11.1
12	Hemp-nettle	25.4	8.6	34.0	1.5	5.8	55.6	10.3
13	Canola/rapeseed	20.0	5.9	29.5	1.2	5.8	95.2	7.7
14	Pale smartweed	29.6	5.0	17.0	0.4	1.5	24.0	7.1
15	Quack grass	19.6	4.4	22.7	1.2	5.9	50.4	7.0
16	Dandelion	28.7	4.9	17.2	0.4	1.2	13.2	6.7
17	Wild mustard	16.8	4.0	23.7	0.5	3.2	34.4	5.1
18	Narrow-leaved hawk's-beard	15.9	3.0	19.1	0.4	2.7	33.8	4.3
19	Wheat	11.7	2.2	19.1	0.6	5.1	137.0	3.8
20	Common groundsel	9.7	2.1	21.5	0.5	4.9	56.0	3.2
21	Flax	7.7	2.7	35.4	0.4	5.1	22.6	3.1
22	Pineappleweed	2.6	0.8	31.2	1.0	37.6	171.0	2.8
23	Bluebur	11.9	1.7	14.5	0.2	1.4	21.8	2.7
24	Stork's-bill	2.9	1.7	57.0	0.7	24.7	59.0	2.7
25	Corn spurry	6.4	1.1	17.6	0.5	7.1	148.6	2.3
26	Clover species	4.0	1.2	29.5	0.2	3.9	20.6	1.4
27	Russian thistle	3.8	0.6	16.3	0.3	7.1	46.0	1.3
28	Barley	5.0	1.0	20.1	0.1	2.1	7.8	1.3
29	Redroot pigweed	4.7	0.9	18.4	0.1	1.5	7.2	1.2
30	Night-flowering catchfly	3.3	0.9	28.4	0.1	4.4	16.2	1.2
31	Low cudweed	1.0	0.3	32.4	0.3	33.4	74.4	1.0
32	Alfalfa	3.5	0.7	18.7	< 0.1	1.3	6.4	0.9
33	Wormseed mustard	3.1	0.7	22.9	< 0.1	1.3	4.0	0.8
34	Broad-leaved plantain	3.7	0.5	12.6	< 0.1	1.1	2.4	0.8
35	Ball mustard	2.9	0.3	10.6	< 0.1	1.1	3.0	0.6
36	Prostrate knotweed	1.2	0.3	26.4	0.1	10.8	24.0	0.6
37	Rough cinquefoil	2.9	0.3	12.2	< 0.1	0.7	2.6	0.6
38	Spiny annual sow-thistle	2.4	0.4	16.6	< 0.1	1.2	4.2	0.6
39	Barnyard grass	2.1	0.2	10.1	0.1	4.2	22.4	0.5
40	Showy milkweed	0.3	0.3	100.0	0.1	42.8	42.8	0.4
41	Vetchling species	1.9	0.3	14.2	< 0.1	1.2	6.8	0.4
42	Cow cockle	2.1	0.2	8.0	< 0.1	0.5	2.4	0.4
43	Rye	0.9	0.4	40.0	< 0.1	3.0	3.0	0.3
44	Canada fleabane	1.6	0.2	13.3	< 0.1	0.8	2.2	0.3
45	American dragonhead	1.9	0.1	7.2	< 0.1	0.4	0.8	0.3
46	Wild tomato	2.0	0.1	5.0	< 0.1	0.3	0.6	0.3
47	Kochia	1.4	0.2	15.7	< 0.1	0.9	2.8	0.3
48	Rose species	1.7	0.1	7.6	< 0.1	0.8	2.0	0.3
49	Round-leaved mallow	1.3	0.2	17.7	< 0.1	1.4	3.8	0.3
50	Perennial rye grass	0.7	0.3	45.5	< 0.1	3.7	3.8	0.3
51	Field peas	1.1	0.2	19.7	< 0.1	0.9	2.4	0.3
52	Wood whitlow-grass	0.8	0.1	16.5	0.1	7.1	18.0	0.3
53	Persian darnel	0.9	0.1	11.7	< 0.1	3.5	9.0	0.2
54	Vetch species	1.3	0.1	6.1	< 0.1	0.4	0.6	0.2

(Table continued on next page)

**Field Survey Summary Tables – 1990s**

Table 69. 1990s Boreal Transition Ecoregion (283 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Henbit	1.3	0.1	6.5	< 0.1	0.4	0.6	0.2
56	Flixweed	0.8	0.1	18.2	< 0.1	1.5	4.2	0.2
57	Indian mustard	0.8	0.2	19.2	< 0.1	0.8	1.2	0.2
58	Common ragweed	0.3	0.1	50.0	< 0.1	14.6	14.6	0.2
59	Yellow sweet-clover	1.1	0.1	6.5	< 0.1	0.3	0.4	0.2
60	Nodding thistle	0.7	0.1	20.0	< 0.1	1.4	1.6	0.2
61	Timothy	0.5	0.2	34.1	< 0.1	2.7	5.4	0.2
62	Dog mustard	0.7	0.1	18.3	< 0.1	1.4	2.8	0.2
63	Maple-leaved goosefoot	0.9	0.1	8.1	< 0.1	0.3	0.4	0.2
64	Water smartweed	0.7	0.1	9.0	< 0.1	1.8	2.4	0.2
65	Absinth	0.8	0.1	7.6	< 0.1	0.7	1.2	0.1
66	Bladder campion	0.5	0.1	20.0	< 0.1	1.1	1.2	0.1
67	Tartary buckwheat	0.2	0.1	60.0	< 0.1	4.2	4.2	0.1
68	Yellow foxtail	0.6	0.1	10.0	< 0.1	1.1	1.8	0.1
69	Willowherb species	0.2	0.1	40.0	< 0.1	8.6	8.6	0.1
70	Sunflower species	0.3	0.1	20.0	< 0.1	5.0	5.0	0.1
71	Borage	0.3	0.1	30.0	< 0.1	2.6	2.6	0.1
72	Slough grass	0.3	< 0.1	5.0	< 0.1	9.6	9.6	0.1
73	Biennial wormwood	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
74	Black medick	0.3	0.1	25.0	< 0.1	2.8	2.8	0.1
75	Prickly lettuce	0.4	< 0.1	10.0	< 0.1	0.8	0.8	0.1
76	Field mint	0.4	< 0.1	5.0	< 0.1	1.8	1.8	0.1
77	Purslane speedwell	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
78	Povertyweed	0.3	< 0.1	15.0	< 0.1	1.6	1.6	0.1
79	Nightshade species	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
80	False ragweed	0.3	< 0.1	10.0	< 0.1	0.8	0.8	0.1
81	Canary grass	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
82	Tansy	0.3	< 0.1	5.0	< 0.1	1.6	1.6	0.1
83	Oats	0.2	< 0.1	15.0	< 0.1	0.8	0.8	< 0.1
84	Foxtail barley	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
85	Smooth brome	0.3	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
86	Field violet	< 0.1	< 0.1	90.0	< 0.1	15.0	15.0	< 0.1
87	Wild strawberry	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1



Table 70. 1990s Aspen Parkland Ecoregion (858 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	57.1	25.6	44.8	14.2	24.9	1465.6	53.6
2	Wild oats	63.9	21.3	33.3	5.6	8.8	403.4	32.7
3	Wild buckwheat	67.3	23.6	35.0	2.7	4.0	79.4	27.7
4	Canada thistle	65.4	15.7	24.0	1.7	2.6	61.8	21.1
5	Stinkweed	37.3	10.8	28.9	2.3	6.1	186.8	16.0
6	Perennial sow-thistle	42.6	10.9	25.5	1.4	3.2	74.0	14.7
7	Chickweed	13.1	6.1	46.4	3.0	23.1	506.8	11.8
8	Lamb's-quarters	33.8	7.3	21.5	0.8	2.4	39.4	10.3
9	Shepherd's-purse	24.2	6.2	25.5	1.3	5.3	198.8	9.5
10	Quack grass	21.7	4.5	20.9	1.2	5.5	175.6	8.1
11	Wild mustard	23.9	5.9	24.6	0.7	2.8	35.2	7.9
12	Redroot pigweed	21.7	4.6	21.2	0.6	2.6	63.8	6.7
13	Pale smartweed	18.4	3.8	20.8	0.5	2.8	63.4	5.7
14	Cleavers	11.6	3.8	33.2	0.8	6.8	133.4	5.4
15	Canola/rapeseed	12.2	3.5	28.4	0.6	4.6	41.0	4.8
16	Hemp-nettle	13.6	3.2	23.3	0.5	3.4	48.0	4.6
17	Dandelion	19.3	2.5	13.1	0.2	0.9	15.6	4.4
18	Narrow-leaved hawk's-beard	13.2	2.7	20.5	0.4	2.7	42.0	4.1
19	Russian thistle	12.3	2.4	19.9	0.2	1.9	12.6	3.5
20	Common groundsel	7.1	2.1	29.3	0.5	7.7	118.4	3.3
21	Night-flowering catchfly	9.2	2.2	23.9	0.3	3.4	46.0	3.1
22	Wheat	8.8	2.1	24.2	0.2	2.8	42.4	2.9
23	Barley	6.5	1.9	30.1	0.3	4.4	60.4	2.6
24	Flax	4.8	1.7	34.5	0.4	8.9	70.8	2.5
25	Yellow sweet-clover	1.9	1.3	66.1	0.6	30.2	48.8	2.2
26	Kochia	6.8	1.1	15.9	0.2	2.7	50.8	1.9
27	Corn spurry	3.1	0.9	29.8	0.4	14.1	161.8	1.9
28	Field horsetail	6.5	0.8	12.9	0.2	3.1	48.4	1.8
29	Round-leaved mallow	6.4	1.0	16.0	0.1	1.5	11.4	1.6
30	Low cudweed	0.6	0.3	43.4	0.6	101.9	363.8	1.6
31	Barnyard grass	3.8	0.6	14.9	0.3	7.2	131.4	1.5
32	Spiny annual sow-thistle	4.5	1.0	21.1	0.1	2.1	24.8	1.3
33	Bluebur	6.0	0.7	11.9	0.1	0.9	6.4	1.3
34	Pineappleweed	4.5	0.8	16.8	0.1	1.8	14.0	1.2
35	Thyme-leaved spurge	3.7	0.8	22.8	0.1	2.8	22.4	1.2
36	Prostrate knotweed	4.3	0.7	16.7	0.1	1.6	16.6	1.1
37	Stork's-bill	2.6	0.7	26.4	0.1	3.7	16.8	1.0
38	Rose species	4.4	0.4	8.8	< 0.1	0.8	4.4	0.9
39	Flixweed	3.4	0.5	15.8	< 0.1	1.3	10.2	0.9
40	Ball mustard	2.7	0.5	20.3	0.1	1.9	13.6	0.8
41	Dog mustard	2.5	0.5	18.8	< 0.1	1.9	11.6	0.7
42	Clover species	2.5	0.3	13.6	< 0.1	1.9	30.6	0.6
43	Scentless chamomile	1.9	0.3	18.1	< 0.1	1.8	9.2	0.5
44	American dragonhead	1.8	0.3	16.0	< 0.1	2.6	26.8	0.5
45	Yellow toadflax	1.4	0.4	28.4	< 0.1	3.0	9.4	0.5
46	Tartary buckwheat	1.7	0.2	14.4	< 0.1	2.9	26.0	0.5
47	Field peas	1.3	0.3	25.1	< 0.1	1.9	4.4	0.4
48	Biennial wormwood	1.8	0.2	10.7	< 0.1	1.2	11.6	0.4
49	Cow cockle	1.8	0.2	13.4	< 0.1	0.8	2.8	0.4
50	Wormseed mustard	1.4	0.3	19.7	< 0.1	1.9	8.2	0.4
51	Broad-leaved plantain	1.5	0.2	15.7	< 0.1	1.4	7.8	0.4
52	Alfalfa	1.4	0.2	16.4	< 0.1	1.3	9.0	0.4
53	Wild tomato	1.4	0.1	10.2	< 0.1	0.7	2.6	0.3
54	Foxtail barley	1.3	0.1	8.5	< 0.1	0.5	1.2	0.3

(Table continued on next page)

**Field Survey Summary Tables – 1990s**

Table 70. 1990s Aspen Parkland Ecoregion (858 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Absinth	1.0	0.2	16.9	< 0.1	1.3	3.8	0.3
56	Vetch species	1.2	0.1	10.3	< 0.1	0.6	1.8	0.3
57	White cockle	0.6	0.2	30.9	< 0.1	3.1	8.2	0.2
58	Persian darnel	0.8	0.1	16.2	< 0.1	3.0	9.2	0.2
59	Black medick	1.2	0.1	6.1	< 0.1	0.3	0.8	0.2
60	White mustard	0.5	0.1	27.2	< 0.1	5.5	31.2	0.2
61	Canada fleabane	1.0	0.1	7.7	< 0.1	0.5	1.4	0.2
62	Rough cinquefoil	0.8	0.1	9.1	< 0.1	0.8	3.8	0.2
63	Field bindweed	0.5	0.1	20.5	< 0.1	2.2	6.2	0.2
64	Water smartweed	0.7	< 0.1	6.6	< 0.1	1.4	3.2	0.1
65	Leafy spurge	0.6	0.1	11.9	< 0.1	1.6	5.0	0.1
66	Milk-vetch species	0.4	0.1	22.5	< 0.1	2.6	5.4	0.1
67	Poplar species	0.6	0.1	10.3	< 0.1	0.6	1.2	0.1
68	Showy milkweed	0.6	< 0.1	7.5	< 0.1	0.6	1.8	0.1
69	Povertyweed	0.4	0.1	16.3	< 0.1	2.8	6.6	0.1
70	Purslane	0.6	< 0.1	7.6	< 0.1	0.9	3.0	0.1
71	Wood whitlow-grass	0.5	0.1	10.2	< 0.1	0.7	1.2	0.1
72	Nightshade species	0.2	0.1	38.6	< 0.1	5.6	10.6	0.1
73	Dock species	0.5	0.1	10.3	< 0.1	0.6	1.4	0.1
74	Henbit	0.2	0.1	49.7	< 0.1	2.8	4.6	0.1
75	Common ragweed	0.5	< 0.1	7.2	< 0.1	0.4	0.8	0.1
76	Common pepper-grass	0.5	< 0.1	6.2	< 0.1	0.4	0.8	0.1
77	Willowherb species	0.6	< 0.1	5.8	< 0.1	0.3	0.8	0.1
78	Blue grass species	0.1	0.1	60.0	< 0.1	4.6	4.6	0.1
79	Sunflower species	0.3	< 0.1	10.0	< 0.1	0.6	0.8	0.1
80	Common yarrow	0.2	< 0.1	7.5	< 0.1	3.6	6.8	0.1
81	Proso millet	0.1	< 0.1	50.0	< 0.1	10.0	10.0	0.1
82	Manitoba maple	0.3	< 0.1	10.0	< 0.1	0.4	0.6	0.1
83	Canary grass	0.2	< 0.1	10.0	< 0.1	0.5	0.6	< 0.1
84	Bicknell's geranium	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
85	Tumble pigweed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
86	Wild chamomile	0.2	< 0.1	12.5	< 0.1	0.7	1.0	< 0.1
87	Prostrate pigweed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
88	Green tansy mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
89	Nodding thistle	0.2	< 0.1	20.0	< 0.1	1.4	1.4	< 0.1
90	Purslane speedwell	0.1	< 0.1	25.0	< 0.1	2.2	2.2	< 0.1
91	Russian knapweed	0.1	< 0.1	30.0	< 0.1	3.2	3.2	< 0.1
92	Smooth brome	0.2	< 0.1	14.6	< 0.1	1.1	2.0	< 0.1
93	Spreading dogbane	0.2	< 0.1	5.0	< 0.1	0.3	0.4	< 0.1
94	Yellow alyssum	0.2	< 0.1	10.0	< 0.1	1.8	1.8	< 0.1
95	Tansy	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
96	Meadow foxtail	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
97	Prickly lettuce	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
98	Goat's-beard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
99	Western snowberry	0.1	< 0.1	10.0	< 0.1	1.2	1.2	< 0.1
100	Gray tansy mustard	0.1	< 0.1	5.0	< 0.1	1.0	1.0	< 0.1
101	Downy brome	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
102	Giant ragweed	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
103	Knawel	0.1	< 0.1	10.0	< 0.1	1.6	1.6	< 0.1
104	Baby's-breath	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
105	Meadow rue species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
106	Vetchling species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
107	Cocklebur	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
108	Yellow foxtail	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
109	Witch grass	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 71. 1990s Fescue Grassland Ecoregion (52 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	58.9	22.5	38.3	3.5	5.9	42.6	40.0
2	Stinkweed	49.9	15.9	31.9	4.3	8.7	136.8	37.0
3	Wild oats	52.4	14.7	28.1	3.1	6.0	60.6	31.9
4	Canada thistle	67.6	14.9	22.1	1.3	1.9	8.6	27.6
5	Chickweed	22.9	7.6	33.3	3.1	13.7	135.0	21.7
6	Dandelion	40.4	9.5	23.5	0.8	1.9	10.8	16.8
7	Shepherd's-purse	30.3	8.1	26.9	1.3	4.1	35.6	16.0
8	Wheat	11.4	3.0	26.7	2.6	23.0	131.6	14.4
9	Lamb's-quarters	24.7	4.4	17.7	0.6	2.4	17.8	9.8
10	Hemp-nettle	18.9	5.4	28.5	0.6	2.9	13.2	9.3
11	Quack grass	21.8	3.5	15.8	0.4	2.0	10.8	8.0
12	Cleavers	9.5	4.7	50.0	0.7	7.3	15.8	7.7
13	Pale smartweed	18.9	3.0	16.0	0.2	1.0	2.8	6.2
14	Rose species	13.7	1.8	13.0	0.2	1.2	5.2	4.4
15	Perennial sow-thistle	11.5	1.8	15.8	0.2	1.6	7.2	4.0
16	Green foxtail	5.8	1.9	33.2	0.4	6.3	11.6	3.8
17	Round-leaved mallow	11.7	1.6	13.5	0.1	0.8	2.4	3.5
18	Canola/rapeseed	9.5	1.7	18.0	0.2	1.8	7.2	3.5
19	Redroot pigweed	11.8	1.4	11.7	0.1	0.7	2.0	3.4
20	Spiny annual sow-thistle	5.7	2.2	38.3	0.2	3.1	5.6	3.2
21	White cockle	1.9	1.6	85.0	0.4	20.4	20.4	3.0
22	Persian darnel	3.9	0.8	20.4	0.3	8.8	16.8	2.6
23	Clover species	3.9	1.0	24.4	0.2	6.1	12.4	2.3
24	Bluebur	1.9	1.3	70.0	0.2	9.6	9.6	2.0
25	Narrow-leaved hawk's-beard	5.7	0.9	16.7	0.1	1.3	2.0	2.0
26	Flixweed	5.8	1.0	16.4	0.1	1.0	1.8	1.9
27	Field bindweed	6.0	0.8	13.3	0.1	1.1	2.0	1.9
28	Alfalfa	1.9	1.0	55.0	0.2	9.8	9.8	1.8
29	Wild rye/wheat grass species	1.9	0.9	45.0	0.1	7.0	7.0	1.5
30	Barley	3.9	0.5	12.7	< 0.1	0.7	1.2	1.2
31	Foxtail barley	4.0	0.4	10.0	< 0.1	0.4	0.6	1.1
32	Prostrate knotweed	3.9	0.2	5.0	< 0.1	0.3	0.4	0.9
33	Purslane speedwell	2.0	0.5	25.0	< 0.1	1.0	1.0	0.8
34	Kochia	1.9	0.5	25.0	< 0.1	1.0	1.0	0.7
35	Prostrate pigweed	2.0	0.3	15.0	< 0.1	0.8	0.8	0.6
36	White mustard	1.9	0.2	10.0	< 0.1	0.4	0.4	0.5
37	Pineappleweed	1.9	0.1	5.0	< 0.1	0.8	0.8	0.5
38	Barnyard grass	2.0	0.1	5.0	< 0.1	0.4	0.4	0.5
39	Yellow toadflax	1.9	0.1	5.0	< 0.1	0.6	0.6	0.4
40	Broad-leaved plantain	1.9	0.1	5.0	< 0.1	0.4	0.4	0.4
41	Field horsetail	1.9	0.1	5.0	< 0.1	0.2	0.2	0.4
42	Stork's-bill	1.9	0.1	5.0	< 0.1	0.2	0.2	0.4
43	Perennial rye grass	1.9	0.1	5.0	< 0.1	0.2	0.2	0.4

**Field Survey Summary Tables – 1990s**

Table 72. 1990s Moist Mixed Grassland Ecoregion (437 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	49.7	21.4	43.1	9.5	19.1	313.6	60.8
2	Wild buckwheat	64.4	22.6	35.1	2.9	4.5	93.6	39.6
3	Wild oats	60.2	17.3	28.7	3.9	6.5	175.0	38.8
4	Stinkweed	37.5	9.9	26.3	1.8	4.7	92.2	20.9
5	Canada thistle	35.8	6.5	18.1	0.7	1.8	13.2	13.9
6	Redroot pigweed	28.6	6.9	24.0	0.7	2.6	31.0	13.2
7	Russian thistle	20.2	4.5	22.4	0.7	3.2	67.0	9.6
8	Lamb's-quarters	22.6	3.9	17.3	0.5	2.3	66.4	9.0
9	Dandelion	22.2	4.3	19.3	0.3	1.2	8.2	8.3
10	Canola/rapeseed	11.6	4.1	35.1	0.6	5.5	31.6	7.5
11	Kochia	17.5	3.7	21.2	0.4	2.3	27.8	7.5
12	Thyme-leaved spurge	9.6	3.5	36.4	0.6	6.4	41.6	6.7
13	Perennial sow-thistle	19.6	2.7	13.7	0.3	1.3	17.8	6.6
14	Wild mustard	13.7	3.3	23.7	0.4	3.1	37.4	6.6
15	Barnyard grass	3.6	1.0	26.6	0.6	16.3	224.8	3.6
16	Cow cockle	6.2	1.3	21.1	0.3	4.1	30.2	3.1
17	Pale smartweed	7.8	1.3	16.6	0.1	1.7	21.8	2.9
18	Flixweed	8.9	1.1	12.4	0.1	0.8	3.2	2.7
19	Quack grass	4.6	1.0	22.3	0.3	6.4	50.2	2.7
20	Shepherd's-purse	7.1	1.1	16.2	0.1	1.8	12.4	2.6
21	Wheat	8.5	1.0	11.2	0.1	0.9	5.8	2.6
22	Narrow-leaved hawk's-beard	6.3	0.9	14.5	0.1	1.7	14.8	2.2
23	Persian darnel	3.1	0.6	18.9	0.3	9.0	75.0	2.1
24	Round-leaved mallow	4.2	1.1	25.3	0.1	2.9	25.6	2.0
25	Rose species	5.5	0.7	12.2	0.1	1.6	9.8	1.8
26	Bluebur	4.4	0.7	15.0	0.1	2.7	40.0	1.8
27	Absinth	3.1	1.1	36.8	0.1	2.2	5.4	1.7
28	Prostrate pigweed	3.7	0.5	13.0	0.1	1.9	15.6	1.3
29	Prostrate knotweed	4.0	0.4	10.7	< 0.1	0.6	6.6	1.2
30	Lentils	2.3	0.6	27.7	< 0.1	2.1	5.6	1.1
31	Flax	2.4	0.5	21.8	0.1	2.2	10.0	1.0
32	Canada fleabane	2.8	0.4	14.0	< 0.1	1.0	4.2	0.9
33	Field horsetail	1.0	0.4	34.8	0.1	11.4	30.6	0.9
34	Common groundsel	2.4	0.4	16.7	< 0.1	1.2	2.2	0.8
35	Foxtail barley	2.9	0.2	8.3	< 0.1	0.6	1.6	0.8
36	Biennial wormwood	2.5	0.3	10.3	< 0.1	1.1	5.6	0.7
37	Dock species	1.9	0.4	19.7	< 0.1	1.3	5.2	0.7
38	Chickweed	0.4	0.3	88.7	0.1	22.0	29.2	0.6
39	Dog mustard	1.0	0.2	25.0	0.1	7.3	27.0	0.6
40	Spiny annual sow-thistle	2.2	0.2	8.6	< 0.1	0.6	1.8	0.6
41	Barley	0.9	0.2	26.4	0.1	6.6	23.4	0.6
42	Hemp-nettle	1.2	0.3	22.4	< 0.1	2.5	4.4	0.5
43	Night-flowering catchfly	1.6	0.2	15.0	< 0.1	0.8	1.8	0.5
44	Common pepper-grass	1.6	0.2	13.2	< 0.1	0.8	2.4	0.5
45	Vetch species	1.7	0.1	7.5	< 0.1	0.5	1.4	0.5
46	Scentless chamomile	1.5	0.2	10.2	< 0.1	0.5	0.8	0.4
47	Wild tomato	1.4	0.1	6.9	< 0.1	0.4	0.8	0.3
48	Field peas	1.3	0.1	7.4	< 0.1	0.4	0.6	0.3
49	Alfalfa	0.8	0.1	19.0	< 0.1	2.3	5.0	0.3
50	Sunflower species	1.0	0.1	13.9	< 0.1	0.7	0.8	0.3
51	Cleavers	0.8	0.1	16.4	< 0.1	0.9	2.4	0.3
52	Canary grass	0.2	0.1	45.0	< 0.1	14.2	14.2	0.3
53	Rye	0.7	0.1	19.8	< 0.1	0.9	1.2	0.2
54	Black-eyed Susan	0.2	0.1	55.0	< 0.1	9.0	9.0	0.2

(Table continued on next page)

Table 72. 1990s Moist Mixed Grassland Ecoregion (437 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Tumble pigweed	0.7	0.1	11.8	< 0.1	0.5	0.6	0.2
56	Clover species	0.6	0.1	9.1	< 0.1	0.4	0.6	0.2
57	Yellow sweet-clover	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
58	Goat's-beard	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
59	Black medick	0.3	0.1	25.0	< 0.1	2.2	2.2	0.1
60	Pineappleweed	0.6	< 0.1	6.5	< 0.1	0.5	0.6	0.1
61	Povertyweed	0.2	< 0.1	15.0	< 0.1	8.8	8.8	0.1
62	Field violet	0.5	< 0.1	5.0	< 0.1	0.4	0.4	0.1
63	American dragonhead	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
64	Russian pigweed	0.4	< 0.1	5.0	< 0.1	0.4	0.6	0.1
65	Nodding thistle	0.3	0.1	25.0	< 0.1	1.0	1.0	0.1
66	Caraway	0.2	< 0.1	20.0	< 0.1	2.6	2.6	0.1
67	Milk-vetch species	0.3	< 0.1	8.1	< 0.1	0.3	0.4	0.1
68	Leafy spurge	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Water smartweed	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
70	Common burdock	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
71	Wormseed mustard	0.2	< 0.1	15.0	< 0.1	1.2	1.2	0.1
72	Sedge species	0.2	< 0.1	10.0	< 0.1	0.6	0.6	0.1
73	False flax species	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
74	Plains prickly-pear	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
75	Willowherb species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
76	Rough cinquefoil	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
77	Gray tansy mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
78	Vervain species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
79	Common ragweed	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Green tansy mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
81	Spear-leaved goosefoot	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
82	Gumweed	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
83	Tumble mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
84	Broad-leaved plantain	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 1990s**

Table 73. 1990s Mixed Grassland Ecoregion (346 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	46.5	19.1	41.0	7.8	16.7	222.0	56.0
2	Wild oats	70.5	18.4	26.1	5.0	7.1	114.4	49.8
3	Wild buckwheat	61.0	19.8	32.4	2.9	4.8	167.6	41.2
4	Stinkweed	32.5	7.9	24.4	2.0	6.2	168.0	21.4
5	Russian thistle	31.2	6.7	21.5	1.4	4.4	138.0	17.5
6	Kochia	32.8	7.0	21.2	1.1	3.4	29.0	17.1
7	Redroot pigweed	28.3	4.8	16.8	0.7	2.4	32.4	12.6
8	Persian darnel	7.7	2.3	29.8	2.1	27.7	243.6	11.7
9	Cow cockle	14.0	3.4	24.4	0.6	4.2	30.0	8.1
10	Lamb's-quarters	19.4	2.6	13.6	0.2	1.2	10.2	7.1
11	Flixweed	19.4	2.1	10.8	0.2	0.8	10.0	6.4
12	Thyme-leaved spurge	9.2	2.4	25.7	0.3	3.2	17.2	5.1
13	Canada thistle	11.3	1.6	14.0	0.1	1.3	5.2	4.3
14	Dandelion	11.1	1.3	11.5	0.1	0.7	3.6	3.7
15	Wheat	8.7	1.4	16.1	0.1	1.2	12.4	3.4
16	Wild mustard	6.7	1.4	20.6	0.2	2.4	14.6	3.2
17	Barnyard grass	5.6	1.1	19.6	0.2	3.1	27.4	2.8
18	Tumble pigweed	4.5	1.1	25.3	0.1	3.0	11.0	2.4
19	Canary grass	1.1	0.4	36.5	0.5	40.8	144.2	2.4
20	Foxtail barley	5.8	0.8	13.9	0.1	2.1	9.6	2.4
21	Prostrate knotweed	5.0	0.6	12.1	< 0.1	0.8	5.6	1.7
22	Prostrate pigweed	5.5	0.5	8.9	< 0.1	0.6	2.8	1.7
23	Perennial sow-thistle	3.8	0.3	7.6	< 0.1	0.5	2.4	1.1
24	Sunflower species	2.9	0.3	10.6	< 0.1	1.5	11.8	1.0
25	Canola/rapeseed	2.2	0.4	20.0	< 0.1	1.8	6.2	1.0
26	Pale smartweed	2.8	0.3	11.2	< 0.1	1.3	5.2	1.0
27	Barley	2.3	0.2	6.6	< 0.1	1.9	7.2	0.8
28	Rose species	2.5	0.1	5.6	< 0.1	0.4	1.2	0.7
29	Lentils	1.4	0.3	19.6	< 0.1	2.7	12.2	0.7
30	Bluebur	2.2	0.2	8.2	< 0.1	0.4	1.2	0.7
31	Canada fleabane	2.0	0.2	10.1	< 0.1	0.7	1.6	0.7
32	Alfalfa	1.9	0.2	10.0	< 0.1	0.5	0.8	0.6
33	Quack grass	1.1	0.2	17.9	< 0.1	4.2	12.6	0.6
34	Shepherd's-purse	1.7	0.2	11.5	< 0.1	0.8	1.8	0.6
35	Oats	0.7	0.3	43.4	< 0.1	5.1	7.6	0.5
36	Common pepper-grass	1.7	0.1	7.9	< 0.1	0.6	1.6	0.5
37	Water smartweed	0.9	0.2	23.0	< 0.1	4.1	8.4	0.5
38	Vetch species	1.4	0.1	10.2	< 0.1	1.1	2.0	0.5
39	White mustard	0.3	0.2	85.0	< 0.1	12.8	12.8	0.4
40	Round-leaved mallow	1.2	0.1	7.3	< 0.1	1.6	4.6	0.4
41	Biennial wormwood	1.3	0.1	7.3	< 0.1	0.5	0.8	0.4
42	Field peas	1.3	0.1	7.4	< 0.1	0.3	0.6	0.4
43	Chickweed	0.7	0.2	23.6	< 0.1	2.4	3.6	0.3
44	Wild tomato	1.3	0.1	5.0	< 0.1	0.2	0.2	0.3
45	Downy brome	1.0	0.1	8.8	< 0.1	0.4	0.4	0.3
46	Rye	0.5	0.1	22.6	< 0.1	3.7	6.8	0.3
47	Narrow-leaved hawk's-beard	1.0	0.1	8.5	< 0.1	0.3	0.4	0.3
48	Prickly lettuce	1.0	0.1	7.0	< 0.1	0.4	0.8	0.3
49	Tumble mustard	1.0	0.1	6.5	< 0.1	0.3	0.4	0.3
50	Spiny annual sow-thistle	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.2
51	Blue lettuce	0.8	< 0.1	5.0	< 0.1	0.3	0.4	0.2
52	Yellow sweet-clover	0.6	0.1	12.5	< 0.1	0.5	0.6	0.2
53	Blue grass species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
54	Green tansy mustard	0.6	< 0.1	7.5	< 0.1	0.3	0.4	0.2

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Table 73. 1990s Mixed Grassland Ecoregion (346 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Flax	0.3	0.1	20.0	< 0.1	2.0	2.0	0.1
56	Skeletonweed	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
57	Diffuse knapweed	0.5	< 0.1	5.0	< 0.1	0.3	0.4	0.1
58	Black medick	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
59	Sedge species	0.4	< 0.1	5.0	< 0.1	0.6	0.6	0.1
60	Gray tansy mustard	0.3	0.1	20.0	< 0.1	0.8	0.8	0.1
61	Scentless chamomile	0.3	< 0.1	15.0	< 0.1	0.6	0.6	0.1
62	Buffaloberry species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
63	Short-awned foxtail	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
64	Aster species	0.4	< 0.1	5.0	< 0.1	0.8	0.8	0.1
65	Rough cinquefoil	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
66	Nightshade species	0.3	< 0.1	5.0	< 0.1	0.6	0.6	0.1
67	Dock species	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
68	Nodding thistle	0.3	< 0.1	10.0	< 0.1	1.0	1.0	0.1
69	Cleavers	0.3	< 0.1	10.0	< 0.1	0.8	0.8	0.1
70	Oak-leaved goosefoot	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
71	Clover species	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
72	Yellow toadflax	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
73	Spear-leaved goosefoot	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
74	Corn spurry	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
75	Vetchling species	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
76	Purslane	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 74. 1990s Lake Manitoba Plain Ecoregion (162 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	70.3	31.5	44.9	25.6	36.4	1693.2	89.6
2	Wild oats	54.1	18.3	33.8	4.5	8.4	92.4	31.3
3	Wild buckwheat	63.3	21.9	34.5	2.5	3.9	41.0	30.7
4	Redroot pigweed	47.6	13.3	28.0	2.2	4.7	60.2	21.8
5	Canada thistle	50.6	7.8	15.4	0.8	1.6	13.4	15.5
6	Pale smartweed	43.1	8.8	20.5	0.8	1.9	10.4	15.0
7	Barnyard grass	24.5	5.7	23.1	1.5	6.1	68.6	11.2
8	Wild mustard	31.7	6.0	18.9	0.8	2.4	40.6	11.0
9	Quack grass	24.4	4.5	18.6	0.9	3.6	30.0	9.1
10	Lamb's-quarters	21.3	5.0	23.3	0.9	4.3	65.0	8.9
11	Perennial sow-thistle	23.6	3.9	16.6	0.6	2.4	35.2	7.8
12	Thyme-leaved spurge	18.5	4.4	24.0	0.5	2.6	17.6	7.2
13	Flax	6.3	2.7	43.0	1.5	23.0	66.0	6.1
14	Dandelion	13.1	1.8	13.4	0.1	1.0	6.0	3.7
15	Wheat	9.0	2.2	24.3	0.3	3.2	18.0	3.6
16	Canola/rapeseed	8.5	2.0	23.7	0.2	2.8	17.6	3.3
17	Round-leaved mallow	8.9	1.0	10.9	0.1	0.9	4.6	2.3
18	Yellow foxtail	6.7	0.9	13.5	0.2	2.8	11.6	2.2
19	Hemp-nettle	3.8	0.9	23.6	0.1	2.9	8.6	1.5
20	Shepherd's-purse	3.8	0.8	22.2	0.1	2.9	14.4	1.4
21	Cleavers	2.6	0.7	27.4	0.1	2.3	4.8	1.1
22	Night-flowering catchfly	2.9	0.5	18.1	0.1	2.8	11.4	1.0

(Table continued on next page)

**Field Survey Summary Tables – 1990s**

Table 74. 1990s Lake Manitoba Plain Ecoregion (162 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
23	Tartary buckwheat	1.9	0.7	36.1	0.1	4.9	13.2	1.0
24	Chickweed	1.5	0.4	25.6	0.2	12.9	30.8	1.0
25	Cocklebur	3.3	0.3	9.1	< 0.1	0.6	1.2	0.8
26	Common ragweed	2.6	0.3	13.5	< 0.1	1.9	6.6	0.8
27	Stork's-bill	1.7	0.5	27.7	0.1	3.6	6.2	0.8
28	Kochia	2.4	0.4	14.9	< 0.1	1.7	10.0	0.7
29	Showy milkweed	2.7	0.2	8.7	< 0.1	0.9	1.8	0.7
30	Dog mustard	1.4	0.4	30.5	< 0.1	3.6	4.6	0.6
31	Barley	2.4	0.2	6.4	< 0.1	0.4	0.8	0.5
32	Broad-leaved plantain	2.0	0.2	11.4	< 0.1	0.9	2.4	0.5
33	Prostrate knotweed	2.3	0.2	6.4	< 0.1	0.4	0.4	0.5
34	Field horsetail	1.9	0.2	11.7	< 0.1	1.1	1.6	0.5
35	American dragonhead	2.0	0.2	8.4	< 0.1	0.3	0.6	0.5
36	Narrow-leaved hawk's-beard	1.3	0.2	17.0	< 0.1	2.2	3.4	0.4
37	Indian mustard	1.3	0.2	17.4	< 0.1	1.5	2.6	0.4
38	Stinkweed	1.9	0.1	6.8	< 0.1	0.3	0.4	0.4
39	Russian thistle	1.6	0.2	11.0	< 0.1	0.5	1.0	0.4
40	Flixweed	1.4	0.1	10.0	< 0.1	0.6	0.8	0.3
41	Rough cinquefoil	1.3	0.1	10.0	< 0.1	0.5	0.6	0.3
42	Caraway	0.7	0.2	35.0	< 0.1	2.6	2.6	0.3
43	Absinth	0.7	0.2	35.0	< 0.1	1.4	1.4	0.3
44	Dock species	1.3	0.1	5.0	< 0.1	0.6	0.6	0.3
45	Bicknell's geranium	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3
46	Water smartweed	1.1	0.1	5.0	< 0.1	0.4	0.4	0.2
47	Oak-leaved goosefoot	0.7	0.1	10.0	< 0.1	3.4	3.4	0.2
48	Prostrate pigweed	0.8	0.1	8.0	< 0.1	0.8	1.2	0.2
49	Biennial wormwood	0.6	0.1	10.0	< 0.1	1.8	1.8	0.2
50	Giant ragweed	0.7	0.1	10.0	< 0.1	0.4	0.4	0.2
51	Yellow cress species	0.6	0.1	10.0	< 0.1	0.6	0.6	0.2
52	Rose species	0.7	< 0.1	5.0	< 0.1	0.6	0.6	0.1
53	Foxtail barley	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
54	Bladder campion	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
55	Alfalfa	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
56	Clover species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
57	Soybean	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
58	Yellow nut sedge	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
59	Manitoba maple	0.5	0.1	10.0	< 0.1	0.4	0.4	0.1
60	Bluebur	0.5	< 0.1	10.0	< 0.1	0.6	0.6	0.1



Table 75. 1990s Interlake Plain Ecoregion (39 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	51.6	16.7	32.4	4.4	8.6	42.4	31.8
2	Wild oats	55.2	19.3	34.9	2.8	5.1	25.6	28.0
3	Barnyard grass	48.9	12.0	24.5	3.5	7.2	37.0	25.6
4	Wild buckwheat	68.4	16.5	24.1	1.3	1.9	7.6	22.7
5	Canada thistle	59.5	13.7	22.9	1.4	2.3	16.4	20.4
6	Chickweed	16.8	8.9	52.8	2.9	17.4	39.0	17.5
7	Pale smartweed	39.3	9.5	24.1	1.6	4.2	16.0	16.3
8	Quack grass	32.6	6.3	19.2	1.8	5.4	17.2	14.0
9	Perennial sow-thistle	30.3	8.0	26.3	1.4	4.5	25.6	13.3
10	Cleavers	22.5	10.2	45.4	1.1	4.9	12.8	12.6
11	Hemp-nettle	24.3	8.4	34.4	1.3	5.1	19.4	12.3
12	Wild mustard	43.4	6.1	14.1	0.5	1.1	5.2	10.9
13	Lamb's-quarters	30.7	7.8	25.6	0.7	2.2	6.2	10.8
14	Redroot pigweed	29.3	4.8	16.3	0.6	2.1	13.6	8.8
15	Dandelion	22.4	5.1	22.7	0.5	2.1	9.2	7.4
16	Night-flowering catchfly	16.1	4.5	28.2	0.6	3.7	8.8	6.8
17	Wheat	15.2	4.8	31.6	0.5	3.4	8.4	6.5
18	Alfalfa	18.6	2.4	12.9	0.2	1.0	5.6	4.5
19	Broad-leaved plantain	19.1	2.1	10.9	0.2	0.8	2.2	4.2
20	Flax	8.0	2.5	31.7	0.3	3.5	10.2	3.5
21	Field horsetail	12.3	1.5	12.4	0.3	2.0	5.6	3.4
22	American dragonhead	11.8	1.0	8.4	< 0.1	0.4	0.6	2.3
23	Prostrate knotweed	7.7	0.9	11.9	0.1	0.8	1.4	1.7
24	Stinkweed	8.0	0.5	6.7	< 0.1	0.5	1.2	1.5
25	Thyme-leaved spurge	4.7	0.9	20.0	0.1	1.8	2.4	1.5
26	Shepherd's-purse	7.5	0.4	5.0	< 0.1	0.4	0.8	1.3
27	Black medick	2.7	0.8	30.0	0.1	2.8	2.8	1.1
28	Yellow foxtail	2.4	0.7	30.0	0.1	2.2	2.2	0.9
29	Stork's-bill	5.3	0.3	5.0	< 0.1	0.2	0.2	0.9
30	Barley	4.8	0.2	5.0	< 0.1	0.4	0.6	0.8
31	Common ragweed	2.7	0.4	15.0	< 0.1	1.2	1.2	0.7
32	Narrow-leaved hawk's-beard	2.2	0.4	20.0	< 0.1	1.4	1.4	0.6
33	Tumble pigweed	3.8	0.2	5.0	< 0.1	0.2	0.2	0.6
34	Common groundsel	2.2	0.3	15.0	< 0.1	1.6	1.6	0.6
35	Witch grass	2.4	0.4	15.0	< 0.1	0.8	0.8	0.6
36	Dock species	2.7	0.1	5.0	< 0.1	1.2	1.2	0.5
37	Spreading dogbane	2.7	0.1	5.0	< 0.1	0.6	0.6	0.5
38	White cockle	2.2	0.2	10.0	< 0.1	0.8	0.8	0.5
39	Bicknell's geranium	2.7	0.1	5.0	< 0.1	0.2	0.2	0.4
40	Round-leaved mallow	2.7	0.1	5.0	< 0.1	0.2	0.2	0.4
41	Purslane	2.7	0.1	5.0	< 0.1	0.2	0.2	0.4
42	Bird's-foot trefoil	2.7	0.1	5.0	< 0.1	0.2	0.2	0.4
43	Canola/rapeseed	2.7	0.1	5.0	< 0.1	0.2	0.2	0.4

**Field Survey Summary Tables – 1990s Spring Wheat**

Table 76. 1990s Spring wheat (1031 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	51.0	23.6	46.2	13.6	26.7	1693.2	61.2
2	Wild oats	64.3	19.4	30.2	4.7	7.2	189.2	36.4
3	Wild buckwheat	65.1	23.0	35.4	3.0	4.6	167.6	34.6
4	Canada thistle	41.8	9.5	22.8	1.1	2.6	61.8	16.4
5	Stinkweed	27.9	6.3	22.7	1.5	5.3	348.2	12.9
6	Chickweed	8.0	3.3	41.0	2.5	31.1	619.8	10.3
7	Redroot pigweed	25.2	5.3	21.1	0.6	2.5	32.4	9.6
8	Perennial sow-thistle	23.9	4.9	20.5	0.5	2.2	35.2	8.8
9	Lamb's-quarters	21.9	3.9	17.8	0.4	1.9	33.0	7.4
10	Canola/rapeseed	12.7	3.7	29.3	0.6	4.9	65.8	6.3
11	Russian thistle	15.6	3.1	20.0	0.5	3.4	67.0	6.2
12	Kochia	16.6	3.0	18.4	0.4	2.7	50.8	6.0
13	Dandelion	17.6	2.9	16.4	0.3	1.5	76.4	5.7
14	Pale smartweed	13.8	2.6	19.0	0.4	3.0	133.0	5.2
15	Wild mustard	14.2	2.9	20.6	0.3	2.2	32.6	5.2
16	Shepherd's-purse	12.3	2.5	20.7	0.4	3.2	53.0	4.9
17	Cleavers	7.7	2.6	33.6	0.5	6.5	74.4	4.4
18	Barnyard grass	7.2	1.6	22.0	0.6	9.0	224.8	4.0
19	Quack grass	9.1	1.7	19.3	0.3	3.7	50.2	3.6
20	Hemp-nettle	8.5	2.0	23.7	0.3	3.6	55.6	3.6
21	Thyme-leaved spurge	7.0	2.1	29.5	0.3	4.3	41.6	3.4
22	Flax	4.0	1.6	41.3	0.5	12.1	70.8	3.1
23	Narrow-leaved hawk's-beard	7.8	1.5	19.3	0.2	2.7	36.2	2.9
24	Field horsetail	6.1	1.2	20.1	0.2	3.8	28.0	2.5
25	Common groundsel	4.6	1.1	24.7	0.3	5.7	118.4	2.3
26	Cow cockle	5.2	1.3	24.9	0.2	3.3	30.2	2.2
27	Flixweed	7.3	0.8	11.4	0.1	0.8	10.0	2.0
28	Pineappleweed	2.6	0.6	22.2	0.4	16.1	258.6	1.9
29	Night-flowering catchfly	4.5	1.0	23.4	0.2	3.9	46.0	1.9
30	Round-leaved mallow	4.4	0.8	17.2	0.1	2.0	25.6	1.5
31	Barley	3.8	0.8	20.7	0.1	2.8	23.4	1.5
32	Persian darnel	2.7	0.6	21.9	0.2	7.9	75.0	1.5
33	Low cudweed	0.4	0.2	50.3	0.4	113.7	363.8	1.3
34	Prostrate knotweed	3.9	0.6	15.8	0.1	2.2	24.0	1.3
35	Bluebur	4.9	0.5	11.2	< 0.1	0.8	4.4	1.3
36	Rose species	3.9	0.3	8.0	< 0.1	0.7	3.6	1.0
37	Spiny annual sow-thistle	2.7	0.4	15.8	< 0.1	1.8	24.8	0.9
38	Tumble pigweed	1.8	0.4	22.9	< 0.1	2.6	11.0	0.7
39	Stork's-bill	1.5	0.3	23.1	0.1	6.0	57.8	0.7
40	Canary grass	0.4	0.2	37.9	0.2	43.3	144.2	0.7
41	Prostrate pigweed	2.5	0.2	10.0	< 0.1	0.6	2.8	0.6
42	Foxtail barley	2.4	0.2	9.6	< 0.1	0.7	3.6	0.6
43	Wheat	1.9	0.3	15.6	< 0.1	1.3	12.4	0.6
44	Absinth	1.4	0.4	27.6	< 0.1	1.8	5.4	0.6
45	Clover species	1.5	0.3	17.9	< 0.1	1.9	13.6	0.5
46	American dragonhead	1.5	0.2	15.8	< 0.1	2.5	26.8	0.5
47	Canada fleabane	1.7	0.2	11.5	< 0.1	0.9	4.2	0.5
48	Corn spurry	1.7	0.2	11.5	< 0.1	1.1	9.4	0.5
49	Lentils	0.9	0.3	31.4	< 0.1	3.0	12.2	0.4
50	Biennial wormwood	1.6	0.1	8.6	< 0.1	0.9	5.6	0.4
51	Tartary buckwheat	0.7	0.2	31.8	< 0.1	6.8	26.0	0.4
52	Broad-leaved plantain	1.4	0.2	11.5	< 0.1	0.7	2.6	0.4
53	Vetch species	1.4	0.1	8.1	< 0.1	0.7	2.0	0.3
54	Field peas	1.0	0.2	18.8	< 0.1	1.0	3.8	0.3

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Table 76. 1990s Spring wheat (1031 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Yellow toadflax	0.6	0.2	31.8	< 0.1	4.5	12.4	0.3
56	Dock species	0.9	0.2	17.0	< 0.1	1.2	5.2	0.3
57	Scentsless chamomile	0.8	0.2	19.8	< 0.1	2.4	9.2	0.3
58	Common pepper-grass	1.0	0.1	11.0	< 0.1	0.7	2.4	0.3
59	Dog mustard	0.9	0.1	16.3	< 0.1	1.3	4.4	0.3
60	Sunflower species	0.8	0.1	15.3	< 0.1	2.1	11.8	0.2
61	Wild tomato	1.1	0.1	6.1	< 0.1	0.3	0.8	0.2
62	White mustard	0.2	0.1	60.2	< 0.1	13.4	31.2	0.2
63	Showy milkweed	0.3	0.1	30.4	< 0.1	11.2	42.8	0.2
64	Water smartweed	0.8	0.1	7.8	< 0.1	1.4	3.6	0.2
65	Common ragweed	0.6	0.1	15.8	< 0.1	3.1	14.6	0.2
66	Ball mustard	0.8	0.1	8.9	< 0.1	0.8	5.2	0.2
67	Yellow foxtail	0.7	0.1	10.6	< 0.1	1.8	8.0	0.2
68	Rough cinquefoil	0.9	0.1	6.3	< 0.1	0.3	0.4	0.2
69	Rye	0.5	0.1	26.8	< 0.1	1.9	3.0	0.2
70	Black medick	0.6	< 0.1	7.8	< 0.1	0.6	2.8	0.1
71	Yellow sweet-clover	0.6	< 0.1	7.8	< 0.1	0.3	0.6	0.1
72	Milk-vetch species	0.3	0.1	22.5	< 0.1	2.6	5.4	0.1
73	Alfalfa	0.5	< 0.1	8.2	< 0.1	0.5	0.8	0.1
74	Vetchling species	0.5	< 0.1	7.8	< 0.1	0.4	1.4	0.1
75	Downy brome	0.5	< 0.1	8.0	< 0.1	0.3	0.4	0.1
76	Wormseed mustard	0.2	0.1	37.2	< 0.1	3.7	8.2	0.1
77	Tumble mustard	0.4	< 0.1	6.2	< 0.1	0.2	0.4	0.1
78	Wood whitlow-grass	0.4	< 0.1	9.4	< 0.1	0.4	0.8	0.1
79	Poplar species	0.4	< 0.1	6.4	< 0.1	0.5	0.8	0.1
80	Leafy spurge	0.3	< 0.1	9.5	< 0.1	0.7	1.8	0.1
81	Willowherb species	0.4	< 0.1	5.0	< 0.1	0.2	0.4	0.1
82	Indian mustard	0.2	< 0.1	19.2	< 0.1	0.8	1.2	0.1
83	Povertyweed	0.2	< 0.1	10.5	< 0.1	5.7	8.8	0.1
84	Green tansy mustard	0.3	< 0.1	6.6	< 0.1	0.3	0.4	0.1
85	Blue lettuce	0.3	< 0.1	5.0	< 0.1	0.3	0.4	0.1
86	Prickly lettuce	0.3	< 0.1	7.7	< 0.1	0.5	0.8	0.1
87	Perennial rye grass	0.1	< 0.1	30.0	< 0.1	3.6	3.6	0.1
88	Purslane	0.2	< 0.1	6.2	< 0.1	0.5	1.0	0.1
89	Bicknell's geranium	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
90	Oak-leaved goosefoot	0.2	< 0.1	7.0	< 0.1	1.5	3.4	0.1
91	Manitoba maple	0.2	< 0.1	10.0	< 0.1	0.4	0.6	0.1
92	Henbit	0.2	< 0.1	9.3	< 0.1	0.5	0.8	< 0.1
93	Spreading dogbane	0.2	< 0.1	5.0	< 0.1	0.4	0.6	< 0.1
94	Borage	0.1	< 0.1	30.0	< 0.1	2.6	2.6	< 0.1
95	Purslane speedwell	0.1	< 0.1	25.0	< 0.1	2.2	2.2	< 0.1
96	Oats	0.1	< 0.1	20.0	< 0.1	1.6	1.6	< 0.1
97	Cocklebur	0.1	< 0.1	5.0	< 0.1	0.7	1.2	< 0.1
98	Tall buttercup	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
99	Common burdock	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
100	Buffaloberry species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
101	Short-awned foxtail	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
102	Aster species	0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
103	Nightshade species	0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
104	False flax species	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
105	Plains prickly-pear	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
106	Field violet	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
107	Goat's-beard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
108	Northern bedstraw	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1

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**Field Survey Summary Tables – 1990s Spring Wheat**

Table 76. 1990s Spring wheat (1031 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
109	Gray tansy mustard	0.1	< 0.1	5.0	< 0.1	1.0	1.0	< 0.1
110	Spear-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
111	Skeletonweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
112	False ragweed	0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
113	Tansy	0.1	< 0.1	5.0	< 0.1	1.6	1.6	< 0.1
114	Knawel	0.1	< 0.1	10.0	< 0.1	1.6	1.6	< 0.1
115	Wild chamomile	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
116	Diffuse knapweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
117	Bird's-foot trefoil	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
118	Common yarrow	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
119	Smooth brome	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
120	Bladder campion	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
121	Yellow nut sedge	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 77. 1990s Spring wheat in the Peace Lowland Ecoregion (26 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	61.1	22.5	36.7	30.7	50.2	619.8	47.4
2	Pineappleweed	50.1	14.5	28.9	17.3	34.6	258.6	29.1
3	Stinkweed	61.6	24.2	39.3	5.5	9.0	44.6	21.7
4	Field horsetail	61.1	20.2	33.1	5.1	8.3	28.0	19.6
5	Wild buckwheat	69.3	22.0	31.8	2.3	3.3	9.8	18.3
6	Cleavers	42.4	19.0	44.8	4.6	10.8	43.6	16.6
7	Dandelion	61.8	12.9	20.8	4.3	6.9	76.4	16.0
8	Pale smartweed	37.6	11.9	31.6	6.4	17.1	133.0	15.3
9	Narrow-leaved hawk's-beard	42.8	14.9	34.8	2.8	6.4	36.2	13.1
10	Canada thistle	48.1	12.9	26.8	2.3	4.7	13.2	12.5
11	Common groundsel	43.4	13.7	31.6	1.9	4.3	17.0	11.9
12	Wild oats	35.4	12.2	34.6	2.9	8.1	60.2	11.5
13	Hemp-nettle	35.9	9.9	27.6	1.7	4.7	29.2	9.4
14	Shepherd's-purse	34.5	7.8	22.7	1.8	5.2	21.0	8.6
15	Perennial sow-thistle	41.4	5.2	12.5	0.6	1.5	4.6	7.1
16	Lamb's-quarters	29.3	7.0	23.8	0.9	3.0	15.2	6.7
17	Canola/rapeseed	22.2	7.2	32.5	1.3	5.9	25.8	6.5
18	Clover species	26.4	6.6	25.0	0.8	2.9	13.6	6.2
19	Broad-leaved plantain	23.3	3.5	15.0	0.2	0.9	2.6	4.1
20	Tartary buckwheat	7.6	4.4	57.5	0.7	8.6	13.0	3.2
21	Bluebur	19.2	1.4	7.1	0.1	0.6	1.2	2.7
22	Yellow toadflax	3.5	2.6	75.0	0.4	12.4	12.4	1.8
23	Rose species	8.0	0.8	10.0	0.1	0.9	1.2	1.2
24	Rough cinquefoil	8.8	0.7	7.5	< 0.1	0.3	0.4	1.2
25	Corn spurry	8.2	0.6	7.9	< 0.1	0.3	0.4	1.2
26	Flixweed	7.3	0.7	10.2	0.1	0.8	1.4	1.1
27	Wild mustard	3.8	1.3	35.0	0.1	2.2	2.2	1.0
28	Quack grass	7.0	0.4	5.0	< 0.1	0.7	0.8	0.9
29	Tall buttercup	6.9	0.3	5.0	< 0.1	0.2	0.2	0.9
30	Flax	3.8	0.6	15.0	0.2	5.4	5.4	0.8
31	Northern bedstraw	4.4	0.4	10.0	< 0.1	0.6	0.6	0.7
32	Redroot pigweed	3.6	0.5	15.0	< 0.1	0.8	0.8	0.6
33	Vetch species	4.4	0.2	5.0	< 0.1	0.4	0.4	0.6
34	Green foxtail	3.8	0.2	5.0	< 0.1	0.2	0.2	0.5

**Field Survey Summary Tables – 1990s Spring Wheat**

Table 78. 1990s Spring wheat in the Boreal Transition Ecoregion (76 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	70.4	31.1	44.2	6.2	8.9	57.0	33.1
2	Green foxtail	30.9	13.8	44.6	12.1	39.1	487.8	30.8
3	Chickweed	32.7	13.9	42.5	8.5	26.1	257.8	24.9
4	Canada thistle	76.1	21.4	28.2	2.7	3.6	27.0	23.3
5	Wild buckwheat	59.2	20.6	34.9	2.3	4.0	31.4	20.3
6	Stinkweed	35.2	8.1	22.9	6.0	17.1	348.2	18.2
7	Cleavers	38.4	13.7	35.7	3.1	8.1	74.4	16.1
8	Perennial sow-thistle	54.5	12.2	22.4	1.3	2.4	13.8	14.2
9	Hemp-nettle	35.4	11.4	32.4	2.2	6.1	55.6	13.1
10	Lamb's-quarters	42.0	11.3	27.0	1.5	3.7	17.4	12.7
11	Field horsetail	38.7	7.2	18.7	1.2	3.0	13.4	9.9
12	Canola/rapeseed	28.9	7.6	26.4	1.5	5.1	65.8	9.4
13	Shepherd's-purse	36.0	5.9	16.3	0.8	2.3	27.0	8.4
14	Pale smartweed	26.4	5.1	19.2	0.4	1.4	8.8	6.1
15	Dandelion	25.8	4.0	15.6	0.2	1.0	5.4	5.3
16	Wild mustard	14.7	2.9	19.5	0.3	1.9	9.8	3.5
17	Quack grass	11.3	2.4	21.5	0.6	5.3	19.6	3.5
18	Russian thistle	6.9	1.8	26.0	0.9	13.7	46.0	3.3
19	Flax	5.9	3.2	54.7	0.5	9.3	20.8	3.1
20	Low cudweed	2.6	1.1	42.4	1.2	46.3	74.4	2.9
21	Night-flowering catchfly	8.7	2.4	27.9	0.4	4.8	16.2	2.8
22	Bluebur	13.9	1.5	10.8	0.1	0.7	2.8	2.5
23	Common groundsel	10.4	2.0	18.8	0.2	1.5	3.8	2.4
24	Narrow-leaved hawk's-beard	12.0	1.5	12.7	0.1	1.0	5.8	2.3
25	Stork's-bill	3.3	1.5	44.4	0.7	21.4	57.8	2.3
26	Corn spurry	9.2	1.0	10.8	< 0.1	0.5	1.0	1.6
27	Prostrate knotweed	2.0	1.0	50.0	0.5	24.0	24.0	1.5
28	Showy milkweed	1.1	1.1	100.0	0.5	42.8	42.8	1.4
29	Rye	3.4	1.4	40.0	0.1	3.0	3.0	1.2
30	Canada fleabane	6.0	0.8	13.3	< 0.1	0.8	2.2	1.2
31	Redroot pigweed	5.4	0.8	14.0	0.1	1.5	5.8	1.1
32	Rose species	6.4	0.5	7.6	0.1	0.8	2.0	1.1
33	Round-leaved mallow	4.7	0.8	17.7	0.1	1.4	3.8	1.1
34	Clover species	4.9	0.7	14.6	0.1	1.4	4.2	1.0
35	Barnyard grass	3.3	0.3	8.3	0.3	7.9	22.4	1.0
36	Kochia	4.2	0.8	18.7	< 0.1	1.1	2.8	0.9
37	Barley	5.6	0.3	6.1	< 0.1	0.3	0.4	0.8
38	Spiny annual sow-thistle	3.4	0.7	20.5	0.1	1.8	4.2	0.8
39	Field peas	2.8	0.8	27.5	< 0.1	1.3	2.4	0.7
40	Indian mustard	3.1	0.6	19.2	< 0.1	0.8	1.2	0.7
41	Vetchling species	3.9	0.4	9.5	< 0.1	0.6	1.4	0.7
42	Common ragweed	1.1	0.5	50.0	0.2	14.6	14.6	0.6
43	Alfalfa	3.5	0.3	9.2	< 0.1	0.5	0.8	0.6
44	Ball mustard	3.7	0.2	5.0	< 0.1	0.3	0.4	0.5
45	Vetch species	3.5	0.2	6.6	< 0.1	0.4	0.6	0.5
46	American dragonhead	3.3	0.3	8.3	< 0.1	0.5	0.8	0.5
47	Perennial rye grass	1.7	0.5	30.0	0.1	3.6	3.6	0.5
48	Absinth	2.9	0.2	7.6	< 0.1	0.7	1.2	0.5
49	Wormseed mustard	1.7	0.5	30.0	< 0.1	1.2	1.2	0.5
50	Cow cockle	1.9	0.3	17.2	< 0.1	1.5	2.4	0.4
51	Tartary buckwheat	0.9	0.6	60.0	< 0.1	4.2	4.2	0.4
52	Rough cinquefoil	2.6	0.2	7.9	< 0.1	0.3	0.4	0.4
53	Borage	1.3	0.4	30.0	< 0.1	2.6	2.6	0.4
54	Black medick	1.1	0.3	25.0	< 0.1	2.8	2.8	0.3

(Table continued on next page)

Table 78. 1990s Spring wheat in the Boreal Transition Ecoregion (76 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Broad-leaved plantain	1.1	0.2	15.0	< 0.1	1.0	1.0	0.2
56	Henbit	1.5	0.1	5.0	< 0.1	0.2	0.2	0.2
57	Yellow sweet-clover	1.5	0.1	5.0	< 0.1	0.2	0.2	0.2
58	False ragweed	1.1	0.1	10.0	< 0.1	0.8	0.8	0.2
59	Flixweed	1.1	0.1	10.0	< 0.1	0.6	0.6	0.2
60	Wheat	1.1	0.1	10.0	< 0.1	0.6	0.6	0.2
61	Pineappleweed	1.3	0.1	5.0	< 0.1	0.4	0.4	0.2
62	Tansy	1.1	0.1	5.0	< 0.1	1.6	1.6	0.2
63	Persian dandelion	1.1	0.1	5.0	< 0.1	1.0	1.0	0.2
64	Foxtail barley	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
65	Wild tomato	1.1	0.1	5.0	< 0.1	0.6	0.6	0.2
66	Smooth brome	1.1	0.1	5.0	< 0.1	0.4	0.4	0.2
67	Yellow foxtail	1.1	0.1	5.0	< 0.1	0.4	0.4	0.2
68	Wood whitlow-grass	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1

**Field Survey Summary Tables – 1990s Spring Wheat**

Table 79. 1990s Spring wheat in the Aspen Parkland Ecoregion (328 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	62.5	30.5	48.8	19.9	31.8	827.6	66.6
2	Wild oats	62.2	20.6	33.0	5.7	9.2	189.2	31.8
3	Wild buckwheat	71.1	25.5	35.8	2.8	3.9	60.2	29.6
4	Canada thistle	68.4	16.5	24.1	1.9	2.8	61.8	22.5
5	Perennial sow-thistle	42.9	9.6	22.3	0.9	2.2	16.4	13.2
6	Stinkweed	29.6	7.8	26.2	1.8	6.1	59.4	12.2
7	Chickweed	10.5	4.2	40.2	3.5	33.6	506.8	11.1
8	Shepherd's-purse	21.0	5.2	24.6	0.9	4.2	53.0	7.6
9	Lamb's-quarters	25.6	4.9	19.3	0.5	2.1	33.0	7.4
10	Canola/rapeseed	18.2	5.3	29.1	0.9	4.8	41.0	7.3
11	Wild mustard	22.7	5.2	22.9	0.6	2.5	24.2	7.2
12	Redroot pigweed	22.5	4.8	21.4	0.6	2.8	23.6	7.1
13	Pale smartweed	19.6	3.8	19.4	0.5	2.5	24.8	5.9
14	Quack grass	18.7	3.3	17.6	0.5	2.7	40.4	5.5
15	Cleavers	10.4	3.2	30.4	0.5	4.7	30.8	4.2
16	Dandelion	17.1	2.5	14.5	0.2	1.1	15.6	4.2
17	Flax	6.2	2.8	45.1	0.8	13.7	70.8	4.1
18	Narrow-leaved hawk's-beard	13.3	2.6	19.3	0.3	2.6	32.0	4.0
19	Night-flowering catchfly	10.0	2.5	25.5	0.5	4.5	46.0	3.7
20	Russian thistle	14.0	2.1	14.9	0.2	1.5	12.6	3.5
21	Common groundsel	6.9	1.9	27.4	0.7	10.0	118.4	3.4
22	Hemp-nettle	12.2	1.7	13.7	0.2	1.4	6.6	3.0
23	Kochia	9.4	1.3	14.4	0.3	3.5	50.8	2.7
24	Barley	7.7	2.1	27.0	0.2	3.0	15.4	2.7
25	Low cudweed	0.6	0.3	60.0	1.1	196.3	363.8	2.6
26	Barnyard grass	6.6	1.1	17.3	0.5	6.9	131.4	2.5
27	Round-leaved mallow	7.3	1.2	15.8	0.1	1.5	5.4	1.9
28	Spiny annual sow-thistle	5.7	1.1	19.7	0.1	2.5	24.8	1.7
29	Bluebur	6.8	1.0	13.9	0.1	1.0	4.4	1.6
30	Prostrate knotweed	5.6	1.0	18.6	0.1	2.1	16.6	1.6
31	Thyme-leaved spurge	4.4	0.8	17.9	0.1	1.7	10.6	1.2
32	Pineappleweed	4.0	0.8	19.8	0.1	2.3	12.8	1.2
33	Field horsetail	4.8	0.6	12.1	0.1	1.7	7.2	1.2
34	American dragonhead	2.8	0.6	22.7	0.1	4.1	26.8	1.0
35	Stork's-bill	3.1	0.6	17.9	0.1	2.9	16.8	0.9
36	Flixweed	2.9	0.6	20.7	< 0.1	1.5	4.0	0.8
37	Scentless chamomile	2.3	0.5	19.7	0.1	2.7	9.2	0.7
38	Dog mustard	2.6	0.5	17.7	< 0.1	1.3	4.4	0.7
39	Rose species	3.3	0.2	5.8	< 0.1	0.5	1.0	0.6
40	Corn spurry	2.3	0.3	14.2	< 0.1	2.1	9.4	0.6
41	Yellow toadflax	1.4	0.4	30.5	0.1	4.1	9.4	0.6
42	Tartary buckwheat	1.2	0.2	19.9	0.1	8.4	26.0	0.5
43	Biennial wormwood	2.4	0.2	8.5	< 0.1	0.6	1.4	0.5
44	Field peas	1.6	0.3	19.6	< 0.1	1.2	3.8	0.4
45	Ball mustard	1.9	0.2	11.0	< 0.1	1.1	5.2	0.4
46	Clover species	1.7	0.2	13.8	< 0.1	1.3	4.4	0.4
47	Milk-vetch species	1.1	0.3	22.5	< 0.1	2.6	5.4	0.4
48	White mustard	0.5	0.2	42.0	0.1	13.9	31.2	0.3
49	Vetch species	1.5	0.1	8.2	< 0.1	0.6	1.6	0.3
50	Black medick	1.7	0.1	5.0	< 0.1	0.2	0.2	0.3
51	Foxtail barley	1.4	0.1	9.9	< 0.1	0.6	1.2	0.3
52	Water smartweed	1.2	0.1	6.5	< 0.1	1.7	3.2	0.3
53	Broad-leaved plantain	1.3	0.1	7.6	< 0.1	0.3	0.6	0.3
54	Cow cockle	1.3	0.1	7.6	< 0.1	0.3	0.4	0.2

(Table continued on next page)



Table 79. 1990s Spring wheat in the Aspen Parkland Ecoregion (328 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Poplar species	1.3	0.1	6.4	< 0.1	0.5	0.8	0.2
56	Wood whitlow-grass	1.0	0.1	10.3	< 0.1	0.5	0.8	0.2
57	Persian darnel	0.3	0.2	50.0	< 0.1	9.2	9.2	0.2
58	Yellow sweet-clover	0.9	0.1	7.0	< 0.1	0.4	0.6	0.2
59	Common ragweed	0.9	0.1	6.8	< 0.1	0.3	0.6	0.2
60	Wild tomato	0.9	< 0.1	5.0	< 0.1	0.2	0.4	0.2
61	Willowherb species	0.9	< 0.1	5.0	< 0.1	0.3	0.4	0.2
62	Wormseed mustard	0.2	0.1	50.0	< 0.1	8.2	8.2	0.1
63	Rough cinquefoil	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
64	Leafy spurge	0.5	0.1	14.0	< 0.1	1.1	1.8	0.1
65	Absinth	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Wheat	0.5	0.1	12.6	< 0.1	0.5	0.8	0.1
67	Dock species	0.7	< 0.1	5.0	< 0.1	0.3	0.4	0.1
68	Common pepper-grass	0.6	< 0.1	8.0	< 0.1	0.4	0.4	0.1
69	Purslane speedwell	0.4	0.1	25.0	< 0.1	2.2	2.2	0.1
70	Showy milkweed	0.6	< 0.1	7.2	< 0.1	0.3	0.4	0.1
71	Manitoba maple	0.5	< 0.1	10.0	< 0.1	0.4	0.6	0.1
72	Purslane	0.5	< 0.1	7.1	< 0.1	0.8	1.0	0.1
73	Spreading dogbane	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
74	Henbit	0.3	< 0.1	15.0	< 0.1	0.8	0.8	0.1
75	Tumble pigweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
76	Gray tansy mustard	0.3	< 0.1	5.0	< 0.1	1.0	1.0	0.1
77	Green tansy mustard	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
78	Povertyweed	0.3	< 0.1	5.0	< 0.1	2.0	2.0	0.1
79	Downy brome	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Sunflower species	0.2	< 0.1	15.0	< 0.1	0.8	0.8	0.1
81	Wild chamomile	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
82	Knawel	0.2	< 0.1	10.0	< 0.1	1.6	1.6	0.1
83	Canada fleabane	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
84	Bicknell's geranium	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
85	Common yarrow	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
86	Prostrate pigweed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
87	Vetchling species	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
88	Cocklebur	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
89	Yellow foxtail	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
90	Alfalfa	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 1990s Spring Wheat**

Table 80. 1990s Spring wheat in the Fescue Grassland Ecoregion (12 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	59.2	16.3	27.5	2.5	4.3	23.0	54.9
2	Wild buckwheat	49.0	19.6	40.0	1.8	3.7	7.8	48.7
3	Canada thistle	75.0	15.9	21.3	1.4	1.8	4.6	45.9
4	Dandelion	25.0	14.0	55.8	1.4	5.8	10.8	34.0
5	Stinkweed	49.5	5.7	11.6	0.4	0.8	2.4	20.4
6	Chickweed	33.2	7.1	21.5	0.4	1.3	2.4	18.6
7	Quack grass	25.5	4.3	16.8	0.3	1.1	2.2	12.7
8	Hemp-nettle	16.3	4.5	27.5	0.3	1.7	2.2	10.8
9	Shepherd's-purse	16.3	3.7	22.5	0.3	2.1	3.2	10.7
10	Canola/rapeseed	24.5	1.6	6.7	0.1	0.5	0.6	8.1
11	Round-leaved mallow	8.7	3.0	35.0	0.2	2.4	2.4	7.0
12	Redroot pigweed	16.8	1.7	9.9	0.1	0.5	0.8	6.1
13	Rose species	16.8	1.3	7.6	0.1	0.4	0.6	5.6
14	Cleavers	8.2	0.8	10.0	0.2	2.8	2.8	4.9
15	Narrow-leaved hawk's-beard	8.2	0.4	5.0	< 0.1	0.2	0.2	2.3
16	Lamb's-quarters	8.2	0.4	5.0	< 0.1	0.2	0.2	2.3
17	Pale smartweed	8.2	0.4	5.0	< 0.1	0.2	0.2	2.3
18	Perennial sow-thistle	8.2	0.4	5.0	< 0.1	0.2	0.2	2.3
19	Barley	8.2	0.4	5.0	< 0.1	0.2	0.2	2.3

Table 81. 1990s Spring wheat in the Moist Mixed Grassland Ecoregion (237 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	50.3	22.9	45.5	8.2	16.4	280.8	61.1
2	Wild buckwheat	67.4	25.2	37.4	3.5	5.1	93.6	46.8
3	Wild oats	62.9	18.3	29.0	3.8	6.1	132.0	42.1
4	Stinkweed	31.0	6.8	21.9	0.8	2.7	18.4	14.8
5	Redroot pigweed	29.1	6.8	23.5	0.7	2.4	31.0	13.9
6	Canada thistle	29.5	5.8	19.7	0.6	2.1	13.2	12.8
7	Dandelion	22.5	4.4	19.6	0.3	1.3	7.2	9.0
8	Canola/rapeseed	12.0	4.2	35.4	0.7	6.1	31.6	8.6
9	Russian thistle	14.3	2.9	20.1	0.6	4.2	67.0	7.5
10	Thyme-leaved spurge	8.5	3.7	43.9	0.7	8.0	41.6	7.3
11	Kochia	17.1	3.2	18.9	0.3	1.9	12.2	7.2
12	Lamb's-quarters	19.1	2.7	14.1	0.2	1.2	11.0	6.8
13	Barnyard grass	5.3	1.4	25.8	1.0	19.7	224.8	6.3
14	Perennial sow-thistle	15.3	2.2	14.2	0.3	1.6	17.8	5.7
15	Wild mustard	11.5	2.4	20.7	0.3	2.4	32.6	5.2
16	Cow cockle	4.9	1.3	26.5	0.3	5.7	30.2	3.1
17	Persian darnel	3.1	0.7	21.7	0.4	14.5	75.0	3.0
18	Pale smartweed	7.8	1.1	14.6	0.1	1.7	21.8	3.0
19	Shepherd's-purse	6.9	1.2	17.9	0.1	1.7	12.4	2.8
20	Narrow-leaved hawk's-beard	6.1	1.0	16.8	0.1	2.5	14.8	2.6
21	Flixweed	7.8	0.8	10.7	0.1	0.8	2.6	2.4
22	Absinth	3.9	1.4	36.7	0.1	2.3	5.4	2.2
23	Round-leaved mallow	3.0	0.9	30.2	0.2	5.0	25.6	1.9
24	Rose species	5.1	0.6	11.2	0.1	1.0	3.6	1.7
25	Quack grass	1.7	0.5	29.9	0.2	12.3	50.2	1.6

(Table continued on next page)

Table 81. 1990s Spring wheat in the Moist Mixed Grassland Ecoregion (237 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
26	Lentils	3.2	0.8	26.0	0.1	1.8	5.4	1.5
27	Flax	3.2	0.7	23.4	0.1	1.8	8.8	1.4
28	Prostrate pigweed	4.3	0.6	13.4	< 0.1	0.8	2.4	1.4
29	Chickweed	0.7	0.6	88.7	0.2	22.0	29.2	1.3
30	Dock species	2.6	0.6	21.9	< 0.1	1.5	5.2	1.1
31	Common groundsel	3.0	0.5	15.8	< 0.1	1.2	2.2	1.1
32	Barley	1.7	0.4	26.4	0.1	6.6	23.4	1.1
33	Prostrate knotweed	3.8	0.3	8.0	< 0.1	0.4	1.0	1.1
34	Bluebur	3.0	0.3	9.2	< 0.1	0.5	1.4	0.9
35	Foxtail barley	2.8	0.2	8.9	< 0.1	0.7	1.6	0.8
36	Canada fleabane	2.5	0.3	10.6	< 0.1	1.1	4.2	0.8
37	Biennial wormwood	2.2	0.2	10.0	< 0.1	1.6	5.6	0.8
38	Hemp-nettle	1.3	0.4	30.4	< 0.1	3.2	4.4	0.7
39	Night-flowering catchfly	1.7	0.3	18.8	< 0.1	0.9	1.8	0.6
40	Wheat	2.0	0.1	5.0	< 0.1	0.3	0.6	0.5
41	Common pepper-grass	1.4	0.2	16.3	< 0.1	1.1	2.4	0.5
42	Canary grass	0.4	0.2	45.0	0.1	14.2	14.2	0.5
43	Spiny annual sow-thistle	1.6	0.1	6.4	< 0.1	0.3	0.4	0.4
44	Vetch species	1.2	0.1	9.8	< 0.1	0.8	1.4	0.4
45	Tumble pigweed	1.2	0.1	11.8	< 0.1	0.5	0.6	0.4
46	Wild tomato	1.2	0.1	8.9	< 0.1	0.5	0.8	0.4
47	Povertyweed	0.4	0.1	15.0	< 0.1	8.8	8.8	0.3
48	Field peas	0.8	0.1	10.0	< 0.1	0.6	0.6	0.2
49	American dragonhead	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
50	Scentless chamomile	0.5	0.1	20.0	< 0.1	0.8	0.8	0.2
51	Pineappleweed	0.7	< 0.1	5.0	< 0.1	0.4	0.6	0.2
52	Sunflower species	0.5	0.1	15.0	< 0.1	0.8	0.8	0.2
53	Leafy spurge	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
54	Rye	0.4	0.1	15.0	< 0.1	0.6	0.6	0.1
55	Water smartweed	0.5	< 0.1	10.0	< 0.1	0.4	0.4	0.1
56	Common burdock	0.5	< 0.1	10.0	< 0.1	0.4	0.4	0.1
57	Cleavers	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
58	False flax species	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
59	Plains prickly-pear	0.5	< 0.1	5.0	< 0.1	0.4	0.4	0.1
60	Field violet	0.5	< 0.1	5.0	< 0.1	0.4	0.4	0.1
61	Goat's-beard	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
62	Willowherb species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
63	Rough cinquefoil	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
64	Yellow sweet-clover	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Common ragweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Tumble mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Clover species	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
68	Dog mustard	0.2	< 0.1	5.0	< 0.1	0.6	0.6	0.1
69	Broad-leaved plantain	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1

**Field Survey Summary Tables – 1990s Spring Wheat**

Table 82. 1990s Spring wheat in the Mixed Grassland Ecoregion (260 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	46.1	20.2	43.9	8.8	19.0	222.0	69.1
2	Wild oats	71.5	17.3	24.2	4.3	6.1	108.2	52.3
3	Wild buckwheat	59.7	19.5	32.6	3.3	5.4	167.6	47.0
4	Kochia	33.6	6.5	19.3	1.0	2.9	29.0	18.2
5	Russian thistle	27.1	6.1	22.4	0.9	3.4	62.6	16.1
6	Redroot pigweed	28.8	4.9	16.8	0.7	2.4	32.4	14.3
7	Stinkweed	23.8	3.9	16.5	0.5	1.9	27.4	11.3
8	Cow cockle	12.7	3.4	26.6	0.4	2.8	15.2	7.8
9	Lamb's-quarters	14.8	1.8	11.9	0.2	1.0	9.6	5.7
10	Thyme-leaved spurge	9.0	2.4	26.3	0.3	3.3	17.2	5.7
11	Flixweed	15.1	1.5	9.8	0.1	0.7	10.0	5.4
12	Persian darnel	6.6	1.4	21.3	0.3	5.1	26.2	4.3
13	Canada thistle	10.0	1.2	12.4	0.1	1.2	5.2	4.0
14	Canary grass	1.1	0.4	35.3	0.6	53.8	144.2	3.4
15	Tumble pigweed	5.3	1.4	26.7	0.2	3.3	11.0	3.3
16	Barnyard grass	5.5	1.0	17.7	0.2	3.4	27.4	3.0
17	Wild mustard	5.7	1.1	19.9	0.1	2.1	10.2	2.9
18	Dandelion	7.2	0.6	8.9	< 0.1	0.4	1.2	2.4
19	Wheat	4.2	0.9	21.3	0.1	1.9	12.4	2.2
20	Prostrate knotweed	4.1	0.6	13.9	< 0.1	1.0	5.6	1.7
21	Foxtail barley	4.5	0.5	10.3	< 0.1	0.8	3.6	1.6
22	Prostrate pigweed	4.7	0.3	7.4	< 0.1	0.5	2.8	1.5
23	Canola/rapeseed	2.5	0.6	22.3	< 0.1	2.0	6.2	1.3
24	Sunflower species	2.1	0.3	15.4	0.1	2.5	11.8	1.0
25	Rose species	3.0	0.2	5.6	< 0.1	0.5	1.2	0.9
26	Canada fleabane	2.0	0.2	12.0	< 0.1	0.8	1.6	0.8
27	Bluebur	2.3	0.2	8.4	< 0.1	0.5	1.2	0.7
28	Pale smartweed	1.8	0.2	10.8	< 0.1	1.6	5.2	0.7
29	Common pepper-grass	1.9	0.2	8.5	< 0.1	0.6	1.6	0.6
30	White mustard	0.4	0.3	85.0	< 0.1	12.8	12.8	0.6
31	Quack grass	0.5	0.2	45.0	0.1	12.6	12.6	0.6
32	Round-leaved mallow	1.6	0.1	7.3	< 0.1	1.6	4.6	0.6
33	Lentils	0.4	0.3	75.0	< 0.1	12.2	12.2	0.6
34	Wild tomato	1.7	0.1	5.0	< 0.1	0.2	0.2	0.5
35	Downy brome	1.4	0.1	8.8	< 0.1	0.4	0.4	0.5
36	Barley	1.2	0.1	5.0	< 0.1	2.5	7.2	0.4
37	Shepherd's-purse	1.3	0.1	7.7	< 0.1	0.5	1.0	0.4
38	Chickweed	0.6	0.2	35.0	< 0.1	3.6	3.6	0.4
39	Biennial wormwood	1.3	0.1	6.4	< 0.1	0.3	0.4	0.4
40	Vetch species	1.1	0.1	8.6	< 0.1	1.1	2.0	0.4
41	Tumble mustard	1.3	0.1	6.5	< 0.1	0.3	0.4	0.4
42	Spiny annual sow-thistle	1.3	0.1	5.0	< 0.1	0.2	0.2	0.4
43	Water smartweed	0.8	0.1	10.4	< 0.1	2.1	3.6	0.3
44	Blue lettuce	1.1	0.1	5.0	< 0.1	0.3	0.4	0.3
45	Perennial sow-thistle	1.0	0.1	7.7	< 0.1	0.4	0.4	0.3
46	Prickly lettuce	1.0	0.1	7.7	< 0.1	0.5	0.8	0.3
47	Green tansy mustard	0.7	0.1	7.5	< 0.1	0.3	0.4	0.2
48	Flax	0.4	0.1	20.0	< 0.1	2.0	2.0	0.2
49	Narrow-leaved hawk's-beard	0.7	< 0.1	7.1	< 0.1	0.3	0.4	0.2
50	Oats	0.4	0.1	20.0	< 0.1	1.6	1.6	0.2
51	Field peas	0.4	0.1	15.0	< 0.1	0.6	0.6	0.2
52	Yellow sweet-clover	0.4	0.1	15.0	< 0.1	0.6	0.6	0.2
53	Alfalfa	0.5	< 0.1	10.0	< 0.1	0.8	0.8	0.2
54	Buffaloberry species	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1

(Table continued on next page)

Table 82. 1990s Spring wheat in the Mixed Grassland Ecoregion (260 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Short-awned foxtail	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
56	Aster species	0.5	< 0.1	5.0	< 0.1	0.8	0.8	0.1
57	Rough cinquefoil	0.5	< 0.1	5.0	< 0.1	0.4	0.4	0.1
58	Nightshade species	0.5	< 0.1	5.0	< 0.1	0.6	0.6	0.1
59	Cleavers	0.4	< 0.1	10.0	< 0.1	0.8	0.8	0.1
60	Oak-leaved goosefoot	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
61	Yellow toadflax	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
62	Rye	0.4	< 0.1	5.0	< 0.1	0.6	0.6	0.1
63	Spear-leaved goosefoot	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
64	Corn spurry	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Skeletonweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Vetchling species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Purslane	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
68	Diffuse knapweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1

**Field Survey Summary Tables – 1990s Spring Wheat**

Table 83. 1990s Spring wheat in the Lake Manitoba Plain Ecoregion (76 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	71.8	32.9	45.8	40.2	56.0	1693.2	104.0
2	Wild buckwheat	60.2	23.6	39.2	3.1	5.2	41.0	32.3
3	Wild oats	51.7	15.7	30.4	3.5	6.8	74.2	25.9
4	Redroot pigweed	44.6	12.9	28.8	1.5	3.4	29.8	19.3
5	Canada thistle	48.0	7.9	16.4	0.9	1.8	13.4	15.4
6	Barnyard grass	26.5	7.0	26.3	2.2	8.3	68.6	13.3
7	Pale smartweed	34.2	5.7	16.6	0.5	1.5	5.4	10.8
8	Perennial sow-thistle	28.5	5.2	18.4	0.8	2.8	35.2	10.0
9	Flax	10.6	4.8	45.2	2.8	26.5	66.0	10.0
10	Wild mustard	27.0	3.8	14.0	0.4	1.6	13.8	8.1
11	Lamb's-quarters	23.3	4.0	17.3	0.4	1.6	5.8	7.5
12	Thyme-leaved spurge	19.9	4.3	21.7	0.4	2.1	9.4	7.2
13	Quack grass	19.7	3.7	18.8	0.4	2.0	7.2	6.7
14	Canola/rapeseed	10.7	2.7	25.6	0.4	3.7	17.6	4.4
15	Dandelion	16.9	1.3	7.9	0.1	0.4	1.2	4.0
16	Yellow foxtail	10.0	1.2	12.2	0.2	2.1	8.0	3.0
17	Round-leaved mallow	10.9	1.0	9.5	0.1	0.7	2.0	2.7
18	Hemp-nettle	5.9	1.1	19.4	0.1	2.2	6.0	2.1
19	Stork's-bill	3.7	1.0	27.7	0.1	3.6	6.2	1.6
20	Cleavers	3.3	0.6	19.9	< 0.1	1.0	1.8	1.1
21	Common ragweed	2.7	0.5	19.8	0.1	3.3	6.6	1.0
22	Barley	4.0	0.3	6.8	< 0.1	0.5	0.8	0.9
23	Night-flowering catchfly	3.4	0.3	8.2	< 0.1	0.3	0.6	0.8
24	Flixweed	2.9	0.3	10.0	< 0.1	0.6	0.8	0.7
25	Field horsetail	2.7	0.3	10.0	< 0.1	0.8	1.2	0.7
26	Bicknell's geranium	2.9	0.1	5.0	< 0.1	0.2	0.2	0.6
27	Shepherd's-purse	2.9	0.1	5.0	< 0.1	0.3	0.4	0.6
28	Tartary buckwheat	2.0	0.3	13.3	< 0.1	0.6	1.0	0.6
29	Water smartweed	2.4	0.1	5.0	< 0.1	0.4	0.4	0.5
30	Oak-leaved goosefoot	1.5	0.1	10.0	< 0.1	3.4	3.4	0.4
31	Kochia	1.4	0.2	15.0	< 0.1	1.0	1.0	0.4
32	Narrow-leaved hawk's-beard	1.5	0.1	5.0	< 0.1	1.0	1.0	0.3
33	Dock species	1.5	0.1	5.0	< 0.1	0.6	0.6	0.3
34	Bladder campion	1.5	0.1	5.0	< 0.1	0.2	0.2	0.3
35	Cocklebur	1.3	0.1	5.0	< 0.1	1.2	1.2	0.3
36	Showy milkweed	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3
37	Broad-leaved plantain	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3
38	Yellow nut sedge	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3
39	American dragonhead	1.3	0.1	5.0	< 0.1	0.2	0.2	0.3
40	Manitoba maple	1.1	0.1	10.0	< 0.1	0.4	0.4	0.3
41	Dog mustard	0.9	0.1	10.0	< 0.1	1.4	1.4	0.3
42	Stinkweed	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
43	Chickweed	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.2

Table 84. 1990s Spring wheat in the Interlake Plain Ecoregion (16 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	52.9	23.9	45.2	5.9	11.1	37.2	37.0
2	Wild oats	64.8	22.6	34.8	3.6	5.5	25.6	31.5
3	Chickweed	26.4	15.0	56.7	5.6	21.1	39.0	27.5
4	Canada thistle	70.4	21.1	30.0	2.1	3.0	16.4	27.5
5	Barnyard grass	48.6	16.1	33.1	3.8	7.9	24.8	26.4
6	Quack grass	44.9	10.7	23.9	3.1	7.0	17.2	21.1
7	Pale smartweed	48.1	13.2	27.4	2.2	4.5	13.2	20.2
8	Hemp-nettle	40.2	15.1	37.5	2.0	5.1	11.4	19.6
9	Wild buckwheat	55.1	12.8	23.3	1.0	1.8	4.8	17.6
10	Perennial sow-thistle	16.7	10.3	61.7	2.2	13.3	25.6	14.2
11	Cleavers	19.2	8.6	44.9	1.0	5.4	12.8	10.3
12	Field horsetail	18.0	3.3	18.1	0.6	3.4	5.6	6.1
13	Flax	6.8	5.8	85.0	0.7	10.2	10.2	6.0
14	Dandelion	20.5	3.1	15.0	0.2	0.9	1.6	5.1
15	Broad-leaved plantain	18.0	2.4	13.1	0.2	1.1	2.2	4.5
16	Night-flowering catchfly	18.0	1.2	6.6	0.2	0.9	2.0	3.7
17	Wild mustard	19.2	1.0	5.0	0.1	0.3	0.4	3.5
18	Redroot pigweed	12.4	1.0	7.8	0.1	0.8	1.2	2.6
19	Lamb's-quarters	12.4	0.9	7.2	0.1	0.6	1.0	2.5
20	Narrow-leaved hawk's-beard	5.6	1.1	20.0	0.1	1.4	1.4	1.6
21	Common groundsel	5.6	0.8	15.0	0.1	1.6	1.6	1.5
22	American dragonhead	6.8	0.7	10.0	< 0.1	0.6	0.6	1.5
23	Spreading dogbane	6.8	0.3	5.0	< 0.1	0.6	0.6	1.3
24	Alfalfa	6.8	0.3	5.0	< 0.1	0.4	0.4	1.3
25	Shepherd's-purse	6.8	0.3	5.0	< 0.1	0.2	0.2	1.2
26	Stinkweed	6.8	0.3	5.0	< 0.1	0.2	0.2	1.2
27	Stork's-bill	6.8	0.3	5.0	< 0.1	0.2	0.2	1.2
28	Bird's-foot trefoil	6.8	0.3	5.0	< 0.1	0.2	0.2	1.2
29	Barley	5.6	0.3	5.0	< 0.1	0.6	0.6	1.1

**Field Survey Summary Tables – 1990s Barley**

Table 85. 1990s Barley (441 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	67.6	25.0	37.0	6.8	10.0	248.0	40.9
2	Green foxtail	38.5	15.8	41.1	7.9	20.4	665.6	34.1
3	Wild buckwheat	65.5	20.6	31.5	2.8	4.3	115.6	28.3
4	Canada thistle	59.9	13.9	23.2	1.5	2.5	30.8	20.5
5	Chickweed	20.0	9.5	47.6	4.9	24.6	524.6	20.5
6	Stinkweed	34.0	7.9	23.1	1.9	5.6	136.8	14.2
7	Perennial sow-thistle	34.9	8.1	23.2	0.9	2.6	27.4	12.0
8	Cleavers	14.9	6.1	40.6	1.8	11.7	244.0	10.0
9	Lamb's-quarters	28.7	6.3	21.9	0.9	3.0	124.0	10.0
10	Quack grass	22.7	4.8	21.2	1.1	4.8	73.2	8.8
11	Hemp-nettle	18.6	6.0	32.3	0.9	4.9	41.2	8.5
12	Shepherd's-purse	19.0	4.3	22.5	0.9	4.8	47.8	7.5
13	Redroot pigweed	19.1	5.0	26.0	0.7	3.6	26.6	7.4
14	Dandelion	25.7	4.3	16.5	0.3	1.1	8.4	7.0
15	Field horsetail	14.0	2.8	19.7	1.3	9.2	201.0	6.8
16	Pale smartweed	20.7	4.0	19.2	0.6	2.9	34.2	6.8
17	Canola/rapeseed	12.6	3.4	27.2	0.6	4.9	95.2	5.3
18	Wild mustard	12.9	2.6	20.2	0.3	2.6	34.4	4.2
19	Narrow-leaved hawk's-beard	12.3	2.7	21.5	0.3	2.1	19.4	4.0
20	Corn spurry	3.6	1.3	34.6	1.0	27.5	161.8	3.7
21	Wheat	10.8	2.1	19.2	0.2	2.0	16.2	3.3
22	Common groundsel	6.7	1.8	26.9	0.5	7.0	94.2	3.1
23	Kochia	6.0	1.8	30.2	0.3	5.7	27.8	2.8
24	Russian thistle	9.3	1.4	14.8	0.1	1.5	16.0	2.5
25	Flax	4.6	1.3	27.7	0.2	5.2	34.4	2.0
26	Bluebur	6.2	1.2	19.7	0.1	2.4	21.8	2.0
27	Barnyard grass	5.5	0.8	15.2	0.2	3.8	37.0	1.8
28	Cow cockle	3.4	0.7	19.8	0.2	7.1	30.0	1.5
29	Night-flowering catchfly	3.1	1.0	32.4	0.2	4.9	25.6	1.4
30	Pineappleweed	4.5	0.9	19.8	0.1	2.0	10.6	1.4
31	Round-leaved mallow	4.2	0.7	17.3	< 0.1	0.9	2.6	1.1
32	Clover species	2.9	0.7	24.5	0.1	3.7	20.6	1.1
33	Rose species	4.1	0.6	14.2	0.1	1.4	5.2	1.1
34	Stork's-bill	1.6	0.7	43.1	0.2	11.0	59.0	1.0
35	Spiny annual sow-thistle	3.3	0.7	21.3	0.1	1.6	5.8	1.0
36	Prostrate knotweed	3.4	0.5	16.3	< 0.1	1.3	6.8	0.9
37	Persian darnel	2.7	0.5	17.9	0.1	3.1	16.8	0.9
38	Alfalfa	2.3	0.3	14.4	< 0.1	1.4	9.8	0.6
39	Broad-leaved plantain	2.3	0.3	15.0	< 0.1	1.4	4.6	0.6
40	White cockle	1.2	0.5	40.0	0.1	5.5	20.4	0.6
41	Thyme-leaved spurge	1.8	0.4	24.1	< 0.1	1.9	5.6	0.6
42	Flixweed	2.5	0.2	9.1	< 0.1	0.7	1.8	0.6
43	Yellow toadflax	1.0	0.4	41.2	< 0.1	4.8	11.4	0.5
44	Wormseed mustard	1.2	0.4	30.1	< 0.1	2.6	7.6	0.5
45	Field peas	1.1	0.3	29.9	< 0.1	2.2	4.4	0.4
46	Tartary buckwheat	1.1	0.3	24.3	< 0.1	3.0	13.2	0.4
47	Foxtail barley	1.9	0.2	8.1	< 0.1	0.4	0.8	0.4
48	Field bindweed	1.0	0.2	23.2	< 0.1	2.5	6.2	0.4
49	Ball mustard	1.1	0.2	16.2	< 0.1	1.4	3.4	0.3
50	Lentils	1.0	0.2	18.3	< 0.1	1.6	5.6	0.3
51	Water smartweed	0.8	0.2	18.0	< 0.1	3.4	8.4	0.3
52	American dragonhead	1.5	0.1	5.0	< 0.1	0.2	0.2	0.3
53	Rough cinquefoil	0.8	0.2	21.3	< 0.1	1.4	2.6	0.2
54	Scentless chamomile	1.0	0.1	9.0	< 0.1	0.9	2.8	0.2

(Table continued on next page)



Table 85. 1990s Barley (441 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Vetch species	1.0	0.1	10.0	< 0.1	0.8	1.8	0.2
56	Biennial wormwood	1.0	0.1	10.0	< 0.1	0.5	1.4	0.2
57	Prostrate pigweed	0.8	0.1	10.8	< 0.1	0.7	1.0	0.2
58	Yellow sweet-clover	0.7	0.1	16.3	< 0.1	1.0	2.2	0.2
59	Perennial rye grass	0.4	0.1	35.5	< 0.1	1.8	3.8	0.1
60	Bicknell's geranium	0.7	0.1	8.2	< 0.1	0.9	1.6	0.1
61	Nodding thistle	0.5	0.1	20.0	< 0.1	1.4	1.4	0.1
62	Timothy	0.3	0.1	34.1	< 0.1	2.7	5.4	0.1
63	Purslane	0.6	0.1	8.7	< 0.1	1.2	3.0	0.1
64	Sunflower species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Povertyweed	0.4	0.1	22.5	< 0.1	1.2	2.0	0.1
66	Absinth	0.5	0.1	10.3	< 0.1	0.4	0.6	0.1
67	Milk-vetch species	0.4	0.1	16.7	< 0.1	1.1	2.0	0.1
68	Proso millet	0.2	0.1	50.0	< 0.1	10.0	10.0	0.1
69	Canada fleabane	0.5	0.1	10.3	< 0.1	0.6	1.0	0.1
70	Common ragweed	0.4	0.1	12.7	< 0.1	0.9	1.2	0.1
71	Leafy spurge	0.5	< 0.1	5.0	< 0.1	0.4	0.6	0.1
72	Dock species	0.4	< 0.1	9.6	< 0.1	1.0	1.2	0.1
73	Slough grass	0.2	< 0.1	5.0	< 0.1	9.6	9.6	0.1
74	Russian knapweed	0.2	0.1	30.0	< 0.1	3.2	3.2	0.1
75	Dog mustard	0.3	< 0.1	12.1	< 0.1	1.5	4.6	0.1
76	Showy milkweed	0.4	< 0.1	5.0	< 0.1	0.6	1.0	0.1
77	Prickly lettuce	0.3	< 0.1	10.0	< 0.1	0.8	0.8	0.1
78	Low cudweed	0.2	< 0.1	10.0	< 0.1	4.4	4.4	0.1
79	Wood whitlow-grass	0.3	< 0.1	10.0	< 0.1	1.2	1.2	0.1
80	Henbit	0.3	< 0.1	10.0	< 0.1	0.6	0.6	0.1
81	Tansy	0.3	< 0.1	10.0	< 0.1	0.6	0.6	0.1
82	Meadow foxtail	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
83	Wild tomato	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
84	Field violet	0.3	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
85	Skeletonweed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
86	White mustard	0.2	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
87	Spear-leaved goosefoot	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
88	Gumweed	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
89	Canary grass	0.2	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
90	Vetchling species	0.2	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1

**Field Survey Summary Tables – 1990s Barley**

Table 86. 1990s Barley in the Peace Lowland Ecoregion (27 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Field horsetail	71.8	28.0	39.0	18.1	25.2	201.0	38.9
2	Cleavers	51.2	26.8	52.4	15.9	31.0	244.0	33.6
3	Wild buckwheat	65.1	22.6	34.7	7.8	12.0	115.6	25.1
4	Wild oats	55.2	17.2	31.2	7.2	13.1	97.4	21.1
5	Chickweed	35.5	12.0	33.7	10.6	30.0	160.4	20.2
6	Stinkweed	48.9	13.5	27.5	5.8	11.9	85.0	17.4
7	Common groundsel	34.5	12.8	37.2	6.1	17.6	94.2	15.7
8	Hemp-nettle	45.5	15.3	33.6	3.0	6.6	18.2	14.8
9	Pale smartweed	40.9	9.5	23.2	2.9	7.2	34.2	11.8
10	Dandelion	58.3	10.2	17.5	0.6	1.0	4.2	11.6
11	Narrow-leaved hawk's-beard	41.9	10.0	23.8	1.2	3.0	19.4	10.3
12	Perennial sow-thistle	44.9	8.5	18.9	1.1	2.4	13.2	9.9
13	Corn spurry	15.3	2.8	18.2	5.4	35.5	152.8	8.7
14	Pineappleweed	32.6	8.5	26.1	1.1	3.3	10.6	8.4
15	Canada thistle	32.8	7.3	22.3	0.7	2.3	5.6	7.6
16	Bluebur	25.8	6.0	23.4	0.6	2.3	9.4	6.1
17	Canola/rapeseed	21.3	5.0	23.7	1.4	6.4	37.2	6.0
18	Lamb's-quarters	22.3	5.4	24.2	1.0	4.6	14.2	5.9
19	Shepherd's-purse	18.9	2.9	15.6	1.6	8.2	34.6	5.1
20	Wheat	10.8	4.2	39.4	0.8	7.7	14.4	3.9
21	Clover species	10.8	3.2	29.1	0.6	5.6	13.8	3.2
22	Yellow toadflax	3.5	2.2	65.0	0.4	11.4	11.4	1.7
23	Broad-leaved plantain	7.0	1.6	22.4	0.2	2.4	4.6	1.6
24	Spiny annual sow-thistle	7.8	1.3	17.2	0.1	1.4	1.6	1.6
25	Rose species	7.5	1.0	13.1	0.2	2.1	3.8	1.4
26	Bicknell's geranium	7.9	0.8	9.9	0.1	1.2	1.6	1.3
27	Redroot pigweed	3.5	0.5	15.0	0.6	16.0	16.0	1.2
28	Prostrate knotweed	3.5	1.4	40.0	0.1	2.4	2.4	1.1
29	Milk-vetch species	3.5	0.9	25.0	0.1	2.0	2.0	0.9
30	Vetch species	4.3	0.2	5.0	< 0.1	1.0	1.0	0.6
31	Dock species	3.4	0.5	15.0	< 0.1	0.8	0.8	0.6
32	Stork's-bill	3.3	0.5	15.0	< 0.1	0.6	0.6	0.6
33	Quack grass	3.3	0.3	10.0	0.1	1.6	1.6	0.6
34	Green foxtail	3.5	0.2	5.0	< 0.1	0.4	0.4	0.5
35	Yellow sweet-clover	3.5	0.2	5.0	< 0.1	0.2	0.2	0.5
36	Wild mustard	3.4	0.2	5.0	< 0.1	0.2	0.2	0.5

Table 87. 1990s Barley in the Boreal Transition Ecoregion (82 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	75.1	32.0	42.6	10.2	13.6	248.0	49.2
2	Chickweed	38.6	18.0	46.6	13.1	34.1	524.6	43.6
3	Canada thistle	73.4	17.6	24.0	2.3	3.1	18.2	24.1
4	Wild buckwheat	64.1	20.4	31.8	1.8	2.9	13.2	23.3
5	Lamb's-quarters	37.2	10.7	28.8	2.1	5.5	124.0	15.1
6	Stinkweed	32.3	9.6	29.8	2.1	6.4	51.6	13.9
7	Hemp-nettle	28.4	10.3	36.3	1.8	6.3	41.2	13.2
8	Shepherd's-purse	34.6	8.3	24.1	1.5	4.5	47.8	12.4
9	Perennial sow-thistle	41.9	7.8	18.7	0.7	1.6	8.4	11.3
10	Cleavers	23.8	7.9	33.2	1.5	6.3	57.8	10.6
11	Dandelion	33.1	7.1	21.5	0.5	1.5	8.4	9.3
12	Quack grass	23.5	6.2	26.5	1.1	4.9	21.4	8.9
13	Field horsetail	28.7	3.7	12.9	0.5	1.8	15.8	7.0
14	Pale smartweed	28.2	3.9	13.9	0.4	1.4	24.0	6.8
15	Canola/rapeseed	14.0	4.3	31.0	1.2	8.3	95.2	6.7
16	Green foxtail	16.5	4.0	24.3	0.6	3.8	13.4	5.7
17	Narrow-leaved hawk's-beard	17.2	3.7	21.4	0.3	2.0	13.6	5.0
18	Wild mustard	10.6	2.1	20.1	0.6	5.6	34.4	3.9
19	Wheat	12.6	1.8	13.9	0.1	1.1	4.4	2.9
20	Flax	9.0	2.1	23.0	0.2	2.0	8.4	2.7
21	Bluebur	7.3	1.9	26.7	0.3	4.2	21.8	2.7
22	Redroot pigweed	8.9	2.1	23.1	0.2	1.8	7.2	2.6
23	Common groundsel	8.4	1.7	19.9	0.3	3.2	17.2	2.6
24	Stork's-bill	1.8	0.9	47.5	0.6	32.1	59.0	2.0
25	Corn spurry	4.7	1.3	26.9	0.3	6.0	19.4	1.9
26	Clover species	2.6	1.4	55.0	0.2	8.2	20.6	1.6
27	Wormseed mustard	3.3	1.1	32.3	0.1	2.2	4.0	1.2
28	Rough cinquefoil	4.0	0.8	21.3	0.1	1.4	2.6	1.1
29	Broad-leaved plantain	4.2	0.5	11.4	0.1	1.3	2.4	0.9
30	Night-flowering catchfly	1.9	0.7	39.4	0.1	4.7	10.0	0.8
31	Alfalfa	4.0	0.4	11.1	< 0.1	0.6	0.8	0.8
32	Barnyard grass	2.9	0.3	12.0	0.1	1.8	3.0	0.7
33	Timothy	1.7	0.6	34.1	< 0.1	2.7	5.4	0.6
34	Perennial rye grass	0.8	0.6	75.0	< 0.1	3.8	3.8	0.5
35	Cow cockle	2.8	0.1	5.0	< 0.1	0.2	0.2	0.5
36	Slough grass	1.1	0.1	5.0	0.1	9.6	9.6	0.4
37	Russian thistle	1.8	0.2	10.0	< 0.1	0.6	0.6	0.4
38	Water smartweed	1.6	0.1	5.0	< 0.1	2.4	2.4	0.3
39	Prickly lettuce	1.6	0.2	10.0	< 0.1	0.8	0.8	0.3
40	Low cudweed	1.1	0.1	10.0	< 0.1	4.4	4.4	0.3
41	American dragonhead	1.7	0.1	5.0	< 0.1	0.2	0.2	0.3
42	Henbit	1.4	0.1	10.0	< 0.1	0.6	0.6	0.3
43	Pineappleweed	1.6	0.1	5.0	< 0.1	0.6	0.6	0.3
44	Wild tomato	1.4	0.1	5.0	< 0.1	0.2	0.2	0.2
45	Nodding thistle	0.8	0.2	20.0	< 0.1	1.4	1.4	0.2
46	Persian darnel	1.0	0.1	10.0	< 0.1	0.4	0.4	0.2
47	Vetchling species	0.9	0.1	10.0	< 0.1	0.4	0.4	0.2
48	Flixweed	1.0	0.1	5.0	< 0.1	0.2	0.2	0.2
49	Biennial wormwood	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.1
50	Spiny annual sow-thistle	0.7	< 0.1	5.0	< 0.1	0.6	0.6	0.1

**Field Survey Summary Tables – 1990s Barley**

Table 88. 1990s Barley in the Aspen Parkland Ecoregion (193 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	50.8	22.1	43.6	11.5	22.5	665.6	46.5
2	Wild oats	74.1	28.0	37.8	7.2	9.8	244.4	42.7
3	Wild buckwheat	63.9	20.2	31.6	2.7	4.2	79.4	26.2
4	Canada thistle	67.0	17.8	26.6	1.9	2.8	30.8	23.4
5	Chickweed	20.2	10.9	53.9	3.3	16.3	99.2	16.5
6	Perennial sow-thistle	41.6	11.9	28.5	1.4	3.3	27.4	15.5
7	Stinkweed	35.0	7.2	20.6	1.2	3.3	50.6	11.6
8	Quack grass	29.7	6.6	22.1	1.6	5.4	73.2	11.6
9	Lamb's-quarters	31.2	6.3	20.1	0.6	2.0	14.8	9.2
10	Hemp-nettle	20.2	6.2	30.7	0.8	4.0	19.4	8.0
11	Shepherd's-purse	17.8	4.6	25.9	1.1	6.2	36.2	7.6
12	Cleavers	13.7	5.1	37.0	1.1	8.1	40.0	7.3
13	Redroot pigweed	17.0	4.2	24.8	0.5	3.2	26.6	6.0
14	Pale smartweed	16.7	3.9	23.1	0.5	3.3	27.6	5.7
15	Canola/rapeseed	14.2	4.1	28.9	0.6	4.0	24.0	5.5
16	Corn spurry	4.4	2.0	45.9	1.5	34.6	161.8	5.3
17	Wild mustard	15.7	3.6	23.1	0.4	2.3	15.4	5.0
18	Dandelion	20.5	2.4	11.9	0.1	0.7	4.0	4.6
19	Narrow-leaved hawk's-beard	12.9	2.9	22.3	0.3	2.1	9.6	4.0
20	Wheat	11.1	2.5	22.2	0.2	2.0	16.2	3.4
21	Field horsetail	8.7	1.1	12.3	0.4	5.1	48.4	2.9
22	Flax	5.5	1.7	31.6	0.4	7.5	34.4	2.7
23	Night-flowering catchfly	5.9	2.0	34.2	0.3	5.4	25.6	2.7
24	Common groundsel	6.7	1.7	25.9	0.2	2.7	7.2	2.3
25	Russian thistle	7.8	1.4	18.6	0.1	1.8	6.4	2.2
26	Pineappleweed	5.6	1.0	17.0	0.1	1.2	3.8	1.5
27	Spiny annual sow-thistle	4.9	1.1	22.3	0.1	1.5	5.8	1.4
28	Rose species	5.4	0.8	15.0	0.1	1.3	4.4	1.4
29	Stork's-bill	2.4	1.1	46.4	0.1	5.5	12.4	1.3
30	Prostrate knotweed	3.5	0.8	24.0	0.1	2.1	6.8	1.1
31	Bluebur	4.7	0.6	12.0	0.1	1.3	6.4	1.1
32	Field peas	2.6	0.8	29.9	0.1	2.2	4.4	0.9
33	Cow cockle	2.6	0.6	22.4	< 0.1	1.6	2.8	0.8
34	Kochia	2.1	0.4	21.1	0.1	5.1	13.6	0.8
35	Round-leaved mallow	3.1	0.5	16.3	< 0.1	0.8	1.4	0.8
36	White cockle	1.9	0.7	35.0	< 0.1	2.6	4.6	0.7
37	Yellow toadflax	1.5	0.7	46.1	0.1	4.2	6.4	0.7
38	Ball mustard	2.5	0.4	16.2	< 0.1	1.4	3.4	0.7
39	Clover species	2.8	0.4	12.6	< 0.1	0.7	1.4	0.6
40	Foxtail barley	2.9	0.2	8.0	< 0.1	0.4	0.8	0.6
41	Barnyard grass	2.4	0.3	10.9	< 0.1	0.7	1.6	0.5
42	Field bindweed	1.4	0.4	27.5	< 0.1	3.2	6.2	0.5
43	Wormseed mustard	1.3	0.4	27.5	< 0.1	3.0	7.6	0.5
44	Tartary buckwheat	1.9	0.2	12.6	< 0.1	0.8	2.4	0.4
45	Broad-leaved plantain	1.6	0.3	17.2	< 0.1	1.3	2.6	0.4
46	Persian darnel	1.3	0.2	15.3	< 0.1	3.7	7.0	0.4
47	Flixweed	2.0	0.2	8.4	< 0.1	0.6	1.0	0.4
48	American dragonhead	2.1	0.1	5.0	< 0.1	0.2	0.2	0.4
49	Thyme-leaved spurge	1.2	0.2	18.6	< 0.1	1.3	2.0	0.3
50	Yellow sweet-clover	1.1	0.2	20.7	< 0.1	1.3	2.2	0.3
51	Alfalfa	1.3	0.2	14.1	< 0.1	1.2	2.8	0.3
52	Biennial wormwood	1.2	0.2	14.0	< 0.1	0.7	1.4	0.3
53	Povertyweed	0.9	0.2	22.5	< 0.1	1.2	2.0	0.3
54	Proso millet	0.4	0.2	50.0	< 0.1	10.0	10.0	0.3

(Table continued on next page)

Table 88. 1990s Barley in the Aspen Parkland Ecoregion (193 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Scentless chamomile	1.0	0.1	10.2	< 0.1	1.6	2.8	0.2
56	Leafy spurge	1.2	0.1	5.0	< 0.1	0.4	0.6	0.2
57	Purslane	0.9	0.1	11.0	< 0.1	1.9	3.0	0.2
58	Nodding thistle	0.7	0.1	20.0	< 0.1	1.4	1.4	0.2
59	Russian knapweed	0.5	0.1	30.0	< 0.1	3.2	3.2	0.2
60	Vetch species	0.6	0.1	25.0	< 0.1	1.8	1.8	0.2
61	Wood whitlow-grass	0.6	0.1	10.0	< 0.1	1.2	1.2	0.1
62	Tansy	0.6	0.1	10.0	< 0.1	0.6	0.6	0.1
63	Water smartweed	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.1
64	Meadow foxtail	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Absinth	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Canada fleabane	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Dog mustard	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
68	Canary grass	0.4	< 0.1	10.0	< 0.1	0.6	0.6	0.1
69	Showy milkweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1

**Field Survey Summary Tables – 1990s Barley**

Table 89. 1990s Barley in the Fescue Grassland Ecoregion (30 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	65.9	23.5	35.7	4.4	6.6	42.6	42.9
2	Stinkweed	46.8	13.4	28.5	5.6	11.9	136.8	36.6
3	Wild oats	56.9	16.5	28.9	4.2	7.4	60.6	35.9
4	Chickweed	26.5	10.4	39.3	5.3	19.9	135.0	30.0
5	Canada thistle	63.8	13.7	21.5	1.1	1.8	5.6	24.6
6	Dandelion	40.0	5.4	13.5	0.4	1.0	4.0	12.2
7	Shepherd's-purse	32.9	6.6	20.0	0.5	1.6	5.2	12.1
8	Cleavers	13.1	7.9	60.0	1.1	8.4	15.8	11.6
9	Hemp-nettle	19.7	6.6	33.3	0.8	3.9	13.2	10.7
10	Lamb's-quarters	23.0	4.1	17.9	0.7	2.8	17.8	9.1
11	Pale smartweed	26.3	4.1	15.6	0.3	1.0	2.8	8.4
12	Quack grass	17.4	2.3	13.0	0.5	3.0	10.8	6.4
13	White cockle	3.3	2.8	85.0	0.7	20.4	20.4	4.8
14	Green foxtail	6.6	2.5	37.5	0.5	8.0	11.6	4.7
15	Perennial sow-thistle	9.9	2.5	25.0	0.3	2.9	7.2	4.4
16	Persian darnel	6.8	1.4	20.4	0.6	8.8	16.8	4.2
17	Rose species	10.3	2.2	21.9	0.2	2.1	5.2	4.1
18	Clover species	6.8	1.7	24.4	0.4	6.1	12.4	3.8
19	Canola/rapeseed	6.6	2.3	35.0	0.2	3.7	7.2	3.6
20	Bluebur	3.3	2.3	70.0	0.3	9.6	9.6	3.3
21	Redroot pigweed	10.3	1.6	15.2	0.1	0.9	2.0	3.2
22	Spiny annual sow-thistle	6.6	2.0	30.0	0.2	2.9	5.6	3.2
23	Alfalfa	3.3	1.8	55.0	0.3	9.8	9.8	2.9
24	Narrow-leaved hawk's-beard	6.6	1.5	22.5	0.1	1.8	2.0	2.6
25	Round-leaved mallow	10.1	0.8	8.3	< 0.1	0.5	1.0	2.5
26	Field bindweed	7.0	1.2	17.5	0.1	1.5	2.0	2.4
27	Prostrate knotweed	6.8	0.3	5.0	< 0.1	0.3	0.4	1.5
28	Wheat	6.6	0.3	5.0	< 0.1	0.3	0.4	1.4
29	Prostrate pigweed	3.5	0.5	15.0	< 0.1	0.8	0.8	1.1
30	Foxtail barley	3.5	0.5	15.0	< 0.1	0.6	0.6	1.0
31	Flixweed	3.3	0.3	10.0	< 0.1	1.2	1.2	0.9
32	White mustard	3.3	0.3	10.0	< 0.1	0.4	0.4	0.9
33	Barnyard grass	3.5	0.2	5.0	< 0.1	0.4	0.4	0.8
34	Yellow toadflax	3.3	0.2	5.0	< 0.1	0.6	0.6	0.8
35	Field horsetail	3.3	0.2	5.0	< 0.1	0.2	0.2	0.7
36	Perennial rye grass	3.3	0.2	5.0	< 0.1	0.2	0.2	0.7

Table 90. 1990s Barley in the Moist Mixed Grassland Ecoregion (53 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	45.9	20.1	43.8	12.9	28.2	244.2	73.0
2	Wild buckwheat	65.6	21.4	32.6	2.9	4.4	33.0	40.3
3	Wild oats	51.6	16.4	31.9	2.7	5.2	29.0	33.0
4	Redroot pigweed	36.7	12.8	34.7	1.6	4.4	23.8	23.3
5	Kochia	23.6	9.1	38.5	1.3	5.4	27.8	16.5
6	Canada thistle	46.6	5.6	12.1	0.5	1.1	4.0	15.3
7	Stinkweed	27.2	3.8	13.8	1.8	6.5	85.6	14.8
8	Russian thistle	24.0	4.0	16.5	0.5	2.1	16.0	9.7
9	Perennial sow-thistle	26.6	3.2	12.0	0.2	0.9	2.0	8.5
10	Dandelion	21.3	4.3	20.2	0.2	1.0	2.8	8.3
11	Lamb's-quarters	18.7	2.8	15.0	0.3	1.4	8.4	6.8
12	Round-leaved mallow	14.2	3.3	23.2	0.2	1.2	2.6	6.0
13	Canola/rapeseed	11.0	2.3	20.6	0.4	3.2	8.4	5.2
14	Quack grass	9.9	2.2	22.1	0.3	2.9	6.8	4.7
15	Pale smartweed	12.1	1.7	14.5	0.1	1.0	2.4	4.1
16	Wild mustard	7.7	1.8	23.7	0.2	3.2	11.6	3.8
17	Persian darnel	7.4	0.8	11.1	< 0.1	0.6	1.2	2.2
18	Shepherd's-purse	9.0	0.5	5.0	< 0.1	0.4	1.2	2.2
19	Bluebur	5.4	0.6	11.9	0.1	1.0	1.8	1.8
20	Flax	1.8	0.8	45.0	0.2	10.0	10.0	1.6
21	Lentils	1.9	1.1	55.0	0.1	5.6	5.6	1.6
22	Wheat	5.4	0.5	10.1	< 0.1	0.5	1.0	1.6
23	Narrow-leaved hawk's-beard	5.2	0.4	8.6	0.1	1.1	2.0	1.6
24	Thyme-leaved spurge	3.8	0.8	20.0	< 0.1	1.3	1.4	1.5
25	Cow cockle	3.7	0.6	15.6	< 0.1	0.7	1.2	1.3
26	Scentless chamomile	4.5	0.4	8.0	< 0.1	0.5	0.6	1.2
27	Flixweed	3.6	0.4	10.5	< 0.1	1.1	1.8	1.1
28	Rose species	3.5	0.2	5.0	< 0.1	0.8	1.0	0.9
29	Vetch species	3.5	0.2	5.0	< 0.1	0.2	0.2	0.8
30	Absinth	2.1	0.3	15.0	< 0.1	0.6	0.6	0.7
31	Canada fleabane	1.9	0.3	15.0	< 0.1	1.0	1.0	0.7
32	Spiny annual sow-thistle	1.8	0.3	15.0	< 0.1	1.0	1.0	0.6
33	Prostrate knotweed	1.5	0.3	20.0	< 0.1	1.4	1.4	0.6
34	Barnyard grass	1.9	0.2	10.0	< 0.1	0.8	0.8	0.6
35	Milk-vetch species	1.8	0.2	10.0	< 0.1	0.4	0.4	0.5
36	Field horsetail	2.0	0.1	5.0	< 0.1	0.2	0.2	0.5
37	Night-flowering catchfly	1.9	0.1	5.0	< 0.1	0.2	0.2	0.5
38	Field violet	1.9	0.1	5.0	< 0.1	0.4	0.4	0.5
39	Biennial wormwood	1.9	0.1	5.0	< 0.1	0.2	0.2	0.4
40	Prostrate pigweed	1.8	0.1	5.0	< 0.1	0.4	0.4	0.4
41	Spear-leaved goosefoot	1.8	0.1	5.0	< 0.1	0.2	0.2	0.4
42	Common groundsel	1.8	0.1	5.0	< 0.1	0.2	0.2	0.4
43	Gumweed	1.8	0.1	5.0	< 0.1	0.2	0.2	0.4

**Field Survey Summary Tables – 1990s Barley**

Table 91. 1990s Barley in the Mixed Grassland Ecoregion (23 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	82.9	25.9	31.2	6.9	8.4	33.0	61.9
2	Green foxtail	47.1	19.1	40.4	7.3	15.4	85.2	51.5
3	Wild buckwheat	73.2	21.3	29.1	1.7	2.3	5.8	36.4
4	Stinkweed	46.6	12.2	26.2	1.0	2.2	6.0	21.9
5	Cow cockle	19.5	5.1	26.0	3.5	18.0	30.0	21.0
6	Kochia	28.5	6.4	22.5	2.0	7.0	25.2	17.9
7	Redroot pigweed	24.3	4.9	20.2	1.1	4.7	9.2	12.5
8	Canada thistle	31.7	5.0	15.8	0.4	1.2	4.2	11.0
9	Russian thistle	35.4	2.8	8.0	0.1	0.4	1.0	9.0
10	Lamb's-quarters	23.7	3.3	14.2	0.2	0.7	1.6	7.4
11	Barnyard grass	15.2	3.2	20.9	0.4	2.6	7.4	6.7
12	Dandelion	17.1	2.4	14.0	0.2	1.4	3.6	5.8
13	Persian darnel	8.2	2.9	35.3	0.3	3.6	6.4	4.9
14	Wheat	15.5	1.8	11.4	0.1	0.6	1.2	4.5
15	Water smartweed	3.9	2.0	50.0	0.3	8.4	8.4	3.5
16	Prostrate knotweed	15.7	0.8	5.0	< 0.1	0.2	0.2	3.5
17	Flixweed	12.7	1.2	9.8	0.1	0.5	0.8	3.4
18	Sunflower species	11.7	0.6	5.0	< 0.1	0.2	0.2	2.6
19	Lentils	11.7	0.6	5.0	< 0.1	0.2	0.2	2.6
20	Foxtail barley	7.6	0.4	5.0	< 0.1	0.4	0.6	1.8
21	Pale smartweed	5.8	0.6	10.0	< 0.1	0.8	0.8	1.7
22	Alfalfa	5.8	0.6	10.0	< 0.1	0.4	0.4	1.6
23	Prostrate pigweed	3.9	0.6	15.0	< 0.1	1.0	1.0	1.3
24	Perennial sow-thistle	3.8	0.4	10.0	< 0.1	0.6	0.6	1.0
25	Wild mustard	4.6	0.2	5.0	< 0.1	0.2	0.2	1.0
26	Canola/rapeseed	4.1	0.2	5.0	< 0.1	0.8	0.8	1.0
27	Skeletonweed	4.1	0.2	5.0	< 0.1	0.2	0.2	0.9
28	Bluebur	3.8	0.2	5.0	< 0.1	0.2	0.2	0.8
29	Rose species	3.8	0.2	5.0	< 0.1	0.2	0.2	0.8



Table 92. 1990s Barley in the Lake Manitoba Plain Ecoregion (24 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	64.3	29.7	46.1	13.3	20.7	132.0	80.8
2	Wild oats	46.4	17.4	37.4	4.4	9.5	72.8	36.7
3	Wild buckwheat	75.0	17.1	22.8	1.3	1.7	9.4	30.3
4	Redroot pigweed	47.5	9.1	19.2	1.4	3.0	20.8	20.0
5	Quack grass	48.3	5.4	11.2	1.3	2.7	22.4	17.0
6	Canada thistle	41.5	7.7	18.4	0.9	2.3	10.0	16.2
7	Wild mustard	42.1	6.7	15.9	0.5	1.2	3.2	14.0
8	Pale smartweed	37.6	5.7	15.1	0.8	2.0	4.6	13.4
9	Perennial sow-thistle	33.8	5.8	17.3	0.8	2.3	10.6	13.0
10	Lamb's-quarters	17.8	5.4	30.5	0.7	4.1	12.0	9.7
11	Thyme-leaved spurge	13.6	4.7	35.0	0.4	3.0	5.6	7.3
12	Tartary buckwheat	7.4	4.3	58.0	0.7	9.1	13.2	6.9
13	Dandelion	8.9	4.0	44.4	0.5	5.2	6.0	6.2
14	Cleavers	8.4	3.1	37.5	0.3	4.1	4.8	5.0
15	Barnyard grass	20.3	1.3	6.3	0.1	0.4	0.6	4.7
16	Wheat	10.5	0.8	7.7	0.2	2.4	4.0	3.3
17	Canola/rapeseed	5.1	1.5	30.0	0.1	1.8	1.8	2.4
18	Round-leaved mallow	8.9	0.4	5.0	< 0.1	0.2	0.2	1.9
19	Showy milkweed	5.7	0.3	5.0	< 0.1	0.8	1.0	1.4
20	Dog mustard	2.4	0.7	30.0	0.1	4.6	4.6	1.3
21	Common ragweed	4.7	0.5	10.0	< 0.1	0.6	0.6	1.3
22	Hemp-nettle	3.9	0.6	15.0	< 0.1	0.8	0.8	1.2
23	Clover species	5.1	0.3	5.0	< 0.1	0.2	0.2	1.1
24	Kochia	5.0	0.3	5.0	< 0.1	0.2	0.2	1.1
25	Russian thistle	4.7	0.2	5.0	< 0.1	0.3	0.4	1.0
26	Bluebur	3.5	0.3	10.0	< 0.1	0.6	0.6	0.9
27	Chickweed	3.5	0.2	5.0	< 0.1	0.4	0.4	0.8
28	Prostrate knotweed	2.4	0.1	5.0	< 0.1	0.2	0.2	0.5
29	Prostrate pigweed	2.4	0.1	5.0	< 0.1	0.2	0.2	0.5

**Field Survey Summary Tables – 1990s Oats**

Table 93. 1990s Oats (111 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	61.9	32.7	52.9	25.2	40.7	1465.6	57.8
2	Wild buckwheat	70.4	28.6	40.5	3.1	4.4	54.4	27.3
3	Wild oats	44.0	17.1	38.8	6.4	14.6	403.4	22.7
4	Lamb's-quarters	40.0	16.2	40.5	4.5	11.3	141.2	19.2
5	Stinkweed	33.5	13.2	39.6	4.3	12.9	114.2	16.6
6	Canada thistle	48.5	8.6	17.8	0.8	1.7	15.2	12.0
7	Yellow sweet-clover	8.2	8.2	100.0	4.0	48.8	48.8	10.4
8	Persian darnel	4.1	2.6	63.7	5.9	145.3	243.6	9.8
9	Chickweed	15.9	4.9	30.6	3.7	23.6	273.4	9.5
10	Perennial sow-thistle	30.2	6.2	20.7	0.6	1.8	11.6	7.9
11	Russian thistle	16.4	5.7	34.5	1.9	11.6	138.0	7.5
12	Dandelion	30.1	5.3	17.7	0.4	1.5	13.2	7.3
13	Redroot pigweed	22.4	4.2	18.9	0.6	2.7	25.0	5.9
14	Field horsetail	9.2	5.2	56.6	1.5	15.9	37.4	5.6
15	Barley	14.0	4.7	33.9	1.0	7.1	60.4	5.5
16	Wheat	18.0	3.6	20.1	0.7	3.9	42.4	5.2
17	Pale smartweed	17.1	3.8	22.2	0.7	4.3	63.4	5.2
18	Canola/rapeseed	10.5	3.9	36.7	1.4	13.1	77.4	5.1
19	Wild mustard	14.5	4.2	29.0	0.6	4.0	20.0	4.8
20	Quack grass	16.5	2.9	17.3	0.7	4.3	30.0	4.6
21	Cleavers	12.9	3.3	25.6	0.5	4.0	21.0	4.0
22	Narrow-leaved hawk's-beard	14.8	2.9	19.4	0.4	2.5	21.2	3.9
23	Hemp-nettle	11.4	3.3	29.3	0.5	4.5	36.6	3.9
24	Thyme-leaved spurge	12.0	2.5	21.1	0.3	2.2	2.8	3.2
25	Night-flowering catchfly	12.4	1.4	11.2	0.2	1.4	11.4	2.6
26	Shepherd's-purse	9.2	2.0	21.8	0.3	2.8	11.2	2.6
27	Kochia	9.0	1.9	21.4	0.2	2.4	10.0	2.5
28	Flax	2.2	1.6	70.2	0.7	32.9	83.6	2.0
29	Common groundsel	3.5	1.6	44.6	0.5	15.1	56.0	1.9
30	Flixweed	5.7	1.6	27.2	0.1	2.2	3.6	1.7
31	Cow cockle	7.2	0.9	12.1	0.1	1.4	3.6	1.6
32	Clover species	4.3	1.3	30.5	0.2	4.3	13.8	1.5
33	Barnyard grass	5.0	1.1	22.4	0.1	1.9	4.2	1.4
34	Rose species	4.3	0.9	20.5	0.2	3.9	9.8	1.2
35	Broad-leaved plantain	4.8	0.9	18.1	0.1	1.6	2.4	1.2
36	Bluebur	2.8	0.9	30.2	0.3	8.9	30.0	1.1
37	Foxtail barley	3.2	1.0	31.2	0.2	5.0	6.6	1.1
38	Corn spurry	3.3	0.8	23.8	0.2	4.8	13.6	1.0
39	Alfalfa	3.2	0.8	26.4	0.1	2.5	6.4	1.0
40	Stork's-bill	2.4	0.8	32.2	0.1	5.3	14.0	0.9
41	Blue grass species	3.2	0.6	18.9	< 0.1	1.3	4.6	0.8
42	Prostrate knotweed	2.5	0.8	29.9	0.1	2.2	6.6	0.8
43	Rough cinquefoil	3.2	0.4	12.9	< 0.1	1.2	3.8	0.7
44	Field peas	3.2	0.4	11.3	< 0.1	1.1	3.8	0.7
45	Pineappleweed	2.7	0.4	16.3	< 0.1	1.5	1.8	0.6
46	Tartary buckwheat	2.3	0.4	18.7	< 0.1	1.4	2.4	0.6
47	Black-eyed Susan	1.0	0.5	55.0	0.1	9.0	9.0	0.5
48	Spiny annual sow-thistle	1.3	0.4	31.4	0.1	4.3	7.2	0.4
49	Prostrate pigweed	0.9	0.2	25.0	0.1	15.6	15.6	0.4
50	Dog mustard	0.9	0.3	35.0	0.1	11.2	11.2	0.4
51	Canada fleabane	2.0	0.2	10.1	< 0.1	0.4	0.6	0.4
52	Wormseed mustard	1.5	0.3	17.2	< 0.1	1.5	2.6	0.4
53	White cockle	0.7	0.3	45.0	0.1	8.2	8.2	0.3
54	Yellow foxtail	0.7	0.2	30.0	< 0.1	2.2	2.2	0.2

(Table continued on next page)

Table 93. 1990s Oats (111 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	American dragonhead	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
56	Tumble pigweed	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
57	Purslane speedwell	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
58	Round-leaved mallow	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.2
59	Nodding thistle	0.6	0.1	25.0	< 0.1	1.2	1.2	0.2
60	Witch grass	0.7	0.1	15.0	< 0.1	0.8	0.8	0.2
61	Bladder campion	0.6	0.1	20.0	< 0.1	1.2	1.2	0.2
62	Biennial wormwood	0.7	0.1	10.0	< 0.1	1.8	1.8	0.1
63	Sunflower species	0.8	< 0.1	5.0	< 0.1	0.6	0.6	0.1
64	Yellow cress species	0.7	0.1	10.0	< 0.1	0.6	0.6	0.1
65	Willowherb species	0.6	0.1	10.0	< 0.1	0.8	0.8	0.1
66	Smooth brome	0.6	0.1	10.0	< 0.1	0.4	0.4	0.1
67	Milk-vetch species	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.1
68	Dock species	0.7	< 0.1	5.0	< 0.1	0.6	0.6	0.1
69	Common pepper-grass	0.6	< 0.1	5.0	< 0.1	0.8	0.8	0.1

**Field Survey Summary Tables – 1990s Oats**

Table 94. 1990s Oats in the Boreal Transition Ecoregion (18 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Lamb's-quarters	66.6	35.8	53.7	6.8	10.2	34.6	39.0
2	Wild buckwheat	76.9	38.3	49.8	4.3	5.6	16.6	35.2
3	Wild oats	58.8	25.0	42.6	2.9	4.9	15.0	24.2
4	Field horsetail	27.8	16.9	60.8	4.9	17.7	26.4	22.2
5	Stinkweed	40.1	18.5	46.2	2.9	7.1	28.2	19.3
6	Canada thistle	73.6	11.1	15.1	1.1	1.5	4.0	16.4
7	Chickweed	45.2	9.9	22.0	2.7	6.0	54.4	16.3
8	Hemp-nettle	28.8	12.7	43.9	2.2	7.8	36.6	14.1
9	Green foxtail	11.6	6.0	51.5	4.2	35.9	87.4	14.0
10	Dandelion	36.9	10.0	27.1	1.1	3.0	13.2	11.2
11	Perennial sow-thistle	40.0	8.4	20.9	0.6	1.4	3.4	9.7
12	Clover species	13.6	7.2	53.1	1.1	8.0	13.8	7.2
13	Canola/rapeseed	24.6	6.2	25.2	0.4	1.6	6.8	6.5
14	Pale smartweed	29.0	5.1	17.5	0.3	0.9	2.8	6.3
15	Narrow-leaved hawk's-beard	28.7	4.3	14.9	0.3	1.0	2.2	6.0
16	Cleavers	29.5	3.6	12.4	0.3	1.1	1.8	5.9
17	Quack grass	11.3	3.5	30.9	1.1	10.0	30.0	5.6
18	Shepherd's-purse	19.0	5.1	27.2	0.5	2.5	5.0	5.5
19	Flax	9.2	5.1	55.2	0.7	7.3	11.8	4.8
20	Broad-leaved plantain	17.2	3.7	21.5	0.3	1.9	2.4	4.4
21	Alfalfa	7.0	4.2	60.0	0.4	6.4	6.4	3.6
22	Barley	4.5	2.5	55.0	0.3	7.2	7.2	2.3
23	Common groundsel	7.0	2.1	30.0	0.1	1.8	1.8	2.0
24	Persian darnel	4.6	0.9	20.0	0.4	9.0	9.0	1.9
25	Wild mustard	9.1	1.6	17.4	0.1	0.7	1.0	1.9
26	Pineappleweed	7.0	1.7	25.0	0.1	1.8	1.8	1.9
27	Night-flowering catchfly	7.0	1.2	17.3	0.1	1.8	1.8	1.7
28	Redroot pigweed	7.0	1.0	15.0	0.1	0.8	0.8	1.4
29	Wheat	7.8	0.8	10.9	< 0.1	0.4	0.6	1.4
30	Corn spurry	6.6	0.7	10.0	0.1	1.2	1.2	1.3
31	Cow cockle	7.1	0.4	5.0	< 0.1	0.2	0.2	1.1
32	Rough cinquefoil	6.6	0.3	5.0	< 0.1	0.2	0.2	1.0
33	Purslane speedwell	6.6	0.3	5.0	< 0.1	0.2	0.2	1.0
34	Nodding thistle	3.7	0.9	25.0	< 0.1	1.2	1.2	0.9
35	Bladder campion	3.9	0.8	20.0	< 0.1	1.2	1.2	0.9
36	Russian thistle	5.0	0.2	5.0	< 0.1	0.6	0.6	0.8
37	Kochia	5.0	0.2	5.0	< 0.1	0.2	0.2	0.7
38	Spiny annual sow-thistle	3.2	0.2	5.0	< 0.1	0.2	0.2	0.5

Table 95. 1990s Oats in the Aspen Parkland Ecoregion (48 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	76.7	41.0	53.5	38.4	50.0	1465.6	80.3
2	Wild buckwheat	76.2	34.0	44.6	4.0	5.2	54.4	32.6
3	Yellow sweet-clover	17.8	17.8	100.0	8.7	48.8	48.8	22.3
4	Wild oats	37.7	10.0	26.4	7.1	18.7	403.4	19.5
5	Canada thistle	49.8	10.0	20.1	0.8	1.6	8.8	13.3
6	Lamb's-quarters	31.7	10.3	32.6	1.6	5.1	33.2	11.7
7	Barley	20.2	8.7	42.9	1.9	9.3	60.4	9.6
8	Perennial sow-thistle	30.2	7.2	24.0	0.6	1.9	11.6	8.7
9	Stinkweed	21.6	7.3	33.7	1.4	6.4	26.4	8.5
10	Chickweed	13.4	5.1	38.1	2.9	21.3	82.2	8.1
11	Dandelion	32.9	3.6	11.0	0.2	0.6	1.8	7.0
12	Wild mustard	16.7	6.1	36.7	0.9	5.6	20.0	6.6
13	Thyme-leaved spurge	19.9	4.9	24.5	0.6	2.8	2.8	6.0
14	Wheat	13.8	4.6	33.7	1.3	9.4	42.4	5.9
15	Pale smartweed	12.8	4.4	34.2	1.4	10.6	63.4	5.8
16	Cleavers	14.5	4.5	31.4	0.8	5.6	21.0	5.4
17	Narrow-leaved hawk's-beard	16.0	3.6	22.4	0.6	3.7	21.2	4.9
18	Quack grass	14.1	2.7	19.4	0.5	3.3	11.2	4.0
19	Redroot pigweed	13.9	2.9	20.9	0.3	1.8	4.0	3.8
20	Night-flowering catchfly	19.0	1.5	8.1	0.1	0.6	6.8	3.8
21	Canola/rapeseed	7.4	2.7	37.0	1.0	14.2	40.8	3.8
22	Shepherd's-purse	11.4	2.4	21.3	0.3	2.9	11.2	3.3
23	Hemp-nettle	11.3	2.5	22.6	0.2	1.8	6.2	3.2
24	Russian thistle	7.7	1.4	17.7	0.2	2.3	6.4	2.0
25	Stork's-bill	5.1	1.6	32.2	0.3	5.3	14.0	1.9
26	Corn spurry	4.8	1.5	30.4	0.3	6.5	13.6	1.8
27	Tartary buckwheat	4.9	0.9	18.7	0.1	1.4	2.4	1.3
28	Bluebur	4.6	0.8	17.0	0.1	1.9	5.0	1.2
29	Common groundsel	3.4	1.0	29.4	0.1	3.8	6.8	1.2
30	Field horsetail	3.1	1.1	35.6	0.1	4.1	7.8	1.2
31	Kochia	3.8	0.9	23.7	0.1	2.5	3.8	1.1
32	Flixweed	3.4	0.8	23.5	0.1	1.6	2.6	1.0
33	Blue grass species	1.8	1.1	60.0	0.1	4.6	4.6	0.9
34	Clover species	4.5	0.3	6.7	< 0.1	0.3	0.4	0.9
35	Dog mustard	1.8	0.6	35.0	0.2	11.2	11.2	0.9
36	Wormseed mustard	3.3	0.6	17.2	< 0.1	1.5	2.6	0.8
37	Spiny annual sow-thistle	1.6	0.8	50.0	0.1	7.2	7.2	0.8
38	White cockle	1.6	0.7	45.0	0.1	8.2	8.2	0.7
39	Field peas	1.8	0.5	30.0	0.1	3.8	3.8	0.6
40	Rough cinquefoil	1.6	0.5	30.0	0.1	3.8	3.8	0.5
41	Canada fleabane	2.2	0.3	15.0	< 0.1	0.6	0.6	0.5
42	Barnyard grass	1.4	0.3	20.0	< 0.1	1.0	1.0	0.4
43	Round-leaved mallow	2.1	0.1	5.0	< 0.1	0.4	0.4	0.4
44	Pineappleweed	1.7	0.2	10.0	< 0.1	0.6	0.6	0.3
45	Alfalfa	1.4	0.2	15.0	< 0.1	0.6	0.6	0.3
46	Willowherb species	1.4	0.1	10.0	< 0.1	0.8	0.8	0.3
47	Smooth brome	1.4	0.1	10.0	< 0.1	0.4	0.4	0.3
48	Common pepper-grass	1.4	0.1	5.0	< 0.1	0.8	0.8	0.3
49	Rose species	1.4	0.1	5.0	< 0.1	0.2	0.2	0.2
50	Broad-leaved plantain	1.4	0.1	5.0	< 0.1	0.4	0.4	0.2

**Field Survey Summary Tables – 1990s Oats**

Table 96. 1990s Oats in the Moist Mixed Grassland Ecoregion (12 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	76.6	52.4	68.4	29.2	38.1	140.4	90.5
2	Lamb's-quarters	49.5	23.8	48.0	9.2	18.6	66.4	36.4
3	Russian thistle	57.7	22.6	39.1	3.6	6.3	16.6	27.3
4	Redroot pigweed	43.0	12.0	27.9	2.9	6.7	25.0	18.2
5	Stinkweed	49.5	9.2	18.6	1.2	2.4	11.0	14.8
6	Wild oats	36.0	10.4	28.8	2.0	5.5	18.2	14.7
7	Wild buckwheat	41.2	9.9	24.0	0.6	1.4	2.0	12.8
8	Canada thistle	38.6	8.2	21.4	1.2	3.2	11.6	12.7
9	Wheat	48.8	5.3	10.9	0.3	0.5	1.0	11.0
10	Rose species	26.2	6.7	25.6	1.4	5.3	9.8	10.1
11	Quack grass	23.8	2.7	11.4	2.1	9.0	15.6	9.0
12	Kochia	23.6	3.1	13.1	0.2	1.0	1.4	5.8
13	Perennial sow-thistle	23.8	2.5	10.5	0.2	0.7	1.8	5.4
14	Black-eyed Susan	8.9	4.9	55.0	0.8	9.0	9.0	5.4
15	Field horsetail	9.2	3.7	40.0	0.8	8.2	8.2	4.7
16	Prostrate pigweed	8.4	2.1	25.0	1.3	15.6	15.6	4.7
17	Prostrate knotweed	6.5	4.9	75.0	0.4	6.6	6.6	4.4
18	Dandelion	14.7	1.5	10.5	0.1	0.4	0.6	3.3
19	Wild mustard	8.9	1.3	15.0	0.1	0.6	0.6	2.2
20	Thyme-leaved spurge	8.9	0.9	10.0	< 0.1	0.4	0.4	2.0
21	Canola/rapeseed	8.1	0.8	10.0	0.1	0.8	0.8	1.8
22	Canada fleabane	8.9	0.4	5.0	< 0.1	0.2	0.2	1.7
23	Narrow-leaved hawk's-beard	6.5	0.3	5.0	< 0.1	0.2	0.2	1.2

Table 97. 1990s Oats in the Mixed Grassland Ecoregion (11 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Persian darnel	30.5	22.4	73.5	53.5	175.6	243.6	71.0
2	Stinkweed	71.8	33.0	45.9	9.7	13.5	32.8	35.5
3	Russian thistle	50.4	22.7	45.0	13.0	25.7	138.0	31.1
4	Wild buckwheat	84.8	25.3	29.8	1.9	2.2	5.8	25.2
5	Wild oats	31.6	18.4	58.4	7.5	23.6	84.0	20.9
6	Green foxtail	57.4	18.1	31.6	3.0	5.3	21.6	19.4
7	Lamb's-quarters	54.9	8.5	15.5	0.7	1.2	5.4	11.9
8	Cow cockle	55.0	7.4	13.4	0.9	1.6	3.6	11.6
9	Flixweed	37.8	10.9	28.7	0.9	2.4	3.6	11.1
10	Foxtail barley	29.3	9.2	31.2	1.5	5.0	6.6	9.8
11	Kochia	32.5	8.5	26.1	1.0	3.0	8.4	9.4
12	Dandelion	36.1	4.4	12.2	0.2	0.6	0.8	7.0
13	Redroot pigweed	33.2	3.6	10.7	0.5	1.6	6.0	6.6
14	Barley	29.8	2.6	8.7	0.6	2.2	2.8	5.8
15	Quack grass	22.0	1.1	5.0	< 0.1	0.2	0.2	3.4
16	Blue grass species	22.0	1.1	5.0	< 0.1	0.2	0.2	3.4
17	Field peas	22.0	1.1	5.0	< 0.1	0.2	0.2	3.4
18	Prostrate knotweed	16.7	2.1	12.4	0.1	0.5	0.6	3.2
19	Thyme-leaved spurge	16.6	1.7	10.0	0.1	0.4	0.4	3.0
20	Perennial sow-thistle	7.4	0.7	10.0	< 0.1	0.6	0.6	1.4
21	Canada thistle	6.2	0.9	15.0	< 0.1	0.8	0.8	1.3
22	Wheat	7.8	0.4	5.0	< 0.1	0.2	0.2	1.2
23	Sunflower species	7.4	0.4	5.0	< 0.1	0.6	0.6	1.2
24	Chickweed	7.4	0.4	5.0	< 0.1	0.4	0.4	1.2
25	Narrow-leaved hawk's-beard	6.2	0.6	10.0	< 0.1	0.4	0.4	1.1

**Field Survey Summary Tables – 1990s Oats**

Table 98. 1990s Oats in the Lake Manitoba Plain Ecoregion (15 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	71.5	43.1	60.3	29.3	41.0	167.4	89.0
2	Wild oats	73.4	42.9	58.5	10.4	14.1	92.4	54.9
3	Wild buckwheat	47.1	18.7	39.8	2.0	4.2	15.6	22.0
4	Lamb's-quarters	16.8	13.6	81.0	6.1	36.3	65.0	21.4
5	Redroot pigweed	45.8	9.2	20.0	1.0	2.2	4.6	14.8
6	Wild mustard	31.8	9.1	28.6	1.3	3.9	15.8	12.8
7	Canada thistle	52.3	5.1	9.8	0.3	0.7	2.4	12.6
8	Barnyard grass	35.8	8.7	24.3	0.8	2.4	4.2	12.5
9	Wheat	35.0	6.5	18.5	0.6	1.8	6.8	10.8
10	Perennial sow-thistle	30.0	4.9	16.5	0.7	2.3	5.2	9.2
11	Pale smartweed	34.4	4.5	13.2	0.2	0.7	1.0	8.9
12	Quack grass	16.8	3.9	23.0	0.5	3.2	7.4	6.0
13	Night-flowering catchfly	5.9	1.8	30.0	0.7	11.4	11.4	3.2
14	Rough cinquefoil	13.4	1.3	10.0	0.1	0.5	0.6	3.2
15	Canola/rapeseed	7.3	2.2	30.0	0.2	2.8	2.8	2.8
16	Narrow-leaved hawk's-beard	6.7	2.0	30.0	0.2	3.4	3.4	2.7
17	Broad-leaved plantain	6.7	1.7	25.0	0.2	2.4	2.4	2.4
18	Kochia	3.3	2.0	60.0	0.3	10.0	10.0	2.3
19	Biennial wormwood	6.7	0.7	10.0	0.1	1.8	1.8	1.8
20	Yellow cress species	6.7	0.7	10.0	< 0.1	0.6	0.6	1.6
21	Alfalfa	7.3	0.4	5.0	< 0.1	0.2	0.2	1.5
22	Dock species	6.7	0.3	5.0	< 0.1	0.6	0.6	1.4
23	Barley	5.9	0.3	5.0	< 0.1	0.2	0.2	1.2
24	Russian thistle	3.3	0.8	25.0	< 0.1	1.0	1.0	1.1



Table 99. 1990s Canary grass (11 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	54.7	16.7	30.4	7.6	13.8	70.4	37.7
2	Green foxtail	53.1	19.9	37.4	5.9	11.0	51.8	35.1
3	Wild buckwheat	73.3	18.2	24.9	1.4	1.9	7.0	25.4
4	Thyme-leaved spurge	19.8	12.9	65.0	3.6	18.1	27.6	20.2
5	Wild oats	61.7	9.2	14.9	1.9	3.0	15.4	19.1
6	Shepherd's-purse	18.0	7.6	42.2	4.1	22.7	48.6	17.8
7	Common groundsel	8.3	5.4	65.0	4.6	56.0	56.0	16.5
8	Canada thistle	52.2	5.1	9.7	1.2	2.3	11.4	13.5
9	Redroot pigweed	38.6	8.2	21.3	1.0	2.6	4.4	13.2
10	Kochia	28.0	6.0	21.6	1.2	4.4	10.6	10.9
11	Dandelion	43.6	5.0	11.4	0.4	1.0	1.8	10.2
12	Russian thistle	24.4	5.6	22.8	1.1	4.3	11.4	9.6
13	Perennial sow-thistle	29.1	5.8	19.9	0.7	2.5	4.8	9.6
14	Wild mustard	27.4	4.4	16.1	0.6	2.2	5.8	8.1
15	Rye	9.2	3.7	40.0	0.6	6.8	6.8	5.2
16	Corn spurry	8.3	2.9	35.0	0.8	9.6	9.6	5.0
17	Barley	9.7	3.9	40.0	0.2	2.4	2.4	4.4
18	Foxtail barley	9.5	1.0	10.0	0.9	9.6	9.6	4.3
19	Lamb's-quarters	9.5	2.9	30.0	0.3	3.6	3.6	4.0
20	Wheat	18.8	0.9	5.0	< 0.1	0.2	0.2	3.3
21	Flax	16.9	0.8	5.0	< 0.1	0.2	0.2	3.0
22	Night-flowering catchfly	9.9	1.5	15.0	0.2	1.6	1.6	2.7
23	Flixweed	9.5	1.4	15.0	0.1	1.2	1.2	2.5
24	Scentsless chamomile	9.2	1.4	15.0	0.1	0.6	0.6	2.3
25	Alfalfa	9.5	1.0	10.0	0.1	0.6	0.6	2.1
26	Bluebur	9.5	1.0	10.0	< 0.1	0.4	0.4	2.0
27	Dock species	9.5	1.0	10.0	< 0.1	0.4	0.4	2.0
28	Prostrate knotweed	9.9	0.5	5.0	< 0.1	0.2	0.2	1.7
29	Cow cockle	9.2	0.5	5.0	0.1	0.6	0.6	1.7
30	Chickweed	9.7	0.5	5.0	< 0.1	0.2	0.2	1.7
31	Cleavers	9.7	0.5	5.0	< 0.1	0.2	0.2	1.7
32	Pale smartweed	9.7	0.5	5.0	< 0.1	0.2	0.2	1.7
33	Canola/rapeseed	9.7	0.5	5.0	< 0.1	0.2	0.2	1.7

**Field Survey Summary Tables – 1990s Canola/rapeseed**

Table 100. 1990s Canola/rapeseed (495 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	54.8	23.6	43.0	7.1	13.0	269.4	35.8
2	Wild oats	61.8	18.0	29.1	5.1	8.3	270.6	29.4
3	Wild buckwheat	56.7	17.9	31.5	1.9	3.3	43.2	21.4
4	Green foxtail	36.5	11.6	31.7	3.0	8.1	285.0	17.7
5	Canada thistle	54.5	12.1	22.1	1.3	2.5	28.8	16.8
6	Chickweed	13.8	6.0	43.1	4.8	34.9	584.4	15.8
7	Lamb's-quarters	43.6	10.7	24.6	1.5	3.4	84.6	15.0
8	Shepherd's-purse	30.1	9.0	29.9	2.4	7.9	198.8	14.1
9	Perennial sow-thistle	32.3	7.3	22.6	1.2	3.6	74.0	10.9
10	Quack grass	18.6	4.4	23.8	1.9	10.4	181.0	9.2
11	Wild mustard	22.5	6.3	28.1	0.9	3.9	40.6	8.4
12	Cleavers	17.7	6.0	33.9	1.1	6.5	133.4	8.1
13	Field horsetail	15.8	4.6	29.3	1.6	9.9	147.4	8.1
14	Pale smartweed	22.8	5.1	22.5	0.7	3.0	99.2	7.4
15	Common groundsel	11.5	3.8	33.1	1.3	11.7	138.6	6.6
16	Wheat	14.7	3.9	26.2	1.1	7.5	137.0	6.5
17	Dandelion	23.6	4.4	18.9	0.3	1.3	14.2	6.3
18	Narrow-leaved hawk's-beard	15.6	4.1	26.2	0.8	4.8	51.6	6.0
19	Redroot pigweed	17.4	3.5	20.3	0.5	2.7	60.2	5.3
20	Hemp-nettle	12.8	3.6	28.0	0.7	5.5	48.0	5.2
21	Pineappleweed	7.0	1.7	24.2	0.9	12.3	171.0	3.8
22	Russian thistle	11.4	2.4	20.6	0.2	1.6	7.8	3.2
23	Bluebur	8.9	1.4	15.9	0.2	2.0	28.4	2.4
24	Field violet	0.3	0.3	98.9	1.0	377.5	421.6	2.3
25	Kochia	6.7	1.4	21.0	0.2	2.5	23.8	2.0
26	Flixweed	8.9	1.0	11.0	0.1	0.9	10.2	1.9
27	Corn spurry	3.7	0.9	23.3	0.4	10.1	148.6	1.8
28	Stork's-bill	2.7	1.0	36.4	0.3	10.1	45.4	1.5
29	Thyme-leaved spurge	4.3	1.0	22.0	0.2	3.5	22.4	1.4
30	Flax	3.7	1.0	27.2	0.2	4.4	22.6	1.4
31	Clover species	4.3	0.9	21.6	0.1	3.1	30.6	1.4
32	Alfalfa	5.2	0.9	16.9	0.1	1.4	9.0	1.3
33	Spiny annual sow-thistle	3.8	0.9	23.3	0.1	2.9	29.4	1.2
34	Round-leaved mallow	4.5	0.8	17.9	0.1	1.7	6.8	1.2
35	Low cudweed	1.6	0.3	21.1	0.4	22.9	184.4	1.2
36	Barnyard grass	2.8	0.5	19.3	0.2	7.6	125.6	1.2
37	Barley	4.1	0.7	17.2	0.1	2.1	14.2	1.1
38	Night-flowering catchfly	2.9	0.9	30.2	0.1	3.2	12.2	1.1
39	Dog mustard	3.1	0.8	24.5	0.1	3.7	27.0	1.1
40	Ball mustard	3.7	0.7	18.4	0.1	1.6	8.6	1.0
41	Broad-leaved plantain	3.6	0.6	17.0	0.1	2.0	14.4	1.0
42	Cow cockle	3.9	0.4	11.4	< 0.1	1.0	6.0	0.8
43	Rose species	3.7	0.3	7.7	< 0.1	1.0	6.6	0.7
44	Yellow toadflax	1.2	0.3	25.4	0.1	7.3	41.2	0.5
45	Prostrate knotweed	2.5	0.2	8.1	< 0.1	0.5	1.4	0.5
46	Wormseed mustard	1.8	0.3	16.6	< 0.1	1.0	1.6	0.5
47	Canola/rapeseed	0.9	0.3	37.1	0.1	7.0	29.2	0.4
48	Prostrate pigweed	2.0	0.2	9.1	< 0.1	1.2	8.4	0.4
49	Persian darnel	1.2	0.2	19.2	< 0.1	2.9	13.2	0.4
50	Biennial wormwood	1.4	0.2	11.1	< 0.1	1.8	11.6	0.3
51	Vetch species	1.6	0.2	10.0	< 0.1	0.8	3.6	0.3
52	Absinth	1.0	0.3	27.7	< 0.1	2.1	3.8	0.3
53	Common pepper-grass	1.7	0.1	7.9	< 0.1	0.4	1.0	0.3
54	Wild tomato	1.8	0.1	5.5	< 0.1	0.5	2.6	0.3

(Table continued on next page)

Table 100. 1990s Canola/rapeseed (495 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Black medick	1.3	0.2	15.3	< 0.1	1.2	2.8	0.3
56	Rough cinquefoil	1.4	0.1	7.3	< 0.1	0.5	1.2	0.3
57	Tall buttercup	1.0	0.2	17.5	< 0.1	1.2	2.2	0.3
58	Oats	0.5	0.2	46.0	< 0.1	5.5	7.6	0.2
59	Nightshade species	0.4	0.2	38.6	< 0.1	5.6	10.6	0.2
60	Scentsless chamomile	0.9	0.1	9.6	< 0.1	0.4	0.8	0.2
61	Yellow sweet-clover	0.9	0.1	6.4	< 0.1	0.3	0.4	0.2
62	American dragonhead	0.8	0.1	9.6	< 0.1	0.4	0.6	0.2
63	Wood whitlow-grass	0.3	0.1	20.7	< 0.1	9.6	18.0	0.2
64	Sunflower species	0.8	0.1	7.7	< 0.1	0.4	0.6	0.2
65	Tartary buckwheat	0.8	0.1	7.4	< 0.1	0.3	0.4	0.1
66	Henbit	0.2	0.2	80.0	< 0.1	4.6	4.6	0.1
67	Showy milkweed	0.6	0.1	13.4	< 0.1	1.4	1.8	0.1
68	Foxtail barley	0.7	0.1	9.2	< 0.1	0.6	1.2	0.1
69	Caraway	0.4	0.1	26.8	< 0.1	2.6	2.6	0.1
70	Vetchling species	0.4	0.1	24.5	< 0.1	2.9	6.8	0.1
71	Yellow foxtail	0.5	0.1	11.7	< 0.1	1.1	1.8	0.1
72	Purslane speedwell	0.6	0.1	12.0	< 0.1	0.5	1.0	0.1
73	Nodding thistle	0.4	0.1	21.4	< 0.1	1.2	1.6	0.1
74	Povertyweed	0.3	0.1	15.0	< 0.1	4.2	6.6	0.1
75	White mustard	0.3	0.1	27.5	< 0.1	1.3	1.8	0.1
76	Field bindweed	0.5	< 0.1	7.8	< 0.1	0.4	1.0	0.1
77	Wild rye/wheat grass species	0.2	0.1	45.0	< 0.1	7.0	7.0	0.1
78	Common ragweed	0.5	< 0.1	6.9	< 0.1	0.4	0.8	0.1
79	Indian mustard	0.4	0.1	17.4	< 0.1	1.5	2.6	0.1
80	Wild chamomile	0.4	0.1	15.0	< 0.1	0.9	1.0	0.1
81	Field peas	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
82	Willowherb species	0.1	0.1	40.0	< 0.1	8.6	8.6	0.1
83	Green tansy mustard	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
84	Giant ragweed	0.4	< 0.1	10.0	< 0.1	0.5	0.6	0.1
85	Leafy spurge	0.2	< 0.1	25.0	< 0.1	5.0	5.0	0.1
86	Cocklebur	0.4	< 0.1	10.0	< 0.1	0.4	0.6	0.1
87	Common yarrow	0.2	< 0.1	10.0	< 0.1	6.8	6.8	0.1
88	Rye	0.2	0.1	25.0	< 0.1	1.2	1.2	0.1
89	Poplar species	0.2	0.1	25.0	< 0.1	1.2	1.2	0.1
90	Maple-leaved goosefoot	0.3	< 0.1	6.8	< 0.1	0.3	0.4	0.1
91	Yellow alyssum	0.3	< 0.1	10.0	< 0.1	1.8	1.8	0.1
92	Sedge species	0.3	< 0.1	5.0	< 0.1	0.6	0.6	0.1
93	Field mint	0.2	< 0.1	5.0	< 0.1	1.8	1.8	0.1
94	Bicknell's geranium	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
95	Canada fleabane	0.2	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
96	Goat's-beard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
97	Western snowberry	0.2	< 0.1	10.0	< 0.1	1.2	1.2	< 0.1
98	Gray tansy mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
99	Smooth brome	0.1	< 0.1	20.0	< 0.1	2.0	2.0	< 0.1
100	Diffuse knapweed	0.2	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
101	Dock species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
102	Water smartweed	0.2	< 0.1	10.0	< 0.1	1.2	1.2	< 0.1
103	Baby's-breath	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
104	Redtop	0.2	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
105	Tansy	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
106	Wild strawberry	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
107	Spreading dogbane	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
108	Witch grass	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 1990s Canola/rapeseed**

Table 101. 1990s Canola/rapeseed in the Peace Lowland Ecoregion (59 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	73.8	48.2	65.3	27.0	36.5	269.4	43.7
2	Chickweed	38.6	17.6	45.7	21.5	55.7	584.4	26.1
3	Field horsetail	61.0	24.8	40.6	10.5	17.2	147.4	22.2
4	Wild oats	51.1	15.6	30.5	12.4	24.3	270.6	19.8
5	Wild buckwheat	63.2	22.7	35.9	3.2	5.1	39.6	16.2
6	Common groundsel	40.8	16.2	39.6	7.6	18.6	138.6	15.2
7	Cleavers	45.4	19.5	42.9	4.4	9.6	50.2	14.2
8	Lamb's-quarters	46.9	17.4	37.2	3.4	7.3	84.0	13.0
9	Narrow-leaved hawk's-beard	48.3	16.0	33.2	3.1	6.4	51.6	12.5
10	Shepherd's-purse	39.7	12.6	31.8	4.6	11.7	91.4	11.7
11	Dandelion	57.5	10.8	18.8	0.7	1.3	12.4	10.0
12	Quack grass	22.7	7.8	34.2	5.7	25.2	181.0	9.2
13	Hemp-nettle	42.4	10.3	24.3	1.9	4.5	23.2	9.1
14	Pale smartweed	37.8	9.5	25.1	2.5	6.7	99.2	8.9
15	Field violet	2.1	2.1	100.0	8.8	421.6	421.6	7.6
16	Canada thistle	43.2	7.3	16.9	1.0	2.3	14.8	7.6
17	Pineappleweed	30.2	8.3	27.5	1.9	6.4	33.4	7.3
18	Wheat	13.1	8.3	63.0	3.2	24.4	70.6	6.5
19	Bluebur	24.4	7.1	29.3	1.3	5.4	28.4	5.8
20	Perennial sow-thistle	30.8	5.1	16.5	0.7	2.2	17.0	5.3
21	Clover species	17.6	5.3	30.2	0.6	3.6	6.8	4.0
22	Broad-leaved plantain	15.0	3.1	20.5	0.4	2.6	14.4	2.8
23	Corn spurry	8.1	1.8	22.3	0.6	7.9	35.4	1.9
24	Alfalfa	13.5	1.3	9.6	0.1	0.8	2.8	1.9
25	Redroot pigweed	10.2	1.8	17.4	0.2	1.9	4.4	1.8
26	Tall buttercup	8.9	1.6	17.5	0.1	1.2	2.2	1.5
27	Spiny annual sow-thistle	4.0	2.0	48.6	0.6	14.5	29.4	1.5
28	Yellow toadflax	3.3	1.7	51.2	0.7	22.5	41.2	1.5
29	Barley	6.6	1.6	24.2	0.3	4.3	14.2	1.4
30	Low cudweed	8.1	0.9	10.8	0.1	1.2	2.8	1.2
31	Rough cinquefoil	7.3	0.7	9.0	< 0.1	0.7	1.2	1.0
32	Canola/rapeseed	1.6	1.3	85.0	0.5	29.2	29.2	0.9
33	Stork's-bill	4.5	0.8	18.1	< 0.1	1.0	1.8	0.8
34	Round-leaved mallow	4.4	0.8	18.3	0.1	1.3	2.8	0.8
35	Vetch species	3.8	0.7	17.4	0.1	2.0	3.6	0.7
36	Green foxtail	5.0	0.3	6.6	< 0.1	0.3	0.4	0.6
37	Flixweed	5.0	0.3	6.5	< 0.1	0.3	0.4	0.6
38	Wild mustard	3.2	0.5	15.0	< 0.1	1.1	1.6	0.5
39	Prostrate knotweed	3.1	0.3	10.0	< 0.1	0.6	0.6	0.4
40	Purslane speedwell	3.4	0.2	5.0	< 0.1	0.2	0.2	0.4
41	Night-flowering catchfly	1.5	0.3	20.0	< 0.1	1.0	1.0	0.3
42	Vetchling species	2.1	0.1	5.0	< 0.1	0.4	0.4	0.3
43	Wild chamomile	1.6	0.2	15.0	< 0.1	0.8	0.8	0.3
44	Common pepper-grass	1.9	0.1	5.0	< 0.1	0.2	0.2	0.2
45	Ball mustard	1.7	0.1	5.0	< 0.1	0.8	0.8	0.2
46	Redtop	1.6	0.1	5.0	< 0.1	0.6	0.6	0.2
47	Yellow sweet-clover	1.6	0.1	5.0	< 0.1	0.2	0.2	0.2
48	Tansy	1.5	0.1	5.0	< 0.1	0.2	0.2	0.2
49	Rose species	1.5	0.1	5.0	< 0.1	0.4	0.4	0.2

Table 102. 1990s Canola/rapeseed in the Boreal Transition Ecoregion (70 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	60.1	29.3	48.7	7.7	12.8	94.6	35.6
2	Wild oats	67.0	20.5	30.6	5.9	8.8	83.4	29.0
3	Shepherd's-purse	43.2	17.4	40.4	5.1	11.9	95.0	23.2
4	Canada thistle	78.7	18.2	23.1	2.5	3.1	28.8	23.1
5	Lamb's-quarters	54.0	15.9	29.4	2.6	4.9	84.6	19.2
6	Chickweed	21.0	6.0	28.8	7.3	34.6	356.2	19.0
7	Perennial sow-thistle	46.0	9.9	21.6	1.4	3.1	30.8	13.1
8	Field horsetail	36.5	9.0	24.6	2.1	5.7	25.4	12.7
9	Cleavers	42.4	10.8	25.4	1.0	2.5	16.4	12.4
10	Wild buckwheat	41.8	11.0	26.3	0.9	2.0	12.4	12.1
11	Wild mustard	30.5	9.1	29.8	1.1	3.5	19.2	10.1
12	Quack grass	25.4	5.1	20.2	2.0	7.7	50.4	9.3
13	Pineappleweed	4.8	2.4	50.3	3.9	80.6	171.0	9.0
14	Narrow-leaved hawk's-beard	18.8	4.8	25.7	1.2	6.1	33.8	6.8
15	Wheat	10.6	3.9	36.4	2.0	18.4	137.0	6.8
16	Pale smartweed	25.3	5.3	20.8	0.6	2.3	9.0	6.8
17	Stork's-bill	6.4	4.3	67.2	1.5	24.0	45.4	5.7
18	Hemp-nettle	14.0	5.1	36.5	0.7	5.2	20.2	5.5
19	Dandelion	20.4	3.4	16.5	0.2	1.1	6.6	4.6
20	Common groundsel	12.9	2.9	22.5	0.7	5.5	56.0	4.3
21	Flax	9.5	3.8	39.9	0.6	6.7	22.6	4.2
22	Corn spurry	7.7	1.4	18.7	1.3	17.3	148.6	4.1
23	Bluebur	18.0	2.3	12.6	0.1	0.8	3.2	3.6
24	Green foxtail	14.4	2.5	17.4	0.3	2.3	13.2	3.6
25	Barley	10.1	1.9	18.5	0.2	2.4	7.8	2.6
26	Ball mustard	7.8	1.1	13.6	0.1	1.5	3.0	1.7
27	Wormseed mustard	5.5	1.0	19.1	0.1	1.0	1.4	1.3
28	Spiny annual sow-thistle	4.5	0.8	17.8	< 0.1	1.0	1.8	1.0
29	Alfalfa	4.2	0.7	17.7	< 0.1	0.8	1.4	0.9
30	Wood whitlow-grass	2.3	0.5	20.7	0.2	9.6	18.0	0.9
31	Clover species	4.5	0.5	11.7	< 0.1	0.6	1.8	0.9
32	Dog mustard	2.7	0.5	18.3	< 0.1	1.4	2.8	0.6
33	Wild tomato	3.9	0.2	5.0	< 0.1	0.2	0.2	0.6
34	Broad-leaved plantain	3.2	0.2	5.0	< 0.1	0.3	0.4	0.5
35	Vetchling species	1.0	0.5	55.0	0.1	6.8	6.8	0.5
36	Willowherb species	1.0	0.4	40.0	0.1	8.6	8.6	0.5
37	Flixweed	1.0	0.4	45.0	< 0.1	4.2	4.2	0.4
38	Rough cinquefoil	2.5	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Maple-leaved goosefoot	2.3	0.2	6.8	< 0.1	0.3	0.4	0.4
40	Field mint	1.6	0.1	5.0	< 0.1	1.8	1.8	0.3
41	Yellow foxtail	1.2	0.2	15.0	< 0.1	1.8	1.8	0.3
42	Biennial wormwood	1.7	0.1	5.0	< 0.1	0.2	0.2	0.3
43	Vetch species	1.7	0.1	5.0	< 0.1	0.4	0.4	0.3
44	Povertyweed	1.1	0.2	15.0	< 0.1	1.6	1.6	0.2
45	Yellow sweet-clover	1.6	0.1	5.0	< 0.1	0.2	0.2	0.2
46	Field peas	1.6	0.1	5.0	< 0.1	0.2	0.2	0.2
47	Cow cockle	1.5	0.1	5.0	< 0.1	0.2	0.2	0.2
48	Russian thistle	1.1	0.1	10.0	< 0.1	1.6	1.6	0.2
49	Nodding thistle	1.0	0.1	15.0	< 0.1	1.6	1.6	0.2
50	Oats	1.0	0.1	15.0	< 0.1	0.8	0.8	0.2
51	Prostrate knotweed	1.2	0.1	5.0	< 0.1	0.4	0.4	0.2
52	Field violet	0.2	0.2	90.0	< 0.1	15.0	15.0	0.2
53	Wild strawberry	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.1

**Field Survey Summary Tables – 1990s Canola/rapeseed**

Table 103. 1990s Canola/rapeseed in the Aspen Parkland Ecoregion (210 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	54.2	20.3	37.4	4.2	7.7	186.8	29.1
2	Wild oats	64.1	18.4	28.7	4.0	6.2	73.6	28.9
3	Green foxtail	48.2	16.5	34.3	3.8	8.0	285.0	25.5
4	Wild buckwheat	57.8	18.3	31.7	2.1	3.6	43.2	22.8
5	Canada thistle	61.2	14.2	23.3	1.5	2.4	17.2	19.6
6	Perennial sow-thistle	40.3	11.5	28.6	2.1	5.2	74.0	17.1
7	Shepherd's-purse	38.9	10.3	26.4	2.3	6.0	198.8	16.9
8	Lamb's-quarters	46.0	10.5	22.9	1.3	2.7	39.4	15.0
9	Chickweed	14.7	7.1	48.8	3.2	22.1	104.4	14.5
10	Quack grass	21.7	4.9	22.7	2.2	9.9	175.6	11.3
11	Wild mustard	27.1	7.9	29.2	1.0	3.9	35.2	10.6
12	Cleavers	13.1	4.7	35.8	1.2	9.2	133.4	7.5
13	Common groundsel	11.3	3.6	32.1	1.0	8.7	58.2	6.1
14	Pale smartweed	20.3	4.3	21.0	0.4	2.0	12.2	6.0
15	Hemp-nettle	12.9	3.7	28.4	0.8	6.5	48.0	5.9
16	Redroot pigweed	20.3	4.0	19.7	0.4	1.8	11.2	5.8
17	Narrow-leaved hawk's-beard	15.3	3.4	22.5	0.6	3.6	42.0	5.3
18	Wheat	15.1	3.6	23.8	0.3	2.2	13.6	4.8
19	Russian thistle	12.3	3.3	26.7	0.3	2.1	7.8	4.1
20	Dandelion	15.3	2.4	15.5	0.2	1.2	14.2	3.8
21	Low cudweed	1.7	0.6	34.5	0.9	51.3	184.4	2.9
22	Field horsetail	7.5	0.9	12.4	0.2	2.8	27.2	2.1
23	Round-leaved mallow	7.0	1.4	19.8	0.1	1.9	6.8	2.0
24	Night-flowering catchfly	5.9	1.5	25.4	0.1	2.4	12.2	2.0
25	Corn spurry	4.0	1.1	27.2	0.2	6.2	22.0	1.8
26	Kochia	6.1	1.2	19.7	0.1	2.0	9.0	1.8
27	Pineappleweed	6.5	1.0	15.1	0.1	2.0	14.0	1.7
28	Ball mustard	5.6	1.2	22.0	0.1	1.7	8.6	1.7
29	Flixweed	5.9	0.9	15.0	0.1	1.6	10.2	1.5
30	Barnyard grass	1.5	0.1	8.5	0.4	28.1	125.6	1.4
31	Spiny annual sow-thistle	5.0	1.0	19.9	0.1	1.5	5.8	1.4
32	Dog mustard	4.6	0.9	20.5	0.1	1.9	11.6	1.3
33	Bluebur	6.6	0.6	8.9	< 0.1	0.5	1.2	1.3
34	Clover species	3.7	0.6	17.4	0.1	3.9	30.6	1.2
35	Flax	4.2	0.7	17.4	0.1	1.6	7.6	1.1
36	Thyme-leaved spurge	1.6	0.6	39.1	0.1	9.2	22.4	0.9
37	Rose species	5.0	0.3	6.3	< 0.1	0.7	2.0	0.9
38	Alfalfa	2.6	0.7	25.4	0.1	2.3	9.0	0.9
39	Barley	3.5	0.5	13.7	< 0.1	0.9	2.8	0.8
40	Stork's-bill	2.0	0.5	25.4	0.1	3.6	6.6	0.7
41	Absinth	2.0	0.5	26.1	< 0.1	2.2	3.8	0.7
42	Broad-leaved plantain	1.7	0.5	28.9	0.1	3.4	7.8	0.6
43	Canola/rapeseed	1.8	0.5	25.6	< 0.1	1.6	2.6	0.5
44	Cow cockle	2.5	0.3	10.6	< 0.1	0.6	1.8	0.5
45	Yellow toadflax	2.1	0.3	14.5	< 0.1	0.9	2.6	0.5
46	Biennial wormwood	1.6	0.3	16.2	0.1	3.4	11.6	0.5
47	Nightshade species	1.0	0.4	38.6	0.1	5.6	10.6	0.5
48	Wormseed mustard	2.0	0.3	14.2	< 0.1	0.9	1.6	0.5
49	Prostrate knotweed	2.5	0.2	6.3	< 0.1	0.4	0.8	0.4
50	Wild tomato	2.4	0.1	5.9	< 0.1	0.7	2.6	0.4
51	Tartary buckwheat	1.9	0.1	7.4	< 0.1	0.3	0.4	0.3
52	Henbit	0.5	0.4	80.0	< 0.1	4.6	4.6	0.3
53	Vetch species	1.8	0.2	8.8	< 0.1	0.4	0.6	0.3
54	White mustard	0.9	0.2	27.5	< 0.1	1.3	1.8	0.3

(Table continued on next page)

Table 103. 1990s Canola/rapeseed in the Aspen Parkland Ecoregion (210 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Scentless chamomile	1.1	0.1	9.2	< 0.1	0.5	0.8	0.2
56	Leafy spurge	0.5	0.1	25.0	< 0.1	5.0	5.0	0.2
57	Black medick	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
58	Common yarrow	0.5	< 0.1	10.0	< 0.1	6.8	6.8	0.2
59	Povertyweed	0.4	0.1	15.0	< 0.1	6.6	6.6	0.2
60	Common ragweed	0.9	0.1	7.8	< 0.1	0.5	0.8	0.2
61	Field bindweed	0.9	0.1	9.5	< 0.1	0.6	1.0	0.2
62	Common pepper-grass	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.2
63	Poplar species	0.5	0.1	25.0	< 0.1	1.2	1.2	0.2
64	Yellow alyssum	0.7	0.1	10.0	< 0.1	1.8	1.8	0.2
65	Sunflower species	0.8	0.1	7.7	< 0.1	0.5	0.6	0.2
66	Showy milkweed	0.5	0.1	15.0	< 0.1	1.8	1.8	0.1
67	American dragonhead	0.7	< 0.1	5.0	< 0.1	0.3	0.4	0.1
68	Bicknell's geranium	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Prostrate pigweed	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
70	Canada fleabane	0.5	0.1	10.0	< 0.1	0.8	0.8	0.1
71	Wild chamomile	0.4	0.1	15.0	< 0.1	1.0	1.0	0.1
72	Western snowberry	0.5	< 0.1	10.0	< 0.1	1.2	1.2	0.1
73	Goat's-beard	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
74	Smooth brome	0.3	0.1	20.0	< 0.1	2.0	2.0	0.1
75	Giant ragweed	0.4	< 0.1	10.0	< 0.1	0.6	0.6	0.1
76	Rough cinquefoil	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
77	Dock species	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
78	Green tansy mustard	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
79	Water smartweed	0.4	< 0.1	10.0	< 0.1	1.2	1.2	0.1
80	Baby's-breath	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
81	Persian darnel	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
82	Spreading dogbane	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
83	Witch grass	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1

**Field Survey Summary Tables – 1990s Canola/rapeseed**

Table 104. 1990s Canola/rapeseed in the Fescue Grassland Ecoregion (10 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wheat	39.3	14.7	37.5	13.5	34.3	131.6	53.8
2	Stinkweed	59.5	35.9	60.3	5.3	8.9	26.2	44.0
3	Shepherd's-purse	39.3	18.2	46.3	4.5	11.5	35.6	29.1
4	Wild buckwheat	49.7	23.1	46.6	2.9	5.8	15.8	28.5
5	Canada thistle	69.9	17.4	24.8	1.7	2.4	8.6	25.0
6	Dandelion	60.1	16.4	27.4	1.0	1.6	4.6	20.8
7	Lamb's-quarters	49.7	9.9	20.0	1.1	2.2	5.8	16.1
8	Wild oats	30.7	7.6	24.7	0.6	1.8	2.8	10.4
9	Quack grass	30.7	6.0	19.7	0.4	1.3	2.2	9.1
10	Wild rye/wheat grass species	9.8	4.4	45.0	0.7	7.0	7.0	5.9
11	Flixweed	20.2	4.0	19.6	0.2	1.0	1.8	5.8
12	Spiny annual sow-thistle	9.8	5.4	55.0	0.3	3.4	3.4	5.4
13	Hemp-nettle	19.6	2.9	15.0	0.2	1.1	1.8	5.2
14	Round-leaved mallow	20.2	2.1	10.1	0.1	0.4	0.6	4.4
15	Rose species	20.2	1.0	5.0	0.2	0.8	1.4	4.1
16	Perennial sow-thistle	20.2	1.5	7.6	0.1	0.3	0.4	4.1
17	Green foxtail	10.4	2.6	25.0	0.3	3.2	3.2	4.0
18	Pale smartweed	9.8	2.9	30.0	0.2	1.8	1.8	3.6
19	Purslane speedwell	10.4	2.6	25.0	0.1	1.0	1.0	3.3
20	Kochia	9.8	2.5	25.0	0.1	1.0	1.0	3.1
21	Barley	10.4	2.1	20.0	0.1	1.2	1.2	3.1
22	Pineappleweed	9.8	0.5	5.0	0.1	0.8	0.8	2.0
23	Foxtail barley	10.4	0.5	5.0	< 0.1	0.2	0.2	1.9
24	Field bindweed	10.4	0.5	5.0	< 0.1	0.2	0.2	1.9
25	Redroot pigweed	10.4	0.5	5.0	< 0.1	0.2	0.2	1.9
26	Broad-leaved plantain	9.8	0.5	5.0	< 0.1	0.4	0.4	1.9
27	Stork's-bill	9.8	0.5	5.0	< 0.1	0.2	0.2	1.8



Table 105. 1990s Canola/rapeseed in the Moist Mixed Grassland Ecoregion (78 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	59.5	21.0	35.3	4.4	7.4	92.2	50.2
2	Wild oats	57.5	16.0	27.8	4.0	7.0	175.0	43.7
3	Green foxtail	41.2	12.0	29.0	4.4	10.6	106.4	39.1
4	Wild buckwheat	60.8	18.8	30.9	1.8	2.9	21.0	35.8
5	Canada thistle	40.1	8.6	21.6	0.8	1.9	10.4	18.5
6	Lamb's-quarters	31.7	5.1	16.2	0.6	1.8	12.6	13.1
7	Dandelion	23.1	6.0	26.1	0.4	1.9	8.2	11.6
8	Wild mustard	12.5	3.9	31.1	0.9	7.3	37.4	10.1
9	Russian thistle	23.3	3.9	16.6	0.3	1.3	6.2	9.1
10	Redroot pigweed	16.9	2.4	14.1	0.2	1.0	4.6	6.0
11	Quack grass	7.3	1.6	22.5	0.4	5.3	24.0	4.7
12	Perennial sow-thistle	13.3	1.8	13.8	0.1	0.8	1.6	4.5
13	Wheat	15.0	1.2	8.2	0.1	0.6	1.8	4.3
14	Kochia	11.1	1.7	15.5	0.1	0.9	2.4	4.0
15	Pale smartweed	6.6	1.9	29.5	0.2	3.1	12.6	3.8
16	Shepherd's-purse	8.3	1.5	18.3	0.2	2.1	7.0	3.7
17	Flixweed	12.0	1.2	9.8	0.1	0.7	3.2	3.6
18	Dog mustard	3.5	1.2	35.2	0.4	10.3	27.0	3.5
19	Cow cockle	9.8	1.1	10.9	0.1	0.9	2.6	3.2
20	Narrow-leaved hawk's-beard	5.8	1.0	16.9	0.1	1.1	3.0	2.2
21	Persian darnel	3.2	0.7	22.9	0.2	5.2	13.2	2.0
22	Rose species	5.2	0.7	12.7	0.1	2.0	6.6	2.0
23	Prostrate pigweed	5.2	0.6	10.9	0.1	2.1	8.4	2.0
24	Alfalfa	3.3	0.8	24.2	0.1	3.1	5.0	1.8
25	Thyme-leaved spurge	6.4	0.3	5.0	<0.1	0.4	0.6	1.6
26	Common pepper-grass	5.1	0.5	10.5	<0.1	0.5	1.0	1.5
27	Field horsetail	1.0	0.8	80.0	0.1	10.8	10.8	1.3
28	Common groundsel	2.8	0.7	24.8	<0.1	1.6	2.0	1.3
29	Bluebur	4.7	0.3	6.3	<0.1	0.3	0.4	1.2
30	Black medick	1.9	0.5	25.0	<0.1	2.2	2.2	0.9
31	Spiny annual sow-thistle	2.7	0.3	10.0	<0.1	0.6	1.0	0.8
32	Scentless chamomile	2.6	0.3	9.9	<0.1	0.4	0.6	0.8
33	Barnyard grass	1.4	0.4	30.0	<0.1	1.6	1.6	0.7
34	Nodding thistle	1.5	0.4	25.0	<0.1	1.0	1.0	0.7
35	Round-leaved mallow	2.2	0.1	5.0	<0.1	1.0	2.2	0.6
36	Prostrate knotweed	2.3	0.2	7.1	<0.1	0.3	0.4	0.6
37	Caraway	1.2	0.2	20.0	<0.1	2.6	2.6	0.6
38	Rye	1.2	0.3	25.0	<0.1	1.2	1.2	0.6
39	Sunflower species	1.5	0.1	10.0	<0.1	0.4	0.4	0.4
40	Wormseed mustard	1.1	0.2	15.0	<0.1	1.2	1.2	0.4
41	Hemp-nettle	1.4	0.1	5.0	<0.1	1.0	1.0	0.4
42	Wild tomato	1.4	0.1	5.0	<0.1	0.6	0.6	0.4
43	Yellow sweet-clover	1.4	0.1	5.0	<0.1	0.2	0.2	0.3
44	Gray tansy mustard	1.3	0.1	5.0	<0.1	0.2	0.2	0.3
45	Field peas	1.3	0.1	5.0	<0.1	0.2	0.2	0.3
46	Green tansy mustard	1.2	0.1	5.0	<0.1	0.2	0.2	0.3
47	Biennial wormwood	1.2	0.1	5.0	<0.1	0.2	0.2	0.3
48	Cleavers	1.0	0.1	10.0	<0.1	0.6	0.6	0.3
49	Pineappleweed	1.0	0.1	10.0	<0.1	0.6	0.6	0.3
50	Vetch species	1.0	0.1	5.0	<0.1	0.6	0.6	0.3
51	Clover species	1.1	0.1	5.0	<0.1	0.2	0.2	0.3

**Field Survey Summary Tables – 1990s Canola/rapeseed**

Table 106. 1990s Canola/rapeseed in the Mixed Grassland Ecoregion (25 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	61.7	19.4	31.5	7.0	11.4	60.6	58.9
2	Wild oats	76.7	23.2	30.3	4.2	5.5	34.2	50.4
3	Wild buckwheat	55.3	17.1	31.0	1.5	2.6	11.0	28.9
4	Green foxtail	39.4	10.7	27.2	1.7	4.3	14.2	22.6
5	Kochia	29.7	8.9	30.0	1.5	5.2	23.8	19.0
6	Lamb's-quarters	40.9	6.1	14.8	0.7	1.6	10.2	14.3
7	Flixweed	53.5	3.8	7.0	0.2	0.5	2.0	12.5
8	Russian thistle	32.4	5.1	15.7	0.3	0.9	2.2	10.3
9	Redroot pigweed	23.0	4.5	19.4	0.5	2.0	8.0	9.3
10	Wild mustard	17.5	4.5	25.9	0.4	2.5	6.0	8.3
11	Dandelion	25.7	3.8	14.9	0.2	0.8	2.0	7.9
12	Thyme-leaved spurge	15.0	3.0	20.0	0.4	2.8	6.2	6.7
13	Perennial sow-thistle	26.0	1.5	5.6	0.1	0.3	0.8	5.6
14	Oats	5.3	3.2	60.0	0.4	7.6	7.6	5.2
15	Canada thistle	8.5	2.9	33.6	0.3	3.5	4.2	5.0
16	Cow cockle	14.0	2.1	14.9	0.2	1.7	6.0	5.0
17	Pale smartweed	13.1	1.6	12.1	0.1	1.1	2.2	4.0
18	Shepherd's-purse	8.9	1.5	16.9	0.1	1.2	1.8	3.0
19	Barnyard grass	5.3	1.9	35.0	0.1	2.2	2.2	2.8
20	Prostrate pigweed	11.4	0.9	8.3	0.1	0.5	0.6	2.8
21	Wheat	10.9	0.9	8.3	0.1	0.6	1.0	2.7
22	Alfalfa	10.6	1.1	10.0	< 0.1	0.4	0.6	2.7
23	Persian darnel	7.5	1.5	19.8	0.1	0.9	1.6	2.6
24	Foxtail barley	4.6	0.7	15.0	0.1	1.2	1.2	1.5
25	Black medick	5.3	0.5	10.0	< 0.1	0.4	0.4	1.3
26	Biennial wormwood	4.6	0.5	10.0	< 0.1	0.8	0.8	1.3
27	Sedge species	5.3	0.3	5.0	< 0.1	0.6	0.6	1.2
28	Yellow sweet-clover	4.2	0.4	10.0	< 0.1	0.4	0.4	1.1
29	Narrow-leaved hawk's-beard	3.5	0.4	10.0	< 0.1	0.4	0.4	0.9
30	Common pepper-grass	3.5	0.2	5.0	< 0.1	0.4	0.4	0.8
31	Diffuse knapweed	3.5	0.2	5.0	< 0.1	0.4	0.4	0.7
32	Sunflower species	3.5	0.2	5.0	< 0.1	0.2	0.2	0.7

Table 107. 1990s Canola/rapeseed in the Lake Manitoba Plain Ecoregion (31 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	68.2	29.1	42.7	8.6	12.6	66.0	60.7
2	Redroot pigweed	53.9	17.1	31.7	4.5	8.3	60.2	35.7
3	Wild oats	54.1	13.6	25.1	3.7	6.9	51.4	30.9
4	Pale smartweed	67.5	18.6	27.5	1.8	2.6	10.4	29.2
5	Wild buckwheat	58.3	17.9	30.7	1.5	2.5	15.0	26.2
6	Canada thistle	54.8	8.8	16.1	0.7	1.4	3.6	17.2
7	Wild mustard	33.1	7.5	22.7	1.4	4.2	40.6	15.2
8	Thyme-leaved spurge	26.8	7.9	29.4	1.1	4.1	17.6	13.3
9	Quack grass	25.8	7.0	26.9	1.3	4.9	30.0	13.2
10	Lamb's-quarters	22.4	4.9	22.1	0.3	1.5	5.0	8.0
11	Barnyard grass	20.1	4.4	21.7	0.5	2.6	10.0	7.9
12	Wheat	13.4	3.0	22.6	0.3	2.4	7.0	5.3
13	Flax	6.7	2.4	35.0	0.7	10.3	20.4	5.1
14	Dandelion	13.3	2.0	15.1	0.1	1.1	3.6	4.0
15	Shepherd's-purse	9.0	1.4	15.0	0.1	0.9	1.0	2.6
16	Perennial sow-thistle	9.2	0.9	9.5	0.1	0.6	1.0	2.3
17	Indian mustard	6.7	1.2	17.4	0.1	1.5	2.6	2.2
18	Round-leaved mallow	3.4	1.5	45.0	0.2	4.6	4.6	2.1
19	Dog mustard	3.1	1.4	45.0	0.1	4.6	4.6	1.9
20	Showy milkweed	6.6	0.8	12.5	0.1	1.2	1.8	1.9
21	Yellow foxtail	6.7	0.7	10.0	< 0.1	0.7	1.2	1.7
22	American dragonhead	6.7	0.7	10.0	< 0.1	0.4	0.6	1.6
23	Cocklebur	6.7	0.7	10.0	< 0.1	0.4	0.6	1.6
24	Caraway	3.3	1.2	35.0	0.1	2.6	2.6	1.6
25	Absinth	3.4	1.2	35.0	< 0.1	1.4	1.4	1.5
26	Field horsetail	3.1	0.5	15.0	< 0.1	1.6	1.6	1.0
27	Giant ragweed	3.4	0.3	10.0	< 0.1	0.4	0.4	0.8
28	Stinkweed	3.4	0.3	10.0	< 0.1	0.4	0.4	0.8
29	Kochia	3.7	0.2	5.0	< 0.1	0.2	0.2	0.8
30	Russian thistle	3.1	0.3	10.0	< 0.1	0.4	0.4	0.7
31	Rose species	3.4	0.2	5.0	< 0.1	0.6	0.6	0.7
32	Foxtail barley	3.4	0.2	5.0	< 0.1	0.2	0.2	0.7
33	Broad-leaved plantain	3.4	0.2	5.0	< 0.1	0.2	0.2	0.7
34	Common ragweed	3.4	0.2	5.0	< 0.1	0.2	0.2	0.7
35	Prostrate pigweed	2.3	0.2	10.0	< 0.1	1.2	1.2	0.6

**Field Survey Summary Tables – 1990s Canola/rapeseed**

Table 108. 1990s Canola/rapeseed in the Interlake Plain Ecoregion (12 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	76.4	25.5	33.4	3.4	4.4	17.6	41.5
2	Wild buckwheat	78.0	22.8	29.2	1.8	2.2	7.6	31.7
3	Lamb's-quarters	61.8	19.2	31.1	1.5	2.4	5.8	26.2
4	Chickweed	22.0	10.2	46.7	2.6	11.7	18.2	21.9
5	Wild mustard	68.4	14.5	21.2	1.0	1.4	3.2	21.7
6	Cleavers	34.2	13.2	38.4	1.2	3.4	4.8	17.7
7	Canada thistle	52.1	9.7	18.6	1.1	2.1	6.0	17.7
8	Night-flowering catchfly	17.9	11.2	62.5	1.5	8.6	8.8	16.5
9	Wheat	33.2	8.1	24.4	0.8	2.4	7.6	12.9
10	Hemp-nettle	7.3	5.5	75.0	1.4	19.4	19.4	11.4
11	Alfalfa	35.8	6.7	18.8	0.6	1.6	5.6	11.2
12	Green foxtail	33.2	3.8	11.4	0.3	1.0	1.8	8.1
13	Perennial sow-thistle	34.2	3.2	9.3	0.3	1.0	2.0	7.8
14	Redroot pigweed	25.9	4.4	17.1	0.3	1.2	2.8	7.3
15	Pale smartweed	35.8	2.7	7.5	0.2	0.5	1.0	7.0
16	Barnyard grass	25.2	3.1	12.2	0.3	1.3	3.6	6.6
17	Prostrate knotweed	25.9	3.1	11.9	0.2	0.8	1.4	6.0
18	Dandelion	17.9	2.2	12.5	0.1	0.6	0.6	4.1
19	Black medick	9.0	2.7	30.0	0.3	2.8	2.8	3.9
20	Broad-leaved plantain	16.3	1.2	7.2	< 0.1	0.3	0.4	3.0
21	Quack grass	9.0	1.3	15.0	0.1	1.2	1.2	2.4
22	Thyme-leaved spurge	8.0	1.6	20.0	0.1	1.2	1.2	2.4
23	American dragonhead	9.0	1.3	15.0	0.1	0.6	0.6	2.2
24	Field horsetail	9.0	0.4	5.0	< 0.1	0.2	0.2	1.5
25	Round-leaved mallow	9.0	0.4	5.0	< 0.1	0.2	0.2	1.5
26	Stork's-bill	9.0	0.4	5.0	< 0.1	0.2	0.2	1.5
27	Barley	9.0	0.4	5.0	< 0.1	0.2	0.2	1.5
28	Flax	9.0	0.4	5.0	< 0.1	0.2	0.2	1.5
29	Shepherd's-purse	7.3	0.4	5.0	0.1	0.8	0.8	1.4

Table 109. 1990s Flax (86 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	68.6	25.2	36.8	7.0	10.3	73.0	41.5
2	Green foxtail	58.1	24.0	41.4	7.2	12.4	96.6	39.9
3	Wild buckwheat	70.7	27.7	39.2	4.1	5.8	118.0	35.2
4	Stinkweed	40.8	10.6	25.9	4.7	11.5	168.0	23.7
5	Canada thistle	67.7	12.6	18.6	1.1	1.7	9.8	18.8
6	Shepherd's-purse	17.7	7.9	45.0	3.0	16.8	62.6	14.6
7	Redroot pigweed	39.9	7.9	19.8	1.4	3.6	63.8	13.4
8	Perennial sow-thistle	42.9	8.0	18.7	0.8	2.0	17.6	12.3
9	Wild mustard	37.1	7.4	19.8	0.7	2.0	11.2	10.8
10	Lamb's-quarters	33.8	6.7	19.8	0.7	2.1	18.6	10.0
11	Pale smartweed	30.7	5.1	16.6	0.4	1.2	5.4	7.8
12	Wheat	18.8	4.5	23.9	0.5	2.8	18.0	6.3
13	Canola/rapeseed	17.9	3.8	21.4	0.3	1.9	14.4	5.3
14	Field horsetail	7.9	2.8	35.1	1.0	12.7	70.8	5.2
15	Night-flowering catchfly	13.3	3.3	24.7	0.3	2.0	7.0	4.2
16	Dandelion	21.0	2.0	9.4	0.1	0.5	2.4	4.1
17	Quack grass	12.9	1.6	12.4	0.5	4.1	25.8	4.0
18	Bluebur	10.0	2.1	20.9	0.6	5.6	40.0	4.0
19	Chickweed	6.3	2.0	31.3	0.7	11.3	34.0	3.8
20	Cleavers	12.0	2.7	22.4	0.3	2.3	11.0	3.8
21	Barley	6.8	2.4	34.9	0.3	4.1	10.0	2.9
22	Round-leaved mallow	12.5	1.5	11.7	0.2	1.3	11.4	2.9
23	Barnyard grass	6.3	1.2	18.7	0.4	6.7	32.0	2.6
24	Russian thistle	12.4	1.2	9.6	0.1	0.5	1.8	2.5
25	Hemp-nettle	8.2	1.4	17.2	0.1	1.8	8.6	2.2
26	Kochia	10.7	1.0	9.2	0.1	0.5	1.0	2.1
27	Thyme-leaved spurge	5.5	1.4	25.1	0.2	3.9	14.2	2.0
28	Absinth	3.7	1.2	33.3	0.1	1.7	2.0	1.3
29	Prostrate knotweed	7.2	0.5	6.3	< 0.1	0.4	0.8	1.3
30	Narrow-leaved hawk's-beard	5.0	0.4	7.3	< 0.1	0.3	0.6	0.9
31	Flixweed	3.7	0.5	13.0	0.1	1.5	4.0	0.9
32	Scentless chamomile	2.5	0.7	28.9	< 0.1	1.7	3.0	0.8
33	Cow cockle	1.1	0.6	55.0	0.1	6.0	6.0	0.7
34	Yellow foxtail	1.0	0.3	30.0	0.1	11.6	11.6	0.6
35	Rose species	2.5	0.3	12.5	< 0.1	0.8	1.0	0.6
36	Tumble pigweed	2.4	0.3	14.4	< 0.1	0.8	1.4	0.5
37	Black medick	2.5	0.2	10.0	< 0.1	0.5	0.8	0.5
38	Field peas	2.6	0.2	7.4	< 0.1	0.3	0.4	0.5
39	Common groundsel	2.4	0.2	7.6	< 0.1	0.5	0.6	0.4
40	Cocklebur	1.9	0.2	10.0	< 0.1	0.4	0.6	0.4
41	American dragonhead	1.7	0.2	12.1	< 0.1	0.7	0.8	0.4
42	Showy milkweed	2.1	0.1	5.0	< 0.1	0.5	1.0	0.4
43	Alfalfa	2.0	0.1	5.0	< 0.1	0.2	0.2	0.3
44	Bladder campion	1.0	0.2	20.0	< 0.1	1.0	1.0	0.3
45	Rough cinquefoil	1.2	0.1	10.0	< 0.1	0.8	0.8	0.3
46	Wormseed mustard	1.2	0.1	10.0	< 0.1	0.6	0.6	0.3
47	Broad-leaved plantain	1.2	0.1	10.0	< 0.1	0.4	0.4	0.2
48	Maple-leaved goosefoot	1.2	0.1	10.0	< 0.1	0.4	0.4	0.2
49	Water smartweed	1.0	0.1	15.0	< 0.1	1.0	1.0	0.2
50	Canada fleabane	1.4	0.1	5.0	< 0.1	0.2	0.2	0.2
51	Willowherb species	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
52	Nightshade species	1.2	0.1	5.0	< 0.1	0.4	0.4	0.2
53	Foxtail barley	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
54	White cockle	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2

(Table continued on next page)

**Field Survey Summary Tables – 1990s Flax**

Table 109. 1990s Flax (86 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Lentils	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
56	Soybean	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.2
57	Persian darnel	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.2
58	Wild tomato	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.2
59	Dog mustard	0.7	0.1	10.0	< 0.1	0.4	0.4	0.1
60	Purslane	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
61	Clover species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 110. 1990s Flax in the Boreal Transition Ecoregion (14 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Shepherd's-purse	37.8	23.1	61.1	10.9	28.9	62.6	46.3
2	Wild oats	59.0	25.5	43.2	8.0	13.5	56.4	43.7
3	Wild buckwheat	39.3	16.7	42.4	7.1	18.2	118.0	33.4
4	Canada thistle	78.2	16.8	21.6	1.5	1.9	4.2	25.2
5	Field horsetail	23.4	12.4	52.7	5.0	21.2	70.8	23.1
6	Wheat	43.4	7.5	17.2	1.1	2.5	16.6	13.5
7	Chickweed	23.7	7.3	30.7	2.1	9.0	34.0	13.1
8	Lamb's-quarters	28.2	9.4	33.2	1.1	3.7	9.2	12.4
9	Perennial sow-thistle	51.5	5.9	11.5	0.4	0.8	3.8	12.2
10	Cleavers	34.0	8.1	24.0	0.9	2.7	11.0	12.1
11	Pale smartweed	46.7	6.5	13.9	0.4	0.8	1.6	11.6
12	Stinkweed	40.9	5.7	13.9	0.5	1.2	5.4	10.6
13	Canola/rapeseed	28.7	3.1	10.8	0.2	0.5	2.2	6.4
14	Dandelion	28.0	1.4	5.0	0.1	0.2	0.2	5.1
15	Green foxtail	16.1	2.1	13.1	0.2	1.0	1.2	4.0
16	Quack grass	10.4	1.1	10.9	0.7	6.4	10.0	3.8
17	Hemp-nettle	11.1	1.6	14.5	0.2	1.8	3.0	3.1
18	Barley	6.3	2.5	40.0	0.2	2.6	2.6	2.9
19	Common groundsel	12.1	0.9	7.6	0.1	0.5	0.6	2.5
20	Wild mustard	12.1	0.9	7.6	0.1	0.5	0.6	2.5
21	Bluebur	12.1	0.9	7.6	< 0.1	0.4	0.4	2.4
22	Barnyard grass	6.4	0.6	10.0	0.1	1.0	1.0	1.5
23	Bladder campion	5.0	1.0	20.0	0.1	1.0	1.0	1.5
24	Maple-leaved goosefoot	6.3	0.6	10.0	< 0.1	0.4	0.4	1.4
25	Water smartweed	5.0	0.8	15.0	0.1	1.0	1.0	1.3
26	Narrow-leaved hawk's-beard	6.1	0.6	10.0	< 0.1	0.4	0.4	1.3
27	American dragonhead	5.0	0.5	10.0	< 0.1	0.8	0.8	1.1
28	Nightshade species	6.1	0.3	5.0	< 0.1	0.4	0.4	1.1
29	Redroot pigweed	5.0	0.3	5.0	< 0.1	0.2	0.2	0.9

Table 111. 1990s Flax in the Aspen Parkland Ecoregion (45 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	68.2	31.9	46.8	9.2	13.6	85.0	53.7
2	Wild oats	67.4	27.7	41.0	5.6	8.4	48.2	40.1
3	Wild buckwheat	82.8	33.0	39.8	3.1	3.8	15.6	36.8
4	Stinkweed	45.0	10.2	22.7	3.3	7.3	101.8	21.1
5	Canada thistle	66.0	14.3	21.7	1.4	2.1	9.8	19.8
6	Redroot pigweed	51.2	9.0	17.6	1.7	3.3	63.8	16.2
7	Perennial sow-thistle	48.1	10.7	22.3	1.3	2.7	17.6	15.6
8	Lamb's-quarters	42.5	8.2	19.3	0.9	2.1	18.6	12.3
9	Wild mustard	42.0	8.2	19.4	0.7	1.7	6.8	11.6
10	Shepherd's-purse	18.1	5.2	28.7	1.3	7.4	23.8	9.0
11	Night-flowering catchfly	23.6	5.7	24.2	0.5	2.0	7.0	7.4
12	Pale smartweed	26.7	3.9	14.6	0.3	1.1	3.0	6.2
13	Barley	10.8	3.6	33.8	0.5	4.4	10.0	4.7
14	Round-leaved mallow	18.6	2.5	13.3	0.3	1.7	11.4	4.5
15	Dandelion	23.5	2.3	9.9	0.1	0.5	2.4	4.5
16	Canola/rapeseed	10.0	2.6	25.9	0.3	2.7	14.4	3.4
17	Wheat	10.3	2.9	27.6	0.2	2.0	5.0	3.4
18	Russian thistle	17.0	1.6	9.1	0.1	0.6	1.8	3.2
19	Quack grass	13.1	1.5	11.4	0.2	1.4	2.6	2.9
20	Kochia	13.5	1.4	10.7	0.1	0.5	0.8	2.6
21	Cleavers	8.0	2.0	24.8	0.2	2.3	6.2	2.6
22	Hemp-nettle	10.2	1.3	13.0	0.1	0.9	2.4	2.2
23	Scentless chamomile	4.8	1.4	28.9	0.1	1.7	3.0	1.6
24	Bluebur	7.5	0.5	7.0	< 0.1	0.4	0.8	1.3
25	Field horsetail	6.4	0.7	10.5	< 0.1	0.8	1.2	1.3
26	Rose species	4.8	0.6	12.5	< 0.1	0.8	1.0	1.0
27	Prostrate knotweed	5.9	0.4	6.5	< 0.1	0.4	0.8	1.0
28	Black medick	4.8	0.5	10.0	< 0.1	0.5	0.8	0.9
29	Barnyard grass	4.1	0.5	13.0	< 0.1	0.9	1.2	0.9
30	Narrow-leaved hawk's-beard	5.2	0.3	5.0	< 0.1	0.2	0.2	0.8
31	Showy milkweed	4.0	0.2	5.0	< 0.1	0.5	1.0	0.7
32	Absinth	2.4	0.5	20.0	< 0.1	1.2	1.2	0.6
33	Alfalfa	3.8	0.2	5.0	< 0.1	0.2	0.2	0.6
34	Rough cinquefoil	2.4	0.2	10.0	< 0.1	0.8	0.8	0.5
35	Flixweed	2.4	0.2	10.0	< 0.1	0.6	0.6	0.5
36	Wormseed mustard	2.4	0.2	10.0	< 0.1	0.6	0.6	0.5
37	Broad-leaved plantain	2.4	0.2	10.0	< 0.1	0.4	0.4	0.5
38	Canada fleabane	2.8	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Tumble pigweed	2.4	0.1	5.0	< 0.1	0.2	0.2	0.4
40	Willowherb species	2.4	0.1	5.0	< 0.1	0.2	0.2	0.4
41	White cockle	2.2	0.1	5.0	< 0.1	0.2	0.2	0.3
42	American dragonhead	1.4	0.2	15.0	< 0.1	0.6	0.6	0.3
43	Persian darnel	1.8	0.1	5.0	< 0.1	0.4	0.4	0.3
44	Wild tomato	1.8	0.1	5.0	< 0.1	0.4	0.4	0.3
45	Dog mustard	1.4	0.1	10.0	< 0.1	0.4	0.4	0.3
46	Chickweed	1.4	0.1	5.0	< 0.1	1.2	1.2	0.3
47	Purslane	1.4	0.1	5.0	< 0.1	0.2	0.2	0.2
48	Clover species	1.4	0.1	5.0	< 0.1	0.2	0.2	0.2

**Field Survey Summary Tables – 1990s Flax**

Table 112. 1990s Flax in the Moist Mixed Grassland Ecoregion (10 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	100.0	20.5	20.5	8.5	8.5	73.0	50.7
2	Stinkweed	59.3	24.0	40.5	8.2	13.9	63.4	46.6
3	Green foxtail	59.9	23.0	38.4	3.7	6.2	15.8	32.5
4	Bluebur	30.0	13.1	43.8	4.2	14.1	40.0	24.3
5	Wild mustard	60.2	12.8	21.3	1.8	2.9	11.2	20.7
6	Wild buckwheat	48.5	14.8	30.5	1.4	2.8	4.8	19.0
7	Perennial sow-thistle	50.6	9.9	19.5	0.6	1.2	3.8	14.2
8	Canola/rapeseed	31.7	11.3	35.5	1.1	3.6	8.8	14.1
9	Canada thistle	69.2	5.8	8.4	0.3	0.5	2.0	13.4
10	Thyme-leaved spurge	20.4	8.7	42.5	1.5	7.6	14.2	12.4
11	Absinth	19.8	7.9	40.0	0.4	1.9	2.0	8.3
12	Redroot pigweed	30.3	4.0	13.3	0.3	0.9	1.2	7.2
13	Kochia	30.3	2.0	6.5	0.2	0.6	1.0	5.7
14	Lamb's-quarters	18.8	2.8	15.0	0.2	1.0	1.2	4.7
15	Russian thistle	20.1	2.6	13.0	0.1	0.6	1.0	4.5
16	Wheat	20.3	2.5	12.3	0.1	0.6	0.8	4.5
17	Field peas	20.6	1.5	7.4	0.1	0.3	0.4	3.8
18	Dandelion	10.8	1.6	15.0	0.1	0.6	0.6	2.5
19	Flixweed	10.8	1.1	10.0	< 0.1	0.4	0.4	2.2
20	Narrow-leaved hawk's-beard	9.3	0.9	10.0	0.1	0.6	0.6	1.9
21	Quack grass	9.3	0.9	10.0	< 0.1	0.4	0.4	1.9
22	Prostrate knotweed	10.2	0.5	5.0	< 0.1	0.4	0.4	1.8
23	Foxtail barley	9.3	0.5	5.0	< 0.1	0.2	0.2	1.6
24	Cleavers	9.3	0.5	5.0	< 0.1	0.2	0.2	1.6



Table 113. 1990s Flax in the Lake Manitoba Plain Ecoregion (16 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	87.0	30.7	35.3	3.5	4.1	26.2	43.7
2	Green foxtail	74.0	22.3	30.1	5.6	7.6	36.4	43.0
3	Wild oats	57.1	18.0	31.5	5.6	9.8	65.6	37.9
4	Redroot pigweed	50.4	17.0	33.7	3.5	6.9	23.4	29.3
5	Pale smartweed	51.1	12.0	23.5	1.0	2.0	5.4	18.5
6	Canada thistle	63.6	7.9	12.4	0.6	1.0	3.4	16.7
7	Barnyard grass	19.3	5.1	26.6	2.6	13.4	32.0	14.4
8	Wild mustard	36.7	9.1	24.8	0.8	2.2	7.6	13.9
9	Wheat	15.6	8.3	53.0	1.3	8.3	18.0	11.7
10	Quack grass	19.6	3.3	16.7	2.0	10.3	25.8	11.5
11	Chickweed	6.0	3.3	55.0	1.9	30.8	30.8	8.9
12	Shepherd's-purse	6.0	4.8	80.0	0.9	14.4	14.4	6.7
13	Canola/rapeseed	20.2	3.0	14.9	0.2	1.0	2.4	5.6
14	Thyme-leaved spurge	19.6	2.0	10.0	0.1	0.6	1.0	4.6
15	Yellow foxtail	6.4	1.9	30.0	0.7	11.6	11.6	4.5
16	Prostrate knotweed	19.5	1.3	6.6	0.1	0.4	0.4	4.0
17	Round-leaved mallow	19.2	1.3	6.6	0.1	0.3	0.4	3.9
18	Hemp-nettle	4.9	2.7	55.0	0.4	8.6	8.6	3.8
19	Lamb's-quarters	18.7	0.9	5.0	< 0.1	0.2	0.2	3.6
20	Dandelion	12.9	1.9	15.0	0.1	0.9	1.4	3.6
21	Cocklebur	12.9	1.3	10.0	0.1	0.4	0.6	2.9
22	Night-flowering catchfly	7.3	2.2	30.0	0.1	1.8	1.8	2.9
23	Perennial sow-thistle	10.7	0.5	5.0	< 0.1	0.2	0.2	2.0
24	Stinkweed	6.5	0.3	5.0	< 0.1	0.4	0.4	1.3
25	Soybean	6.5	0.3	5.0	< 0.1	0.2	0.2	1.2

**Field Survey Summary Tables – 1990s Mustard**

Table 114. 1990s Mustard (25 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	73.6	37.7	51.3	21.9	29.7	313.6	78.2
2	Wild oats	36.8	15.5	42.1	12.4	33.8	114.4	40.2
3	Wild buckwheat	59.8	27.5	46.0	3.4	5.7	29.4	32.1
4	Russian thistle	49.6	13.6	27.4	1.2	2.4	6.6	17.9
5	Lamb's-quarters	44.1	12.6	28.6	0.8	1.7	3.8	15.6
6	Perennial sow-thistle	43.1	7.9	18.4	0.9	2.0	10.6	13.0
7	Stinkweed	33.9	7.6	22.5	0.8	2.2	9.0	11.2
8	Kochia	23.6	8.6	36.4	1.0	4.3	17.2	10.7
9	Canada thistle	35.0	6.2	17.8	0.6	1.8	7.2	10.3
10	Redroot pigweed	34.2	6.7	19.5	0.5	1.5	5.4	10.1
11	Dandelion	31.2	2.9	9.4	0.2	0.5	3.2	6.9
12	Cow cockle	8.1	3.9	47.7	1.2	15.3	21.6	6.0
13	Field horsetail	7.4	1.9	26.0	1.4	18.9	30.6	5.1
14	Wheat	12.0	2.7	22.5	0.3	2.6	5.4	4.1
15	Quack grass	6.7	2.1	31.1	0.8	12.3	22.4	3.9
16	Thyme-leaved spurge	13.2	1.4	10.8	0.1	0.4	1.2	3.0
17	Foxtail barley	11.6	1.1	9.9	0.2	1.5	4.0	2.8
18	Shepherd's-purse	10.3	1.2	11.4	0.1	0.8	1.8	2.4
19	Sunflower species	8.4	1.3	15.3	0.1	0.7	0.8	2.1
20	Prostrate pigweed	8.1	1.1	13.1	0.1	0.9	1.4	2.0
21	Clover species	8.8	0.9	10.0	< 0.1	0.4	0.6	1.9
22	Bluebur	6.6	1.2	18.3	0.1	1.4	1.8	1.9
23	Flixweed	7.7	1.0	12.7	< 0.1	0.5	0.8	1.8
24	Pale smartweed	7.6	0.8	10.0	< 0.1	0.4	0.4	1.7
25	Prostrate knotweed	6.8	0.9	13.5	< 0.1	0.5	0.8	1.7
26	Wild mustard	7.5	0.6	7.4	< 0.1	0.3	0.4	1.5
27	Biennial wormwood	4.1	1.2	30.0	0.1	2.0	2.0	1.5
28	Canada fleabane	6.7	0.3	5.0	< 0.1	0.3	0.4	1.3
29	Lentils	4.4	0.7	15.0	< 0.1	0.8	0.8	1.1
30	Hemp-nettle	3.9	0.6	15.0	0.1	1.6	1.6	1.1
31	Scentless chamomile	3.9	0.2	5.0	< 0.1	0.2	0.2	0.7
32	Goat's-beard	3.9	0.2	5.0	< 0.1	0.2	0.2	0.7
33	Yellow sweet-clover	3.9	0.2	5.0	< 0.1	0.2	0.2	0.7
34	Flax	3.7	0.2	5.0	< 0.1	0.2	0.2	0.7
35	Alfalfa	3.6	0.2	5.0	< 0.1	0.2	0.2	0.7
36	Chickweed	2.9	0.3	10.0	< 0.1	0.4	0.4	0.6
37	Narrow-leaved hawk's-beard	2.9	0.3	10.0	< 0.1	0.4	0.4	0.6
38	Manitoba maple	2.9	0.3	10.0	< 0.1	0.4	0.4	0.6
39	Pineappleweed	2.9	0.1	5.0	< 0.1	1.6	1.6	0.6
40	Meadow rue species	2.9	0.1	5.0	< 0.1	0.2	0.2	0.6

Table 115. 1990s Mustard in the Moist Mixed Grassland Ecoregion (13 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	77.5	38.9	50.2	27.4	35.4	313.6	86.1
2	Wild oats	40.2	15.5	38.6	12.3	30.6	114.0	38.4
3	Wild buckwheat	56.3	26.7	47.4	4.5	8.0	29.4	33.3
4	Russian thistle	40.5	17.4	42.9	1.5	3.7	6.6	19.6
5	Lamb's-quarters	45.9	13.9	30.3	0.7	1.5	3.0	17.0
6	Cow cockle	14.7	7.0	47.7	2.2	15.3	21.6	10.7
7	Stinkweed	28.2	6.8	24.1	0.5	1.6	3.0	9.5
8	Perennial sow-thistle	40.2	3.6	8.9	0.3	0.7	1.8	9.2
9	Kochia	21.5	7.3	33.9	0.6	2.7	6.6	8.9
10	Redroot pigweed	31.2	5.2	16.6	0.3	0.9	1.4	8.7
11	Field horsetail	8.0	3.2	40.0	2.5	30.6	30.6	7.7
12	Canada thistle	32.4	3.3	10.1	0.2	0.5	0.8	7.5
13	Wheat	14.7	3.5	23.7	0.5	3.4	5.4	5.4
14	Dandelion	24.1	1.6	6.5	0.1	0.3	0.4	5.0
15	Sunflower species	15.1	2.3	15.3	0.1	0.7	0.8	4.0
16	Thyme-leaved spurge	18.4	0.9	5.0	< 0.1	0.2	0.2	3.6
17	Foxtail barley	14.2	1.1	7.5	< 0.1	0.3	0.4	3.0
18	Biennial wormwood	7.4	2.2	30.0	0.1	2.0	2.0	2.8
19	Bluebur	6.7	1.7	25.0	0.1	1.8	1.8	2.3
20	Lentils	8.0	1.2	15.0	0.1	0.8	0.8	2.1
21	Clover species	8.0	1.2	15.0	< 0.1	0.6	0.6	2.1
22	Flixweed	7.1	1.4	20.0	0.1	0.8	0.8	2.1
23	Hemp-nettle	7.1	1.1	15.0	0.1	1.6	1.6	2.0
24	Shepherd's-purse	8.0	0.8	10.0	< 0.1	0.6	0.6	1.9
25	Pale smartweed	7.4	0.7	10.0	< 0.1	0.4	0.4	1.7
26	Scentless chamomile	7.1	0.4	5.0	< 0.1	0.2	0.2	1.4
27	Goat's-beard	7.1	0.4	5.0	< 0.1	0.2	0.2	1.4
28	Yellow sweet-clover	7.1	0.4	5.0	< 0.1	0.2	0.2	1.4
29	Flax	6.7	0.3	5.0	< 0.1	0.2	0.2	1.3

**Field Survey Summary Tables – 1990s Field Peas**

Table 116. 1990s Field peas (60 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	74.2	22.6	30.4	3.8	5.1	65.8	34.9
2	Green foxtail	39.9	10.5	26.3	4.7	11.7	186.8	27.4
3	Canada thistle	67.5	17.7	26.2	2.4	3.5	34.8	26.4
4	Canola/rapeseed	42.5	17.7	41.6	3.1	7.2	51.4	25.8
5	Stinkweed	58.1	15.6	26.9	2.3	3.9	37.2	23.7
6	Perennial sow-thistle	60.0	14.1	23.4	2.0	3.4	39.8	22.3
7	Wild buckwheat	55.7	11.4	20.4	1.0	1.7	14.6	16.4
8	Shepherd's-purse	34.2	7.9	23.2	1.4	4.1	39.2	13.6
9	Quack grass	23.3	6.3	27.2	1.3	5.4	23.4	10.8
10	Lamb's-quarters	41.3	6.8	16.6	0.6	1.4	10.2	10.8
11	Wild mustard	29.2	5.0	17.3	0.3	1.1	4.0	7.5
12	Wheat	24.9	4.4	17.7	0.4	1.4	6.0	6.7
13	Russian thistle	16.5	4.8	28.9	0.5	2.8	11.6	6.3
14	Pale smartweed	22.4	3.7	16.4	0.3	1.5	7.8	5.9
15	Cleavers	12.5	4.2	33.7	0.5	3.6	13.4	5.4
16	Field horsetail	17.6	3.2	18.1	0.4	2.3	5.2	5.3
17	Barley	10.4	2.9	28.1	0.4	4.2	13.2	4.4
18	Dandelion	23.9	2.0	8.4	0.1	0.4	1.0	4.3
19	Hemp-nettle	10.5	2.7	25.6	0.3	3.2	7.8	4.0
20	Flixweed	10.3	2.3	22.6	0.1	1.1	1.8	2.9
21	Narrow-leaved hawk's-beard	13.6	1.2	8.9	0.1	0.4	1.0	2.5
22	Redroot pigweed	10.6	1.6	15.1	0.1	0.8	1.8	2.5
23	Canada fleabane	8.4	1.2	14.9	0.1	1.0	2.6	2.0
24	Thyme-leaved spurge	3.4	1.3	37.5	0.2	4.4	8.2	1.7
25	Wild tomato	7.0	1.1	15.8	0.1	0.7	1.8	1.6
26	Bluebur	6.5	0.9	13.5	< 0.1	0.6	1.8	1.4
27	Biennial wormwood	7.6	0.5	7.0	< 0.1	0.6	1.8	1.4
28	Ball mustard	1.3	1.1	85.0	0.2	13.6	13.6	1.3
29	Canary grass	5.0	0.9	18.4	< 0.1	1.0	2.2	1.3
30	Kochia	6.8	0.6	8.9	< 0.1	0.5	1.2	1.3
31	Flax	4.2	0.9	22.0	0.1	1.5	4.4	1.2
32	Barnyard grass	3.6	0.9	25.9	0.1	2.1	4.4	1.2
33	Rose species	6.7	0.3	5.0	< 0.1	0.3	0.6	1.1
34	Prostrate knotweed	4.7	0.6	13.5	< 0.1	0.8	2.0	1.1
35	Pineappleweed	1.2	0.4	35.0	0.2	15.8	15.8	1.0
36	Common groundsel	1.5	0.8	50.0	0.1	6.4	6.4	0.9
37	Foxtail barley	5.4	0.4	6.8	< 0.1	0.3	0.4	0.9
38	Scentless chamomile	3.6	0.6	17.0	< 0.1	0.9	1.4	0.9
39	Chickweed	3.1	0.2	8.0	0.1	3.1	7.0	0.9
40	Spiny annual sow-thistle	3.5	0.3	9.9	< 0.1	1.2	1.8	0.8
41	Vetch species	3.2	0.4	12.6	< 0.1	1.0	1.6	0.7
42	Dock species	3.4	0.4	12.6	< 0.1	0.5	0.8	0.7
43	Yellow sweet-clover	3.5	0.3	10.0	< 0.1	0.4	0.4	0.7
44	Sunflower species	1.6	0.3	20.0	0.1	5.0	5.0	0.6
45	Round-leaved mallow	3.6	0.2	5.0	< 0.1	0.4	0.6	0.6
46	Dog mustard	1.7	0.2	10.0	0.1	3.4	3.4	0.5
47	Rye	1.6	0.3	20.0	< 0.1	0.8	0.8	0.4
48	Henbit	2.4	0.1	5.0	< 0.1	0.4	0.4	0.4
49	Sedge species	1.7	0.2	10.0	< 0.1	0.6	0.6	0.3
50	Rough cinquefoil	1.9	0.1	5.0	< 0.1	0.2	0.2	0.3
51	Persian darnel	1.9	0.1	5.0	< 0.1	0.2	0.2	0.3
52	Prickly lettuce	1.9	0.1	5.0	< 0.1	0.2	0.2	0.3
53	Wormseed mustard	1.8	0.1	5.0	< 0.1	0.2	0.2	0.3
54	Broad-leaved plantain	1.8	0.1	5.0	< 0.1	0.2	0.2	0.3

(Table continued on next page)

Table 116. 1990s Field peas (60 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Vetchling species	1.8	0.1	5.0	< 0.1	0.2	0.2	0.3
56	Purslane	1.8	0.1	5.0	< 0.1	0.2	0.2	0.3
57	Russian pigweed	1.6	0.1	5.0	< 0.1	0.6	0.6	0.3
58	Night-flowering catchfly	1.7	0.1	5.0	< 0.1	0.2	0.2	0.3
59	Goat's-beard	1.6	0.1	5.0	< 0.1	0.2	0.2	0.2
60	Alfalfa	1.6	0.1	5.0	< 0.1	0.2	0.2	0.2
61	White mustard	1.5	0.1	5.0	< 0.1	0.2	0.2	0.2
62	American dragonhead	1.3	0.1	5.0	< 0.1	0.2	0.2	0.2
63	Cow cockle	1.3	0.1	5.0	< 0.1	0.2	0.2	0.2
64	Milk-vetch species	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 117. 1990s Field peas in the Boreal Transition Ecoregion (21 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Canada thistle	77.8	26.9	34.6	4.6	5.9	34.8	38.4
2	Wild oats	87.1	27.7	31.8	4.2	4.8	33.6	38.2
3	Canola/rapeseed	59.9	25.9	43.2	5.2	8.7	51.4	37.8
4	Perennial sow-thistle	70.5	20.1	28.5	3.7	5.2	39.8	30.7
5	Stinkweed	68.5	12.4	18.1	1.5	2.2	17.4	19.3
6	Shepherd's-purse	47.7	9.3	19.6	1.5	3.1	16.6	15.2
7	Lamb's-quarters	60.1	8.7	14.5	0.7	1.2	10.2	13.7
8	Green foxtail	33.3	8.0	23.9	1.2	3.6	16.6	12.0
9	Cleavers	26.8	9.7	36.3	1.1	4.2	13.4	11.9
10	Pale smartweed	44.3	7.4	16.6	0.7	1.5	7.8	11.1
11	Quack grass	31.1	6.3	20.3	1.1	3.4	9.6	10.4
12	Field horsetail	34.5	6.7	19.5	0.9	2.5	5.0	10.3
13	Hemp-nettle	25.7	6.4	25.0	0.8	3.2	7.8	9.0
14	Wild buckwheat	48.0	4.3	9.0	0.2	0.4	0.8	8.3
15	Dandelion	36.1	3.0	8.4	0.1	0.4	1.0	6.1
16	Wheat	27.6	3.5	12.6	0.3	0.9	2.8	5.8
17	Bluebur	13.5	2.2	16.2	0.1	0.8	1.8	3.0
18	Wild mustard	10.8	2.2	20.2	0.1	1.2	1.4	2.8
19	Pineappleweed	3.2	1.1	35.0	0.5	15.8	15.8	2.7
20	Narrow-leaved hawk's-beard	14.2	1.4	9.8	0.1	0.5	1.0	2.6
21	Sunflower species	4.3	0.9	20.0	0.2	5.0	5.0	1.7
22	Henbit	6.7	0.3	5.0	< 0.1	0.4	0.4	1.0
23	Russian thistle	6.7	0.3	5.0	< 0.1	0.2	0.2	1.0
24	Chickweed	5.1	0.5	10.0	< 0.1	0.4	0.4	0.9
25	Prostrate knotweed	4.9	0.5	10.0	< 0.1	0.4	0.4	0.9
26	Flax	4.6	0.5	10.0	< 0.1	0.4	0.4	0.8
27	Yellow sweet-clover	4.3	0.4	10.0	< 0.1	0.4	0.4	0.8
28	Wormseed mustard	4.9	0.2	5.0	< 0.1	0.2	0.2	0.7
29	Broad-leaved plantain	4.9	0.2	5.0	< 0.1	0.2	0.2	0.7
30	Wild tomato	4.9	0.2	5.0	< 0.1	0.2	0.2	0.7
31	Vetchling species	4.9	0.2	5.0	< 0.1	0.2	0.2	0.7
32	Canary grass	4.3	0.2	5.0	< 0.1	0.4	0.4	0.6
33	American dragonhead	3.7	0.2	5.0	< 0.1	0.2	0.2	0.5

**Field Survey Summary Tables – 1990s Field Peas**

Table 118. 1990s Field peas in the Aspen Parkland Ecoregion (22 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	71.5	21.3	29.7	4.1	5.8	65.8	37.2
2	Canada thistle	78.0	15.6	20.0	1.3	1.7	4.6	23.3
3	Stinkweed	42.0	11.8	28.1	2.8	6.7	37.2	23.2
4	Perennial sow-thistle	70.6	13.8	19.6	1.4	2.0	10.2	22.0
5	Wild buckwheat	63.6	16.2	25.4	1.3	2.0	5.8	21.8
6	Green foxtail	47.8	12.8	26.8	2.1	4.3	26.4	21.3
7	Shepherd's-purse	43.3	10.9	25.2	2.0	4.7	39.2	19.5
8	Quack grass	31.5	9.9	31.6	2.1	6.8	23.4	18.0
9	Lamb's-quarters	39.8	9.3	23.3	0.8	1.9	9.0	13.0
10	Wild mustard	43.4	9.0	20.7	0.6	1.3	4.0	12.5
11	Barley	22.4	7.9	35.3	1.2	5.5	13.2	12.1
12	Wheat	34.6	8.3	23.9	0.7	2.0	6.0	11.5
13	Russian thistle	14.1	5.7	40.7	0.7	5.2	11.6	7.8
14	Canola/rapeseed	22.0	4.3	19.7	0.4	1.9	4.8	6.7
15	Ball mustard	3.6	3.0	85.0	0.5	13.6	13.6	4.1
16	Redroot pigweed	16.0	2.6	16.4	0.1	0.9	1.8	4.0
17	Field horsetail	11.8	1.8	15.5	0.2	1.9	5.2	3.3
18	Wild tomato	9.9	2.6	26.8	0.1	1.3	1.8	3.1
19	Common groundsel	4.3	2.1	50.0	0.3	6.4	6.4	2.8
20	Flax	7.1	2.1	30.0	0.2	2.3	4.4	2.7
21	Scentless chamomile	10.2	1.7	17.0	0.1	0.9	1.4	2.5
22	Rose species	14.2	0.7	5.0	0.1	0.4	0.6	2.3
23	Dandelion	10.9	1.1	10.0	< 0.1	0.4	0.4	2.1
24	Biennial wormwood	9.8	0.7	7.2	0.1	0.9	1.8	1.9
25	Canada fleabane	8.7	0.6	7.5	0.1	0.8	1.4	1.7
26	Chickweed	3.6	0.2	5.0	0.2	7.0	7.0	1.6
27	Hemp-nettle	3.6	1.1	30.0	0.1	3.4	3.4	1.5
28	Narrow-leaved hawk's-beard	9.0	0.5	5.0	< 0.1	0.2	0.2	1.4
29	Kochia	5.0	1.0	20.0	0.1	1.2	1.2	1.4
30	Prostrate knotweed	3.6	1.1	30.0	0.1	2.0	2.0	1.3
31	Pale smartweed	3.6	0.7	20.0	0.1	1.8	1.8	1.1
32	Yellow sweet-clover	5.5	0.5	10.0	< 0.1	0.4	0.4	1.0
33	Canary grass	5.0	0.5	10.0	< 0.1	0.4	0.4	1.0
34	Rough cinquefoil	5.5	0.3	5.0	< 0.1	0.2	0.2	0.9
35	Persian darnel	5.5	0.3	5.0	< 0.1	0.2	0.2	0.9
36	Barnyard grass	5.5	0.3	5.0	< 0.1	0.2	0.2	0.9
37	Prickly lettuce	5.5	0.3	5.0	< 0.1	0.2	0.2	0.9
38	Round-leaved mallow	5.5	0.3	5.0	< 0.1	0.2	0.2	0.9
39	Vetch species	4.4	0.4	10.0	< 0.1	0.4	0.4	0.8
40	Foxtail barley	5.0	0.3	5.0	< 0.1	0.2	0.2	0.8
41	Purslane	5.0	0.3	5.0	< 0.1	0.2	0.2	0.8
42	Night-flowering catchfly	4.8	0.2	5.0	< 0.1	0.2	0.2	0.7
43	White mustard	4.3	0.2	5.0	< 0.1	0.2	0.2	0.7
44	Cleavers	3.6	0.2	5.0	< 0.1	0.4	0.4	0.6
45	Cow cockle	3.6	0.2	5.0	< 0.1	0.2	0.2	0.6

Table 119. 1990s Field peas in the Moist Mixed Grassland Ecoregion (14 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	41.2	11.4	27.7	15.0	36.3	186.8	53.2
2	Canola/rapeseed	57.1	29.5	51.7	4.5	8.0	19.4	35.1
3	Stinkweed	63.0	24.6	39.1	2.6	4.1	10.4	27.6
4	Wild oats	51.6	17.4	33.7	3.3	6.3	9.4	24.4
5	Wild buckwheat	62.8	15.6	24.8	1.8	2.8	14.6	20.6
6	Canada thistle	52.1	10.7	20.5	1.1	2.2	5.0	15.0
7	Perennial sow-thistle	42.1	8.4	20.1	0.9	2.2	5.4	12.1
8	Flixweed	44.6	10.1	22.6	0.5	1.1	1.8	11.9
9	Russian thistle	33.0	10.1	30.8	0.8	2.4	5.6	11.5
10	Wild mustard	36.4	4.4	12.2	0.3	0.9	2.2	7.6
11	Thyme-leaved spurge	14.8	5.6	37.5	0.7	4.4	8.2	6.5
12	Canada fleabane	23.1	4.4	19.2	0.2	1.1	2.6	5.7
13	Dandelion	30.2	2.3	7.6	0.1	0.3	0.6	5.0
14	Pale smartweed	22.0	3.2	14.6	0.3	1.1	2.6	5.0
15	Shepherd's-purse	7.8	3.1	40.0	0.7	9.2	9.2	4.6
16	Redroot pigweed	21.7	2.9	13.6	0.2	0.7	1.8	4.6
17	Lamb's-quarters	24.5	1.9	7.8	0.2	0.9	2.6	4.5
18	Narrow-leaved hawk's-beard	22.8	2.4	10.4	0.1	0.5	1.0	4.3
19	Barnyard grass	7.2	3.6	50.0	0.3	4.4	4.4	3.6
20	Quack grass	4.1	2.4	60.0	0.6	14.0	14.0	3.4
21	Spiny annual sow-thistle	15.0	1.5	9.9	0.2	1.2	1.8	3.1
22	Biennial wormwood	18.0	1.2	6.9	< 0.1	0.3	0.4	2.9
23	Dock species	14.6	1.8	12.6	0.1	0.5	0.8	2.9
24	Cleavers	6.8	2.7	40.0	0.2	2.4	2.4	2.7
25	Foxtail barley	15.6	1.2	7.6	< 0.1	0.3	0.4	2.6
26	Kochia	14.7	0.7	5.0	< 0.1	0.2	0.2	2.2
27	Wheat	11.9	1.0	8.4	0.1	0.7	1.6	2.2
28	Dog mustard	7.4	0.7	10.0	0.3	3.4	3.4	2.0
29	Rye	6.8	1.4	20.0	0.1	0.8	0.8	1.7
30	Sedge species	7.4	0.7	10.0	< 0.1	0.6	0.6	1.4
31	Round-leaved mallow	7.2	0.4	5.0	< 0.1	0.6	0.6	1.2
32	Prostrate knotweed	7.4	0.4	5.0	< 0.1	0.4	0.4	1.2
33	Rose species	7.6	0.4	5.0	< 0.1	0.2	0.2	1.1
34	Wild tomato	7.6	0.4	5.0	< 0.1	0.2	0.2	1.1
35	Russian pigweed	6.8	0.3	5.0	< 0.1	0.6	0.6	1.1
36	Goat's-beard	6.8	0.3	5.0	< 0.1	0.2	0.2	1.0
37	Alfalfa	6.8	0.3	5.0	< 0.1	0.2	0.2	1.0
38	Bluebur	6.8	0.3	5.0	< 0.1	0.2	0.2	1.0
39	Field horsetail	4.1	0.4	10.0	< 0.1	1.0	1.0	0.8
40	Milk-vetch species	4.1	0.2	5.0	< 0.1	0.2	0.2	0.6

**Field Survey Summary Tables – 1990s Lentils**

Table 120. 1990s Lentils (34 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	44.8	14.1	31.4	6.3	14.0	153.2	42.3
2	Wild buckwheat	65.5	25.5	39.0	2.8	4.3	19.4	37.8
3	Wild oats	64.5	15.5	24.0	2.7	4.1	35.0	30.6
4	Russian thistle	43.5	12.5	28.8	2.8	6.4	40.2	26.3
5	Wild mustard	32.8	11.6	35.3	1.1	3.4	14.6	16.8
6	Thyme-leaved spurge	23.2	10.8	46.5	1.5	6.4	16.4	16.5
7	Wheat	49.1	8.4	17.2	0.6	1.3	5.8	15.2
8	Stinkweed	34.6	8.8	25.4	0.8	2.4	8.2	14.2
9	Canada thistle	33.8	7.0	20.6	0.9	2.7	6.6	13.3
10	Redroot pigweed	30.0	7.7	25.5	0.5	1.6	4.8	11.2
11	Perennial sow-thistle	24.2	6.3	26.1	0.8	3.2	13.6	10.9
12	Kochia	23.3	4.8	20.6	0.4	1.6	7.8	8.1
13	Dandelion	24.2	2.5	10.5	0.1	0.4	1.0	5.6
14	Canola/rapeseed	15.0	3.5	23.2	0.2	1.5	3.6	5.3
15	Lamb's-quarters	20.9	1.7	8.2	0.1	0.4	1.2	4.5
16	Flixweed	17.7	1.7	9.7	0.1	0.5	0.8	4.0
17	Prostrate knotweed	13.1	1.5	11.4	0.1	0.9	2.8	3.4
18	Persian darnel	6.0	1.6	27.5	0.3	4.6	4.8	3.1
19	Cow cockle	9.2	1.4	15.8	0.1	1.5	4.4	2.8
20	Quack grass	6.2	1.5	23.7	0.2	3.3	5.6	2.7
21	Round-leaved mallow	3.0	1.8	60.0	0.2	6.0	6.0	2.4
22	Vetch species	8.5	0.7	8.4	< 0.1	0.5	0.6	1.9
23	Absinth	3.0	1.7	55.0	0.1	2.8	2.8	1.8
24	Canada fleabane	5.8	0.9	15.4	< 0.1	0.7	1.2	1.6
25	Wild tomato	6.5	0.5	7.6	< 0.1	0.3	0.4	1.4
26	Barley	3.4	1.0	30.0	< 0.1	1.2	1.2	1.3
27	Rose species	6.2	0.5	7.5	< 0.1	0.4	0.6	1.3
28	Field peas	5.7	0.3	5.0	< 0.1	0.2	0.2	1.1
29	Dock species	2.9	0.7	25.0	< 0.1	1.4	1.4	1.1
30	Wormseed mustard	3.4	0.5	15.0	< 0.1	0.8	0.8	0.9
31	Bluebur	3.0	0.3	10.0	< 0.1	1.6	1.6	0.8
32	Gray tansy mustard	2.7	0.5	20.0	< 0.1	0.8	0.8	0.8
33	Prostrate pigweed	2.8	0.4	15.0	< 0.1	1.0	1.0	0.8
34	Foxtail barley	3.0	0.3	10.0	< 0.1	1.2	1.2	0.8
35	Dog mustard	2.7	0.4	15.0	< 0.1	1.0	1.0	0.8
36	Shepherd's-purse	3.0	0.3	10.0	< 0.1	0.8	0.8	0.7
37	Narrow-leaved hawk's-beard	3.1	0.3	10.0	< 0.1	0.4	0.4	0.7
38	Night-flowering catchfly	3.0	0.3	10.0	< 0.1	0.4	0.4	0.7
39	Nodding thistle	2.7	0.3	10.0	< 0.1	1.0	1.0	0.7
40	Flax	3.2	0.2	5.0	< 0.1	0.2	0.2	0.6
41	Russian pigweed	3.0	0.2	5.0	< 0.1	0.2	0.2	0.6
42	Vervain species	3.0	0.2	5.0	< 0.1	0.2	0.2	0.6
43	Spiny annual sow-thistle	2.8	0.1	5.0	< 0.1	0.2	0.2	0.5
44	Tumble pigweed	2.8	0.1	5.0	< 0.1	0.2	0.2	0.5
45	Prickly lettuce	2.7	0.1	5.0	< 0.1	0.2	0.2	0.5
46	Stork's-bill	2.7	0.1	5.0	< 0.1	0.2	0.2	0.5



Table 121. 1990s Lentils in the Moist Mixed Grassland Ecoregion (16 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	50.8	19.8	39.1	11.9	23.4	153.2	64.5
2	Wild buckwheat	69.0	24.2	35.1	2.7	3.9	17.6	34.4
3	Wild oats	75.6	18.0	23.8	1.6	2.1	5.4	27.5
4	Thyme-leaved spurge	31.7	15.8	50.0	2.3	7.3	16.4	22.7
5	Wild mustard	31.5	14.7	46.8	1.0	3.2	4.8	17.1
6	Canada thistle	45.4	9.1	20.0	1.1	2.4	6.6	15.9
7	Russian thistle	31.7	8.0	25.3	1.1	3.3	12.8	13.3
8	Redroot pigweed	31.4	10.1	32.2	0.6	1.9	3.8	12.7
9	Wheat	38.2	7.5	19.5	0.7	1.8	5.8	12.4
10	Canola/rapeseed	25.8	7.0	27.1	0.5	1.8	3.6	9.5
11	Stinkweed	24.9	5.8	23.4	0.6	2.5	6.6	9.3
12	Perennial sow-thistle	31.9	2.9	9.0	0.4	1.2	4.2	7.7
13	Dandelion	26.2	2.6	10.0	0.1	0.4	1.0	5.7
14	Cow cockle	19.2	3.0	15.8	0.3	1.5	4.4	5.6
15	Round-leaved mallow	6.3	3.8	60.0	0.4	6.0	6.0	4.6
16	Kochia	18.5	2.4	12.8	0.1	0.8	1.8	4.6
17	Absinth	6.3	3.5	55.0	0.2	2.8	2.8	3.6
18	Prostrate knotweed	13.2	1.0	7.5	< 0.1	0.3	0.4	2.6
19	Rose species	12.9	1.0	7.5	0.1	0.4	0.6	2.6
20	Vetch species	12.2	0.9	7.6	0.1	0.5	0.6	2.5
21	Lamb's-quarters	12.5	0.6	5.0	< 0.1	0.2	0.2	2.2
22	Canada fleabane	6.3	1.6	25.0	0.1	1.2	1.2	2.1
23	Bluebur	6.4	0.6	10.0	0.1	1.6	1.6	1.7
24	Foxtail barley	6.4	0.6	10.0	0.1	1.2	1.2	1.6
25	Shepherd's-purse	6.3	0.6	10.0	0.1	0.8	0.8	1.5
26	Narrow-leaved hawk's-beard	6.5	0.7	10.0	< 0.1	0.4	0.4	1.4
27	Night-flowering catchfly	6.3	0.6	10.0	< 0.1	0.4	0.4	1.4
28	Quack grass	5.8	0.6	10.0	< 0.1	0.4	0.4	1.3
29	Flixweed	6.5	0.3	5.0	< 0.1	0.4	0.4	1.2
30	Flax	6.7	0.3	5.0	< 0.1	0.2	0.2	1.2
31	Wild tomato	6.5	0.3	5.0	< 0.1	0.2	0.2	1.2
32	Russian pigweed	6.3	0.3	5.0	< 0.1	0.2	0.2	1.1
33	Vervain species	6.3	0.3	5.0	< 0.1	0.2	0.2	1.1
34	Field peas	6.3	0.3	5.0	< 0.1	0.2	0.2	1.1
35	Spiny annual sow-thistle	5.9	0.3	5.0	< 0.1	0.2	0.2	1.1

**Field Survey Summary Tables – 1990s Lentils**

Table 122. 1990s Lentils in the Mixed Grassland Ecoregion (13 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Russian thistle	60.9	16.9	27.8	5.7	9.4	40.2	53.3
2	Wild oats	61.4	16.0	26.0	4.6	7.5	35.0	47.0
3	Wild buckwheat	46.1	16.7	36.2	2.2	4.8	19.4	32.9
4	Wheat	77.0	12.6	16.3	0.8	1.1	4.8	28.1
5	Stinkweed	45.5	14.7	32.2	1.4	3.1	8.2	27.1
6	Kochia	30.5	9.1	30.0	0.8	2.6	7.8	16.9
7	Thyme-leaved spurge	22.2	8.9	40.0	1.0	4.7	9.6	16.5
8	Green foxtail	39.0	3.5	8.9	0.8	2.1	8.8	13.8
9	Wild mustard	14.8	4.4	30.0	1.1	7.4	14.6	11.8
10	Persian darnel	16.3	4.5	27.5	0.8	4.6	4.8	10.4
11	Flixweed	30.7	3.8	12.4	0.2	0.5	0.8	9.4
12	Dandelion	15.4	2.7	17.8	0.1	0.7	1.0	5.5
13	Redroot pigweed	23.9	1.2	5.0	< 0.1	0.2	0.2	5.4
14	Lamb's-quarters	15.1	0.8	5.0	< 0.1	0.3	0.4	3.5
15	Gray tansy mustard	7.4	1.5	20.0	0.1	0.8	0.8	2.8
16	Prostrate pigweed	7.7	1.2	15.0	0.1	1.0	1.0	2.7
17	Nodding thistle	7.4	0.7	10.0	0.1	1.0	1.0	2.3
18	Vetch species	7.4	0.7	10.0	< 0.1	0.4	0.4	2.1
19	Canada thistle	7.4	0.4	5.0	0.1	0.8	0.8	1.9
20	Canada fleabane	7.7	0.4	5.0	< 0.1	0.2	0.2	1.7
21	Tumble pigweed	7.7	0.4	5.0	< 0.1	0.2	0.2	1.7
22	Prickly lettuce	7.4	0.4	5.0	< 0.1	0.2	0.2	1.7
23	Field peas	7.4	0.4	5.0	< 0.1	0.2	0.2	1.7

Table 123. 1980s (2729 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	49.3	27.3	55.4	19.1	38.8	1592.6	52.8
2	Wild buckwheat	69.1	25.6	37.1	4.8	6.9	445.8	32.3
3	Wild oats	55.4	18.4	33.2	5.8	10.5	643.6	27.9
4	Stinkweed	44.2	14.0	31.6	5.0	11.2	1048.4	22.4
5	Lamb's-quarters	36.4	10.0	27.5	2.7	7.5	478.6	15.5
6	Russian thistle	20.9	7.0	33.6	3.0	14.5	518.4	11.9
7	Redroot pigweed	28.1	6.2	22.2	1.2	4.2	417.6	9.7
8	Chickweed	10.2	4.8	46.9	3.5	34.0	978.2	9.7
9	Pale smartweed	22.7	6.3	27.7	1.2	5.2	96.4	8.9
10	Canada thistle	27.8	5.6	20.1	0.7	2.5	37.2	8.6
11	Shepherd's-purse	14.7	4.3	29.4	2.2	15.1	988.0	8.2
12	Hemp-nettle	13.3	4.3	32.3	1.4	10.2	272.0	6.6
13	Wild mustard	18.1	4.3	23.5	0.7	3.8	111.2	6.3
14	Field horsetail	13.0	4.0	31.1	1.2	9.6	119.6	6.2
15	Perennial sow-thistle	17.3	3.3	19.0	0.4	2.5	58.2	5.2
16	Narrow-leaved hawk's-beard	8.4	2.2	26.1	0.7	8.4	390.6	3.6
17	Common groundsel	6.8	2.0	29.8	0.9	13.3	596.2	3.6
18	Bluebur	10.6	2.5	23.3	0.3	3.3	79.4	3.6
19	Quack grass	9.1	1.8	20.3	0.6	6.9	199.2	3.4
20	Flax	3.3	1.9	59.3	1.1	34.3	281.6	3.3
21	Cow cockle	7.4	1.9	25.8	0.6	7.9	215.6	3.1
22	Canola/rapeseed	7.8	2.1	27.0	0.4	4.6	74.2	2.9
23	Clover species	3.8	1.6	40.9	0.6	16.8	145.2	2.4
24	Kochia	6.2	1.6	25.5	0.4	5.8	122.4	2.4
25	Night-flowering catchfly	6.3	1.8	28.1	0.3	4.0	57.6	2.3
26	Flixweed	8.3	1.3	15.2	0.2	2.0	102.0	2.3
27	Barley	6.0	1.6	26.0	0.2	4.0	61.8	2.2
28	Dandelion	7.3	1.4	18.9	0.1	2.0	36.8	2.1
29	Rose species	8.9	0.9	10.0	0.1	1.0	10.6	2.1
30	Cleavers	5.5	1.3	23.1	0.2	4.5	51.4	2.0
31	Wheat	5.1	1.4	27.4	0.2	4.6	43.8	1.9
32	Corn spurry	3.1	0.9	29.8	0.4	13.7	950.8	1.7
33	Thyme-leaved spurge	3.8	1.1	29.2	0.2	4.2	31.0	1.5
34	Prostrate pigweed	4.9	0.8	16.0	0.1	2.3	44.4	1.4
35	Barnyard grass	3.3	0.5	14.8	0.1	4.4	125.6	1.0
36	Black medick	1.1	0.5	44.2	0.3	29.1	216.4	0.9
37	Pineappleweed	2.8	0.5	17.3	0.1	4.5	145.2	0.9
38	Ball mustard	3.0	0.4	14.9	0.1	4.0	137.8	0.9
39	Wild tomato	2.8	0.5	16.4	0.1	1.8	18.2	0.8
40	Tartary buckwheat	1.6	0.6	39.2	0.1	7.4	78.8	0.8
41	Round-leaved mallow	2.5	0.4	18.1	0.1	3.0	43.0	0.8
42	Prostrate knotweed	2.9	0.4	13.2	< 0.1	1.6	17.0	0.8
43	Alfalfa	2.0	0.5	25.6	0.1	3.9	40.8	0.7
44	Stork's-bill	1.8	0.4	24.8	0.1	5.5	66.2	0.7
45	Tumble pigweed	1.8	0.5	25.6	< 0.1	2.7	16.6	0.6
46	Dog mustard	1.3	0.4	34.0	0.1	7.4	69.2	0.6
47	White cockle	1.7	0.3	18.8	< 0.1	2.8	46.4	0.5
48	Yellow sweet-clover	1.3	0.3	20.7	0.1	6.2	155.2	0.5
49	Persian darnel	1.3	0.3	20.0	0.1	6.0	46.0	0.5
50	American dragonhead	1.4	0.3	18.1	0.1	4.6	184.0	0.5
51	Wormseed mustard	1.2	0.3	23.9	0.1	4.7	66.4	0.5
52	Rough cinquefoil	0.9	0.2	28.8	0.1	12.9	179.8	0.4
53	Broad-leaved plantain	1.5	0.2	13.4	< 0.1	2.8	68.6	0.4
54	Biennial wormwood	1.6	0.2	13.2	< 0.1	1.8	18.2	0.4

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**Field Survey Summary Tables – 1980s**

Table 123. 1980s (2729 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Vetch species	1.6	0.2	12.5	< 0.1	1.1	13.0	0.4
56	Spiny annual sow-thistle	1.2	0.2	18.8	< 0.1	1.8	20.4	0.4
57	Water smartweed	0.9	0.1	10.1	< 0.1	3.6	45.4	0.3
58	Yellow toadflax	0.7	0.1	18.7	< 0.1	5.1	27.0	0.2
59	Low cudweed	0.5	0.1	21.2	0.1	11.3	68.2	0.2
60	Purslane speedwell	0.4	0.1	21.6	0.1	17.8	161.6	0.2
61	Dock species	0.6	0.1	17.4	< 0.1	2.1	8.0	0.2
62	White mustard	0.3	0.1	50.0	< 0.1	13.3	49.4	0.2
63	Common pepper-grass	0.6	0.1	13.2	< 0.1	2.4	29.2	0.2
64	Povertyweed	0.4	0.1	23.7	< 0.1	9.1	21.8	0.2
65	Western snowberry	0.4	0.1	25.0	< 0.1	4.9	29.6	0.2
66	Field bindweed	0.4	0.1	25.3	< 0.1	4.2	26.0	0.2
67	Milk-vetch species	0.6	0.1	14.1	< 0.1	1.1	5.8	0.1
68	Scentless chamomile	0.5	0.1	16.5	< 0.1	3.3	28.6	0.1
69	Oats	0.5	0.1	17.0	< 0.1	1.5	3.8	0.1
70	Russian pigweed	0.5	0.1	16.3	< 0.1	1.1	4.2	0.1
71	Vetchling species	0.6	< 0.1	6.8	< 0.1	0.6	1.6	0.1
72	Bladder campion	0.4	0.1	23.6	< 0.1	2.8	14.4	0.1
73	Willowherb species	0.5	0.1	12.4	< 0.1	1.6	10.4	0.1
74	Common yarrow	0.5	< 0.1	10.7	< 0.1	1.2	14.2	0.1
75	Golden corydalis	0.4	0.1	14.8	< 0.1	1.3	5.6	0.1
76	Mouse-eared chickweed	0.1	< 0.1	41.4	< 0.1	37.8	162.0	0.1
77	Absinth	0.4	< 0.1	11.5	< 0.1	2.5	19.8	0.1
78	Rye	0.3	0.1	20.5	< 0.1	1.4	2.0	0.1
79	Showy milkweed	0.4	< 0.1	9.4	< 0.1	1.1	4.4	0.1
80	Foxtail barley	0.4	< 0.1	8.1	< 0.1	1.0	10.6	0.1
81	California allocarya	0.1	< 0.1	25.6	< 0.1	24.8	62.0	0.1
82	Bicknell's geranium	0.3	0.1	16.1	< 0.1	0.9	3.8	0.1
83	Skeletonweed	0.4	< 0.1	8.4	< 0.1	0.8	2.0	0.1
84	Poplar species	0.3	< 0.1	11.4	< 0.1	0.7	3.8	0.1
85	Fescue species	0.2	0.1	31.1	< 0.1	7.0	33.8	0.1
86	Prickly lettuce	0.4	< 0.1	7.5	< 0.1	0.5	2.2	0.1
87	Blue grass species	0.3	< 0.1	16.6	< 0.1	2.6	6.4	0.1
88	Canary grass	0.1	< 0.1	33.6	< 0.1	15.0	39.0	0.1
89	Purslane	0.2	< 0.1	17.2	< 0.1	2.4	7.2	0.1
90	Yellow foxtail	0.2	< 0.1	25.8	< 0.1	3.8	10.0	0.1
91	Henbit	0.2	< 0.1	22.0	< 0.1	2.3	6.6	0.1
92	Green tansy mustard	0.3	< 0.1	10.1	< 0.1	0.7	4.4	0.1
93	Field peas	0.2	< 0.1	28.1	< 0.1	3.3	10.4	0.1
94	Tumble mustard	0.3	< 0.1	7.6	< 0.1	0.3	0.4	0.1
95	Hare's-ear mustard	0.3	< 0.1	9.0	< 0.1	0.5	1.0	0.1
96	Witch grass	0.2	< 0.1	26.8	< 0.1	2.1	5.8	0.1
97	Sunflower species	0.2	< 0.1	13.4	< 0.1	0.8	2.2	0.1
98	Spear-leaved goosefoot	0.2	< 0.1	16.7	< 0.1	1.1	3.0	0.1
99	Northern bedstraw	0.2	< 0.1	5.0	< 0.1	0.4	0.8	< 0.1
100	Smooth brome	0.2	< 0.1	6.9	< 0.1	0.5	1.4	< 0.1
101	Oak-leaved goosefoot	0.1	< 0.1	17.2	< 0.1	1.8	3.6	< 0.1
102	False flax species	0.1	< 0.1	16.5	< 0.1	1.2	3.2	< 0.1
103	Aster species	0.1	< 0.1	12.9	< 0.1	1.3	3.6	< 0.1
104	Corn	0.1	< 0.1	32.5	< 0.1	1.3	2.2	< 0.1
105	Pasture sage	0.2	< 0.1	9.4	< 0.1	0.4	0.8	< 0.1
106	Timothy	0.1	< 0.1	10.0	< 0.1	1.1	2.8	< 0.1
107	Manitoba maple	0.1	< 0.1	9.5	< 0.1	0.4	1.0	< 0.1
108	Wood whitlow-grass	0.1	< 0.1	10.2	< 0.1	1.3	3.6	< 0.1

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Table 123. 1980s (2729 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
109	Poison suckleya	0.1	< 0.1	8.5	< 0.1	0.5	1.0	< 0.1
110	Redtop	0.1	< 0.1	11.6	< 0.1	1.8	3.8	< 0.1
111	Sedge species	0.1	< 0.1	24.3	< 0.1	8.1	12.4	< 0.1
112	Field mint	0.1	< 0.1	9.0	< 0.1	1.6	5.8	< 0.1
113	Red goosefoot	0.1	< 0.1	37.2	< 0.1	5.0	9.6	< 0.1
114	Pygmyflower	0.1	< 0.1	20.3	< 0.1	3.3	5.4	< 0.1
115	Knawel	0.1	< 0.1	11.1	< 0.1	0.6	2.0	< 0.1
116	Small bugloss	0.1	< 0.1	17.8	< 0.1	2.4	2.8	< 0.1
117	Bird's-foot trefoil	< 0.1	< 0.1	75.0	< 0.1	11.8	11.8	< 0.1
118	Tall buttercup	0.1	< 0.1	16.8	< 0.1	1.7	5.6	< 0.1
119	Avens species	0.1	< 0.1	23.3	< 0.1	3.6	5.2	< 0.1
120	Orchard grass	< 0.1	< 0.1	70.0	< 0.1	12.6	12.6	< 0.1
121	Golden-bean	< 0.1	< 0.1	20.9	< 0.1	7.4	11.6	< 0.1
122	Scarlet gaura	0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
123	Gray tansy mustard	0.1	< 0.1	7.6	< 0.1	0.3	0.4	< 0.1
124	Proso millet	0.1	< 0.1	18.0	< 0.1	2.8	11.0	< 0.1
125	Marsh hedge-nettle	0.1	< 0.1	5.0	< 0.1	0.6	1.2	< 0.1
126	Blue lettuce	0.1	< 0.1	7.0	< 0.1	1.0	1.8	< 0.1
127	Ground-ivy	0.1	< 0.1	15.0	< 0.1	0.7	0.8	< 0.1
128	Wild chamomile	< 0.1	< 0.1	26.2	< 0.1	4.1	6.6	< 0.1
129	Tansy	0.1	< 0.1	12.7	< 0.1	0.7	0.8	< 0.1
130	Atriplex species	< 0.1	< 0.1	30.0	< 0.1	1.8	1.8	< 0.1
131	Canada fleabane	< 0.1	< 0.1	70.0	< 0.1	7.2	7.2	< 0.1
132	Common burdock	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
133	Common ragweed	0.1	< 0.1	5.0	< 0.1	0.3	0.6	< 0.1
134	Indian mustard	0.1	< 0.1	7.5	< 0.1	0.4	0.6	< 0.1
135	Giant ragweed	< 0.1	< 0.1	11.6	< 0.1	1.0	1.4	< 0.1
136	Clasping-leaved pennycress	< 0.1	< 0.1	70.0	< 0.1	14.2	14.2	< 0.1
137	Nodding thistle	< 0.1	< 0.1	15.0	< 0.1	2.6	2.6	< 0.1
138	Wood-sorrel species	< 0.1	< 0.1	10.0	< 0.1	2.0	2.0	< 0.1
139	Blueberry species	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
140	Wild strawberry	< 0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
141	Crested wheat grass	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
142	Meadow rue species	< 0.1	< 0.1	10.8	< 0.1	1.6	3.8	< 0.1
143	Five-hooked bassia	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
144	False ragweed	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
145	Wild red raspberry	< 0.1	< 0.1	10.2	< 0.1	0.5	1.2	< 0.1
146	Pussytoes species	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
147	Biennial campion	< 0.1	< 0.1	15.0	< 0.1	4.2	4.2	< 0.1
148	Needle-and-thread	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
149	Strawberry-blite	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
150	Wild radish	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
151	Slough grass	< 0.1	< 0.1	10.0	< 0.1	5.8	5.8	< 0.1
152	Spreading dogbane	< 0.1	< 0.1	6.7	< 0.1	0.4	0.8	< 0.1
153	Nightshade species	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
154	Caraway	< 0.1	< 0.1	15.0	< 0.1	1.0	1.0	< 0.1
155	Palmate-leaved colt's-foot	< 0.1	< 0.1	35.0	< 0.1	2.4	2.4	< 0.1
156	Dewberry	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
157	Wild rye/wheat grass species	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
158	Violet species	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
159	Goldenrod species	< 0.1	< 0.1	10.0	< 0.1	1.0	1.0	< 0.1
160	Toad rush	< 0.1	< 0.1	5.0	< 0.1	1.2	1.2	< 0.1
161	Willow species	< 0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
162	Low bush-cranberry	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1

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**Field Survey Summary Tables – 1980s**

Table 123. 1980s (2729 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
163	Narrow-leaved goosefoot	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
164	Downy brome	< 0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1

Table 124. 1980s Peace Lowland Ecoregion (216 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	87.5	40.0	45.7	24.4	27.9	1048.4	38.9
2	Field horsetail	78.7	36.9	46.9	14.6	18.6	119.6	29.5
3	Wild oats	68.5	27.8	40.5	14.1	20.5	285.4	25.5
4	Wild buckwheat	70.6	30.1	42.7	10.8	15.3	445.8	23.8
5	Lamb's-quarters	65.5	22.2	33.9	10.3	15.7	309.2	20.6
6	Narrow-leaved hawk's-beard	48.1	19.1	39.8	9.6	20.0	390.6	17.6
7	Clover species	40.8	19.3	47.3	8.6	21.0	136.0	16.1
8	Common groundsel	43.4	16.6	38.2	7.8	17.9	442.4	14.9
9	Bluebur	44.1	12.8	29.0	2.3	5.2	79.4	9.6
10	Dandelion	54.3	12.2	22.5	1.3	2.5	36.8	9.6
11	Hemp-nettle	34.6	9.9	28.5	4.4	12.7	183.8	9.5
12	Shepherd's-purse	32.0	7.0	21.9	4.5	14.1	473.8	8.5
13	Perennial sow-thistle	37.3	8.7	23.2	1.8	4.9	51.4	7.4
14	Canola/rapeseed	27.7	7.6	27.3	1.3	4.9	74.2	5.8
15	Pale smartweed	23.8	4.7	19.7	0.8	3.4	68.6	4.2
16	Cleavers	22.6	4.3	18.9	1.1	4.7	41.6	4.1
17	Stork's-bill	19.2	4.5	23.4	0.5	2.6	19.6	3.5
18	Pineappleweed	16.6	3.0	18.0	1.0	6.0	55.0	3.2
19	Ball mustard	23.5	2.6	11.2	0.2	1.0	5.6	3.1
20	Quack grass	19.4	3.1	16.2	0.5	2.7	18.8	3.1
21	Rose species	23.4	2.5	10.9	0.3	1.1	7.2	3.1
22	Vetch species	20.9	3.1	14.8	0.3	1.2	6.0	3.0
23	Canada thistle	18.0	3.2	18.0	0.5	2.9	10.6	3.0
24	Barley	15.3	2.7	17.8	0.4	2.5	24.2	2.5
25	Chickweed	11.1	2.6	23.4	0.7	6.1	83.8	2.3
26	Wheat	11.2	2.8	25.0	0.4	3.3	20.2	2.1
27	Alfalfa	9.8	3.0	31.0	0.4	3.8	16.2	2.1
28	Yellow sweet-clover	5.4	1.4	26.1	0.8	15.1	155.2	1.5
29	Broad-leaved plantain	11.1	1.1	9.5	0.2	1.5	11.6	1.4
30	Corn spurry	3.0	1.0	34.2	1.0	33.9	129.4	1.3
31	Common yarrow	10.2	1.1	10.7	0.1	1.2	14.2	1.3
32	Golden corydalis	8.8	1.3	14.8	0.1	1.3	5.6	1.3
33	Willowherb species	8.3	1.2	14.2	0.2	1.9	10.4	1.2
34	Flixweed	7.7	1.4	18.2	0.1	1.5	5.8	1.2
35	Redroot pigweed	7.2	1.1	14.9	0.1	1.6	3.4	1.1
36	Biennial wormwood	7.0	0.8	12.0	0.1	1.2	10.0	0.9
37	Rough cinquefoil	5.8	1.1	18.8	0.1	2.0	6.0	0.9
38	Spiny annual sow-thistle	5.6	1.0	18.2	0.1	2.2	13.6	0.9
39	American dragonhead	6.5	0.8	12.9	0.1	1.1	5.8	0.9
40	Prostrate knotweed	6.5	0.7	10.7	0.1	0.9	4.6	0.8
41	Yellow toadflax	4.6	0.6	13.5	0.2	4.4	19.8	0.8
42	Milk-vetch species	4.6	0.8	17.7	< 0.1	1.0	2.2	0.7

(Table continued on next page)

Table 124. 1980s Peace Lowland Ecoregion (216 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
43	Fescue species	2.0	0.7	32.8	0.2	9.4	33.8	0.5
44	Low cudweed	1.7	0.1	5.0	0.4	20.8	20.8	0.5
45	Round-leaved mallow	1.8	0.5	26.7	0.2	9.2	25.8	0.4
46	Aster species	2.8	0.4	13.3	< 0.1	1.3	3.6	0.4
47	Absinth	2.4	0.3	11.8	0.1	4.7	19.8	0.4
48	Timothy	2.8	0.3	10.5	< 0.1	1.2	2.8	0.4
49	Blue grass species	2.2	0.3	14.7	0.1	2.9	6.4	0.3
50	Vetchling species	2.3	0.3	11.3	< 0.1	0.9	1.6	0.3
51	Persian darnel	1.3	0.4	27.9	0.1	7.1	19.8	0.3
52	Water smartweed	1.0	0.3	36.1	0.1	10.6	45.4	0.3
53	Poplar species	2.4	0.1	5.8	< 0.1	0.5	3.8	0.3
54	Wild mustard	1.8	0.3	14.4	< 0.1	1.1	2.0	0.3
55	Henbit	1.6	0.3	16.0	< 0.1	2.5	6.6	0.2
56	Smooth brome	2.2	0.1	5.5	< 0.1	0.3	0.6	0.2
57	Field mint	2.2	0.1	5.0	< 0.1	0.6	1.4	0.2
58	Common pepper-grass	1.2	0.3	22.5	0.1	4.4	8.6	0.2
59	Purslane speedwell	1.3	0.1	8.5	< 0.1	2.4	6.2	0.2
60	Night-flowering catchfly	0.4	0.2	40.0	0.1	26.8	50.6	0.2
61	Oats	1.0	0.1	13.2	< 0.1	1.8	2.6	0.1
62	Avens species	0.7	0.2	26.0	< 0.1	2.3	2.6	0.1
63	Tartary buckwheat	1.0	0.1	12.4	< 0.1	1.0	2.2	0.1
64	Wild strawberry	0.9	0.1	10.0	< 0.1	0.8	0.8	0.1
65	Foxtail barley	1.0	0.1	6.8	< 0.1	0.7	0.8	0.1
66	Flax	1.0	0.1	5.0	< 0.1	0.2	0.2	0.1
67	Wild red raspberry	0.8	0.1	10.2	< 0.1	0.5	1.2	0.1
68	Western snowberry	0.6	0.1	15.0	< 0.1	1.6	1.6	0.1
69	Blue lettuce	0.6	0.1	10.0	< 0.1	1.8	1.8	0.1
70	Ground-ivy	0.6	0.1	15.0	< 0.1	0.8	0.8	0.1
71	Spreading dogbane	0.6	< 0.1	6.7	< 0.1	0.4	0.8	0.1
72	Slough grass	0.4	< 0.1	10.0	< 0.1	5.8	5.8	0.1
73	Wormseed mustard	0.6	< 0.1	5.0	< 0.1	0.4	0.4	0.1
74	Bladder campion	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
75	Sedge species	0.5	< 0.1	5.0	< 0.1	0.5	0.6	0.1
76	Mouse-eared chickweed	0.4	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
77	Palmate-leaved colt's-foot	0.2	0.1	35.0	< 0.1	2.4	2.4	< 0.1
78	Dewberry	0.4	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
79	Dog mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
80	Goldenrod species	0.2	< 0.1	10.0	< 0.1	1.0	1.0	< 0.1
81	Toad rush	0.2	< 0.1	5.0	< 0.1	1.2	1.2	< 0.1
82	Willow species	0.2	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
83	Low bush-cranberry	0.2	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
84	Meadow rue species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 1980s**

Table 125. 1980s Boreal Transition Ecoregion (398 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	71.6	28.3	39.5	9.0	12.5	342.2	33.6
2	Wild buckwheat	67.9	25.2	37.0	4.0	5.8	142.4	24.5
3	Chickweed	31.5	14.9	47.2	9.6	30.3	596.8	24.1
4	Stinkweed	48.7	16.8	34.4	6.3	12.9	793.4	22.1
5	Lamb's-quarters	47.9	16.4	34.3	4.4	9.2	478.6	19.1
6	Hemp-nettle	37.2	14.1	37.8	4.9	13.3	272.0	17.6
7	Field horsetail	40.8	12.7	31.1	3.2	7.8	80.8	14.9
8	Shepherd's-purse	32.1	9.8	30.6	3.4	10.5	216.8	12.9
9	Canada thistle	50.5	11.6	22.9	1.2	2.5	20.8	12.8
10	Green foxtail	23.6	9.7	41.0	2.8	12.1	157.2	11.1
11	Pale smartweed	39.9	9.5	23.8	1.2	3.0	56.0	10.6
12	Perennial sow-thistle	34.9	7.4	21.3	0.9	2.6	24.8	8.7
13	Narrow-leaved hawk's-beard	19.5	5.6	28.6	1.3	6.9	109.0	6.7
14	Wild mustard	20.4	5.1	25.1	1.0	5.0	109.2	6.1
15	Common groundsel	16.8	4.8	28.5	1.0	6.0	108.6	5.5
16	Bluebur	21.1	4.8	22.7	0.6	2.7	35.4	5.4
17	Corn spurry	9.8	2.8	28.3	1.9	19.5	950.8	5.2
18	Clover species	7.1	3.5	49.6	1.6	22.8	145.2	4.7
19	Cleavers	17.2	3.8	22.3	0.7	3.8	49.8	4.7
20	Flax	7.4	4.2	56.1	1.2	15.9	71.2	4.4
21	Dandelion	16.3	3.6	22.3	0.4	2.3	23.8	4.1
22	Canola/rapeseed	11.8	3.1	26.0	0.5	4.0	32.8	3.4
23	Quack grass	12.9	2.2	17.3	0.6	4.5	66.8	3.4
24	Redroot pigweed	11.2	2.0	18.1	0.3	2.6	37.0	2.6
25	Barley	9.9	2.6	25.8	0.2	2.4	18.8	2.6
26	Night-flowering catchfly	8.8	1.8	20.6	0.3	3.1	57.6	2.2
27	Stork's-bill	4.0	1.6	38.8	0.6	14.2	66.2	2.0
28	Tartary buckwheat	3.9	1.8	45.3	0.5	12.9	78.8	1.9
29	Pineappleweed	6.9	1.6	23.3	0.2	2.9	45.8	1.8
30	Rough cinquefoil	2.1	1.0	50.6	0.7	34.9	179.8	1.7
31	Black medick	0.6	0.6	100.0	1.0	169.5	216.4	1.7
32	American dragonhead	4.0	1.1	28.3	0.4	11.1	184.0	1.6
33	Alfalfa	3.1	1.1	34.6	0.2	5.8	39.2	1.1
34	Ball mustard	5.5	0.7	12.8	0.1	1.3	7.0	1.1
35	Wheat	3.3	1.0	29.6	0.2	5.0	29.0	1.0
36	Flixweed	3.9	0.7	19.0	0.1	1.9	11.6	0.9
37	White cockle	3.3	0.7	21.2	0.1	2.2	11.6	0.8
38	Broad-leaved plantain	3.4	0.6	17.3	0.1	2.2	16.8	0.8
39	Barnyard grass	1.6	0.3	20.9	0.2	14.4	125.6	0.7
40	Wormseed mustard	2.3	0.6	28.6	0.1	3.3	11.0	0.7
41	Biennial wormwood	2.9	0.4	15.2	0.1	1.9	15.2	0.6
42	Purslane speedwell	0.2	0.2	100.0	0.3	161.6	161.6	0.6
43	Spiny annual sow-thistle	2.0	0.6	27.7	< 0.1	2.4	10.0	0.6
44	Round-leaved mallow	2.5	0.3	12.6	< 0.1	0.7	1.6	0.5
45	Prostrate knotweed	2.0	0.4	17.3	< 0.1	1.7	11.8	0.4
46	Vetchling species	2.6	0.1	5.6	< 0.1	0.3	1.2	0.4
47	Vetch species	1.9	0.3	14.4	< 0.1	1.5	13.0	0.4
48	Rose species	2.2	0.2	8.6	< 0.1	0.5	1.0	0.4
49	Milk-vetch species	1.6	0.3	16.9	< 0.1	1.5	5.8	0.3
50	Cow cockle	1.8	0.2	11.8	< 0.1	0.9	3.6	0.3
51	Scentsless chamomile	1.7	0.2	12.1	< 0.1	1.2	4.6	0.3
52	Dog mustard	0.8	0.3	36.6	0.1	7.7	22.0	0.3
53	Yellow sweet-clover	1.3	0.2	15.2	< 0.1	1.4	2.4	0.3
54	Low cudweed	0.8	0.2	23.3	< 0.1	6.3	20.2	0.2

(Table continued on next page)



Table 125. 1980s Boreal Transition Ecoregion (398 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Mouse-eared chickweed	0.4	0.2	65.0	0.1	18.6	46.0	0.2
56	Fescue species	0.7	0.2	29.4	< 0.1	4.6	10.0	0.2
57	Oats	1.0	0.1	13.7	< 0.1	1.0	3.8	0.2
58	Field peas	0.6	0.2	37.8	< 0.1	3.8	4.6	0.2
59	Russian thistle	1.0	0.1	5.0	< 0.1	1.1	1.4	0.2
60	Wild tomato	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.1
61	Povertyweed	0.4	0.1	22.5	< 0.1	10.5	20.0	0.1
62	Wood whitlow-grass	0.7	0.1	12.5	< 0.1	1.8	3.6	0.1
63	Tall buttercup	0.5	0.1	22.5	< 0.1	2.4	5.6	0.1
64	Blue grass species	0.4	0.1	31.8	< 0.1	3.2	5.4	0.1
65	Water smartweed	0.3	0.1	25.0	< 0.1	9.8	9.8	0.1
66	Bicknell's geranium	0.5	0.1	16.5	< 0.1	1.6	3.2	0.1
67	Henbit	0.4	0.1	26.3	< 0.1	2.5	3.6	0.1
68	Dock species	0.2	0.1	55.0	< 0.1	8.0	8.0	0.1
69	Showy milkweed	0.5	0.1	10.0	< 0.1	0.6	0.6	0.1
70	Tansy	0.4	0.1	12.7	< 0.1	0.7	0.8	0.1
71	Smooth brome	0.5	< 0.1	8.1	< 0.1	0.7	1.4	0.1
72	Common burdock	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
73	Prostrate pigweed	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
74	Clasping-leaved pennycress	0.1	0.1	70.0	< 0.1	14.2	14.2	0.1
75	Kochia	0.1	0.1	60.0	< 0.1	16.6	16.6	0.1
76	Nodding thistle	0.3	< 0.1	15.0	< 0.1	2.6	2.6	0.1
77	Field bindweed	0.4	< 0.1	5.0	< 0.1	0.3	0.4	0.1
78	Absinth	0.3	< 0.1	11.1	< 0.1	1.2	1.8	0.1
79	Avens species	0.2	< 0.1	20.0	< 0.1	5.2	5.2	0.1
80	Gray tansy mustard	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
81	Hare's-ear mustard	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
82	Red goosefoot	0.3	< 0.1	15.0	< 0.1	0.6	0.6	< 0.1
83	White mustard	0.2	< 0.1	10.0	< 0.1	1.6	1.6	< 0.1
84	Meadow rue species	0.2	< 0.1	12.6	< 0.1	2.0	3.8	< 0.1
85	Willowherb species	0.3	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
86	Foxtail barley	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
87	Strawberry-blite	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
88	Wild radish	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
89	Poplar species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
90	Green tansy mustard	0.1	< 0.1	20.0	< 0.1	4.4	4.4	< 0.1
91	Bladder campion	0.1	< 0.1	30.0	< 0.1	2.2	2.2	< 0.1
92	Caraway	0.1	< 0.1	15.0	< 0.1	1.0	1.0	< 0.1
93	Aster species	0.1	< 0.1	10.0	< 0.1	1.2	1.2	< 0.1
94	Prickly lettuce	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
95	Giant ragweed	0.1	< 0.1	5.0	< 0.1	1.4	1.4	< 0.1
96	Wild rye/wheat grass species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
97	Marsh hedge-nettle	0.1	< 0.1	5.0	< 0.1	1.2	1.2	< 0.1
98	Wild chamomile	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
99	Timothy	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
100	Violet species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 1980s**

Table 126. 1980s Aspen Parkland Ecoregion (882 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	67.4	40.0	59.4	32.4	48.0	1592.6	70.4
2	Wild buckwheat	77.2	31.7	41.1	5.2	6.8	150.6	33.1
3	Wild oats	60.1	22.1	36.7	7.4	12.3	643.6	28.8
4	Stinkweed	46.7	14.7	31.5	4.3	9.2	238.4	19.4
5	Lamb's-quarters	39.6	10.7	27.1	2.3	5.7	140.0	13.8
6	Chickweed	14.7	7.4	50.3	5.9	40.5	978.2	13.3
7	Shepherd's-purse	21.0	6.6	31.5	4.1	19.4	988.0	11.4
8	Pale smartweed	28.9	8.9	30.8	2.0	6.8	96.4	11.0
9	Canada thistle	39.0	7.3	18.7	0.9	2.4	37.2	10.4
10	Wild mustard	22.8	5.0	21.9	0.6	2.8	43.4	6.5
11	Hemp-nettle	15.7	4.8	30.5	1.3	8.2	115.8	6.2
12	Perennial sow-thistle	23.2	3.8	16.5	0.4	1.9	35.2	5.8
13	Redroot pigweed	20.0	3.6	17.7	0.6	2.8	86.8	5.3
14	Russian thistle	16.4	3.3	19.9	0.8	5.1	93.0	5.0
15	Quack grass	14.6	2.9	19.9	0.9	6.2	105.0	4.7
16	Night-flowering catchfly	10.7	3.3	30.5	0.5	4.3	38.0	3.7
17	Canola/rapeseed	10.8	2.9	26.7	0.4	3.8	43.2	3.5
18	Bluebur	11.1	2.8	24.8	0.4	3.6	58.6	3.5
19	Common groundsel	7.2	1.8	25.2	1.2	16.5	596.2	3.4
20	Flax	2.6	2.0	75.7	1.3	50.4	234.0	3.0
21	Barley	8.1	2.4	29.4	0.4	4.9	61.8	2.8
22	Field horsetail	8.4	1.5	17.7	0.3	3.9	51.4	2.4
23	Narrow-leaved hawk's-beard	8.5	1.4	16.9	0.3	3.1	153.0	2.3
24	Rose species	10.8	1.0	9.5	0.1	0.9	3.8	2.2
25	Wheat	5.7	1.4	24.5	0.3	4.4	43.8	1.8
26	Flixweed	6.3	0.9	14.6	0.2	4.0	102.0	1.7
27	Corn spurry	4.1	1.3	31.8	0.3	8.5	71.6	1.7
28	Cleavers	5.3	1.2	22.3	0.2	3.9	48.6	1.6
29	Black medick	2.6	1.1	42.8	0.5	19.9	63.2	1.6
30	Cow cockle	4.9	1.1	21.9	0.2	3.3	31.4	1.4
31	Wild tomato	4.8	1.0	20.4	0.1	2.4	18.2	1.3
32	Dandelion	4.5	0.7	14.9	0.1	1.6	31.8	1.1
33	Tartary buckwheat	2.5	1.0	39.5	0.1	5.1	29.0	1.0
34	Pineappleweed	3.1	0.4	11.8	0.2	5.0	145.2	0.8
35	Wormseed mustard	2.5	0.5	21.0	0.1	5.1	66.4	0.8
36	Ball mustard	2.9	0.5	17.1	0.1	2.4	21.8	0.8
37	Yellow sweet-clover	2.2	0.5	21.8	0.1	5.6	62.2	0.7
38	Round-leaved mallow	2.2	0.5	21.5	0.1	5.6	43.0	0.7
39	Clover species	2.2	0.5	22.9	0.1	4.2	33.2	0.7
40	Dog mustard	2.1	0.5	23.8	0.1	3.9	48.6	0.6
41	White cockle	2.5	0.3	13.6	< 0.1	1.2	9.4	0.6
42	Alfalfa	1.5	0.4	24.3	0.1	4.9	40.8	0.5
43	Kochia	2.2	0.2	10.8	< 0.1	1.8	15.2	0.5
44	Barnyard grass	2.5	0.2	8.4	< 0.1	0.7	1.6	0.5
45	Spiny annual sow-thistle	1.9	0.3	16.2	< 0.1	1.5	20.4	0.5
46	Prostrate knotweed	1.8	0.2	13.9	< 0.1	2.2	10.8	0.4
47	Thyme-leaved spurge	1.3	0.4	29.4	< 0.1	2.5	8.8	0.4
48	Yellow toadflax	1.2	0.3	23.5	0.1	6.2	27.0	0.4
49	Broad-leaved plantain	1.2	0.2	13.1	0.1	5.2	68.6	0.3
50	Low cudweed	0.8	0.2	25.0	0.1	12.0	68.2	0.3
51	White mustard	0.3	0.2	72.2	0.1	28.1	49.4	0.3
52	Western snowberry	0.7	0.2	34.2	< 0.1	7.3	29.6	0.3
53	Biennial wormwood	1.0	0.2	17.3	< 0.1	2.2	18.2	0.3
54	American dragonhead	1.1	0.1	8.3	< 0.1	0.4	1.2	0.2

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Table 126. 1980s Aspen Parkland Ecoregion (882 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Povertyweed	0.5	0.2	30.3	0.1	10.9	21.8	0.2
56	Bladder campion	0.7	0.2	24.0	< 0.1	2.4	12.0	0.2
57	Russian pigweed	0.8	0.2	19.0	< 0.1	1.4	4.2	0.2
58	Prostrate pigweed	1.1	0.1	5.5	< 0.1	0.4	1.0	0.2
59	Water smartweed	1.0	0.1	5.6	< 0.1	1.2	3.0	0.2
60	Rye	0.6	0.1	23.1	< 0.1	1.5	1.6	0.2
61	Canary grass	0.3	0.1	33.6	0.1	15.0	39.0	0.2
62	Purslane speedwell	0.3	0.1	35.5	0.1	25.3	37.2	0.2
63	Rough cinquefoil	0.5	0.1	21.9	< 0.1	4.9	25.6	0.2
64	Prickly lettuce	0.8	0.1	7.7	< 0.1	0.5	2.2	0.1
65	Absinth	0.7	0.1	11.4	< 0.1	1.7	4.6	0.1
66	Common pepper-grass	0.5	0.1	16.9	< 0.1	5.0	29.2	0.1
67	Stork's-bill	0.6	0.1	15.2	< 0.1	1.3	6.2	0.1
68	Poplar species	0.6	0.1	15.3	< 0.1	1.0	2.4	0.1
69	Scentless chamomile	0.6	0.1	12.1	< 0.1	0.8	3.0	0.1
70	Northern bedstraw	0.6	< 0.1	5.0	< 0.1	0.4	0.8	0.1
71	Oats	0.4	0.1	18.1	< 0.1	1.4	2.8	0.1
72	Persian darnel	0.4	0.1	16.9	< 0.1	2.3	5.4	0.1
73	Vetch species	0.5	< 0.1	9.3	< 0.1	1.5	4.8	0.1
74	False flax species	0.4	0.1	16.5	< 0.1	1.2	3.2	0.1
75	Bicknell's geranium	0.4	0.1	18.3	< 0.1	0.7	1.6	0.1
76	Vetchling species	0.4	< 0.1	6.7	< 0.1	1.0	1.2	0.1
77	Foxtail barley	0.3	< 0.1	12.5	< 0.1	2.5	10.6	0.1
78	Henbit	0.3	0.1	24.1	< 0.1	2.1	4.8	0.1
79	Oak-leaved goosefoot	0.2	0.1	25.0	< 0.1	2.8	3.6	0.1
80	Knawel	0.3	< 0.1	11.1	< 0.1	0.6	2.0	0.1
81	Small bugloss	0.3	< 0.1	17.8	< 0.1	2.4	2.8	0.1
82	Blue grass species	0.3	< 0.1	11.1	< 0.1	2.1	4.0	0.1
83	Bird's-foot trefoil	0.1	0.1	75.0	< 0.1	11.8	11.8	0.1
84	Tumble pigweed	0.3	< 0.1	12.0	< 0.1	0.7	0.8	0.1
85	Milk-vetch species	0.4	< 0.1	5.0	< 0.1	0.3	0.4	0.1
86	Showy milkweed	0.3	< 0.1	6.7	< 0.1	0.4	0.6	0.1
87	Orchard grass	0.1	0.1	70.0	< 0.1	12.6	12.6	< 0.1
88	Skeletonweed	0.2	< 0.1	8.5	< 0.1	1.5	2.0	< 0.1
89	Manitoba maple	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
90	Poison suckleya	0.2	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
91	Golden-bean	0.1	< 0.1	30.0	< 0.1	11.6	11.6	< 0.1
92	Canada fleabane	0.1	< 0.1	70.0	< 0.1	7.2	7.2	< 0.1
93	Indian mustard	0.2	< 0.1	7.5	< 0.1	0.4	0.6	< 0.1
94	Field peas	0.1	< 0.1	15.0	< 0.1	1.0	1.0	< 0.1
95	Tumble mustard	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
96	Wild chamomile	0.1	< 0.1	40.0	< 0.1	6.6	6.6	< 0.1
97	Blueberry species	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
98	Crested wheat grass	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
99	Field mint	0.1	< 0.1	25.0	< 0.1	5.8	5.8	< 0.1
100	Field bindweed	0.1	< 0.1	15.0	< 0.1	0.8	0.8	< 0.1
101	Green tansy mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
102	False ragweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
103	Proso millet	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
104	Tall buttercup	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
105	Spear-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
106	Nightshade species	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
107	Pasture sage	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
108	Purslane	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 1980s**

Table 127. 1980s Fescue Grassland Ecoregion (91 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	67.9	30.4	44.8	14.2	20.9	216.0	65.3
2	Wild buckwheat	66.3	33.5	50.5	11.4	17.2	127.6	61.6
3	Green foxtail	10.4	4.1	39.4	8.9	85.6	508.2	23.1
4	Canada thistle	43.5	12.1	27.8	2.2	5.0	16.8	22.6
5	Lamb's-quarters	41.5	9.5	22.9	1.8	4.5	90.0	19.6
6	Wild oats	30.1	8.1	26.9	2.3	7.6	69.0	17.0
7	Shepherd's-purse	16.4	6.3	38.5	3.4	21.0	125.4	15.0
8	Redroot pigweed	24.8	5.7	22.8	0.9	3.6	25.4	11.3
9	Rose species	15.8	1.6	10.2	0.2	1.0	5.6	4.9
10	Wheat	5.8	2.7	47.0	0.6	9.6	27.2	4.3
11	Flixweed	13.4	1.4	10.4	0.1	0.9	4.2	4.2
12	Dandelion	12.6	1.4	11.5	0.1	1.2	5.8	4.1
13	Wild mustard	8.1	1.8	22.5	0.2	2.1	8.8	3.4
14	Alfalfa	6.3	1.8	29.2	0.3	5.1	26.8	3.3
15	Prostrate knotweed	10.9	1.1	9.9	0.1	0.8	3.8	3.3
16	Hemp-nettle	5.8	1.4	25.0	0.5	8.2	40.0	3.3
17	Quack grass	5.8	1.2	20.0	0.4	6.6	29.4	2.8
18	Barnyard grass	3.5	1.4	40.0	0.5	13.1	33.6	2.7
19	Tartary buckwheat	3.7	1.5	40.9	0.3	9.2	19.2	2.6
20	Cow cockle	2.3	1.5	65.0	0.5	21.6	27.0	2.6
21	Canola/rapeseed	5.8	1.1	19.0	0.2	4.3	20.2	2.5
22	Pale smartweed	9.2	0.6	6.9	< 0.1	0.5	0.8	2.5
23	Russian thistle	5.3	0.7	12.3	0.1	1.4	21.8	1.8
24	Bluebur	5.8	0.5	9.0	< 0.1	0.8	2.6	1.7
25	Round-leaved mallow	5.3	0.6	10.8	0.1	1.1	1.8	1.7
26	Wild tomato	4.0	0.3	8.5	< 0.1	0.3	0.4	1.1
27	Prostrate pigweed	2.3	0.3	12.5	0.2	7.8	13.8	1.1
28	Western snowberry	2.5	0.4	16.5	0.1	3.9	7.0	1.0
29	Barley	3.5	0.3	8.3	< 0.1	0.5	0.8	1.0
30	Rough cinquefoil	2.3	0.5	20.0	0.1	3.2	3.4	1.0
31	Thyme-leaved spurge	2.3	0.2	7.5	< 0.1	1.5	2.4	0.7
32	Perennial sow-thistle	2.3	0.2	7.5	< 0.1	0.6	1.0	0.7
33	Water smartweed	2.3	0.2	7.5	< 0.1	0.5	0.6	0.6
34	Field horsetail	2.3	0.1	5.0	< 0.1	0.4	0.6	0.6
35	Cleavers	1.8	0.2	11.8	< 0.1	1.1	1.4	0.6
36	Tumble pigweed	1.2	0.2	15.0	0.1	8.2	8.2	0.6
37	Oats	1.2	0.3	30.0	< 0.1	1.6	1.6	0.5
38	Clover species	1.2	0.2	15.0	< 0.1	1.0	1.0	0.4
39	Bladder campion	1.2	0.1	10.0	< 0.1	1.2	1.2	0.4
40	Smooth brome	1.2	0.1	10.0	< 0.1	1.0	1.0	0.4
41	Foxtail barley	1.2	0.1	10.0	< 0.1	0.4	0.4	0.3
42	Rye	1.2	0.1	5.0	< 0.1	0.8	0.8	0.3
43	Persian darnel	1.2	0.1	5.0	< 0.1	0.4	0.4	0.3
44	Common groundsel	1.2	0.1	5.0	< 0.1	0.2	0.2	0.3
45	Narrow-leaved hawk's-beard	1.2	0.1	5.0	< 0.1	0.2	0.2	0.3
46	Kochia	1.2	0.1	5.0	< 0.1	0.2	0.2	0.3
47	Yellow sweet-clover	0.7	0.2	25.0	< 0.1	1.8	1.8	0.3
48	Common pepper-grass	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
49	Vetch species	0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
50	Wood whitlow-grass	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 128. 1980s Moist Mixed Grassland Ecoregion (490 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	52.3	29.9	57.2	21.1	40.3	383.2	74.7
2	Wild buckwheat	69.0	23.9	34.6	5.3	7.7	166.0	43.0
3	Russian thistle	32.7	12.7	38.9	6.0	18.3	419.2	28.1
4	Stinkweed	43.2	12.4	28.7	3.9	9.1	162.8	26.3
5	Wild oats	42.8	11.0	25.6	3.0	6.9	187.4	23.2
6	Lamb's-quarters	29.2	7.3	25.1	2.5	8.7	194.0	16.7
7	Redroot pigweed	34.3	8.1	23.5	1.6	4.5	91.4	16.5
8	Kochia	11.0	3.7	33.6	1.0	8.9	122.4	7.0
9	Cow cockle	9.5	2.8	29.5	1.2	12.9	215.6	6.5
10	Flixweed	10.9	1.8	16.3	0.2	1.6	15.0	4.0
11	Rose species	12.2	1.3	10.8	0.1	1.2	10.6	3.9
12	Prostrate pigweed	10.2	1.7	16.7	0.2	1.9	8.8	3.9
13	Wild mustard	8.1	1.4	17.7	0.4	5.5	111.2	3.7
14	Canada thistle	9.6	1.4	14.4	0.2	2.1	15.4	3.5
15	Thyme-leaved spurge	5.8	2.1	35.7	0.3	4.8	17.4	3.3
16	Flax	1.6	1.0	59.6	1.0	65.3	281.6	3.1
17	Pale smartweed	6.3	1.3	20.0	0.3	5.5	61.8	3.0
18	Wheat	4.6	1.5	32.3	0.2	5.0	31.0	2.6
19	Canola/rapeseed	3.9	1.3	33.3	0.4	9.5	57.2	2.5
20	Barnyard grass	4.3	0.7	16.3	0.3	6.4	79.2	2.0
21	Bluebur	5.7	0.8	14.3	0.1	1.1	5.4	2.0
22	Shepherd's-purse	3.9	0.8	19.7	0.3	6.7	69.8	1.9
23	Prostrate knotweed	4.5	0.6	14.0	0.1	1.5	17.0	1.6
24	Barley	2.5	0.7	29.4	0.2	6.4	47.8	1.4
25	Quack grass	1.3	0.3	25.9	0.4	32.6	199.2	1.3
26	Persian darnel	2.4	0.3	12.7	0.2	7.9	46.0	1.1
27	Dandelion	2.9	0.3	9.7	< 0.1	0.8	2.8	0.9
28	Dock species	2.3	0.4	17.4	< 0.1	1.5	3.4	0.9
29	Round-leaved mallow	2.4	0.3	13.1	< 0.1	1.6	4.4	0.8
30	Narrow-leaved hawk's-beard	2.4	0.2	10.0	< 0.1	0.6	1.6	0.7
31	Tumble pigweed	1.4	0.4	28.7	0.1	5.0	16.6	0.7
32	Wild tomato	1.9	0.3	13.3	< 0.1	1.3	7.4	0.6
33	Night-flowering catchfly	1.7	0.3	16.6	< 0.1	1.0	2.8	0.6
34	California allocarya	0.6	0.2	25.6	0.2	24.8	62.0	0.6
35	Perennial sow-thistle	1.4	0.2	11.1	< 0.1	1.9	6.6	0.5
36	Biennial wormwood	1.6	0.1	8.1	< 0.1	0.4	1.4	0.5
37	Field horsetail	1.4	0.1	8.0	< 0.1	2.1	4.4	0.5
38	Hemp-nettle	1.5	0.1	8.3	< 0.1	1.3	3.0	0.4
39	Alfalfa	1.1	0.1	13.3	< 0.1	1.3	5.0	0.4
40	Water smartweed	1.1	0.1	10.0	< 0.1	1.3	3.8	0.3
41	White mustard	0.6	0.2	39.6	< 0.1	2.6	3.4	0.3
42	Purslane speedwell	1.0	0.1	9.1	< 0.1	0.4	0.6	0.3
43	Witch grass	0.6	0.2	27.2	< 0.1	2.3	5.8	0.3
44	Hare's-ear mustard	0.8	0.1	9.7	< 0.1	0.6	1.0	0.2
45	Common pepper-grass	0.9	0.1	7.7	< 0.1	0.4	0.6	0.2
46	Scentless chamomile	0.2	0.1	65.0	0.1	28.6	28.6	0.2
47	Corn spurry	0.5	0.1	22.5	< 0.1	2.0	5.8	0.2
48	Povertyweed	0.4	0.1	19.4	< 0.1	8.6	14.8	0.2
49	Oats	0.6	0.1	18.0	< 0.1	1.7	2.4	0.2
50	Redtop	0.5	0.1	11.6	< 0.1	1.8	3.8	0.2
51	Pygmyflower	0.4	0.1	20.3	< 0.1	3.3	5.4	0.2
52	Russian pigweed	0.5	0.1	10.0	< 0.1	0.5	0.6	0.2
53	Sedge species	0.2	0.1	35.0	< 0.1	12.4	12.4	0.1
54	Rye	0.4	0.1	17.5	< 0.1	1.1	2.0	0.1

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**Field Survey Summary Tables – 1980s**

Table 128. 1980s Moist Mixed Grassland Ecoregion (490 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Purslane	0.3	0.1	28.7	< 0.1	4.5	4.6	0.1
56	Western snowberry	0.4	< 0.1	10.4	< 0.1	0.5	0.6	0.1
57	Yellow sweet-clover	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
58	Spear-leaved goosefoot	0.4	< 0.1	5.0	< 0.1	0.7	1.2	0.1
59	Ball mustard	0.3	< 0.1	15.0	< 0.1	0.8	0.8	0.1
60	Foxtail barley	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
61	Yellow toadflax	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
62	White cockle	0.2	< 0.1	20.0	< 0.1	2.4	2.4	0.1
63	Low cudweed	0.2	< 0.1	20.0	< 0.1	1.4	1.4	0.1
64	Wood-sorrel species	0.2	< 0.1	10.0	< 0.1	2.0	2.0	0.1
65	Sunflower species	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
66	Green tansy mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Milk-vetch species	0.2	< 0.1	10.0	< 0.1	2.2	2.2	0.1
68	Skeletonweed	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
69	Broad-leaved plantain	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
70	Rough cinquefoil	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
71	Prickly lettuce	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
72	Pussytoes species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
73	Pasture sage	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
74	Stork's-bill	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
75	Common groundsel	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
76	Vetch species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
77	Wood whitlow-grass	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
78	Field bindweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 129. 1980s Mixed Grassland Ecoregion (396 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Russian thistle	45.4	18.6	41.0	8.9	19.5	518.4	56.8
2	Green foxtail	33.8	15.4	45.6	7.8	23.0	190.8	47.5
3	Wild buckwheat	51.8	13.3	25.6	1.8	3.5	192.8	30.8
4	Redroot pigweed	47.8	11.3	23.7	2.5	5.2	417.6	30.2
5	Wild oats	45.5	10.3	22.6	2.5	5.4	120.4	28.5
6	Stinkweed	31.1	7.0	22.6	2.1	6.6	108.2	20.7
7	Cow cockle	20.4	5.3	26.0	1.5	7.5	102.0	14.8
8	Lamb's-quarters	19.2	3.6	18.8	1.0	5.5	233.8	11.4
9	Kochia	17.4	4.1	23.4	0.8	4.4	98.0	10.5
10	Prostrate pigweed	13.1	2.3	17.8	0.4	3.0	44.4	6.6
11	Flixweed	15.5	2.2	13.9	0.1	1.0	8.0	6.3
12	Thyme-leaved spurge	9.0	2.4	26.3	0.4	4.7	30.6	5.7
13	Tumble pigweed	8.6	2.3	26.2	0.2	2.3	11.0	4.8
14	Persian darnel	3.4	0.9	27.2	0.2	5.3	17.2	2.3
15	Wild mustard	4.5	0.6	14.1	0.1	2.8	40.2	2.1
16	Barnyard grass	3.7	0.6	15.3	0.1	3.6	27.6	1.9
17	Rose species	4.8	0.4	8.8	< 0.1	0.8	4.4	1.7
18	Wheat	3.0	0.6	19.5	0.1	3.0	25.4	1.6
19	Canada thistle	3.1	0.4	12.3	0.1	1.9	13.8	1.3
20	Prostrate knotweed	2.9	0.3	11.7	0.1	1.9	12.8	1.2

*(Table continued on next page)*

Table 129. 1980s Mixed Grassland Ecoregion (396 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
21	Wild tomato	3.3	0.3	10.3	< 0.1	0.8	3.0	1.2
22	Field bindweed	1.3	0.5	40.2	0.1	7.6	26.0	1.1
23	Pale smartweed	1.5	0.5	33.6	< 0.1	3.2	13.2	1.0
24	Bluebur	1.7	0.3	18.8	< 0.1	1.9	7.0	0.8
25	Shepherd's-purse	1.6	0.3	16.3	< 0.1	1.3	4.4	0.7
26	Biennial wormwood	1.4	0.2	12.7	0.1	4.1	15.4	0.7
27	Skeletonweed	1.7	0.1	8.1	< 0.1	0.7	2.0	0.6
28	Common pepper-grass	1.3	0.2	12.5	< 0.1	1.4	6.2	0.5
29	Perennial sow-thistle	1.3	0.1	10.7	< 0.1	0.7	1.0	0.5
30	Field horsetail	0.6	0.1	18.3	0.1	9.2	20.0	0.4
31	Water smartweed	0.4	0.1	20.0	0.1	26.2	26.2	0.4
32	Tumble mustard	1.4	0.1	7.0	< 0.1	0.3	0.4	0.4
33	Round-leaved mallow	1.3	0.1	7.7	< 0.1	0.4	0.8	0.4
34	Green tansy mustard	1.1	0.1	11.9	< 0.1	0.6	0.8	0.4
35	Spear-leaved goosefoot	0.5	0.2	33.2	< 0.1	1.9	3.0	0.3
36	Flax	0.8	0.1	7.1	< 0.1	0.8	1.4	0.3
37	Alfalfa	0.7	< 0.1	6.6	< 0.1	0.3	0.4	0.2
38	Russian pigweed	0.5	0.1	15.0	< 0.1	1.2	1.8	0.2
39	Sunflower species	0.7	0.1	7.5	< 0.1	0.3	0.4	0.2
40	Clover species	0.5	0.1	12.4	< 0.1	1.5	1.6	0.2
41	Pasture sage	0.5	0.1	13.0	< 0.1	0.5	0.8	0.2
42	Dock species	0.4	< 0.1	10.0	< 0.1	6.2	6.2	0.2
43	Foxtail barley	0.6	< 0.1	7.5	< 0.1	0.3	0.4	0.2
44	Scarlet gaura	0.5	< 0.1	10.0	< 0.1	0.8	0.8	0.2
45	Yellow sweet-clover	0.3	0.1	25.0	< 0.1	1.8	1.8	0.1
46	Corn spurry	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
47	Poison suckleya	0.4	< 0.1	7.1	< 0.1	0.7	1.0	0.1
48	Atriplex species	0.2	0.1	30.0	< 0.1	1.8	1.8	0.1
49	Povertyweed	0.3	< 0.1	10.0	< 0.1	2.6	2.6	0.1
50	Marsh hedge-nettle	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
51	Stork's-bill	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
52	Willowherb species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
53	Vetch species	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
54	Oak-leaved goosefoot	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
55	Showy milkweed	0.3	< 0.1	5.0	< 0.1	2.0	2.0	0.1
56	Prickly lettuce	0.2	< 0.1	10.0	< 0.1	0.8	0.8	0.1
57	Tartary buckwheat	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
58	Canola/rapeseed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
59	Five-hooked bassia	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
60	Blue lettuce	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
61	Hare's-ear mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
62	Gray tansy mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
63	Barley	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
64	Needle-and-thread	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
65	Purslane	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
66	Golden-bean	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
67	Western snowberry	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
68	Oats	< 0.1	< 0.1	20.0	< 0.1	3.6	3.6	< 0.1
69	Narrow-leaved goosefoot	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
70	Narrow-leaved hawk's-beard	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
71	Downy brome	< 0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1

**Field Survey Summary Tables – 1980s**

Table 130. 1980s Lake Manitoba Plain Ecoregion (171 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	79.5	42.4	53.4	20.7	26.0	743.0	73.9
2	Wild buckwheat	67.5	21.7	32.1	2.7	4.0	69.6	26.5
3	Wild mustard	65.9	19.0	28.8	2.8	4.3	65.4	25.1
4	Pale smartweed	57.9	16.9	29.3	2.8	4.8	56.6	22.8
5	Wild oats	58.0	15.6	26.8	2.5	4.4	58.8	21.7
6	Redroot pigweed	49.6	14.6	29.5	2.8	5.6	75.2	20.4
7	Lamb's-quarters	37.9	8.7	23.0	1.8	4.7	66.8	13.7
8	Flax	13.8	7.8	56.5	3.7	27.0	127.4	13.3
9	Canada thistle	36.4	7.8	21.6	0.9	2.4	17.2	11.3
10	Perennial sow-thistle	25.9	5.7	21.9	0.9	3.6	58.2	8.6
11	Quack grass	13.1	3.9	29.7	1.7	12.8	55.2	7.2
12	Stinkweed	18.5	3.3	17.7	0.4	2.1	14.6	5.2
13	Dog mustard	7.1	3.7	52.3	1.0	14.1	69.2	4.9
14	Thyme-leaved spurge	11.3	2.8	25.2	0.4	3.7	31.0	4.0
15	Wheat	7.4	2.7	36.8	0.5	7.3	34.0	3.6
16	Ball mustard	0.9	0.8	85.0	1.3	137.8	137.8	3.0
17	Hemp-nettle	7.0	1.9	26.7	0.4	5.1	35.2	2.7
18	Cleavers	2.5	2.0	79.3	0.7	26.2	51.4	2.7
19	Field horsetail	5.9	1.4	24.2	0.5	8.0	45.8	2.6
20	Chickweed	2.9	0.9	32.4	0.8	26.8	75.4	2.5
21	Round-leaved mallow	6.7	1.9	28.6	0.2	3.1	17.2	2.4
22	Night-flowering catchfly	5.4	1.8	33.1	0.3	4.8	20.0	2.2
23	Russian thistle	7.2	1.2	16.7	0.1	2.0	12.8	2.0
24	Barley	6.0	1.2	20.7	0.2	3.5	20.0	2.0
25	Barnyard grass	7.2	1.0	13.4	0.1	2.0	11.4	1.9
26	Kochia	3.7	0.8	21.5	0.2	4.1	18.2	1.3
27	White cockle	3.3	0.7	21.8	0.2	5.2	35.8	1.2
28	Shepherd's-purse	3.4	0.9	26.0	0.1	3.4	7.2	1.2
29	Yellow foxtail	2.7	0.8	30.3	0.1	4.7	10.0	1.1
30	Bluebur	3.1	0.4	12.6	< 0.1	1.1	7.0	0.7
31	Corn spurry	1.1	0.6	52.3	0.1	13.2	27.4	0.7
32	Purslane	2.7	0.4	15.5	0.1	2.1	7.2	0.7
33	Water smartweed	3.0	0.2	6.9	0.1	1.8	4.6	0.7
34	Corn	1.8	0.6	32.5	< 0.1	1.3	2.2	0.6
35	Showy milkweed	3.1	0.2	8.0	< 0.1	0.6	1.2	0.6
36	Canola/rapeseed	1.4	0.3	22.6	< 0.1	1.8	2.4	0.4
37	American dragonhead	1.7	0.2	13.4	< 0.1	0.6	1.2	0.4
38	Red goosefoot	0.6	0.3	60.0	0.1	9.6	9.6	0.4
39	Sunflower species	0.9	0.3	35.0	< 0.1	2.2	2.2	0.3
40	Field bindweed	1.6	0.2	10.5	< 0.1	0.5	1.0	0.3
41	Dock species	1.3	0.1	10.0	< 0.1	1.4	1.6	0.3
42	Vetch species	1.5	0.1	5.0	< 0.1	0.3	0.4	0.3
43	Bicknell's geranium	1.4	0.1	7.1	< 0.1	0.3	0.4	0.3
44	Dandelion	1.2	0.1	7.5	< 0.1	0.4	0.4	0.2
45	Black medick	0.9	< 0.1	5.0	< 0.1	1.0	1.0	0.2
46	Witch grass	0.6	0.1	25.0	< 0.1	1.6	1.6	0.2
47	Common groundsel	0.6	0.1	20.0	< 0.1	0.8	0.8	0.2
48	Prostrate knotweed	0.7	0.1	11.7	< 0.1	0.5	1.2	0.2
49	Proso millet	0.2	0.1	60.0	< 0.1	11.0	11.0	0.2
50	Bladder campion	0.6	0.1	15.0	< 0.1	0.6	0.6	0.1
51	Tartary buckwheat	0.6	0.1	15.0	< 0.1	0.8	0.8	0.1
52	Giant ragweed	0.6	0.1	15.0	< 0.1	0.8	0.8	0.1
53	Rough cinquefoil	0.5	0.1	20.0	< 0.1	1.0	1.0	0.1
54	Stork's-bill	0.7	< 0.1	5.9	< 0.1	0.6	0.6	0.1

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Table 130. 1980s Lake Manitoba Plain Ecoregion (171 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Alfalfa	0.5	0.1	20.0	< 0.1	0.8	0.8	0.1
56	Clover species	0.6	0.1	10.0	< 0.1	0.4	0.4	0.1
57	Foxtail barley	0.6	< 0.1	5.0	< 0.1	1.0	1.0	0.1
58	Vetchling species	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
59	Prostrate pigweed	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
60	Rose species	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
61	Common ragweed	0.4	< 0.1	5.0	< 0.1	0.6	0.6	0.1
62	Broad-leaved plantain	0.1	< 0.1	15.0	< 0.1	0.6	0.6	< 0.1

Table 131. 1980s Interlake Plain Ecoregion (85 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	75.6	34.4	45.6	8.9	11.8	150.6	36.6
2	Green foxtail	61.6	31.6	51.2	8.1	13.1	164.2	32.5
3	Wild buckwheat	81.3	34.0	41.8	5.4	6.7	62.6	30.7
4	Pale smartweed	75.0	23.6	31.4	3.0	3.9	21.0	21.8
5	Wild mustard	63.5	19.2	30.3	3.6	5.6	52.6	20.1
6	Canada thistle	68.7	20.1	29.3	2.2	3.1	21.6	18.4
7	Lamb's-quarters	52.0	14.6	28.1	1.7	3.2	75.0	13.8
8	Night-flowering catchfly	40.6	12.8	31.5	1.9	4.7	27.6	12.4
9	Perennial sow-thistle	52.3	12.1	23.2	1.0	1.9	11.8	11.8
10	Hemp-nettle	33.4	11.0	33.0	2.0	6.1	50.4	11.2
11	Redroot pigweed	48.0	9.0	18.7	1.2	2.4	37.6	10.4
12	Flax	6.4	3.2	50.2	4.6	72.9	257.8	10.3
13	Stinkweed	35.0	7.4	21.2	0.8	2.4	52.2	7.9
14	Chickweed	13.6	3.3	24.4	2.1	15.1	110.0	6.4
15	Field horsetail	23.2	4.3	18.7	0.5	2.0	6.6	4.9
16	Quack grass	14.5	4.7	32.1	0.9	6.2	19.2	4.8
17	White cockle	9.8	3.7	38.2	1.1	11.2	46.4	4.4
18	Barnyard grass	16.7	3.3	19.6	0.8	4.7	32.0	4.4
19	Mouse-eared chickweed	2.4	0.7	30.0	1.9	81.4	162.0	4.0
20	Cleavers	13.8	3.2	23.6	0.4	2.8	13.8	3.3
21	Narrow-leaved hawk's-beard	6.6	2.2	33.8	0.2	2.7	7.6	1.8
22	Barley	10.3	1.5	14.8	0.1	0.8	4.2	1.8
23	Broad-leaved plantain	7.7	1.4	18.8	0.2	2.6	10.8	1.7
24	Wheat	7.1	1.5	20.8	0.2	3.2	16.6	1.7
25	Dandelion	9.9	1.2	12.0	0.1	1.0	2.0	1.7
26	Bluebur	6.9	1.5	21.8	0.2	2.8	22.6	1.6
27	Clover species	6.9	1.6	23.9	0.2	2.4	5.6	1.6
28	American dragonhead	6.2	1.6	26.0	0.1	2.3	10.0	1.5
29	Alfalfa	6.3	1.3	21.3	0.1	1.5	3.4	1.3
30	Round-leaved mallow	5.6	1.2	21.1	0.1	1.8	3.4	1.2
31	Wormseed mustard	2.3	1.6	72.7	0.2	8.7	9.4	1.2
32	Flixweed	5.0	1.2	25.1	0.1	1.4	3.2	1.1
33	Vetch species	7.4	0.4	5.2	< 0.1	0.2	0.6	1.0
34	Bladder campion	1.6	1.0	60.0	0.2	14.4	14.4	0.9
35	Bicknell's geranium	3.6	0.8	23.3	0.1	1.5	3.8	0.8
36	Dog mustard	1.6	1.0	60.0	0.1	8.8	8.8	0.8

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**Field Survey Summary Tables – 1980s**

Table 131. 1980s Interlake Plain Ecoregion (85 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
37	Showy milkweed	2.7	0.7	25.0	0.1	4.4	4.4	0.8
38	Field peas	2.4	0.6	25.0	0.1	5.3	10.4	0.7
39	Manitoba maple	4.0	0.6	15.0	< 0.1	0.7	1.0	0.7
40	Stork's-bill	4.5	0.2	5.0	< 0.1	0.2	0.2	0.6
41	Prostrate knotweed	3.2	0.5	14.4	< 0.1	0.7	1.0	0.5
42	Canola/rapeseed	3.0	0.4	12.6	< 0.1	0.5	0.6	0.5
43	Pineappleweed	2.0	0.5	25.0	< 0.1	1.8	1.8	0.5
44	Spiny annual sow-thistle	2.7	0.3	10.0	< 0.1	0.8	0.8	0.4
45	Yellow foxtail	2.7	0.3	10.0	< 0.1	0.6	0.6	0.4
46	Biennial campion	1.6	0.2	15.0	0.1	4.2	4.2	0.4
47	Common ragweed	2.7	0.1	5.0	< 0.1	0.2	0.2	0.4
48	Rose species	1.2	0.5	40.0	< 0.1	2.6	2.6	0.4
49	Ground-ivy	2.0	0.3	15.0	< 0.1	0.6	0.6	0.3
50	Rough cinquefoil	1.7	0.3	15.0	< 0.1	1.1	3.2	0.3
51	Ball mustard	2.0	0.1	5.0	< 0.1	0.2	0.2	0.3
52	Shepherd's-purse	2.0	0.1	5.0	< 0.1	0.2	0.2	0.3
53	Black medick	1.4	0.1	5.0	< 0.1	0.4	0.4	0.2
54	Water smartweed	1.2	0.1	10.0	< 0.1	0.6	0.6	0.2
55	Foxtail barley	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
56	Prostrate pigweed	0.8	0.1	16.7	< 0.1	1.8	4.2	0.2
57	Cow cockle	0.5	0.1	17.5	< 0.1	2.6	5.0	0.1
58	Yellow sweet-clover	0.5	< 0.1	7.5	< 0.1	0.5	0.6	0.1
59	Blue grass species	0.3	0.1	20.0	< 0.1	3.0	3.0	0.1
60	Common pepper-grass	0.3	< 0.1	15.0	< 0.1	1.0	1.0	< 0.1

Table 132. 1980s Spring wheat (1549 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	55.7	32.3	58.1	23.0	41.3	1592.6	72.9
2	Wild buckwheat	69.5	24.3	34.9	4.0	5.8	231.0	35.1
3	Wild oats	53.2	16.8	31.6	5.3	10.0	643.6	30.0
4	Russian thistle	26.6	9.2	34.6	3.9	14.6	518.4	17.8
5	Stinkweed	37.8	9.5	25.1	2.4	6.4	238.4	17.2
6	Redroot pigweed	33.1	7.1	21.3	1.3	3.8	417.6	12.7
7	Lamb's-quarters	29.4	6.5	22.0	1.2	4.0	135.2	11.5
8	Pale smartweed	16.3	4.2	25.8	0.9	5.4	96.4	7.2
9	Canada thistle	20.9	3.9	18.8	0.5	2.5	21.0	7.1
10	Shepherd's-purse	10.9	3.1	28.5	1.4	13.1	231.0	6.5
11	Wild mustard	17.5	3.5	20.0	0.5	2.7	111.2	6.2
12	Cow cockle	10.4	2.7	25.9	0.9	8.4	215.6	5.2
13	Perennial sow-thistle	13.3	2.3	17.5	0.3	2.3	58.2	4.4
14	Flax	3.1	2.0	63.7	1.3	42.9	281.6	4.3
15	Chickweed	5.1	1.9	36.3	0.9	17.1	224.2	3.7
16	Hemp-nettle	7.4	2.0	27.3	0.5	7.3	248.2	3.6
17	Bluebur	8.6	2.0	23.0	0.3	3.3	58.6	3.3
18	Kochia	8.2	2.0	24.1	0.3	3.7	71.6	3.3
19	Canola/rapeseed	6.4	1.8	28.7	0.4	5.5	74.2	3.0
20	Field horsetail	6.3	1.5	23.9	0.4	7.1	93.8	2.9
21	Flixweed	8.7	1.2	13.4	0.1	1.2	22.4	2.5
22	Night-flowering catchfly	6.1	1.6	25.7	0.2	3.5	57.6	2.5
23	Rose species	9.2	0.9	9.9	0.1	1.0	10.6	2.4
24	Prostrate pigweed	7.1	1.2	16.2	0.2	2.1	16.2	2.3
25	Quack grass	5.4	0.9	16.3	0.4	7.2	199.2	2.2
26	Thyme-leaved spurge	4.8	1.3	27.4	0.2	3.9	30.6	2.0
27	Narrow-leaved hawk's-beard	4.9	1.0	20.5	0.2	3.5	119.6	1.8
28	Common groundsel	3.8	1.1	29.8	0.2	6.1	118.2	1.8
29	Cleavers	4.0	1.0	25.5	0.2	5.2	51.4	1.7
30	Barley	3.9	0.8	21.3	0.1	2.7	61.8	1.4
31	Barnyard grass	3.8	0.6	16.0	0.1	3.3	38.4	1.3
32	Dandelion	4.2	0.7	15.9	0.1	1.5	20.0	1.3
33	Tumble pigweed	2.8	0.7	25.8	0.1	2.8	16.6	1.1
34	Clover species	1.6	0.6	34.1	0.2	11.5	104.6	1.0
35	Prostrate knotweed	3.0	0.4	14.0	0.1	1.8	17.0	0.9
36	Round-leaved mallow	2.6	0.5	18.0	0.1	3.3	43.0	0.9
37	Corn spurry	1.6	0.5	29.8	0.1	8.6	124.8	0.8
38	Wheat	1.9	0.5	28.9	0.1	4.4	31.0	0.8
39	Wild tomato	2.6	0.4	14.0	< 0.1	1.5	12.4	0.8
40	Black medick	1.0	0.3	31.5	0.2	21.7	216.4	0.8
41	Persian darnel	1.5	0.4	23.7	0.1	7.7	46.0	0.7
42	Pineappleweed	2.0	0.3	17.5	< 0.1	2.2	25.0	0.6
43	Ball mustard	2.0	0.3	15.1	< 0.1	2.1	21.8	0.6
44	Dog mustard	1.1	0.4	32.2	0.1	7.4	69.2	0.6
45	Yellow sweet-clover	1.4	0.2	15.3	0.1	4.1	155.2	0.5
46	Alfalfa	1.2	0.3	23.8	< 0.1	3.8	39.2	0.5
47	Biennial wormwood	1.7	0.2	12.4	< 0.1	1.9	15.4	0.5
48	White cockle	1.1	0.2	21.1	< 0.1	4.0	46.4	0.4
49	American dragonhead	1.2	0.2	15.9	< 0.1	1.1	6.6	0.4
50	Purslane speedwell	0.5	0.1	25.4	0.1	22.1	161.6	0.4
51	Water smartweed	1.0	0.1	10.6	< 0.1	4.2	26.2	0.3
52	Tartary buckwheat	0.7	0.2	32.1	< 0.1	4.2	12.8	0.3
53	Dock species	0.9	0.2	18.4	< 0.1	2.2	8.0	0.3
54	Wormseed mustard	0.7	0.1	17.4	< 0.1	1.5	9.4	0.2

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**Field Survey Summary Tables – 1980s Barley**

Table 132. 1980s Spring wheat (1549 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Field bindweed	0.5	0.1	30.8	< 0.1	5.5	26.0	0.2
56	Broad-leaved plantain	0.8	0.1	12.2	< 0.1	1.2	10.8	0.2
57	Yellow toadflax	0.5	0.1	22.0	< 0.1	7.2	27.0	0.2
58	Rough cinquefoil	0.3	0.1	29.5	0.1	21.6	116.2	0.2
59	White mustard	0.3	0.1	39.5	< 0.1	17.1	49.4	0.2
60	Common pepper-grass	0.7	0.1	10.0	< 0.1	0.9	6.2	0.2
61	California allocarya	0.2	0.1	25.6	0.1	24.8	62.0	0.2
62	Russian pigweed	0.6	0.1	11.5	< 0.1	0.7	1.8	0.2
63	Stork's-bill	0.6	0.1	13.9	< 0.1	1.4	8.8	0.2
64	Scentless chamomile	0.4	0.1	17.7	< 0.1	5.3	28.6	0.2
65	Bladder campion	0.4	0.1	27.1	< 0.1	2.8	14.4	0.2
66	Rye	0.4	0.1	25.8	< 0.1	1.7	2.0	0.1
67	Green tansy mustard	0.5	< 0.1	10.1	< 0.1	0.7	4.4	0.1
68	Absinth	0.4	< 0.1	10.8	< 0.1	1.6	4.6	0.1
69	Vetch species	0.4	< 0.1	10.3	< 0.1	1.0	6.0	0.1
70	Foxtail barley	0.5	< 0.1	5.4	< 0.1	0.3	0.6	0.1
71	Tumble mustard	0.4	< 0.1	7.6	< 0.1	0.3	0.4	0.1
72	Oats	0.3	0.1	16.5	< 0.1	1.4	3.6	0.1
73	Sunflower species	0.3	< 0.1	13.4	< 0.1	0.8	2.2	0.1
74	Skeletonweed	0.4	< 0.1	8.4	< 0.1	0.6	2.0	0.1
75	Milk-vetch species	0.4	< 0.1	8.8	< 0.1	0.8	2.2	0.1
76	Western snowberry	0.3	< 0.1	13.9	< 0.1	1.2	2.0	0.1
77	Hare's-ear mustard	0.3	< 0.1	10.0	< 0.1	0.6	1.0	0.1
78	Prickly lettuce	0.3	< 0.1	8.7	< 0.1	0.6	2.2	0.1
79	Spiny annual sow-thistle	0.3	< 0.1	12.6	< 0.1	0.8	1.8	0.1
80	Witch grass	0.2	0.1	27.2	< 0.1	2.3	5.8	0.1
81	Willowherb species	0.3	< 0.1	9.3	< 0.1	0.7	3.0	0.1
82	Povertyweed	0.3	< 0.1	7.6	< 0.1	1.2	2.6	0.1
83	Low cudweed	0.2	< 0.1	15.8	< 0.1	2.0	4.2	0.1
84	Vetchling species	0.3	< 0.1	7.0	< 0.1	0.6	1.2	0.1
85	Purslane	0.2	< 0.1	18.7	< 0.1	2.7	7.2	0.1
86	False flax species	0.2	< 0.1	16.5	< 0.1	1.2	3.2	0.1
87	Spear-leaved goosefoot	0.2	< 0.1	23.8	< 0.1	1.7	3.0	0.1
88	Showy milkweed	0.3	< 0.1	7.0	< 0.1	0.4	0.6	0.1
89	Northern bedstraw	0.3	< 0.1	5.0	< 0.1	0.3	0.8	0.1
90	Blue grass species	0.2	< 0.1	15.6	< 0.1	3.1	5.8	0.1
91	Poplar species	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
92	Poison suckleya	0.2	< 0.1	8.5	< 0.1	0.5	1.0	0.1
93	Pygmyflower	0.1	< 0.1	20.3	< 0.1	3.3	5.4	0.1
94	Pasture sage	0.2	< 0.1	10.4	< 0.1	0.4	0.8	0.1
95	Sedge species	0.1	< 0.1	27.0	< 0.1	9.2	12.4	< 0.1
96	Bicknell's geranium	0.2	< 0.1	6.9	< 0.1	0.3	0.4	< 0.1
97	Small bugloss	0.1	< 0.1	17.8	< 0.1	2.4	2.8	< 0.1
98	Common yarrow	0.2	< 0.1	5.0	< 0.1	0.7	2.0	< 0.1
99	Bird's-foot trefoil	0.1	< 0.1	75.0	< 0.1	11.8	11.8	< 0.1
100	Corn	0.1	< 0.1	55.0	< 0.1	2.2	2.2	< 0.1
101	Yellow foxtail	0.2	< 0.1	15.2	< 0.1	1.0	1.8	< 0.1
102	Mouse-eared chickweed	< 0.1	< 0.1	95.0	< 0.1	46.0	46.0	< 0.1
103	Smooth brome	0.2	< 0.1	8.6	< 0.1	0.7	1.4	< 0.1
104	Oak-leaved goosefoot	0.2	< 0.1	9.4	< 0.1	1.0	2.0	< 0.1
105	Henbit	0.1	< 0.1	36.7	< 0.1	4.6	6.6	< 0.1
106	Wood whitlow-grass	0.1	< 0.1	12.7	< 0.1	1.9	3.6	< 0.1
107	Orchard grass	< 0.1	< 0.1	70.0	< 0.1	12.6	12.6	< 0.1
108	Golden corydalis	0.1	< 0.1	25.1	< 0.1	3.2	5.6	< 0.1

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Table 132. 1980s Spring wheat (1549 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
109	Redtop	0.1	< 0.1	12.5	< 0.1	0.6	0.8	< 0.1
110	Scarlet gaura	0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
111	Manitoba maple	0.1	< 0.1	15.0	< 0.1	0.7	1.0	< 0.1
112	Wild chamomile	0.1	< 0.1	26.2	< 0.1	4.1	6.6	< 0.1
113	Atriplex species	0.1	< 0.1	30.0	< 0.1	1.8	1.8	< 0.1
114	Common ragweed	0.1	< 0.1	5.0	< 0.1	0.3	0.6	< 0.1
115	Marsh hedge-nettle	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
116	Nodding thistle	0.1	< 0.1	15.0	< 0.1	2.6	2.6	< 0.1
117	Field peas	< 0.1	< 0.1	45.0	< 0.1	10.4	10.4	< 0.1
118	Wood-sorrel species	0.1	< 0.1	10.0	< 0.1	2.0	2.0	< 0.1
119	Blueberry species	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
120	Avens species	< 0.1	< 0.1	30.0	< 0.1	2.6	2.6	< 0.1
121	Field mint	0.1	< 0.1	5.0	< 0.1	0.6	1.4	< 0.1
122	Five-hooked bassia	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
123	False ragweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
124	Blue lettuce	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
125	Ground-ivy	< 0.1	< 0.1	15.0	< 0.1	0.6	0.6	< 0.1
126	Pussytoes species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
127	Biennial campion	< 0.1	< 0.1	15.0	< 0.1	4.2	4.2	< 0.1
128	Proso millet	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
129	Gray tansy mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
130	Indian mustard	< 0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
131	Needle-and-thread	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
132	Wild radish	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
133	Wild strawberry	< 0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
134	Slough grass	< 0.1	< 0.1	10.0	< 0.1	5.8	5.8	< 0.1
135	Tall buttercup	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
136	Aster species	< 0.1	< 0.1	10.0	< 0.1	1.2	2.2	< 0.1
137	Fescue species	< 0.1	< 0.1	15.0	< 0.1	1.2	1.2	< 0.1
138	Palmate-leaved colt's-foot	< 0.1	< 0.1	35.0	< 0.1	2.4	2.4	< 0.1
139	Giant ragweed	< 0.1	< 0.1	5.0	< 0.1	1.4	1.4	< 0.1
140	Golden-bean	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
141	Wild red raspberry	< 0.1	< 0.1	25.0	< 0.1	1.2	1.2	< 0.1
142	Timothy	< 0.1	< 0.1	15.0	< 0.1	1.6	1.6	< 0.1
143	Goldenrod species	< 0.1	< 0.1	10.0	< 0.1	1.0	1.0	< 0.1
144	Low bush-cranberry	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
145	Downy brome	< 0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1

**Field Survey Summary Tables – 1980s Barley**

Table 133. 1980s Spring wheat in the Peace Lowland Ecoregion (57 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	77.0	36.6	47.5	14.1	18.3	241.2	33.5
2	Stinkweed	84.8	35.4	41.7	13.1	15.4	134.0	32.7
3	Wild buckwheat	83.2	34.7	41.7	9.7	11.6	231.0	28.7
4	Field horsetail	79.8	31.3	39.2	10.8	13.5	93.8	28.5
5	Clover species	46.6	19.8	42.4	8.0	17.2	104.6	19.0
6	Common groundsel	53.5	17.6	32.8	5.3	9.8	118.2	15.9
7	Bluebur	62.7	18.7	29.8	2.7	4.4	31.6	14.4
8	Lamb's-quarters	58.7	14.2	24.2	2.9	4.9	37.4	12.7
9	Perennial sow-thistle	52.1	13.8	26.5	2.8	5.4	26.6	12.0
10	Narrow-leaved hawk's-beard	45.8	10.9	23.7	3.2	7.0	119.6	10.9
11	Dandelion	48.9	10.2	20.8	1.0	2.1	20.0	8.6
12	Shepherd's-purse	28.5	5.0	17.6	2.9	10.1	120.0	7.2
13	Canola/rapeseed	30.8	7.0	22.8	1.6	5.3	74.2	6.7
14	Cleavers	27.0	6.5	24.1	1.9	7.0	30.6	6.5
15	Hemp-nettle	25.3	5.0	19.7	2.3	9.1	107.4	6.3
16	Pale smartweed	36.8	5.4	14.6	1.2	3.2	68.6	6.2
17	Ball mustard	32.8	4.4	13.5	0.3	1.0	4.8	4.6
18	Canada thistle	25.5	4.7	18.4	0.7	2.8	8.6	4.5
19	Yellow sweet-clover	5.4	1.9	35.6	2.6	48.1	155.2	3.9
20	Pineappleweed	16.2	2.2	13.8	1.1	7.0	25.0	3.3
21	Barley	18.2	3.1	16.8	0.4	2.4	24.2	3.0
22	Rose species	20.8	2.5	12.2	0.3	1.6	5.6	3.0
23	Quack grass	16.9	2.6	15.4	0.5	3.2	18.8	2.9
24	Alfalfa	12.3	3.2	25.7	0.3	2.8	8.0	2.5
25	Stork's-bill	9.7	2.1	21.6	0.3	2.8	8.8	1.8
26	Vetch species	8.1	1.6	20.1	0.2	2.3	6.0	1.4
27	Common yarrow	11.9	0.6	5.0	0.1	0.7	2.0	1.3
28	Willowherb species	8.8	1.2	13.3	0.1	1.1	3.0	1.2
29	Broad-leaved plantain	10.5	0.8	7.6	< 0.1	0.4	1.0	1.2
30	Round-leaved mallow	2.3	1.2	50.0	0.6	25.8	25.8	1.2
31	Yellow toadflax	5.2	1.1	20.9	0.4	7.3	13.4	1.2
32	Chickweed	9.1	0.7	8.0	0.1	0.7	2.2	1.1
33	Redroot pigweed	7.1	1.0	13.8	0.1	1.2	3.0	1.0
34	Milk-vetch species	7.1	0.9	12.7	0.1	0.7	1.2	1.0
35	Golden corydalis	4.6	1.2	25.1	0.1	3.2	5.6	0.9
36	Biennial wormwood	5.8	0.6	10.4	0.1	1.4	3.6	0.8
37	Prostrate knotweed	5.5	0.6	10.2	0.1	1.3	4.6	0.7
38	Blue grass species	3.7	0.4	11.2	0.1	3.8	5.8	0.6
39	Smooth brome	5.0	0.3	5.8	< 0.1	0.3	0.4	0.5
40	Avens species	2.1	0.6	30.0	0.1	2.6	2.6	0.4
41	Field mint	3.9	0.2	5.0	< 0.1	0.6	1.4	0.4
42	Poplar species	4.0	0.2	5.0	< 0.1	0.2	0.2	0.4
43	Flixweed	3.0	0.4	12.3	< 0.1	0.7	0.8	0.4
44	Henbit	1.4	0.6	40.0	0.1	6.6	6.6	0.4
45	Rough cinquefoil	3.1	0.2	5.0	< 0.1	0.6	1.0	0.3
46	Slough grass	1.7	0.2	10.0	0.1	5.8	5.8	0.3
47	Wild strawberry	2.3	0.2	10.0	< 0.1	0.8	0.8	0.3
48	Foxtail barley	2.5	0.1	5.0	< 0.1	0.6	0.6	0.3
49	Vetchling species	2.2	0.2	10.0	< 0.1	0.4	0.4	0.3
50	American dragonhead	2.5	0.1	5.0	< 0.1	0.2	0.2	0.3
51	Bladder campion	2.3	0.1	5.0	< 0.1	0.2	0.2	0.2
52	Absinth	2.1	0.1	5.0	< 0.1	0.2	0.2	0.2
53	Aster species	1.6	0.2	10.0	< 0.1	1.2	2.2	0.2
54	Fescue species	1.4	0.2	15.0	< 0.1	1.2	1.2	0.2

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Table 133. 1980s Spring wheat in the Peace Lowland Ecoregion (57 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Tartary buckwheat	0.8	0.3	40.0	< 0.1	2.2	2.2	0.2
56	Palmate-leaved colt's-foot	0.8	0.3	35.0	< 0.1	2.4	2.4	0.2
57	Persian darnel	1.4	0.1	10.0	< 0.1	0.6	0.6	0.2
58	Flax	1.7	0.1	5.0	< 0.1	0.2	0.2	0.2
59	Sedge species	1.4	0.1	5.0	< 0.1	0.6	0.6	0.2
60	Wild red raspberry	0.8	0.2	25.0	< 0.1	1.2	1.2	0.1
61	Timothy	0.8	0.1	15.0	< 0.1	1.6	1.6	0.1
62	Night-flowering catchfly	0.8	0.1	10.0	< 0.1	3.0	3.0	0.1
63	Goldenrod species	0.8	0.1	10.0	< 0.1	1.0	1.0	0.1
64	Low bush-cranberry	0.8	< 0.1	5.0	< 0.1	0.4	0.4	0.1
65	Purslane speedwell	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Spiny annual sow-thistle	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 134. 1980s Spring wheat in the Boreal Transition Ecoregion (122 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	74.6	31.5	42.2	12.6	16.8	342.2	44.2
2	Wild buckwheat	71.9	25.4	35.4	3.6	5.0	44.2	25.8
3	Shepherd's-purse	38.6	12.5	32.4	4.0	10.4	108.0	16.9
4	Chickweed	28.3	11.6	41.0	4.9	17.4	224.2	16.9
5	Hemp-nettle	38.4	12.8	33.4	3.9	10.1	248.2	16.9
6	Stinkweed	40.7	10.2	25.2	3.3	8.1	160.8	15.0
7	Green foxtail	28.1	11.4	40.8	3.8	13.4	157.2	14.8
8	Lamb's-quarters	42.3	12.6	29.9	1.8	4.4	44.6	13.8
9	Canada thistle	49.5	11.6	23.5	1.3	2.6	20.8	13.3
10	Field horsetail	30.2	8.3	27.6	2.3	7.5	50.4	11.2
11	Perennial sow-thistle	43.1	8.0	18.5	1.0	2.3	19.4	10.4
12	Pale smartweed	35.2	6.8	19.2	0.6	1.8	14.6	8.3
13	Wild mustard	27.6	7.1	25.6	0.7	2.5	13.2	7.6
14	Cleavers	23.8	5.5	23.0	0.8	3.4	49.8	6.6
15	Narrow-leaved hawk's-beard	18.4	5.7	31.1	1.1	5.8	64.8	6.5
16	Bluebur	22.8	5.4	23.5	0.8	3.3	35.4	6.4
17	Flax	8.5	5.1	60.3	1.6	18.3	71.2	5.9
18	Common groundsel	16.3	5.3	32.3	0.8	4.8	18.2	5.6
19	Canola/rapeseed	17.7	4.3	24.4	0.7	4.0	29.6	5.2
20	Dandelion	20.5	4.0	19.3	0.4	1.9	12.6	4.9
21	Black medick	0.9	0.9	100.0	2.0	216.4	216.4	4.0
22	Night-flowering catchfly	14.5	2.9	19.7	0.5	3.7	57.6	3.9
23	Corn spurry	8.6	2.0	23.5	0.9	10.6	124.8	3.5
24	Pineappleweed	13.2	2.7	20.6	0.2	1.4	6.8	3.1
25	Barley	9.0	3.0	32.7	0.3	3.3	18.8	2.9
26	Clover species	3.8	1.9	50.3	0.5	14.2	40.2	2.2
27	Redroot pigweed	10.1	1.3	13.3	0.1	0.9	2.8	2.0
28	Purslane speedwell	0.6	0.6	100.0	1.0	161.6	161.6	2.0
29	Rough cinquefoil	1.9	1.0	52.7	0.8	41.7	116.2	2.0
30	American dragonhead	7.0	1.8	25.9	0.1	2.0	6.6	1.9
31	Quack grass	6.9	0.7	10.3	0.3	4.0	14.8	1.6
32	Biennial wormwood	4.6	0.9	19.2	0.1	3.0	15.2	1.2

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**Field Survey Summary Tables – 1980s Barley**

Table 134. 1980s Spring wheat in the Boreal Transition Ecoregion (122 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
33	Alfalfa	1.6	1.0	61.9	0.2	13.4	39.2	1.0
34	Round-leaved mallow	4.5	0.8	17.6	< 0.1	0.9	1.6	1.0
35	Ball mustard	4.6	0.4	8.6	< 0.1	0.9	2.0	0.8
36	Tartary buckwheat	2.4	0.6	25.3	0.1	4.7	12.8	0.8
37	White cockle	2.7	0.5	18.5	< 0.1	1.7	7.0	0.6
38	Broad-leaved plantain	2.7	0.4	15.8	< 0.1	1.5	4.4	0.6
39	Flixweed	2.8	0.5	17.5	< 0.1	0.9	2.4	0.6
40	Dog mustard	1.0	0.5	51.5	0.1	13.0	22.0	0.6
41	Yellow sweet-clover	2.7	0.4	15.3	< 0.1	1.1	2.2	0.6
42	Rose species	3.3	0.3	8.9	< 0.1	0.4	1.0	0.5
43	Mouse-eared chickweed	0.4	0.4	95.0	0.2	46.0	46.0	0.5
44	Cow cockle	2.0	0.4	18.2	< 0.1	1.6	3.6	0.5
45	Prostrate knotweed	2.3	0.3	15.0	< 0.1	0.7	1.0	0.5
46	Barnyard grass	0.4	0.3	70.0	0.1	38.4	38.4	0.4
47	Scentless chamomile	1.5	0.3	17.0	< 0.1	2.5	4.6	0.4
48	Water smartweed	0.9	0.2	25.0	0.1	9.8	9.8	0.3
49	Stork's-bill	1.4	0.3	18.8	< 0.1	1.5	2.8	0.3
50	Wormseed mustard	1.9	0.1	6.0	< 0.1	0.4	0.6	0.3
51	Dock species	0.6	0.3	55.0	< 0.1	8.0	8.0	0.3
52	Showy milkweed	1.5	0.2	10.0	< 0.1	0.6	0.6	0.3
53	Henbit	0.7	0.2	35.0	< 0.1	3.6	3.6	0.2
54	Wood whitlow-grass	0.9	0.2	20.0	< 0.1	3.6	3.6	0.2
55	Kochia	0.3	0.2	60.0	0.1	16.6	16.6	0.2
56	Prostrate pigweed	1.5	0.1	5.0	< 0.1	0.2	0.2	0.2
57	Vetchling species	1.5	0.1	5.0	< 0.1	0.2	0.2	0.2
58	Low cudweed	1.0	0.1	13.1	< 0.1	2.3	3.4	0.2
59	Nodding thistle	0.9	0.1	15.0	< 0.1	2.6	2.6	0.2
60	Hare's-ear mustard	0.9	0.1	10.0	< 0.1	0.4	0.4	0.2
61	Milk-vetch species	1.0	0.1	7.2	< 0.1	0.5	0.8	0.2
62	Blue grass species	0.4	0.2	45.0	< 0.1	5.4	5.4	0.1
63	White mustard	0.7	0.1	10.0	< 0.1	1.6	1.6	0.1
64	Oats	0.9	0.1	7.5	< 0.1	0.3	0.4	0.1
65	Willowherb species	0.8	< 0.1	5.0	< 0.1	0.4	0.4	0.1
66	Foxtail barley	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Povertyweed	0.5	0.1	15.0	< 0.1	1.0	1.0	0.1
68	Wild radish	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Poplar species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
70	Green tansy mustard	0.4	0.1	20.0	< 0.1	4.4	4.4	0.1
71	Smooth brome	0.4	0.1	15.0	< 0.1	1.4	1.4	0.1
72	Giant ragweed	0.4	< 0.1	5.0	< 0.1	1.4	1.4	0.1
73	Wild chamomile	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1



Table 135. 1980s Spring wheat in the Aspen Parkland Ecoregion (465 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	79.4	50.1	63.2	41.0	51.7	1592.6	93.6
2	Wild buckwheat	81.1	32.0	39.5	5.1	6.3	150.6	35.9
3	Wild oats	60.9	22.8	37.4	7.9	12.9	643.6	31.8
4	Stinkweed	40.2	10.4	26.0	2.7	6.8	238.4	15.3
5	Lamb's-quarters	36.8	8.0	21.8	1.0	2.9	42.8	11.2
6	Shepherd's-purse	18.5	5.4	29.4	3.0	16.1	231.0	9.7
7	Canada thistle	33.8	5.8	17.1	0.8	2.3	21.0	9.3
8	Pale smartweed	23.2	6.4	27.7	1.6	7.0	96.4	9.1
9	Wild mustard	25.9	4.4	17.1	0.4	1.6	15.8	6.8
10	Russian thistle	19.7	4.0	20.0	1.2	5.8	93.0	6.6
11	Redroot pigweed	23.8	3.4	14.1	0.3	1.3	15.4	5.8
12	Perennial sow-thistle	22.1	3.6	16.1	0.4	1.8	28.8	5.8
13	Chickweed	8.0	2.8	35.4	1.3	16.6	197.0	4.5
14	Canola/rapeseed	10.7	3.4	31.2	0.6	5.2	43.2	4.1
15	Night-flowering catchfly	12.1	3.2	26.2	0.4	3.3	32.2	4.0
16	Bluebur	11.6	3.0	25.5	0.5	4.2	58.6	4.0
17	Flax	2.7	2.2	80.8	1.5	55.5	234.0	3.6
18	Quack grass	12.1	1.8	14.8	0.5	4.4	87.4	3.5
19	Hemp-nettle	8.8	2.1	23.6	0.5	5.3	115.8	3.1
20	Rose species	12.7	1.1	9.0	0.1	0.8	3.8	2.7
21	Cow cockle	6.9	1.6	22.6	0.2	3.3	31.4	2.2
22	Barley	6.0	1.3	20.9	0.2	3.1	61.8	1.8
23	Common groundsel	4.6	1.3	28.0	0.2	5.2	43.8	1.7
24	Flixweed	6.6	0.9	12.9	0.1	2.1	22.4	1.6
25	Cleavers	4.6	1.1	23.6	0.2	4.8	48.6	1.6
26	Narrow-leaved hawk's-beard	6.2	0.9	14.4	0.1	1.5	18.6	1.5
27	Field horsetail	5.0	0.7	14.7	0.2	4.6	51.4	1.5
28	Black medick	2.8	0.7	26.5	0.2	7.7	31.0	1.1
29	Wild tomato	3.7	0.7	18.4	0.1	2.3	12.4	1.0
30	Corn spurry	2.2	0.8	34.0	0.2	8.0	71.6	1.0
31	Ball mustard	2.7	0.5	19.0	0.1	3.5	21.8	0.8
32	Kochia	2.9	0.4	12.4	0.1	2.2	15.2	0.7
33	Dog mustard	2.4	0.5	21.7	0.1	2.6	7.2	0.7
34	Yellow sweet-clover	2.8	0.4	14.0	< 0.1	0.8	5.2	0.7
35	Dandelion	2.7	0.4	13.2	< 0.1	1.1	10.2	0.6
36	Barnyard grass	3.0	0.3	9.0	< 0.1	0.7	1.6	0.6
37	Round-leaved mallow	1.8	0.3	17.8	0.1	6.9	43.0	0.6
38	Thyme-leaved spurge	1.7	0.5	27.9	< 0.1	2.2	6.2	0.6
39	Pineappleweed	2.1	0.3	14.3	< 0.1	1.2	4.0	0.5
40	Prostrate knotweed	1.9	0.3	16.7	< 0.1	2.4	10.8	0.5
41	Tartary buckwheat	1.1	0.5	43.0	0.1	5.2	12.6	0.5
42	White cockle	2.0	0.3	14.9	< 0.1	1.0	3.6	0.5
43	Wormseed mustard	1.7	0.3	15.0	< 0.1	1.0	3.2	0.4
44	Yellow toadflax	0.8	0.2	29.1	0.1	10.0	27.0	0.4
45	Alfalfa	0.9	0.2	25.9	0.1	5.7	25.4	0.3
46	White mustard	0.3	0.2	75.0	0.1	49.4	49.4	0.3
47	Rye	1.0	0.2	25.0	< 0.1	1.6	1.6	0.3
48	Prostrate pigweed	1.6	0.1	5.7	< 0.1	0.4	1.0	0.3
49	Purslane speedwell	0.3	0.2	50.0	0.1	37.2	37.2	0.3
50	American dragonhead	1.3	0.1	8.8	< 0.1	0.4	1.0	0.3
51	Clover species	1.2	0.1	11.3	< 0.1	1.3	12.6	0.3
52	Absinth	1.1	0.1	11.4	< 0.1	1.7	4.6	0.3
53	Biennial wormwood	1.2	0.1	11.7	< 0.1	0.7	2.0	0.3
54	Bladder campion	0.7	0.2	28.2	< 0.1	1.8	3.8	0.2

(Table continued on next page)

**Field Survey Summary Tables – 1980s Barley**

Table 135. 1980s Spring wheat in the Aspen Parkland Ecoregion (465 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Wheat	0.8	0.2	21.7	< 0.1	2.3	6.2	0.2
56	Russian pigweed	1.0	0.1	10.7	< 0.1	0.7	1.6	0.2
57	Broad-leaved plantain	1.0	0.1	9.3	< 0.1	0.4	0.8	0.2
58	Spiny annual sow-thistle	0.9	0.1	13.0	< 0.1	0.8	1.8	0.2
59	Western snowberry	0.7	0.1	17.2	< 0.1	1.6	2.0	0.2
60	False flax species	0.7	0.1	16.5	< 0.1	1.2	3.2	0.2
61	Northern bedstraw	0.9	< 0.1	5.0	< 0.1	0.3	0.8	0.2
62	Water smartweed	0.7	< 0.1	6.4	< 0.1	1.7	3.0	0.2
63	Persian darnel	0.5	0.1	22.5	< 0.1	3.3	5.4	0.2
64	Prickly lettuce	0.6	0.1	9.6	< 0.1	0.7	2.2	0.1
65	Scentless chamomile	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Small bugloss	0.4	0.1	17.8	< 0.1	2.4	2.8	0.1
67	Bird's-foot trefoil	0.2	0.1	75.0	< 0.1	11.8	11.8	0.1
68	Tumble pigweed	0.5	0.1	12.0	< 0.1	0.7	0.8	0.1
69	Vetchling species	0.5	< 0.1	7.6	< 0.1	1.0	1.2	0.1
70	Orchard grass	0.1	0.1	70.0	< 0.1	12.6	12.6	0.1
71	Foxtail barley	0.5	< 0.1	5.0	< 0.1	0.3	0.4	0.1
72	Bicknell's geranium	0.4	< 0.1	8.0	< 0.1	0.3	0.4	0.1
73	Stork's-bill	0.4	< 0.1	10.1	< 0.1	0.7	2.0	0.1
74	Poplar species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
75	Low cudweed	0.3	< 0.1	15.0	< 0.1	2.2	4.2	0.1
76	Povertyweed	0.4	< 0.1	5.0	< 0.1	0.9	1.0	0.1
77	Milk-vetch species	0.4	< 0.1	5.0	< 0.1	0.3	0.4	0.1
78	Poison suckleya	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
79	Common pepper-grass	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Blue grass species	0.3	< 0.1	10.0	< 0.1	1.8	1.8	0.1
81	Oats	0.2	< 0.1	20.0	< 0.1	1.4	1.4	0.1
82	Oak-leaved goosefoot	0.2	< 0.1	15.0	< 0.1	2.0	2.0	0.1
83	Tumble mustard	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
84	Wild chamomile	0.1	< 0.1	40.0	< 0.1	6.6	6.6	0.1
85	Blueberry species	0.2	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
86	Green tansy mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
87	False ragweed	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
88	Showy milkweed	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
89	Proso millet	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
90	Indian mustard	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
91	Tall buttercup	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
92	Skeletonweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 136. 1980s Spring wheat in the Fescue Grassland Ecoregion (25 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	58.7	28.9	49.2	10.5	17.8	90.4	64.6
2	Stinkweed	54.5	19.2	35.1	8.2	15.1	139.2	49.3
3	Green foxtail	18.5	7.6	41.0	9.5	51.4	221.0	34.2
4	Canada thistle	32.3	11.0	34.1	2.2	6.8	16.8	22.4
5	Wild oats	34.9	7.9	22.7	3.0	8.6	69.0	22.1
6	Shepherd's-purse	14.8	5.4	36.3	2.6	17.6	59.8	14.4
7	Lamb's-quarters	25.9	3.7	14.3	0.3	1.1	3.6	9.7
8	Hemp-nettle	7.4	3.9	52.5	1.5	20.2	40.0	8.8
9	Dandelion	20.1	2.6	13.2	0.2	0.8	2.6	7.2
10	Canola/rapeseed	11.1	3.0	26.7	0.8	6.9	20.2	7.0
11	Redroot pigweed	18.5	2.0	11.0	0.2	1.0	2.4	6.3
12	Rose species	20.7	1.3	6.2	0.1	0.4	0.8	5.9
13	Round-leaved mallow	16.4	1.8	11.0	0.2	1.1	1.8	5.7
14	Pale smartweed	14.8	0.9	6.3	0.1	0.4	0.8	4.2
15	Prostrate knotweed	11.1	1.3	11.7	0.2	1.5	3.8	4.0
16	Prostrate pigweed	7.4	0.9	12.5	0.6	7.8	13.8	3.9
17	Wild tomato	9.0	0.7	7.9	< 0.1	0.3	0.4	2.7
18	Russian thistle	5.3	1.3	25.0	0.1	1.4	1.4	2.5
19	Alfalfa	3.7	1.3	35.0	0.2	6.0	6.0	2.5
20	Wild mustard	8.4	0.4	5.0	0.1	0.8	1.2	2.4
21	Tumble pigweed	3.7	0.6	15.0	0.3	8.2	8.2	2.1
22	Field horsetail	7.4	0.4	5.0	< 0.1	0.4	0.6	2.0
23	Bluebur	7.4	0.4	5.0	< 0.1	0.2	0.2	2.0
24	Flixweed	5.3	0.3	5.6	< 0.1	0.2	0.4	1.5
25	Barley	3.7	0.6	15.0	< 0.1	0.6	0.6	1.4
26	Thyme-leaved spurge	3.7	0.4	10.0	0.1	2.4	2.4	1.4
27	Smooth brome	3.7	0.4	10.0	< 0.1	1.0	1.0	1.2
28	Quack grass	3.7	0.4	10.0	< 0.1	0.6	0.6	1.2
29	Foxtail barley	3.7	0.4	10.0	< 0.1	0.4	0.4	1.2
30	Water smartweed	3.7	0.4	10.0	< 0.1	0.4	0.4	1.2
31	Tartary buckwheat	3.7	0.2	5.0	< 0.1	0.4	0.4	1.0
32	Common groundsel	3.7	0.2	5.0	< 0.1	0.2	0.2	1.0
33	Narrow-leaved hawk's-beard	3.7	0.2	5.0	< 0.1	0.2	0.2	1.0
34	Kochia	3.7	0.2	5.0	< 0.1	0.2	0.2	1.0
35	Perennial sow-thistle	3.7	0.2	5.0	< 0.1	0.2	0.2	1.0
36	Common pepper-grass	0.6	0.1	10.0	< 0.1	0.4	0.4	0.2

**Field Survey Summary Tables – 1980s Barley**

Table 137. 1980s Spring wheat in the Moist Mixed Grassland Ecoregion (386 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	54.6	32.8	60.1	23.0	42.2	383.2	85.9
2	Wild buckwheat	70.0	23.5	33.6	4.4	6.3	119.0	43.1
3	Russian thistle	32.5	12.2	37.7	4.5	13.9	327.2	26.2
4	Wild oats	41.6	10.4	25.0	2.7	6.6	67.8	23.1
5	Stinkweed	39.9	10.1	25.2	2.3	5.8	86.8	21.6
6	Redroot pigweed	35.4	8.3	23.3	1.4	3.9	91.4	17.3
7	Lamb's-quarters	24.0	5.5	23.0	1.8	7.5	130.6	13.5
8	Cow cockle	10.8	3.3	30.8	1.5	14.1	215.6	8.2
9	Kochia	10.2	3.0	29.5	0.5	5.0	71.6	5.7
10	Prostrate pigweed	11.5	2.0	17.0	0.2	2.0	8.8	4.6
11	Rose species	11.7	1.3	11.4	0.1	1.3	10.6	4.0
12	Flax	1.5	0.9	62.1	1.2	80.7	281.6	3.6
13	Wild mustard	7.8	1.1	13.8	0.4	5.2	111.2	3.4
14	Canada thistle	8.4	1.2	14.1	0.2	2.1	15.4	3.2
15	Pale smartweed	6.3	1.2	18.8	0.4	5.9	61.8	3.1
16	Thyme-leaved spurge	5.6	1.7	30.8	0.2	3.6	17.4	3.0
17	Flixweed	7.8	0.9	12.1	0.1	1.0	8.2	2.6
18	Wheat	3.5	1.2	35.6	0.2	5.7	31.0	2.2
19	Canola/rapeseed	3.0	1.0	32.2	0.3	10.2	57.2	2.1
20	Barnyard grass	4.8	0.8	17.9	0.2	3.5	35.0	2.1
21	Bluebur	5.2	0.7	12.6	< 0.1	0.9	4.0	1.8
22	Shepherd's-purse	3.1	0.7	21.2	0.3	8.9	69.8	1.8
23	Prostrate knotweed	4.4	0.6	14.5	0.1	1.8	17.0	1.6
24	Quack grass	1.0	0.3	31.4	0.5	49.7	199.2	1.4
25	Dock species	2.9	0.5	17.4	< 0.1	1.5	3.4	1.1
26	Persian darnel	1.8	0.3	16.0	0.2	13.0	46.0	1.1
27	Round-leaved mallow	2.3	0.3	15.2	< 0.1	1.6	4.4	0.9
28	California allocarya	0.8	0.2	25.6	0.2	24.8	62.0	0.7
29	Tumble pigweed	1.2	0.4	31.4	0.1	6.3	16.6	0.7
30	Barley	1.8	0.3	17.8	< 0.1	1.6	7.8	0.7
31	Dandelion	2.2	0.2	7.0	< 0.1	0.5	1.6	0.7
32	Night-flowering catchfly	1.6	0.3	19.2	< 0.1	1.2	2.8	0.6
33	Narrow-leaved hawk's-beard	1.9	0.2	10.2	< 0.1	0.7	1.6	0.6
34	Wild tomato	1.7	0.2	10.7	< 0.1	0.8	2.8	0.6
35	Biennial wormwood	1.8	0.2	8.5	< 0.1	0.5	1.4	0.5
36	Field horsetail	1.5	0.1	8.5	< 0.1	1.7	4.4	0.5
37	Hemp-nettle	1.4	0.1	9.4	< 0.1	1.5	3.0	0.5
38	Water smartweed	1.3	0.1	10.0	< 0.1	1.3	3.8	0.4
39	Purslane speedwell	1.2	0.1	9.1	< 0.1	0.4	0.6	0.4
40	Witch grass	0.7	0.2	27.2	< 0.1	2.3	5.8	0.4
41	Scentless chamomile	0.2	0.2	65.0	0.1	28.6	28.6	0.3
42	Corn spurry	0.7	0.2	22.5	< 0.1	2.0	5.8	0.3
43	Oats	0.7	0.1	18.0	< 0.1	1.7	2.4	0.3
44	Common pepper-grass	0.8	0.1	8.5	< 0.1	0.4	0.6	0.2
45	Hare's-ear mustard	0.7	0.1	11.6	< 0.1	0.7	1.0	0.2
46	Perennial sow-thistle	0.6	0.1	12.1	< 0.1	2.4	6.6	0.2
47	White mustard	0.5	0.1	28.0	< 0.1	2.3	3.4	0.2
48	Pygmyflower	0.5	0.1	20.3	< 0.1	3.3	5.4	0.2
49	Alfalfa	0.7	0.1	10.2	< 0.1	1.3	5.0	0.2
50	Russian pigweed	0.6	0.1	10.0	< 0.1	0.5	0.6	0.2
51	Sedge species	0.3	0.1	35.0	< 0.1	12.4	12.4	0.2
52	Redtop	0.4	0.1	12.5	< 0.1	0.6	0.8	0.1
53	Yellow sweet-clover	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
54	Rye	0.2	0.1	30.0	< 0.1	2.0	2.0	0.1

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Table 137. 1980s Spring wheat in the Moist Mixed Grassland Ecoregion (386 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Ball mustard	0.3	< 0.1	15.0	< 0.1	0.8	0.8	0.1
56	Foxtail barley	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
57	Yellow toadflax	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
58	Low cudweed	0.2	< 0.1	20.0	< 0.1	1.4	1.4	0.1
59	Wood-sorrel species	0.3	< 0.1	10.0	< 0.1	2.0	2.0	0.1
60	Sunflower species	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
61	Green tansy mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
62	Milk-vetch species	0.2	< 0.1	10.0	< 0.1	2.2	2.2	0.1
63	Purslane	0.1	< 0.1	35.0	< 0.1	4.6	4.6	0.1
64	Spear-leaved goosefoot	0.2	< 0.1	5.0	< 0.1	1.2	1.2	0.1
65	Rough cinquefoil	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Prickly lettuce	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Pussytoes species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
68	Pasture sage	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Povertyweed	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
70	Western snowberry	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
71	Common groundsel	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
72	Wood whitlow-grass	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
73	Field bindweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 138. 1980s Spring wheat in the Mixed Grassland Ecoregion (367 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Russian thistle	45.7	18.7	40.9	9.3	20.4	518.4	59.6
2	Green foxtail	33.4	15.6	46.7	7.9	23.8	190.8	49.1
3	Wild buckwheat	52.0	13.5	25.9	1.8	3.4	192.8	31.2
4	Redroot pigweed	48.0	11.4	23.9	2.6	5.3	417.6	30.9
5	Wild oats	46.3	10.5	22.6	2.6	5.5	120.4	29.6
6	Stinkweed	29.9	6.2	20.8	1.3	4.3	53.8	17.4
7	Cow cockle	20.6	5.1	24.7	1.6	7.7	102.0	15.0
8	Kochia	17.8	4.1	23.2	0.6	3.1	54.8	10.0
9	Lamb's-quarters	17.9	2.8	15.7	0.4	2.2	135.2	8.3
10	Flixweed	16.4	2.3	13.9	0.2	1.0	8.0	6.6
11	Prostrate pigweed	13.5	2.4	17.5	0.3	2.4	16.2	6.6
12	Thyme-leaved spurge	8.8	2.4	27.0	0.4	5.1	30.6	5.8
13	Tumble pigweed	9.2	2.4	26.2	0.2	2.3	11.0	5.2
14	Persian darnel	3.4	1.0	28.8	0.2	5.6	17.2	2.4
15	Barnyard grass	3.7	0.6	15.7	0.1	3.9	27.6	1.9
16	Wheat	2.8	0.6	22.1	0.1	3.5	25.4	1.6
17	Wild mustard	4.3	0.4	9.3	< 0.1	0.6	1.6	1.5
18	Rose species	4.3	0.4	8.9	< 0.1	0.8	4.4	1.5
19	Wild tomato	3.5	0.4	10.3	< 0.1	0.8	3.0	1.3
20	Prostrate knotweed	3.1	0.4	11.8	0.1	1.9	12.8	1.3
21	Field bindweed	1.3	0.5	43.0	0.1	8.4	26.0	1.2
22	Canada thistle	2.3	0.3	13.2	0.1	2.5	13.8	1.0
23	Pale smartweed	1.4	0.5	39.5	0.1	3.7	13.2	1.0
24	Bluebur	1.8	0.3	18.8	< 0.1	1.9	7.0	0.9
25	Shepherd's-purse	1.7	0.3	16.3	< 0.1	1.3	4.4	0.8

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**Field Survey Summary Tables – 1980s Barley**

Table 138. 1980s Spring wheat in the Mixed Grassland Ecoregion (367 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
26	Biennial wormwood	1.5	0.2	12.7	0.1	4.1	15.4	0.7
27	Common pepper-grass	1.4	0.2	12.5	< 0.1	1.4	6.2	0.6
28	Skeletonweed	1.5	0.1	8.7	< 0.1	0.6	2.0	0.5
29	Water smartweed	0.4	0.1	20.0	0.1	26.2	26.2	0.5
30	Tumble mustard	1.5	0.1	7.0	< 0.1	0.3	0.4	0.5
31	Round-leaved mallow	1.4	0.1	7.7	< 0.1	0.4	0.8	0.5
32	Green tansy mustard	1.2	0.1	11.9	< 0.1	0.6	0.8	0.5
33	Spear-leaved goosefoot	0.5	0.2	33.2	< 0.1	1.9	3.0	0.3
34	Perennial sow-thistle	0.9	0.1	8.1	< 0.1	0.6	0.8	0.3
35	Flax	0.8	0.1	7.1	< 0.1	0.8	1.4	0.3
36	Alfalfa	0.8	0.1	6.6	< 0.1	0.3	0.4	0.2
37	Russian pigweed	0.6	0.1	15.0	< 0.1	1.2	1.8	0.2
38	Sunflower species	0.7	0.1	7.5	< 0.1	0.3	0.4	0.2
39	Pasture sage	0.6	0.1	13.0	< 0.1	0.5	0.8	0.2
40	Dock species	0.4	< 0.1	10.0	< 0.1	6.2	6.2	0.2
41	Scarlet gaura	0.5	< 0.1	10.0	< 0.1	0.8	0.8	0.2
42	Yellow sweet-clover	0.3	0.1	25.0	< 0.1	1.8	1.8	0.2
43	Field horsetail	0.4	< 0.1	10.0	< 0.1	1.6	1.6	0.2
44	Poison suckleya	0.5	< 0.1	7.1	< 0.1	0.7	1.0	0.2
45	Atriplex species	0.3	0.1	30.0	< 0.1	1.8	1.8	0.1
46	Povertyweed	0.3	< 0.1	10.0	< 0.1	2.6	2.6	0.1
47	Marsh hedge-nettle	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
48	Stork's-bill	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
49	Clover species	0.3	< 0.1	10.0	< 0.1	1.4	1.4	0.1
50	Willowherb species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
51	Vetch species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
52	Oak-leaved goosefoot	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
53	Prickly lettuce	0.3	< 0.1	10.0	< 0.1	0.8	0.8	0.1
54	Foxtail barley	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
55	Tartary buckwheat	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
56	Canola/rapeseed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
57	Five-hooked bassia	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
58	Blue lettuce	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
59	Hare's-ear mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
60	Gray tansy mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
61	Barley	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
62	Needle-and-thread	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
63	Purslane	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
64	Golden-bean	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
65	Western snowberry	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
66	Oats	< 0.1	< 0.1	20.0	< 0.1	3.6	3.6	< 0.1
67	Narrow-leaved hawk's-beard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
68	Downy brome	< 0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1

Table 139. 1980s Spring wheat in the Lake Manitoba Plain Ecoregion (90 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	82.3	41.7	50.6	20.0	24.3	743.0	73.9
2	Wild mustard	67.1	20.8	30.9	3.0	4.4	38.4	27.3
3	Wild buckwheat	68.6	21.6	31.5	2.6	3.8	69.6	27.2
4	Pale smartweed	52.2	17.9	34.3	2.9	5.6	56.6	23.3
5	Redroot pigweed	50.9	15.3	30.1	3.2	6.3	75.2	22.3
6	Flax	19.4	12.5	64.4	6.4	32.7	127.4	22.1
7	Wild oats	57.4	13.4	23.4	2.3	4.0	58.8	20.6
8	Canada thistle	40.4	8.1	20.1	0.9	2.1	12.6	12.3
9	Lamb's-quarters	35.4	7.5	21.1	1.4	4.0	29.2	12.3
10	Perennial sow-thistle	21.1	3.9	18.5	0.8	3.8	58.2	7.0
11	Stinkweed	22.5	3.8	17.1	0.4	1.8	8.2	6.4
12	Quack grass	5.6	2.1	37.6	1.2	21.6	55.2	4.3
13	Dog mustard	4.5	2.7	59.9	1.1	23.7	69.2	4.2
14	Thyme-leaved spurge	12.8	2.7	21.2	0.3	2.0	11.8	4.0
15	Round-leaved mallow	9.7	2.9	29.9	0.4	3.7	17.2	3.7
16	Hemp-nettle	6.7	2.5	37.0	0.6	8.8	35.2	3.5
17	Cleavers	2.8	2.2	78.7	0.7	27.2	51.4	3.0
18	Chickweed	2.4	1.3	52.5	1.0	41.3	75.4	3.0
19	Barnyard grass	5.9	1.1	19.1	0.2	3.1	11.4	1.9
20	Corn spurry	2.1	1.1	52.3	0.3	13.2	27.4	1.4
21	Barley	4.2	0.9	22.0	0.1	3.0	6.2	1.4
22	Kochia	2.9	0.8	27.0	0.2	7.7	18.2	1.3
23	Shepherd's-purse	2.9	1.0	33.4	0.1	5.0	7.2	1.3
24	White cockle	2.4	0.7	26.7	0.2	8.6	35.8	1.1
25	Russian thistle	3.3	0.5	15.4	0.1	4.1	12.8	1.1
26	Field horsetail	5.0	0.4	7.5	< 0.1	0.5	1.4	1.0
27	Night-flowering catchfly	2.3	0.9	38.3	0.1	3.4	5.4	1.0
28	Water smartweed	4.0	0.3	7.8	0.1	1.6	4.6	0.9
29	Purslane	3.1	0.5	16.4	0.1	2.7	7.2	0.9
30	Corn	1.8	1.0	55.0	< 0.1	2.2	2.2	0.9
31	American dragonhead	3.3	0.4	13.4	< 0.1	0.6	1.2	0.8
32	Field bindweed	3.1	0.3	10.5	< 0.1	0.5	1.0	0.7
33	Sunflower species	1.8	0.6	35.0	< 0.1	2.2	2.2	0.7
34	Yellow foxtail	1.9	0.4	19.3	< 0.1	1.2	1.8	0.6
35	Bluebur	1.6	0.4	23.1	< 0.1	2.5	7.0	0.5
36	Showy milkweed	2.2	0.1	5.0	< 0.1	0.4	0.6	0.4
37	Common groundsel	1.2	0.2	20.0	< 0.1	0.8	0.8	0.3
38	Bladder campion	1.2	0.2	15.0	< 0.1	0.6	0.6	0.3
39	Alfalfa	1.0	0.2	20.0	< 0.1	0.8	0.8	0.3
40	Bicknell's geranium	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
41	Vetch species	1.1	0.1	5.0	< 0.1	0.4	0.4	0.2
42	Canola/rapeseed	0.9	0.1	7.5	< 0.1	0.6	0.6	0.2
43	Common ragweed	0.8	< 0.1	5.0	< 0.1	0.6	0.6	0.2

**Field Survey Summary Tables – 1980s Barley**

Table 140. 1980s Spring wheat in the Interlake Plain Ecoregion (37 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	81.4	31.5	38.7	9.4	11.6	150.6	36.7
2	Green foxtail	65.5	34.2	52.1	8.0	12.2	48.0	33.5
3	Wild buckwheat	73.7	31.8	43.1	6.2	8.4	62.6	30.3
4	Pale smartweed	77.9	20.2	26.0	2.3	3.0	15.8	19.8
5	Canada thistle	64.4	19.0	29.5	2.1	3.2	14.8	17.4
6	Wild mustard	60.4	16.0	26.5	2.6	4.3	52.6	16.8
7	Flax	6.1	3.7	60.0	7.9	129.6	257.8	15.9
8	Night-flowering catchfly	40.5	14.9	36.7	2.8	7.0	27.6	14.7
9	Hemp-nettle	43.7	11.4	26.1	1.5	3.4	11.2	11.4
10	Lamb's-quarters	42.6	10.6	24.9	1.1	2.5	52.4	10.3
11	Perennial sow-thistle	49.8	9.1	18.2	0.5	1.1	2.4	9.5
12	Chickweed	18.4	3.5	18.9	3.6	19.3	110.0	9.4
13	Redroot pigweed	47.8	7.3	15.3	0.7	1.5	10.8	9.0
14	Stinkweed	42.1	7.3	17.3	0.5	1.2	6.6	8.0
15	White cockle	13.8	6.0	43.6	2.1	14.9	46.4	7.3
16	Barnyard grass	23.7	5.7	23.9	1.5	6.2	32.0	7.1
17	Field horsetail	23.4	4.1	17.4	0.6	2.6	6.6	5.0
18	Cleavers	12.7	4.1	32.3	0.6	4.9	13.8	3.9
19	Narrow-leaved hawk's-beard	10.4	3.7	35.7	0.3	3.0	7.6	3.0
20	Flixweed	9.5	2.4	25.1	0.1	1.4	3.2	2.1
21	Alfalfa	8.9	2.4	26.5	0.2	1.9	3.4	2.1
22	Wormseed mustard	3.8	2.9	75.0	0.4	9.4	9.4	2.1
23	Broad-leaved plantain	6.9	1.7	25.0	0.3	4.9	10.8	2.0
24	Bladder campion	3.1	1.8	60.0	0.4	14.4	14.4	1.8
25	Quack grass	7.1	1.3	18.3	0.2	2.5	3.2	1.5
26	Barley	11.3	0.7	6.0	< 0.1	0.2	0.4	1.5
27	Dog mustard	3.1	1.8	60.0	0.3	8.8	8.8	1.5
28	Dandelion	9.2	0.9	10.0	< 0.1	0.5	1.0	1.4
29	Manitoba maple	7.7	1.1	15.0	0.1	0.7	1.0	1.3
30	Clover species	6.1	1.5	23.8	0.1	1.0	1.4	1.3
31	Vetch species	9.9	0.5	5.0	< 0.1	0.2	0.2	1.3
32	Prostrate knotweed	6.1	0.9	14.4	< 0.1	0.7	1.0	1.0
33	Field peas	2.3	1.0	45.0	0.2	10.4	10.4	1.0
34	Pineappleweed	3.8	1.0	25.0	0.1	1.8	1.8	0.9
35	American dragonhead	6.9	0.3	5.0	< 0.1	0.2	0.2	0.9
36	Yellow foxtail	5.2	0.5	10.0	< 0.1	0.6	0.6	0.8
37	Bluebur	3.2	0.6	18.0	0.1	4.0	22.6	0.8
38	Biennial campion	3.1	0.5	15.0	0.1	4.2	4.2	0.7
39	Common ragweed	5.2	0.3	5.0	< 0.1	0.2	0.2	0.7
40	Ground-ivy	3.8	0.6	15.0	< 0.1	0.6	0.6	0.7
41	Canola/rapeseed	3.5	0.5	14.3	< 0.1	0.6	0.6	0.6
42	Stork's-bill	4.3	0.2	5.0	< 0.1	0.2	0.2	0.5
43	Round-leaved mallow	2.3	0.6	25.0	< 0.1	2.0	2.0	0.5
44	Ball mustard	3.8	0.2	5.0	< 0.1	0.2	0.2	0.5
45	Shepherd's-purse	3.8	0.2	5.0	< 0.1	0.2	0.2	0.5
46	Water smartweed	2.3	0.2	10.0	< 0.1	0.6	0.6	0.3
47	Foxtail barley	2.3	0.1	5.0	< 0.1	0.2	0.2	0.3
48	Bicknell's geranium	2.3	0.1	5.0	< 0.1	0.2	0.2	0.3
49	Cow cockle	0.5	0.1	30.0	< 0.1	5.0	5.0	0.1
50	Common pepper-grass	0.5	0.1	15.0	< 0.1	1.0	1.0	0.1



Table 141. 1980s Barley (616 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	69.6	29.7	42.6	7.2	10.3	445.8	31.8
2	Green foxtail	40.7	20.5	50.2	13.3	32.6	508.2	30.7
3	Wild oats	62.2	23.7	38.2	8.8	14.1	401.6	30.0
4	Stinkweed	50.6	16.6	32.7	8.1	16.0	1048.4	24.3
5	Chickweed	21.0	11.3	54.1	10.9	52.0	978.2	21.0
6	Lamb's-quarters	42.7	13.3	31.2	5.7	13.4	478.6	18.9
7	Hemp-nettle	26.7	9.3	34.7	3.0	11.1	179.2	11.5
8	Canada thistle	40.1	8.7	21.8	1.1	2.7	31.6	10.9
9	Pale smartweed	28.2	8.2	29.1	1.6	5.7	70.2	9.6
10	Field horsetail	23.9	7.6	32.0	2.3	9.8	119.6	9.6
11	Shepherd's-purse	16.3	4.4	26.7	3.7	22.6	988.0	8.6
12	Russian thistle	12.1	4.1	34.1	2.5	20.6	419.2	6.5
13	Perennial sow-thistle	23.4	4.7	20.1	0.6	2.6	51.4	6.2
14	Redroot pigweed	18.2	4.2	23.2	1.0	5.3	86.8	5.7
15	Common groundsel	11.0	3.2	29.4	1.9	17.1	596.2	5.3
16	Wild mustard	16.3	4.2	25.9	0.8	4.9	45.6	5.2
17	Canola/rapeseed	14.7	4.0	27.1	0.5	3.4	37.2	4.5
18	Clover species	7.1	3.3	46.1	1.5	21.4	140.8	4.3
19	Quack grass	13.7	3.0	21.8	0.8	6.1	105.0	4.3
20	Bluebur	13.1	3.4	25.8	0.5	3.6	31.2	4.0
21	Narrow-leaved hawk's-beard	12.4	3.0	24.2	0.6	4.9	104.8	3.8
22	Flax	4.7	2.7	56.8	1.3	27.1	119.0	3.4
23	Dandelion	12.7	2.4	19.2	0.3	2.2	36.8	3.2
24	Corn spurry	5.2	1.7	32.4	1.3	25.0	950.8	3.1
25	Wheat	8.7	2.2	25.1	0.4	4.8	43.8	2.7
26	Cleavers	8.7	1.9	22.4	0.4	5.1	41.6	2.6
27	Kochia	4.9	1.7	35.1	0.9	17.9	122.4	2.5
28	Tartary buckwheat	4.9	2.1	41.5	0.5	9.5	78.8	2.2
29	Flixweed	6.3	1.1	18.1	0.3	4.2	102.0	1.7
30	Rose species	8.2	0.8	10.2	0.1	1.1	5.6	1.7
31	Stork's-bill	3.4	1.0	30.1	0.4	10.4	66.2	1.4
32	Night-flowering catchfly	4.3	1.0	24.6	0.1	3.4	50.6	1.2
33	Pineappleweed	3.5	0.7	21.2	0.2	5.2	51.2	1.0
34	Ball mustard	4.3	0.6	14.7	0.1	1.5	7.0	1.0
35	Barnyard grass	3.2	0.4	11.3	0.2	7.0	79.2	0.9
36	Alfalfa	2.9	0.7	24.2	0.1	3.2	26.8	0.8
37	Vetch species	3.0	0.4	14.2	< 0.1	1.4	4.8	0.7
38	Spiny annual sow-thistle	2.8	0.5	17.6	< 0.1	1.4	5.4	0.7
39	Broad-leaved plantain	2.5	0.3	11.1	0.1	4.8	68.6	0.6
40	Thyme-leaved spurge	2.3	0.5	22.9	< 0.1	1.8	8.8	0.6
41	Black medick	0.8	0.4	52.9	0.2	31.3	110.0	0.6
42	Round-leaved mallow	2.5	0.4	16.5	< 0.1	1.4	4.2	0.6
43	Prostrate knotweed	2.9	0.3	8.7	< 0.1	1.1	8.0	0.6
44	Wild tomato	2.6	0.3	13.5	< 0.1	1.3	9.0	0.6
45	White cockle	2.1	0.3	14.1	< 0.1	1.7	9.4	0.5
46	Cow cockle	1.9	0.4	19.1	< 0.1	2.0	13.6	0.5
47	Povertyweed	0.8	0.3	42.6	0.1	17.1	21.8	0.4
48	Rough cinquefoil	1.7	0.3	16.7	< 0.1	2.4	19.0	0.4
49	Dog mustard	1.1	0.4	35.1	0.1	5.3	16.2	0.4
50	Wormseed mustard	1.1	0.2	19.9	0.1	10.1	66.4	0.4
51	Western snowberry	0.8	0.3	45.4	0.1	11.9	29.6	0.4
52	American dragonhead	1.4	0.3	22.4	< 0.1	1.9	10.0	0.4
53	Yellow sweet-clover	1.1	0.3	24.1	< 0.1	3.5	14.0	0.3
54	White mustard	0.6	0.4	65.8	< 0.1	7.6	10.8	0.3

(Table continued on next page)

**Field Survey Summary Tables – 1980s Barley**

Table 141. 1980s Barley (616 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Oats	1.3	0.2	17.0	< 0.1	1.6	3.8	0.3
56	Prostrate pigweed	1.0	0.1	12.9	0.1	7.9	44.4	0.3
57	Yellow toadflax	1.1	0.2	16.9	< 0.1	2.1	6.6	0.3
58	Milk-vetch species	1.0	0.2	14.8	< 0.1	1.0	4.6	0.2
59	Vetchling species	1.3	0.1	6.7	< 0.1	0.6	1.6	0.2
60	Field peas	0.7	0.2	25.9	< 0.1	2.4	4.6	0.2
61	Biennial wormwood	1.0	0.1	13.4	< 0.1	1.1	10.0	0.2
62	Golden corydalis	0.9	0.1	14.5	< 0.1	1.2	2.8	0.2
63	Yellow foxtail	0.5	0.2	36.7	< 0.1	6.7	10.0	0.2
64	Fescue species	0.4	0.2	44.3	0.1	13.3	33.8	0.2
65	Showy milkweed	0.8	0.1	11.8	< 0.1	2.1	4.4	0.2
66	Low cudweed	0.4	0.1	33.9	< 0.1	7.7	13.8	0.2
67	Persian darnel	0.7	0.1	7.2	< 0.1	2.5	19.8	0.1
68	Foxtail barley	0.5	0.1	15.9	< 0.1	3.1	10.6	0.1
69	Henbit	0.4	0.1	26.3	< 0.1	2.5	4.8	0.1
70	Red goosefoot	0.3	0.1	37.2	< 0.1	5.0	9.6	0.1
71	Scentless chamomile	0.6	0.1	12.3	< 0.1	0.9	2.0	0.1
72	Bladder campion	0.6	0.1	9.3	< 0.1	0.7	2.2	0.1
73	Blue grass species	0.5	0.1	15.2	< 0.1	2.5	6.4	0.1
74	Water smartweed	0.3	0.1	21.1	< 0.1	7.6	45.4	0.1
75	Bicknell's geranium	0.4	0.1	18.0	< 0.1	1.1	3.8	0.1
76	Absinth	0.5	< 0.1	7.6	< 0.1	0.6	1.8	0.1
77	Field bindweed	0.4	< 0.1	9.7	< 0.1	0.9	2.0	0.1
78	Skeletonweed	0.5	< 0.1	7.4	< 0.1	0.8	1.2	0.1
79	Common yarrow	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Purslane speedwell	0.4	< 0.1	7.9	< 0.1	2.1	6.2	0.1
81	Oak-leaved goosefoot	0.2	0.1	35.0	< 0.1	3.6	3.6	0.1
82	Dock species	0.3	< 0.1	10.0	< 0.1	1.5	1.6	0.1
83	Willowherb species	0.2	0.1	22.4	< 0.1	2.6	3.0	0.1
84	Tumble pigweed	0.2	< 0.1	20.0	< 0.1	1.6	1.6	0.1
85	Timothy	0.3	< 0.1	10.3	< 0.1	1.3	2.2	0.1
86	Prickly lettuce	0.3	< 0.1	5.0	< 0.1	0.6	1.0	0.1
87	Redtop	0.2	< 0.1	10.0	< 0.1	3.8	3.8	0.1
88	Witch grass	0.2	< 0.1	25.0	< 0.1	1.6	1.6	< 0.1
89	Northern bedstraw	0.3	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
90	Purslane	0.1	< 0.1	25.0	< 0.1	2.4	2.4	< 0.1
91	Canary grass	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
92	Smooth brome	0.2	< 0.1	5.0	< 0.1	0.4	0.6	< 0.1
93	Aster species	0.2	< 0.1	10.0	< 0.1	0.5	0.6	< 0.1
94	Giant ragweed	0.2	< 0.1	15.0	< 0.1	0.8	0.8	< 0.1
95	Tansy	0.2	< 0.1	15.0	< 0.1	0.8	0.8	< 0.1
96	Rye	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
97	Knawel	0.2	< 0.1	15.0	< 0.1	0.8	0.8	< 0.1
98	Common pepper-grass	0.2	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
99	Blue lettuce	0.1	< 0.1	10.0	< 0.1	1.8	1.8	< 0.1
100	Nightshade species	0.2	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
101	Field mint	0.1	< 0.1	5.0	< 0.1	0.5	0.8	< 0.1
102	Mouse-eared chickweed	0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
103	Spreading dogbane	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
104	Dewberry	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
105	Wild rye/wheat grass species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
106	Violet species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
107	Wood whitlow-grass	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 142. 1980s Barley in the Peace Lowland Ecoregion (80 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	84.8	34.3	40.4	25.3	29.8	1048.4	35.2
2	Wild oats	73.3	36.6	49.9	24.7	33.7	285.4	34.4
3	Field horsetail	84.9	43.5	51.2	15.8	18.7	119.6	31.2
4	Wild buckwheat	71.9	36.5	50.7	18.5	25.7	445.8	29.9
5	Clover species	41.7	22.2	53.3	10.3	24.8	101.0	17.4
6	Hemp-nettle	48.7	15.7	32.2	7.7	15.8	179.2	14.3
7	Lamb's-quarters	45.4	13.4	29.5	8.7	19.1	309.2	14.1
8	Narrow-leaved hawk's-beard	43.8	20.1	46.0	4.9	11.2	63.8	13.2
9	Common groundsel	39.4	15.7	39.8	5.4	13.7	87.6	11.8
10	Dandelion	60.3	15.7	26.1	1.8	3.0	36.8	11.3
11	Canola/rapeseed	43.1	12.3	28.6	1.5	3.5	37.2	8.5
12	Bluebur	36.4	11.3	31.0	1.9	5.2	26.4	7.9
13	Shepherd's-purse	19.4	5.2	26.7	3.1	16.1	128.6	5.4
14	Perennial sow-thistle	27.2	4.7	17.4	1.3	4.8	51.4	4.8
15	Chickweed	18.8	5.9	31.4	1.7	8.8	83.8	4.6
16	Pale smartweed	21.1	6.0	28.6	1.1	5.2	19.8	4.4
17	Cleavers	26.1	4.4	16.8	1.1	4.1	41.6	4.4
18	Quack grass	25.0	4.2	16.9	0.7	2.6	15.4	4.0
19	Pineappleweed	19.4	4.1	21.0	1.0	5.3	51.2	3.7
20	Stork's-bill	15.9	5.6	35.4	0.7	4.5	19.6	3.6
21	Vetch species	23.2	4.0	17.2	0.3	1.4	4.6	3.5
22	Wheat	17.2	3.5	20.5	0.4	2.4	10.4	2.9
23	Canada thistle	15.7	3.4	21.4	0.5	3.2	10.6	2.7
24	Rose species	21.1	1.7	8.2	0.2	0.8	2.8	2.6
25	Ball mustard	17.8	1.5	8.4	0.2	0.9	5.0	2.2
26	Broad-leaved plantain	16.0	1.2	7.6	0.1	0.9	5.4	1.9
27	Golden corydalis	10.9	1.6	14.5	0.1	1.2	2.8	1.5
28	Rough cinquefoil	8.6	1.6	19.0	0.2	1.8	5.6	1.4
29	Corn spurry	3.1	1.0	32.8	1.1	34.2	74.4	1.3
30	Alfalfa	5.7	2.0	35.2	0.3	5.8	16.2	1.3
31	Fescue species	3.7	1.7	45.3	0.5	14.2	33.8	1.2
32	Redroot pigweed	7.2	1.3	17.8	0.1	1.6	3.4	1.1
33	Milk-vetch species	6.1	1.2	19.5	0.1	1.1	2.2	0.9
34	Prostrate knotweed	7.8	0.7	8.4	< 0.1	0.5	1.2	0.9
35	Spiny annual sow-thistle	6.2	0.7	11.1	0.1	1.4	3.8	0.8
36	Yellow toadflax	6.0	0.7	11.7	0.1	1.2	3.4	0.8
37	Yellow sweet-clover	5.2	0.6	11.1	< 0.1	0.6	0.8	0.7
38	Common yarrow	5.9	0.3	5.0	< 0.1	0.2	0.2	0.6
39	Biennial wormwood	4.1	0.6	16.0	0.1	1.7	10.0	0.6
40	Water smartweed	1.2	0.7	57.5	0.3	23.0	45.4	0.5
41	Willowherb species	2.8	0.6	22.4	0.1	2.6	3.0	0.5
42	Vetchling species	3.3	0.4	12.5	< 0.1	1.2	1.6	0.4
43	Timothy	3.2	0.3	10.3	< 0.1	1.3	2.2	0.4
44	Absinth	3.6	0.2	5.0	< 0.1	0.3	0.4	0.4
45	Oats	2.7	0.4	13.2	< 0.1	1.8	2.6	0.4
46	Wild mustard	2.8	0.3	12.0	< 0.1	1.1	2.0	0.4
47	Purslane speedwell	2.6	0.3	10.0	0.1	3.4	6.2	0.4
48	Night-flowering catchfly	0.6	0.4	70.0	0.3	50.6	50.6	0.4
49	American dragonhead	2.7	0.3	10.0	< 0.1	0.5	0.6	0.3
50	Blue grass species	2.0	0.4	19.0	0.1	2.6	6.4	0.3
51	Flixweed	2.2	0.3	15.3	< 0.1	1.7	2.0	0.3
52	Smooth brome	2.8	0.1	5.0	< 0.1	0.4	0.6	0.3
53	Aster species	2.3	0.2	10.0	< 0.1	0.5	0.6	0.3
54	Persian darnel	0.9	0.2	25.0	0.2	19.8	19.8	0.3

*(Table continued on next page)*

**Field Survey Summary Tables – 1980s Barley**

Table 142. 1980s Barley in the Peace Lowland Ecoregion (80 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Blue lettuce	1.7	0.2	10.0	< 0.1	1.8	1.8	0.2
56	Henbit	1.7	0.2	10.0	< 0.1	0.8	0.8	0.2
57	Field mint	1.7	0.1	5.0	< 0.1	0.5	0.8	0.2
58	Tartary buckwheat	1.6	0.1	5.0	< 0.1	0.8	0.8	0.2
59	Round-leaved mallow	1.6	0.1	5.0	< 0.1	0.2	0.2	0.2
60	Flax	1.6	0.1	5.0	< 0.1	0.2	0.2	0.2
61	Spreading dogbane	1.2	0.1	5.0	< 0.1	0.2	0.2	0.1
62	Dewberry	1.1	0.1	5.0	< 0.1	0.2	0.2	0.1

Table 143. 1980s Barley in the Boreal Transition Ecoregion (134 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	78.8	31.4	39.8	8.9	11.3	119.0	32.5
2	Chickweed	38.4	19.8	51.6	16.5	43.0	596.8	31.6
3	Wild buckwheat	67.2	28.2	42.0	5.7	8.5	142.4	26.2
4	Stinkweed	45.6	15.1	33.1	10.3	22.6	793.4	23.5
5	Lamb's-quarters	41.6	14.2	34.0	8.6	20.7	478.6	20.7
6	Hemp-nettle	45.3	17.4	38.4	5.8	12.7	163.6	19.2
7	Field horsetail	51.0	14.1	27.6	3.7	7.3	80.8	16.2
8	Canada thistle	58.8	13.9	23.7	1.6	2.7	19.8	14.7
9	Pale smartweed	41.1	10.0	24.3	1.5	3.5	29.8	10.8
10	Perennial sow-thistle	33.0	8.0	24.2	1.0	3.0	19.0	8.4
11	Green foxtail	22.4	8.0	35.6	2.1	9.5	33.8	8.4
12	Corn spurry	12.9	4.2	32.6	4.4	33.8	950.8	8.3
13	Shepherd's-purse	24.7	6.1	24.8	2.1	8.3	130.6	7.9
14	Common groundsel	21.7	5.4	24.7	1.1	5.0	108.6	6.1
15	Clover species	8.5	4.3	50.8	2.6	30.8	140.8	5.8
16	Bluebur	22.6	5.0	22.0	0.6	2.7	31.2	5.5
17	Flax	10.8	5.5	50.5	1.6	14.6	48.4	5.3
18	Narrow-leaved hawk's-beard	20.0	3.6	18.1	0.8	4.0	104.8	4.8
19	Canola/rapeseed	14.8	4.8	32.4	0.7	4.9	32.8	4.6
20	Wild mustard	15.5	3.9	25.3	0.8	5.2	38.8	4.4
21	Cleavers	14.3	3.0	21.2	0.8	5.7	33.8	3.9
22	Tartary buckwheat	6.9	3.7	52.8	1.3	18.9	78.8	3.8
23	Stork's-bill	6.0	2.4	40.2	1.4	23.2	66.2	3.3
24	Quack grass	14.1	2.3	16.5	0.6	4.0	16.2	3.3
25	Dandelion	14.8	2.3	15.3	0.2	1.3	16.6	3.0
26	Redroot pigweed	10.3	1.3	12.1	0.1	1.0	8.4	1.9
27	Ball mustard	7.4	1.3	18.1	0.2	2.3	7.0	1.6
28	Black medick	0.8	0.8	100.0	0.9	110.0	110.0	1.5
29	Pineappleweed	3.2	1.5	47.0	0.4	12.5	45.8	1.5
30	Alfalfa	4.6	1.3	27.4	0.1	3.2	15.0	1.3
31	Wheat	4.5	0.9	19.9	0.1	1.5	4.6	1.0
32	White cockle	3.7	0.5	12.7	< 0.1	1.2	7.4	0.7
33	American dragonhead	2.5	0.7	27.6	0.1	2.4	7.2	0.7
34	Field peas	1.9	0.7	37.8	0.1	3.8	4.6	0.6
35	Spiny annual sow-thistle	1.7	0.8	46.3	0.1	4.3	5.4	0.6
36	Flixweed	2.8	0.4	14.8	< 0.1	0.9	1.4	0.6

*(Table continued on next page)*

Table 143. 1980s Barley in the Boreal Transition Ecoregion (134 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
37	Scentless chamomile	2.8	0.3	12.3	< 0.1	0.9	2.0	0.5
38	Vetchling species	3.4	0.2	5.0	< 0.1	0.2	0.2	0.5
39	Oats	2.4	0.4	16.1	< 0.1	1.3	3.8	0.5
40	Cow cockle	2.9	0.2	6.2	< 0.1	0.4	0.6	0.4
41	Biennial wormwood	2.0	0.3	15.8	< 0.1	1.1	2.2	0.4
42	Barnyard grass	1.6	0.2	13.3	0.1	3.7	5.8	0.4
43	Night-flowering catchfly	1.7	0.2	12.0	< 0.1	0.9	1.8	0.3
44	Broad-leaved plantain	2.2	0.1	5.0	< 0.1	0.2	0.2	0.3
45	Rough cinquefoil	0.8	0.2	25.0	0.1	9.8	19.0	0.3
46	Milk-vetch species	1.2	0.2	15.2	< 0.1	1.5	4.6	0.2
47	Round-leaved mallow	1.6	0.1	5.0	< 0.1	0.2	0.2	0.2
48	Field bindweed	1.4	0.1	5.0	< 0.1	0.3	0.4	0.2
49	Wormseed mustard	1.3	0.1	8.1	< 0.1	0.5	1.0	0.2
50	Absinth	1.1	0.1	11.1	< 0.1	1.2	1.8	0.2
51	Red goosefoot	0.8	0.1	15.0	< 0.1	0.6	0.6	0.2
52	Tansy	0.8	0.1	15.0	< 0.1	0.8	0.8	0.2
53	Yellow sweet-clover	0.7	0.1	15.0	< 0.1	2.4	2.4	0.1
54	Russian thistle	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.1
55	Fescue species	0.3	0.1	40.0	< 0.1	9.4	9.4	0.1
56	Bicknell's geranium	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
57	Vetch species	0.7	< 0.1	5.0	< 0.1	1.1	1.6	0.1
58	Bladder campion	0.4	0.1	30.0	< 0.1	2.2	2.2	0.1
59	Low cudweed	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
60	Wild rye/wheat grass species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
61	Prostrate knotweed	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
62	Violet species	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
63	Rose species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 1980s Barley**

Table 144. 1980s Barley in the Aspen Parkland Ecoregion (213 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	56.5	29.7	52.6	20.8	36.9	481.6	43.9
2	Wild buckwheat	76.9	33.9	44.0	6.2	8.0	127.2	32.6
3	Chickweed	27.2	16.5	60.8	18.1	66.5	978.2	30.9
4	Wild oats	62.3	23.9	38.3	9.1	14.6	401.6	29.3
5	Lamb's-quarters	41.3	13.7	33.2	4.5	10.9	140.0	16.8
6	Stinkweed	50.6	13.6	27.0	3.2	6.2	141.6	16.6
7	Shepherd's-purse	20.5	5.9	28.8	7.3	35.4	988.0	13.5
8	Canada thistle	48.2	9.9	20.5	1.3	2.6	31.6	12.6
9	Pale smartweed	30.2	11.0	36.5	2.7	8.9	70.2	12.1
10	Hemp-nettle	29.3	10.1	34.4	2.7	9.4	90.8	11.6
11	Quack grass	16.7	4.4	26.2	1.4	8.4	105.0	5.8
12	Perennial sow-thistle	24.3	4.0	16.6	0.4	1.8	13.8	5.7
13	Common groundsel	7.9	2.0	25.1	3.0	38.2	596.2	5.3
14	Wild mustard	16.1	4.5	27.6	0.8	4.9	33.4	5.1
15	Canola/rapeseed	16.4	4.2	25.3	0.4	2.6	14.2	4.6
16	Redroot pigweed	12.3	3.0	24.1	1.0	8.0	86.8	4.1
17	Flax	3.0	2.2	74.7	1.7	57.8	119.0	3.3
18	Wheat	9.5	2.8	29.0	0.7	6.9	43.8	3.3
19	Field horsetail	12.3	2.2	17.8	0.4	3.5	39.6	3.2
20	Russian thistle	8.8	2.7	30.6	0.6	7.4	70.6	3.1
21	Bluebur	10.1	2.9	28.6	0.4	3.8	12.2	3.1
22	Tartary buckwheat	7.3	2.8	37.7	0.4	5.5	29.0	2.7
23	Corn spurry	5.6	1.8	32.2	0.7	13.2	70.6	2.4
24	Night-flowering catchfly	6.3	1.9	30.1	0.3	4.1	31.4	2.0
25	Narrow-leaved hawk's-beard	9.4	1.1	11.8	0.1	0.7	3.2	1.9
26	Cleavers	6.6	1.5	22.9	0.2	3.6	16.2	1.9
27	Dandelion	8.1	1.2	14.3	0.2	2.1	31.8	1.9
28	Rose species	9.0	0.9	9.7	0.1	1.0	2.8	1.8
29	Flixweed	4.7	0.9	18.7	0.5	9.9	102.0	1.6
30	Clover species	3.3	1.1	33.6	0.3	7.8	33.2	1.2
31	Wild tomato	5.4	0.8	14.6	0.1	1.5	9.0	1.2
32	Spiny annual sow-thistle	4.2	0.6	14.7	< 0.1	1.0	1.4	0.9
33	Wormseed mustard	2.1	0.5	23.7	0.3	13.1	66.4	0.8
34	White cockle	3.3	0.5	14.9	0.1	2.1	9.4	0.8
35	Povertyweed	1.4	0.7	49.0	0.2	18.2	21.8	0.8
36	Ball mustard	3.2	0.6	17.8	< 0.1	1.3	5.8	0.7
37	Western snowberry	1.3	0.8	59.1	0.2	15.8	29.6	0.7
38	Broad-leaved plantain	1.7	0.4	22.0	0.3	15.8	68.6	0.7
39	Round-leaved mallow	2.3	0.7	29.9	0.1	2.3	4.2	0.7
40	Black medick	1.2	0.6	47.9	0.1	11.3	27.8	0.6
41	Prostrate knotweed	2.7	0.3	10.2	0.1	2.1	8.0	0.6
42	Pineappleweed	2.9	0.2	7.0	< 0.1	0.9	4.6	0.5
43	Thyme-leaved spurge	1.5	0.5	34.1	0.1	3.4	8.8	0.5
44	White mustard	0.8	0.6	70.0	0.1	10.8	10.8	0.5
45	Kochia	2.6	0.2	6.1	< 0.1	0.4	1.0	0.4
46	Yellow sweet-clover	1.1	0.4	40.3	0.1	7.2	14.0	0.4
47	Barnyard grass	2.5	0.1	5.7	< 0.1	0.3	1.0	0.4
48	Yellow toadflax	1.5	0.3	21.2	< 0.1	2.9	6.6	0.4
49	Alfalfa	1.8	0.2	12.9	< 0.1	0.5	1.4	0.4
50	Low cudweed	0.8	0.3	40.0	0.1	9.6	13.8	0.3
51	Vetch species	1.5	0.2	11.2	< 0.1	2.0	4.8	0.3
52	Cow cockle	1.7	0.1	7.2	< 0.1	0.8	1.2	0.3
53	Henbit	0.7	0.3	34.3	< 0.1	3.3	4.8	0.2
54	Oats	1.0	0.2	16.3	< 0.1	1.7	2.8	0.2

(Table continued on next page)

Table 144. 1980s Barley in the Aspen Parkland Ecoregion (213 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Rough cinquefoil	1.0	0.1	8.1	< 0.1	0.6	1.4	0.2
56	Oak-leaved goosefoot	0.5	0.2	35.0	< 0.1	3.6	3.6	0.2
57	Dog mustard	0.8	0.1	15.0	< 0.1	0.6	0.6	0.2
58	Stork's-bill	1.0	0.1	5.0	< 0.1	0.3	0.4	0.2
59	American dragonhead	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.2
60	Bladder campion	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
61	Foxtail barley	0.3	0.1	40.0	< 0.1	10.6	10.6	0.1
62	Blue grass species	0.7	0.1	12.3	< 0.1	2.4	4.0	0.1
63	Field peas	0.6	0.1	15.0	< 0.1	1.0	1.0	0.1
64	Prickly lettuce	0.8	< 0.1	5.0	< 0.1	0.6	1.0	0.1
65	Vetchling species	0.7	< 0.1	5.0	< 0.1	1.0	1.0	0.1
66	Northern bedstraw	0.7	< 0.1	5.0	< 0.1	0.6	0.6	0.1
67	Milk-vetch species	0.6	< 0.1	5.0	< 0.1	0.3	0.4	0.1
68	Canary grass	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Water smartweed	0.6	< 0.1	5.0	< 0.1	0.8	0.8	0.1
70	Prostrate pigweed	0.5	< 0.1	5.0	< 0.1	0.4	0.4	0.1
71	Showy milkweed	0.4	< 0.1	10.0	< 0.1	0.6	0.6	0.1
72	Knawel	0.4	0.1	15.0	< 0.1	0.8	0.8	0.1
73	Common pepper-grass	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
74	Purslane speedwell	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
75	Nightshade species	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1

**Field Survey Summary Tables – 1980s Barley**

Table 145. 1980s Barley in the Fescue Grassland Ecoregion (46 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	63.3	34.1	53.9	11.7	18.5	127.6	67.0
2	Stinkweed	68.7	28.8	42.0	10.5	15.3	216.0	61.7
3	Green foxtail	9.3	3.5	37.5	12.0	128.4	508.2	30.7
4	Lamb's-quarters	48.0	12.6	26.3	3.0	6.2	90.0	27.9
5	Canada thistle	46.5	11.5	24.8	2.1	4.5	16.6	24.8
6	Redroot pigweed	23.3	6.5	28.0	1.2	5.2	20.0	13.3
7	Wild oats	22.4	3.9	17.3	0.4	2.0	5.8	9.4
8	Wheat	9.3	3.7	40.0	0.8	8.2	27.2	6.8
9	Rose species	16.5	2.3	14.2	0.3	1.5	5.6	6.3
10	Alfalfa	10.4	2.9	27.9	0.5	4.9	26.8	5.9
11	Tartary buckwheat	5.0	2.8	57.0	0.7	13.6	19.2	4.8
12	Barnyard grass	4.7	2.4	52.5	0.8	17.6	33.6	4.8
13	Shepherd's-purse	7.0	1.7	25.0	0.8	11.5	32.2	4.8
14	Prostrate knotweed	12.7	1.1	8.9	0.1	0.5	3.6	4.1
15	Flixweed	9.7	1.3	13.8	0.1	1.5	4.2	3.7
16	Quack grass	2.3	1.7	75.0	0.7	29.4	29.4	3.4
17	Wild mustard	6.1	1.2	19.4	0.1	1.0	1.2	2.5
18	Russian thistle	7.4	0.5	6.6	0.1	1.5	21.8	2.4
19	Rough cinquefoil	4.7	0.9	20.0	0.2	3.2	3.4	2.2
20	Western snowberry	4.7	0.8	17.5	0.2	4.2	7.0	2.2
21	Dandelion	5.3	0.6	11.3	< 0.1	0.7	1.0	1.8
22	Pale smartweed	4.7	0.3	7.5	< 0.1	0.6	0.6	1.5
23	Canola/rapeseed	4.7	0.3	7.5	< 0.1	0.5	0.6	1.4
24	Hemp-nettle	4.7	0.3	7.5	< 0.1	0.3	0.4	1.4
25	Oats	2.3	0.7	30.0	< 0.1	1.6	1.6	1.2
26	Bluebur	2.3	0.5	20.0	0.1	2.6	2.6	1.1
27	Bladder campion	2.3	0.2	10.0	< 0.1	1.2	1.2	0.8
28	Thyme-leaved spurge	2.3	0.1	5.0	< 0.1	0.6	0.6	0.7
29	Yellow sweet-clover	1.4	0.3	25.0	< 0.1	1.8	1.8	0.6
30	Cleavers	1.4	0.2	15.0	< 0.1	1.4	1.4	0.5
31	Round-leaved mallow	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
32	Vetch species	0.3	< 0.1	10.0	< 0.1	0.8	0.8	0.1
33	Wood whitlow-grass	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1



Table 146. 1980s Barley in the Moist Mixed Grassland Ecoregion (59 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Russian thistle	44.1	16.7	37.9	16.7	37.9	419.2	45.0
2	Stinkweed	51.1	19.8	38.8	13.3	26.0	162.8	43.9
3	Wild buckwheat	60.2	22.4	37.1	7.7	12.8	132.4	39.7
4	Green foxtail	35.5	13.9	39.1	10.6	29.8	323.4	32.5
5	Lamb's-quarters	46.3	14.5	31.2	4.5	9.8	77.8	26.7
6	Wild oats	45.7	12.5	27.4	5.4	11.9	187.4	26.4
7	Kochia	21.1	11.0	52.2	5.1	24.0	122.4	19.5
8	Redroot pigweed	29.0	6.9	23.7	2.3	7.8	43.2	14.3
9	Flixweed	22.4	4.4	19.6	0.5	2.1	12.0	8.6
10	Wheat	6.6	2.6	39.1	0.5	7.4	13.2	4.0
11	Canola/rapeseed	8.1	1.9	23.9	0.4	4.3	18.8	3.6
12	Rose species	11.3	1.2	11.0	0.2	1.4	4.6	3.5
13	Canada thistle	9.1	0.9	10.1	0.2	1.9	5.0	2.9
14	Flax	1.8	1.8	100.0	0.7	39.2	39.2	2.6
15	Wild mustard	4.8	1.4	29.4	0.3	5.6	13.0	2.4
16	Bluebur	5.6	1.4	24.8	0.1	2.7	5.4	2.4
17	Barnyard grass	1.5	0.1	5.0	1.2	79.2	79.2	2.1
18	Shepherd's-purse	5.0	0.8	15.1	0.2	3.7	5.6	1.9
19	Dandelion	4.9	0.6	12.9	< 0.1	1.0	2.4	1.6
20	Perennial sow-thistle	5.0	0.5	9.7	0.1	1.8	5.0	1.6
21	Round-leaved mallow	5.5	0.4	6.9	0.1	1.4	1.6	1.6
22	Narrow-leaved hawk's-beard	5.1	0.5	10.0	< 0.1	0.4	0.6	1.5
23	Povertyweed	2.2	0.7	30.0	0.3	14.8	14.8	1.4
24	White mustard	1.9	1.1	60.0	0.1	3.2	3.2	1.3
25	Thyme-leaved spurge	2.2	0.8	35.0	0.1	2.4	2.4	1.1
26	Persian darnel	3.5	0.2	5.0	< 0.1	0.5	0.8	0.9
27	Prostrate knotweed	3.5	0.2	5.0	< 0.1	0.3	0.4	0.9
28	Wild tomato	3.2	0.2	7.6	< 0.1	0.4	0.6	0.9
29	Tumble pigweed	1.9	0.4	20.0	< 0.1	1.6	1.6	0.7
30	Quack grass	1.8	0.2	10.0	0.1	5.6	5.6	0.6
31	Redtop	1.8	0.2	10.0	0.1	3.8	3.8	0.6
32	Field horsetail	1.8	0.1	5.0	0.1	4.4	4.4	0.6
33	Skeletonweed	1.8	0.2	10.0	< 0.1	0.4	0.4	0.5
34	Pale smartweed	1.8	0.1	5.0	< 0.1	0.6	0.6	0.5
35	Prostrate pigweed	1.8	0.1	5.0	< 0.1	0.2	0.2	0.5
36	Biennial wormwood	1.8	0.1	5.0	< 0.1	0.2	0.2	0.5
37	Rye	1.7	0.1	5.0	< 0.1	0.2	0.2	0.4
38	Hemp-nettle	1.5	0.1	5.0	< 0.1	0.4	0.4	0.4

**Field Survey Summary Tables – 1980s Barley**

Table 147. 1980s Barley in the Mixed Grassland Ecoregion (23 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Lamb's-quarters	25.4	9.0	35.4	11.7	46.0	233.8	43.0
2	Stinkweed	45.3	15.2	33.6	6.2	13.8	108.2	40.4
3	Green foxtail	34.2	14.3	41.8	7.1	20.9	104.4	39.0
4	Russian thistle	39.3	16.6	42.4	2.4	6.1	19.0	30.9
5	Wild oats	43.8	9.8	22.4	1.7	3.9	12.8	23.9
6	Kochia	14.9	3.9	26.2	4.8	32.2	98.0	19.0
7	Redroot pigweed	40.4	7.2	17.8	0.8	2.0	40.0	18.5
8	Wild buckwheat	41.6	5.8	13.9	0.4	0.9	3.8	16.5
9	Wild mustard	8.3	4.8	57.9	1.9	22.5	40.2	11.1
10	Cow cockle	13.5	6.0	44.5	0.7	5.0	13.6	10.5
11	Prostrate pigweed	9.0	2.2	24.2	1.7	19.0	44.4	8.4
12	Thyme-leaved spurge	15.8	3.0	19.1	0.2	1.0	1.4	7.1
13	Field horsetail	4.9	1.5	30.0	1.0	20.0	20.0	4.9
14	Perennial sow-thistle	9.7	1.5	15.0	0.1	0.9	1.0	3.9
15	Canada thistle	9.7	1.0	10.0	< 0.1	0.5	0.8	3.4
16	Wheat	8.8	0.4	5.0	< 0.1	0.2	0.2	2.6
17	Flixweed	5.2	0.8	15.0	< 0.1	0.8	0.8	2.1
18	Clover species	4.9	0.7	15.0	0.1	1.6	1.6	2.1
19	Barnyard grass	5.2	0.5	10.0	< 0.1	0.6	0.6	1.8
20	Foxtail barley	5.2	0.5	10.0	< 0.1	0.4	0.4	1.8
21	Showy milkweed	4.9	0.2	5.0	0.1	2.0	2.0	1.6
22	Skeletonweed	5.2	0.3	5.0	0.1	1.2	1.2	1.6
23	Rose species	5.2	0.3	5.0	< 0.1	0.6	0.6	1.6
24	Pale smartweed	4.9	0.2	5.0	< 0.1	0.4	0.4	1.5
25	Field bindweed	2.9	0.6	20.0	0.1	2.0	2.0	1.4
26	Persian darnel	4.4	0.2	5.0	< 0.1	0.2	0.2	1.3

Table 148. 1980s Barley in the Lake Manitoba Plain Ecoregion (35 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	85.8	56.4	65.8	33.1	38.5	146.8	95.7
2	Wild oats	65.3	24.2	37.1	3.9	6.0	18.0	27.4
3	Wild buckwheat	64.6	25.0	38.7	3.4	5.3	20.0	26.7
4	Redroot pigweed	47.7	16.5	34.7	2.6	5.4	26.0	19.0
5	Wild mustard	65.0	12.9	19.9	2.0	3.1	28.0	18.8
6	Pale smartweed	63.3	11.9	18.7	1.1	1.8	11.0	16.5
7	Lamb's-quarters	46.9	9.9	21.1	1.2	2.6	10.6	13.4
8	Perennial sow-thistle	34.9	8.6	24.7	1.2	3.4	14.6	11.0
9	Canada thistle	26.5	6.1	23.0	0.6	2.4	4.4	7.7
10	Flax	9.6	4.5	47.1	1.8	19.0	61.6	6.6
11	Dog mustard	12.6	5.6	44.0	0.9	7.3	16.2	6.0
12	Quack grass	21.0	2.6	12.4	0.6	3.1	6.6	5.3
13	Cleavers	5.2	4.1	80.0	1.3	25.0	25.0	4.9
14	Stinkweed	13.7	3.7	26.9	0.5	3.9	14.6	4.6
15	Chickweed	5.2	1.3	25.0	1.3	25.2	25.2	3.6
16	Yellow foxtail	8.3	3.1	36.7	0.6	6.7	10.0	3.6
17	Russian thistle	10.0	2.3	22.9	0.2	2.2	6.0	2.9
18	Barnyard grass	13.2	1.1	8.2	0.2	1.2	2.2	2.7
19	Thyme-leaved spurge	10.0	1.5	14.7	0.1	1.1	3.0	2.3
20	Hemp-nettle	8.0	1.4	18.0	0.1	1.5	2.2	2.0
21	Kochia	8.0	1.4	17.0	0.1	1.6	4.0	2.0
22	Red goosefoot	2.8	1.7	60.0	0.3	9.6	9.6	1.6
23	Shepherd's-purse	4.5	1.3	30.0	0.2	4.0	4.0	1.6
24	Round-leaved mallow	5.5	1.1	19.9	0.1	1.0	1.6	1.4
25	Night-flowering catchfly	8.0	0.4	5.0	< 0.1	0.2	0.2	1.3
26	Wheat	7.6	0.4	5.0	< 0.1	0.3	0.4	1.3
27	Dock species	5.6	0.6	10.0	0.1	1.5	1.6	1.2
28	Field horsetail	5.2	0.3	5.0	< 0.1	0.4	0.4	0.9
29	Bluebur	5.2	0.3	5.0	< 0.1	0.2	0.2	0.9
30	Witch grass	2.8	0.7	25.0	< 0.1	1.6	1.6	0.8
31	Vetch species	4.5	0.2	5.0	< 0.1	0.2	0.2	0.8
32	Purslane	2.4	0.6	25.0	0.1	2.4	2.4	0.7
33	Tartary buckwheat	2.8	0.4	15.0	< 0.1	0.8	0.8	0.6
34	Giant ragweed	2.8	0.4	15.0	< 0.1	0.8	0.8	0.6
35	Stork's-bill	3.4	0.2	5.9	< 0.1	0.6	0.6	0.6
36	Bicknell's geranium	2.8	0.3	10.0	< 0.1	0.4	0.4	0.5
37	Clover species	2.8	0.3	10.0	< 0.1	0.4	0.4	0.5
38	Foxtail barley	2.8	0.1	5.0	< 0.1	1.0	1.0	0.5
39	Showy milkweed	2.7	0.1	5.0	< 0.1	0.6	0.6	0.5
40	Prostrate pigweed	2.4	0.1	5.0	< 0.1	0.2	0.2	0.4
41	Rose species	2.4	0.1	5.0	< 0.1	0.2	0.2	0.4

**Field Survey Summary Tables – 1980s Barley**

Table 149. 1980s Barley in the Interlake Plain Ecoregion (26 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	86.8	45.1	52.0	9.9	11.4	37.0	47.4
2	Wild oats	85.1	42.7	50.2	8.6	10.1	75.0	43.4
3	Wild buckwheat	94.1	35.5	37.7	5.1	5.4	31.0	33.8
4	Pale smartweed	63.0	22.2	35.3	3.3	5.2	21.0	21.9
5	Wild mustard	58.5	18.1	30.9	3.5	5.9	45.6	20.3
6	Canada thistle	73.5	21.1	28.7	1.8	2.5	8.0	19.2
7	Perennial sow-thistle	64.2	18.1	28.2	1.7	2.6	8.6	16.8
8	Lamb's-quarters	62.8	11.3	18.0	2.2	3.5	75.0	15.4
9	Night-flowering catchfly	41.2	9.0	21.7	0.5	1.3	2.4	8.6
10	Flax	13.1	5.3	40.4	2.1	16.2	43.2	8.0
11	Redroot pigweed	43.7	6.2	14.3	0.4	0.8	3.4	7.5
12	Hemp-nettle	22.3	7.5	33.9	0.4	1.9	2.8	5.9
13	Stinkweed	31.5	4.8	15.2	0.4	1.3	3.8	5.9
14	Quack grass	15.1	5.7	37.5	1.0	6.5	11.8	5.8
15	American dragonhead	10.8	5.9	54.7	0.6	5.3	10.0	4.5
16	Cleavers	22.8	3.6	15.7	0.2	0.8	1.6	4.0
17	Showy milkweed	11.2	2.8	25.0	0.5	4.4	4.4	3.3
18	Dandelion	16.0	2.4	15.0	0.3	1.8	2.0	3.2
19	Field horsetail	17.2	1.9	11.2	0.1	0.7	0.8	2.7
20	Barnyard grass	17.9	1.3	7.3	0.1	0.4	0.6	2.5
21	Wheat	14.6	1.2	8.3	< 0.1	0.3	0.4	2.0
22	Bicknell's geranium	4.9	2.7	55.0	0.2	3.8	3.8	1.9
23	Clover species	6.9	1.2	17.0	0.3	4.1	5.6	1.8
24	Spiny annual sow-thistle	11.2	1.1	10.0	0.1	0.8	0.8	1.8
25	Rose species	4.9	1.9	40.0	0.1	2.6	2.6	1.5
26	Rough cinquefoil	6.9	1.0	15.0	0.1	1.1	3.2	1.3
27	Bluebur	6.2	1.1	18.3	0.1	1.2	1.6	1.2
28	Stork's-bill	9.2	0.5	5.0	< 0.1	0.2	0.2	1.2
29	Narrow-leaved hawk's-beard	4.9	1.2	25.0	< 0.1	1.0	1.0	1.0
30	Chickweed	8.2	0.4	5.0	< 0.1	0.2	0.2	1.0
31	Alfalfa	6.9	0.5	7.3	< 0.1	0.4	1.2	1.0
32	Black medick	5.9	0.3	5.0	< 0.1	0.4	0.4	0.8
33	Canola/rapeseed	4.9	0.5	10.0	< 0.1	0.4	0.4	0.7
34	Mouse-eared chickweed	4.9	0.2	5.0	< 0.1	0.8	0.8	0.7
35	Round-leaved mallow	4.9	0.2	5.0	< 0.1	0.2	0.2	0.6
36	Field peas	4.9	0.2	5.0	< 0.1	0.2	0.2	0.6
37	Blue grass species	1.0	0.2	20.0	< 0.1	3.0	3.0	0.3
38	White cockle	1.0	0.2	20.0	< 0.1	1.0	1.0	0.2
39	Broad-leaved plantain	1.0	0.2	15.0	< 0.1	1.0	1.0	0.2
40	Vetch species	1.0	0.1	10.0	< 0.1	0.6	0.6	0.2
41	Yellow sweet-clover	1.0	0.1	10.0	< 0.1	0.6	0.6	0.2
42	Prostrate pigweed	1.0	0.1	10.0	< 0.1	0.4	0.4	0.2

Table 150. 1980s Oats (174 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	49.9	34.4	68.9	34.4	68.9	803.2	46.6
2	Wild buckwheat	83.8	43.4	51.8	9.0	10.7	162.8	31.3
3	Lamb's-quarters	64.6	23.0	35.5	6.8	10.6	194.0	20.7
4	Stinkweed	53.9	20.8	38.6	8.7	16.1	192.6	20.4
5	Wild oats	42.0	16.0	38.2	4.7	11.3	174.8	14.1
6	Hemp-nettle	30.3	13.3	43.8	6.0	19.8	272.0	12.9
7	Chickweed	23.9	11.7	49.0	5.3	22.3	152.6	11.1
8	Field horsetail	27.0	12.1	44.6	4.1	15.3	103.4	10.6
9	Pale smartweed	33.2	11.4	34.4	2.0	6.2	56.0	9.2
10	Narrow-leaved hawk's-beard	19.4	7.9	41.0	4.2	21.5	286.4	8.4
11	Canada thistle	32.4	7.7	23.8	1.0	3.0	37.2	7.0
12	Clover species	15.6	7.6	48.5	3.1	19.9	145.2	6.9
13	Redroot pigweed	23.7	7.7	32.4	1.9	7.9	73.8	6.8
14	Russian thistle	19.9	7.1	35.5	2.3	11.5	129.6	6.5
15	Perennial sow-thistle	25.6	6.7	25.9	1.0	3.8	35.2	5.9
16	Dandelion	22.4	6.7	30.0	0.8	3.6	26.0	5.4
17	Barley	25.2	5.6	22.2	0.7	2.6	15.8	5.3
18	Wild mustard	17.5	6.9	39.6	1.1	6.1	49.2	5.2
19	Common groundsel	11.5	2.9	25.1	2.4	21.2	442.4	4.4
20	Quack grass	17.2	3.7	21.6	1.1	6.6	67.0	4.2
21	Shepherd's-purse	14.7	4.3	29.3	1.2	8.1	99.0	4.1
22	Black medick	3.8	3.6	95.0	2.4	63.2	63.2	3.7
23	Night-flowering catchfly	10.0	4.8	48.4	0.8	8.0	38.0	3.4
24	Corn spurry	10.5	3.3	31.2	1.1	10.6	56.0	3.2
25	Rough cinquefoil	6.6	2.7	41.2	1.3	19.6	179.8	2.7
26	Bluebur	13.0	2.8	21.8	0.3	2.4	17.4	2.7
27	Stork's-bill	10.0	3.3	32.8	0.5	4.9	38.2	2.6
28	Canola/rapeseed	10.7	1.6	14.6	0.4	3.3	60.2	2.0
29	Alfalfa	8.1	2.3	28.1	0.3	3.3	14.4	1.9
30	Flixweed	9.8	1.8	18.8	0.2	2.0	11.6	1.9
31	Thyme-leaved spurge	3.9	2.5	64.0	0.5	13.7	31.0	1.7
32	Rose species	10.1	1.2	12.0	0.1	1.4	7.2	1.7
33	American dragonhead	2.9	0.9	33.1	1.0	33.3	184.0	1.5
34	Vetch species	7.9	1.3	16.2	0.1	1.5	13.0	1.4
35	Broad-leaved plantain	7.0	1.2	17.4	0.2	2.5	16.8	1.4
36	Barnyard grass	6.1	0.8	12.5	0.5	7.5	125.6	1.4
37	Cow cockle	4.7	1.7	35.4	0.3	6.6	16.2	1.3
38	Low cudweed	4.2	0.8	18.1	0.5	12.4	20.8	1.2
39	White cockle	5.3	1.3	24.3	0.1	2.6	11.6	1.1
40	Cleavers	5.3	0.8	15.6	0.2	4.7	44.0	1.1
41	Ball mustard	5.2	0.6	11.2	< 0.1	0.9	4.8	0.8
42	Canary grass	1.5	0.7	51.2	0.4	24.2	39.0	0.7
43	Flax	1.9	0.9	45.0	0.2	11.6	34.4	0.7
44	Tartary buckwheat	2.7	0.9	34.1	0.1	2.7	5.2	0.7
45	Wormseed mustard	2.0	0.7	32.5	0.2	11.1	34.0	0.6
46	Wheat	3.1	0.7	22.8	0.1	1.9	5.4	0.6
47	Pineappleweed	4.1	0.4	8.9	< 0.1	0.7	2.0	0.6
48	Prostrate knotweed	2.6	0.7	25.9	0.1	3.2	11.8	0.6
49	Spiny annual sow-thistle	2.7	0.6	23.5	0.1	2.5	10.0	0.6
50	Dog mustard	1.8	0.6	31.1	0.1	4.0	7.6	0.5
51	Poplar species	2.0	0.5	25.7	< 0.1	2.0	3.8	0.4
52	Milk-vetch species	1.8	0.4	23.9	< 0.1	2.2	5.8	0.4
53	Biennial wormwood	1.2	0.5	38.1	0.1	8.7	18.2	0.4
54	Yellow toadflax	1.4	0.4	27.2	0.1	5.8	13.8	0.4

*(Table continued on next page)*

**Field Survey Summary Tables – 1980s Oats**

Table 150. 1980s Oats (174 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Willowherb species	2.4	0.2	6.7	< 0.1	0.6	3.4	0.3
56	Fescue species	1.4	0.4	27.5	0.1	3.7	10.0	0.3
57	Persian darnel	1.8	0.3	14.9	< 0.1	1.3	3.8	0.3
58	Wild tomato	2.3	0.1	6.0	< 0.1	0.2	0.4	0.3
59	Prostrate pigweed	1.5	0.3	17.0	< 0.1	1.9	4.2	0.3
60	Common yarrow	1.9	0.2	8.6	< 0.1	0.7	1.8	0.3
61	Golden corydalis	1.9	0.1	6.3	< 0.1	0.3	0.6	0.3
62	Russian pigweed	0.9	0.4	50.0	< 0.1	4.2	4.2	0.3
63	Scentless chamomile	1.2	0.3	27.8	< 0.1	2.3	3.0	0.3
64	Round-leaved mallow	1.1	0.3	30.4	< 0.1	2.6	3.4	0.3
65	Bladder campion	0.8	0.3	41.0	0.1	8.2	12.0	0.2
66	Western snowberry	1.4	0.2	14.5	< 0.1	0.9	1.6	0.2
67	Tall buttercup	1.1	0.3	22.5	< 0.1	2.4	5.6	0.2
68	Aster species	1.2	0.2	18.8	< 0.1	2.3	3.6	0.2
69	Blue grass species	0.8	0.2	26.0	< 0.1	2.5	3.6	0.2
70	Knawel	1.2	0.1	9.7	< 0.1	0.6	2.0	0.2
71	Mouse-eared chickweed	0.6	0.3	48.7	< 0.1	3.7	4.0	0.2
72	Golden-bean	0.5	0.2	30.0	0.1	11.6	11.6	0.2
73	Tumble pigweed	0.8	0.2	25.0	< 0.1	1.8	1.8	0.2
74	Purslane	0.7	0.2	25.0	< 0.1	4.4	4.4	0.2
75	Prickly lettuce	1.1	0.1	7.5	< 0.1	0.3	0.4	0.2
76	Avens species	0.7	0.1	18.7	< 0.1	4.2	5.2	0.1
77	Timothy	1.0	0.1	5.0	< 0.1	0.2	0.4	0.1
78	Common pepper-grass	0.9	0.1	10.0	< 0.1	0.4	0.4	0.1
79	Clasping-leaved pennycress	0.3	0.2	70.0	< 0.1	14.2	14.2	0.1
80	Bicknell's geranium	0.5	0.2	30.0	< 0.1	3.2	3.2	0.1
81	Crested wheat grass	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.1
82	Kochia	0.6	0.1	20.0	< 0.1	1.6	1.6	0.1
83	Field bindweed	0.7	0.1	15.0	< 0.1	0.8	0.8	0.1
84	Field mint	0.5	0.1	25.0	< 0.1	5.8	5.8	0.1
85	Meadow rue species	0.5	0.1	12.6	< 0.1	2.0	3.8	0.1
86	Yellow sweet-clover	0.5	0.1	13.6	< 0.1	1.6	1.8	0.1
87	Strawberry-blite	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
88	Tansy	0.5	< 0.1	10.0	< 0.1	0.6	0.6	0.1
89	Spear-leaved goosefoot	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
90	Wild red raspberry	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
91	Rye	0.5	< 0.1	5.0	< 0.1	0.8	0.8	0.1
92	Water smartweed	0.5	< 0.1	5.0	< 0.1	0.6	0.6	0.1
93	Caraway	0.4	0.1	15.0	< 0.1	1.0	1.0	0.1
94	Showy milkweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
95	Foxtail barley	0.3	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
96	Wild strawberry	0.3	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
97	Marsh hedge-nettle	0.3	< 0.1	5.0	< 0.1	1.2	1.2	< 0.1
98	Henbit	0.2	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
99	Willow species	0.2	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
100	Sedge species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
101	Dock species	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
102	Narrow-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1

Table 151. 1980s Oats in the Peace Lowland Ecoregion (19 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Field horsetail	77.7	46.8	60.3	27.9	36.0	103.4	38.2
2	Stinkweed	96.4	36.8	38.2	20.0	20.8	104.8	31.4
3	Narrow-leaved hawk's-beard	66.3	33.0	49.8	23.6	35.7	286.4	30.4
4	Clover species	64.5	30.6	47.3	14.9	23.1	60.8	23.7
5	Common groundsel	33.6	15.0	44.6	24.8	73.7	442.4	23.5
6	Lamb's-quarters	96.4	24.4	25.3	5.0	5.2	54.8	17.8
7	Dandelion	84.8	19.2	22.6	2.6	3.1	26.0	13.8
8	Wild buckwheat	59.8	21.0	35.2	3.3	5.6	19.0	12.9
9	Hemp-nettle	39.2	11.4	29.0	7.0	17.8	183.8	11.0
10	Canola/rapeseed	41.8	12.9	30.9	3.6	8.6	60.2	9.3
11	Stork's-bill	59.6	12.7	21.3	1.4	2.3	13.6	9.2
12	Barley	46.4	9.6	20.7	1.2	2.6	14.2	7.1
13	Vetch species	55.3	8.3	15.1	0.6	1.2	4.4	7.1
14	Wild oats	35.7	6.5	18.3	2.3	6.4	33.4	6.2
15	Rose species	36.8	6.0	16.3	0.6	1.7	7.2	5.0
16	Low cudweed	15.8	0.8	5.0	3.3	20.8	20.8	3.6
17	Bluebur	26.9	3.6	13.4	0.7	2.5	6.6	3.6
18	Shepherd's-purse	30.5	3.3	10.7	0.3	0.9	1.8	3.5
19	Ball mustard	27.7	3.0	10.9	0.3	1.1	4.8	3.2
20	American dragonhead	19.6	3.7	18.9	0.4	1.9	5.8	2.8
21	Pale smartweed	18.3	3.8	20.5	0.4	2.1	9.4	2.8
22	Willowherb species	26.6	1.8	6.7	0.2	0.6	3.4	2.7
23	Rough cinquefoil	12.3	3.8	30.5	0.4	3.5	6.0	2.3
24	Common yarrow	20.7	1.8	8.6	0.2	0.7	1.8	2.2
25	Alfalfa	9.7	4.2	43.3	0.4	3.8	5.0	2.2
26	Flixweed	17.6	2.5	14.0	0.2	0.9	1.0	2.2
27	Golden corydalis	21.3	1.3	6.3	0.1	0.3	0.6	2.1
28	Corn spurry	5.0	2.1	42.7	1.4	28.1	42.4	1.9
29	Spiny annual sow-thistle	13.2	2.0	14.8	0.2	1.3	4.0	1.7
30	Cleavers	12.9	1.3	10.1	0.3	2.7	3.8	1.6
31	Aster species	9.4	2.1	22.1	0.2	2.6	3.6	1.5
32	Persian darnel	5.7	2.3	40.0	0.2	3.8	3.8	1.2
33	Perennial sow-thistle	10.0	0.7	6.6	< 0.1	0.5	1.0	1.0
34	Round-leaved mallow	5.4	1.4	25.0	0.1	1.6	1.6	0.9
35	Poplar species	7.5	0.6	7.4	0.1	1.1	3.8	0.8
36	Pineappleweed	8.3	0.4	5.0	< 0.1	0.2	0.2	0.8
37	Redroot pigweed	4.9	1.1	21.5	0.1	2.4	3.4	0.8
38	Timothy	8.2	0.4	5.0	< 0.1	0.2	0.4	0.8
39	Broad-leaved plantain	8.2	0.4	5.0	< 0.1	0.2	0.2	0.8
40	Western snowberry	5.7	0.9	15.0	0.1	1.6	1.6	0.7
41	Quack grass	3.3	1.0	30.0	0.2	7.0	7.0	0.7
42	Prostrate knotweed	3.2	1.1	35.0	0.1	4.6	4.6	0.7
43	Blue grass species	5.0	0.7	15.0	0.1	1.6	1.6	0.6
44	Chickweed	5.0	0.6	11.5	< 0.1	0.7	1.0	0.6
45	Wild red raspberry	5.4	0.3	5.0	< 0.1	0.2	0.2	0.5
46	Canada thistle	3.2	0.3	10.0	0.1	4.6	4.6	0.4
47	Foxtail barley	3.2	0.3	10.0	< 0.1	0.8	0.8	0.4
48	Wild strawberry	3.2	0.3	10.0	< 0.1	0.8	0.8	0.4
49	Wheat	1.8	0.5	30.0	0.1	4.2	4.2	0.3
50	Dog mustard	3.2	0.2	5.0	< 0.1	0.2	0.2	0.3
51	Avens species	1.8	0.3	15.0	< 0.1	1.4	1.4	0.2
52	Henbit	1.9	0.2	10.0	< 0.1	0.6	0.6	0.2
53	Willow species	1.7	0.2	10.0	< 0.1	0.8	0.8	0.2
54	Sedge species	1.7	0.1	5.0	< 0.1	0.2	0.2	0.2

**Field Survey Summary Tables – 1980s Oats**

Table 152. 1980s Oats in the Boreal Transition Ecoregion (48 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Hemp-nettle	55.1	28.5	51.8	16.7	30.2	272.0	26.0
2	Wild buckwheat	84.8	45.5	53.7	5.9	7.0	42.2	23.9
3	Chickweed	47.4	23.2	49.0	10.9	23.0	147.8	19.2
4	Lamb's-quarters	67.7	30.5	45.1	6.4	9.5	55.0	19.1
5	Field horsetail	60.5	27.7	45.8	6.3	10.5	57.6	17.7
6	Stinkweed	50.3	27.7	55.2	6.8	13.6	61.2	17.1
7	Green foxtail	33.0	23.9	72.5	8.5	25.8	46.4	15.9
8	Narrow-leaved hawk's-beard	37.1	18.9	50.8	7.0	18.9	109.0	13.9
9	Clover species	30.3	17.1	56.5	7.3	24.0	145.2	13.1
10	Wild oats	33.6	16.7	49.8	5.3	15.9	53.8	11.6
11	Dandelion	42.0	16.4	39.0	2.0	4.7	23.8	9.6
12	Perennial sow-thistle	38.8	13.6	35.0	2.2	5.7	24.8	8.8
13	Shepherd's-purse	20.2	10.3	50.9	4.2	20.9	99.0	7.9
14	Rough cinquefoil	13.8	7.5	54.4	5.0	36.2	179.8	7.3
15	Quack grass	26.3	7.0	26.5	2.1	7.9	66.8	5.9
16	Canada thistle	31.3	8.7	27.8	1.0	3.2	15.2	5.9
17	Pale smartweed	25.8	7.8	30.2	1.7	6.7	56.0	5.8
18	Corn spurry	18.8	6.4	33.8	2.7	14.6	56.0	5.6
19	Bluebur	22.1	7.8	35.3	0.8	3.7	11.8	4.7
20	Stork's-bill	14.8	8.0	54.1	1.5	10.2	38.2	4.6
21	American dragonhead	3.6	2.5	69.0	4.2	117.3	184.0	4.4
22	Barley	22.9	5.9	25.7	0.7	3.2	12.6	4.2
23	Redroot pigweed	22.0	5.7	26.1	0.8	3.7	29.6	4.1
24	Broad-leaved plantain	16.5	4.4	26.5	0.7	4.1	16.8	3.2
25	Barnyard grass	11.0	2.0	18.4	1.8	16.8	125.6	3.1
26	Alfalfa	11.9	4.1	34.6	0.7	6.1	14.4	2.7
27	Flixweed	14.2	3.4	23.7	0.5	3.6	11.6	2.6
28	Night-flowering catchfly	11.9	4.3	36.2	0.4	3.4	7.8	2.5
29	White cockle	9.7	4.0	41.0	0.5	4.8	11.6	2.3
30	Wild mustard	14.6	2.6	17.6	0.2	1.2	3.4	2.2
31	Cleavers	8.6	1.9	22.7	0.8	9.6	44.0	2.0
32	Common groundsel	11.8	2.6	22.5	0.2	1.8	5.4	1.9
33	Vetch species	8.9	2.1	23.9	0.3	2.8	13.0	1.6
34	Tartary buckwheat	8.2	2.4	29.4	0.2	2.4	4.8	1.5
35	Prostrate knotweed	7.2	2.2	31.1	0.3	4.2	11.8	1.5
36	Milk-vetch species	8.4	2.0	23.9	0.2	2.2	5.8	1.4
37	Ball mustard	9.9	1.3	13.1	0.1	0.7	1.8	1.3
38	Fescue species	6.5	1.8	27.5	0.2	3.7	10.0	1.2
39	Low cudweed	3.7	1.4	38.7	0.5	12.6	20.2	1.1
40	Spiny annual sow-thistle	4.2	1.9	46.3	0.2	5.3	10.0	1.0
41	Russian thistle	8.3	0.4	5.0	0.1	1.4	1.4	1.0
42	Pineappleweed	7.4	0.8	11.4	0.1	0.7	1.4	1.0
43	Wild tomato	8.3	0.4	5.0	< 0.1	0.2	0.2	0.9
44	Tall buttercup	5.2	1.2	22.5	0.1	2.4	5.6	0.9
45	Dog mustard	4.7	1.1	24.3	0.2	3.3	5.8	0.9
46	Mouse-eared chickweed	2.7	1.3	48.7	0.1	3.7	4.0	0.6
47	Clasping-leaved pennycress	1.3	0.9	70.0	0.2	14.2	14.2	0.5
48	Bicknell's geranium	2.4	0.7	30.0	0.1	3.2	3.2	0.5
49	Avens species	2.3	0.5	20.0	0.1	5.2	5.2	0.4
50	Wormseed mustard	1.3	0.9	70.0	0.1	6.8	6.8	0.4
51	Cow cockle	2.7	0.4	14.2	< 0.1	1.1	2.0	0.4
52	Blue grass species	1.6	0.7	40.0	0.1	3.6	3.6	0.4
53	Biennial wormwood	2.9	0.3	10.0	< 0.1	0.4	0.4	0.4
54	Meadow rue species	2.4	0.3	12.6	< 0.1	2.0	3.8	0.3

(Table continued on next page)



Table 152. 1980s Oats in the Boreal Transition Ecoregion (48 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Canola/rapeseed	2.8	0.2	7.3	< 0.1	0.3	0.4	0.3
56	Yellow sweet-clover	2.1	0.3	15.0	< 0.1	1.8	1.8	0.3
57	Strawberry-blite	2.7	0.1	5.0	< 0.1	0.2	0.2	0.3
58	Tansy	2.3	0.2	10.0	< 0.1	0.6	0.6	0.3
59	Caraway	1.6	0.2	15.0	< 0.1	1.0	1.0	0.2
60	Aster species	1.5	0.2	10.0	< 0.1	1.2	1.2	0.2
61	Rose species	1.6	0.1	5.0	< 0.1	0.8	0.8	0.2
62	Marsh hedge-nettle	1.2	0.1	5.0	< 0.1	1.2	1.2	0.1
63	Scentless chamomile	1.3	0.1	5.0	< 0.1	0.2	0.2	0.1
64	Timothy	1.2	0.1	5.0	< 0.1	0.2	0.2	0.1

**Field Survey Summary Tables – 1980s Oats**

Table 153. 1980s Oats in the Aspen Parkland Ecoregion (60 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	55.9	41.8	74.8	56.8	101.5	803.2	67.0
2	Wild buckwheat	81.9	44.5	54.3	8.8	10.8	144.4	31.8
3	Wild oats	49.8	21.7	43.7	7.3	14.6	174.8	19.1
4	Lamb's-quarters	56.1	20.4	36.3	6.0	10.7	102.6	18.4
5	Stinkweed	53.1	16.7	31.5	6.6	12.3	192.6	17.3
6	Pale smartweed	51.1	18.8	36.8	3.3	6.5	54.8	15.1
7	Chickweed	29.6	14.6	49.3	6.8	23.0	152.6	14.0
8	Hemp-nettle	29.9	12.5	41.6	3.3	11.1	63.4	10.5
9	Canada thistle	43.4	10.3	23.7	1.3	3.0	37.2	9.7
10	Black medick	8.9	8.5	95.0	5.7	63.2	63.2	8.5
11	Perennial sow-thistle	33.8	6.9	20.4	1.0	2.8	35.2	7.1
12	Barley	30.9	7.1	23.1	0.8	2.7	15.8	6.8
13	Redroot pigweed	17.1	8.1	47.3	1.9	11.1	34.0	6.3
14	Wild mustard	20.8	8.6	41.4	1.1	5.2	9.4	6.2
15	Night-flowering catchfly	15.9	8.6	54.3	1.6	10.1	38.0	6.1
16	Quack grass	22.9	4.1	17.7	1.4	6.0	67.0	5.2
17	Russian thistle	22.5	3.7	16.3	0.3	1.3	6.0	4.2
18	Corn spurry	10.4	3.8	36.8	0.9	8.8	28.2	3.3
19	Field horsetail	14.5	3.3	22.7	0.4	3.0	17.2	3.2
20	Shepherd's-purse	13.5	3.2	23.3	0.5	3.4	20.6	3.0
21	Narrow-leaved hawk's-beard	12.3	1.9	15.7	1.1	8.9	153.0	3.0
22	Common groundsel	13.8	2.2	16.0	0.3	2.1	12.2	2.6
23	Dandelion	8.4	2.7	31.9	0.3	3.2	9.8	2.1
24	Canola/rapeseed	12.9	0.7	5.4	< 0.1	0.3	1.2	1.8
25	Clover species	6.0	2.1	35.0	0.3	5.5	18.4	1.7
26	Canary grass	3.4	1.7	51.2	0.8	24.2	39.0	1.7
27	Alfalfa	7.3	1.6	21.5	0.1	1.6	4.2	1.5
28	Rough cinquefoil	4.5	1.5	32.8	0.4	8.2	25.6	1.3
29	Bluebur	7.7	1.1	13.7	0.1	0.9	4.8	1.3
30	Cow cockle	4.8	1.4	29.2	0.3	6.9	13.0	1.3
31	Wormseed mustard	3.9	1.0	25.1	0.5	12.2	34.0	1.2
32	Low cudweed	4.6	0.9	19.3	0.3	6.0	15.2	1.1
33	Flixweed	6.1	0.9	14.0	< 0.1	0.7	1.0	1.1
34	Wheat	5.5	0.9	16.5	< 0.1	0.8	1.2	1.0
35	Cleavers	5.2	0.7	12.6	0.1	1.5	3.0	0.9
36	Rose species	5.1	0.6	12.0	0.1	1.2	3.8	0.9
37	Yellow toadflax	3.3	0.9	27.2	0.2	5.8	13.8	0.9
38	Flax	1.1	1.1	100.0	0.4	34.4	34.4	0.8
39	White cockle	5.1	0.5	10.1	< 0.1	0.7	1.8	0.8
40	Poplar species	3.2	1.1	35.0	0.1	2.4	2.4	0.8
41	Broad-leaved plantain	4.5	0.4	9.4	0.1	1.3	4.0	0.7
42	Biennial wormwood	1.3	0.9	70.0	0.2	18.2	18.2	0.7
43	Russian pigweed	2.0	1.0	50.0	0.1	4.2	4.2	0.6
44	Pineappleweed	4.1	0.3	8.2	< 0.1	0.9	2.0	0.6
45	Bladder campion	1.8	0.8	41.0	0.2	8.2	12.0	0.6
46	Tartary buckwheat	2.0	0.9	42.5	0.1	3.1	5.0	0.6
47	Scentless chamomile	2.1	0.7	35.0	0.1	3.0	3.0	0.5
48	Barnyard grass	3.2	0.3	10.0	< 0.1	1.0	1.0	0.5
49	Stork's-bill	1.3	0.8	60.0	0.1	6.2	6.2	0.5
50	Dog mustard	1.2	0.7	60.0	0.1	7.6	7.6	0.5
51	Knawel	2.7	0.3	9.7	< 0.1	0.6	2.0	0.4
52	Golden-bean	1.3	0.4	30.0	0.1	11.6	11.6	0.4
53	Prickly lettuce	2.6	0.2	7.5	< 0.1	0.3	0.4	0.4
54	Common pepper-grass	2.1	0.2	10.0	< 0.1	0.4	0.4	0.3

(Table continued on next page)

Table 153. 1980s Oats in the Aspen Parkland Ecoregion (60 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Crested wheat grass	2.1	0.1	5.0	< 0.1	0.4	0.4	0.3
56	Persian darnel	2.1	0.1	5.0	< 0.1	0.2	0.2	0.3
57	Field bindweed	1.6	0.2	15.0	< 0.1	0.8	0.8	0.3
58	Field mint	1.1	0.3	25.0	0.1	5.8	5.8	0.3
59	Prostrate pigweed	1.4	0.1	5.0	< 0.1	0.2	0.2	0.2
60	Ball mustard	1.3	0.1	5.0	< 0.1	0.6	0.6	0.2
61	Spiny annual sow-thistle	1.3	0.1	5.0	< 0.1	0.2	0.2	0.2
62	Spear-leaved goosefoot	1.3	0.1	5.0	< 0.1	0.2	0.2	0.2
63	American dragonhead	0.6	0.2	25.0	< 0.1	1.2	1.2	0.1
64	Vetch species	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 154. 1980s Oats in the Fescue Grassland Ecoregion (10 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	95.8	59.7	62.4	20.8	21.7	49.4	99.3
2	Stinkweed	84.9	28.7	33.8	5.1	6.0	20.8	41.9
3	Lamb's-quarters	50.4	15.2	30.2	2.6	5.2	12.8	23.0
4	Canada thistle	45.4	15.9	35.0	2.6	5.7	12.4	22.4
5	Redroot pigweed	37.8	11.3	30.0	2.0	5.3	25.4	17.2
6	Shepherd's-purse	32.8	13.0	39.6	1.6	5.0	25.6	16.4
7	Wild mustard	17.6	11.6	65.7	1.3	7.6	8.8	12.5
8	Cow cockle	15.1	6.8	45.0	2.5	16.2	16.2	12.2
9	Wild oats	30.3	7.6	25.0	0.3	1.1	1.2	9.8
10	Flixweed	30.3	2.3	7.5	0.2	0.7	1.0	6.7
11	Barnyard grass	15.1	2.3	15.0	0.6	4.0	4.0	5.2
12	Dandelion	17.6	1.1	6.4	0.1	0.4	0.6	3.7
13	Prostrate knotweed	15.1	1.5	10.0	0.1	0.4	0.4	3.4
14	Wild tomato	15.1	1.5	10.0	0.1	0.4	0.4	3.4
15	Bluebur	15.1	0.8	5.0	0.1	0.8	0.8	3.2
16	Rye	15.1	0.8	5.0	0.1	0.8	0.8	3.2
17	Water smartweed	15.1	0.8	5.0	0.1	0.6	0.6	3.1
18	Persian darnel	15.1	0.8	5.0	0.1	0.4	0.4	3.0
19	Rose species	15.1	0.8	5.0	0.1	0.4	0.4	3.0
20	Hemp-nettle	15.1	0.8	5.0	< 0.1	0.2	0.2	2.9
21	Barley	15.1	0.8	5.0	< 0.1	0.2	0.2	2.9
22	Tartary buckwheat	1.7	0.9	55.0	0.1	5.2	5.2	1.0
23	Western snowberry	2.5	0.1	5.0	< 0.1	0.2	0.2	0.5

**Field Survey Summary Tables – 1980s Oats**

Table 155. 1980s Oats in the Moist Mixed Grassland Ecoregion (16 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	85.3	54.7	64.1	44.0	51.6	263.0	78.3
2	Wild buckwheat	100.0	55.0	55.0	16.8	16.8	162.8	55.2
3	Lamb's-quarters	69.7	17.0	24.4	14.2	20.3	194.0	31.7
4	Russian thistle	36.7	29.9	81.6	13.9	38.0	129.6	31.7
5	Stinkweed	40.0	10.3	25.6	4.8	11.9	69.6	15.3
6	Wild oats	55.0	12.1	21.9	1.4	2.5	4.0	15.3
7	Thyme-leaved spurge	24.9	14.9	60.0	2.8	11.4	11.4	13.0
8	Redroot pigweed	29.9	6.8	22.8	3.8	12.7	73.8	11.3
9	Canada thistle	19.8	5.2	26.3	0.7	3.4	7.0	6.0
10	Pale smartweed	10.9	4.9	45.0	0.8	7.4	14.4	4.6
11	Wild mustard	11.3	4.3	38.6	0.9	8.0	17.6	4.5
12	Flixweed	11.4	3.3	28.8	0.3	2.5	4.6	3.5
13	Rose species	15.6	1.4	9.3	0.2	1.4	2.2	3.3
14	Alfalfa	11.4	2.5	21.8	0.2	1.9	3.8	3.1
15	Dandelion	10.1	1.6	15.8	0.1	1.3	2.8	2.4
16	Bluebur	9.3	1.2	12.9	0.1	0.9	1.2	2.1
17	Barnyard grass	9.8	0.5	5.0	0.1	1.4	2.0	1.9
18	Quack grass	3.9	1.7	45.0	0.5	14.0	14.0	1.9
19	Prostrate pigweed	5.9	1.5	25.0	0.2	3.0	3.0	1.7
20	Tumble pigweed	5.6	1.4	25.0	0.1	1.8	1.8	1.6
21	Purslane	5.0	1.2	25.0	0.2	4.4	4.4	1.5
22	White cockle	5.5	1.1	20.0	0.1	2.4	2.4	1.5
23	Western snowberry	5.9	0.9	15.0	< 0.1	0.6	0.6	1.4
24	Barley	5.9	0.6	10.0	< 0.1	0.6	0.6	1.2
25	Flax	5.9	0.3	5.0	< 0.1	0.2	0.2	1.1
26	Hemp-nettle	5.5	0.3	5.0	< 0.1	0.6	0.6	1.0
27	Canola/rapeseed	5.5	0.3	5.0	< 0.1	0.4	0.4	1.0
28	Shepherd's-purse	5.5	0.3	5.0	< 0.1	0.2	0.2	1.0
29	Stork's-bill	5.5	0.3	5.0	< 0.1	0.2	0.2	1.0
30	Perennial sow-thistle	3.9	0.6	15.0	0.1	2.2	2.2	1.0

Table 156. 1980s Canola/rapeseed (303 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	72.9	36.5	50.0	14.4	19.8	335.6	49.0
2	Lamb's-quarters	54.0	20.2	37.5	5.1	9.4	282.2	24.3
3	Wild oats	61.0	19.1	31.3	3.9	6.4	113.2	22.9
4	Wild buckwheat	55.7	18.7	33.6	3.6	6.4	166.0	21.5
5	Shepherd's-purse	36.4	12.5	34.3	5.1	14.1	473.8	18.6
6	Chickweed	15.9	8.2	51.4	5.7	35.6	365.4	14.8
7	Field horsetail	26.8	9.6	35.8	2.9	10.9	83.4	12.5
8	Pale smartweed	39.7	10.8	27.1	1.4	3.4	44.6	12.3
9	Canada thistle	38.9	7.1	18.2	0.7	1.8	14.2	9.5
10	Narrow-leaved hawk's-beard	19.2	5.8	30.1	2.7	13.9	390.6	9.4
11	Green foxtail	23.2	6.3	27.0	1.8	7.9	132.0	8.8
12	Common groundsel	17.4	5.5	31.5	2.5	14.3	210.8	8.7
13	Perennial sow-thistle	26.7	4.9	18.3	0.6	2.2	20.0	6.7
14	Hemp-nettle	16.6	4.9	29.5	1.4	8.2	92.6	6.5
15	Wild mustard	18.3	4.8	26.1	1.1	6.3	109.2	6.4
16	Barley	16.6	5.5	32.9	1.1	6.5	47.8	6.4
17	Bluebur	18.5	4.1	22.4	0.6	3.3	79.4	5.3
18	Quack grass	17.0	3.8	22.2	0.8	4.8	37.2	5.2
19	Wheat	13.5	3.8	28.4	0.7	5.1	29.0	4.6
20	Redroot pigweed	14.7	3.0	20.7	0.5	3.1	37.0	4.1
21	Flixweed	11.3	2.2	19.3	0.4	3.6	68.0	3.1
22	Ball mustard	6.5	1.1	16.7	0.8	11.9	137.8	2.6
23	Cleavers	9.3	2.1	22.8	0.2	2.3	10.6	2.5
24	Clover species	5.5	1.7	31.3	0.6	10.9	136.0	2.4
25	Pineappleweed	6.9	1.1	15.8	0.6	9.3	145.2	2.4
26	Dandelion	9.3	1.3	14.3	0.1	1.1	7.2	2.0
27	Corn spurry	5.8	1.4	23.9	0.4	6.3	129.4	2.0
28	Rose species	9.9	1.0	10.1	0.1	0.8	3.6	1.9
29	Wild tomato	6.1	1.7	27.5	0.2	3.3	18.2	1.9
30	Night-flowering catchfly	5.3	1.5	28.5	0.3	4.8	33.0	1.8
31	Flax	3.4	1.5	44.8	0.3	9.9	28.0	1.7
32	Yellow sweet-clover	2.0	0.8	42.2	0.4	19.7	62.2	1.3
33	Russian thistle	6.3	0.7	11.3	0.1	0.9	3.6	1.3
34	Wormseed mustard	3.5	1.2	34.2	0.1	3.8	11.0	1.2
35	Spiny annual sow-thistle	4.0	0.9	21.7	0.1	2.6	20.4	1.1
36	Alfalfa	2.3	0.8	34.0	0.2	7.7	40.8	1.0
37	Dog mustard	1.2	0.6	45.9	0.2	17.4	48.6	0.7
38	Mouse-eared chickweed	0.4	0.1	29.8	0.3	80.5	162.0	0.6
39	Biennial wormwood	3.0	0.3	10.9	< 0.1	0.8	3.2	0.6
40	Vetch species	3.2	0.3	8.0	< 0.1	0.5	1.6	0.6
41	Cow cockle	2.0	0.3	16.8	0.1	3.5	27.0	0.5
42	Tartary buckwheat	1.0	0.6	54.7	0.1	7.8	19.8	0.5
43	Stork's-bill	2.6	0.3	12.0	< 0.1	0.7	2.6	0.5
44	Common pepper-grass	1.3	0.4	27.5	0.1	8.6	29.2	0.5
45	Low cudweed	0.6	0.2	30.0	0.2	34.4	68.2	0.5
46	Prostrate knotweed	2.4	0.3	13.0	< 0.1	0.5	1.2	0.5
47	American dragonhead	2.4	0.3	11.2	< 0.1	0.9	2.4	0.5
48	Broad-leaved plantain	1.7	0.2	12.5	< 0.1	2.8	11.6	0.4
49	Thyme-leaved spurge	0.9	0.4	42.6	0.1	7.5	23.2	0.4
50	Round-leaved mallow	1.3	0.1	11.5	0.1	5.9	23.2	0.4
51	Common yarrow	1.3	0.3	22.8	< 0.1	2.7	14.2	0.4
52	Vetchling species	2.0	0.1	6.7	< 0.1	0.5	1.2	0.3
53	White cockle	1.3	0.2	14.7	< 0.1	2.5	9.4	0.3
54	Willowherb species	1.0	0.2	21.2	< 0.1	4.2	10.4	0.3

(Table continued on next page)

**Field Survey Summary Tables – 1980s Canola/rapeseed**

Table 156. 1980s Canola/rapeseed (303 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Yellow toadflax	1.1	0.1	8.0	0.1	4.6	19.8	0.3
56	Canola/rapeseed	1.0	0.2	16.5	< 0.1	1.7	3.4	0.2
57	Kochia	1.1	0.1	12.5	< 0.1	0.6	0.8	0.2
58	Water smartweed	1.1	0.1	8.5	< 0.1	1.5	2.2	0.2
59	Golden corydalis	0.7	0.1	21.2	< 0.1	1.7	3.8	0.2
60	Persian dandelion	0.9	0.1	10.0	< 0.1	0.5	0.8	0.2
61	Showy milkweed	0.8	0.1	11.7	< 0.1	0.9	1.2	0.2
62	Absinth	0.2	0.1	35.0	< 0.1	19.8	19.8	0.1
63	Povertyweed	0.2	0.1	30.0	< 0.1	20.0	20.0	0.1
64	Russian pigweed	0.5	0.1	25.0	< 0.1	1.8	1.8	0.1
65	Poplar species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Canada fleabane	0.2	0.1	70.0	< 0.1	7.2	7.2	0.1
67	Common burdock	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
68	Milk-vetch species	0.5	0.1	17.9	< 0.1	0.8	1.2	0.1
69	Skeletonweed	0.5	< 0.1	10.0	< 0.1	2.0	2.0	0.1
70	Scentless chamomile	0.6	< 0.1	7.2	< 0.1	0.3	0.4	0.1
71	Corn	0.5	0.1	10.0	< 0.1	0.4	0.4	0.1
72	Black medick	0.5	< 0.1	5.0	< 0.1	1.0	1.0	0.1
73	Hare's-ear mustard	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
74	Gray tansy mustard	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
75	Prickly lettuce	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
76	Proso millet	0.1	0.1	60.0	< 0.1	11.0	11.0	0.1
77	Oats	0.3	0.1	20.0	< 0.1	0.8	0.8	0.1
78	Henbit	0.4	< 0.1	8.7	< 0.1	1.4	4.2	0.1
79	Spear-leaved goosefoot	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Timothy	0.3	< 0.1	18.1	< 0.1	2.2	2.8	0.1
81	Ground-ivy	0.3	< 0.1	15.0	< 0.1	0.8	0.8	0.1
82	Rye	0.3	< 0.1	10.0	< 0.1	0.8	0.8	0.1
83	Knawel	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
84	Bicknell's geranium	0.3	< 0.1	8.0	< 0.1	0.3	0.4	0.1
85	Rough cinquefoil	0.3	< 0.1	10.0	< 0.1	1.2	1.2	0.1
86	Indian mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
87	Pasture sage	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
88	Field mint	0.3	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
89	Aster species	0.3	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
90	Barnyard grass	0.1	< 0.1	30.0	< 0.1	2.6	2.6	< 0.1
91	Purslane	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
92	Wood whitlow-grass	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
93	Fescue species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
94	Blue grass species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
95	Spreading dogbane	0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
96	Toad rush	0.1	< 0.1	5.0	< 0.1	1.2	1.2	< 0.1
97	Purslane speedwell	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
98	Meadow rue species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 157. 1980s Canola/rapeseed in the Peace Lowland Ecoregion (60 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	89.9	52.6	58.5	35.1	39.1	335.6	51.5
2	Lamb's-quarters	85.2	39.7	46.6	21.0	24.7	282.2	36.3
3	Field horsetail	70.3	29.9	42.6	11.4	16.2	83.4	24.6
4	Narrow-leaved hawk's-beard	48.8	20.0	41.0	15.9	32.7	390.6	22.9
5	Wild buckwheat	61.7	21.5	34.8	5.0	8.0	97.6	16.3
6	Shepherd's-purse	51.6	12.5	24.2	9.3	18.1	473.8	15.8
7	Wild oats	67.5	16.9	25.0	5.1	7.6	111.6	15.5
8	Common groundsel	43.3	17.4	40.3	6.6	15.3	158.8	14.5
9	Bluebur	43.8	12.9	29.5	3.1	7.0	79.4	10.4
10	Perennial sow-thistle	47.4	12.0	25.4	2.2	4.7	20.0	9.9
11	Clover species	25.3	10.9	43.0	4.4	17.6	136.0	9.1
12	Dandelion	39.9	6.9	17.4	0.5	1.4	7.2	6.3
13	Hemp-nettle	23.3	6.3	27.0	1.2	5.0	17.2	5.0
14	Wheat	17.3	5.3	30.4	0.7	4.3	20.2	3.8
15	Pineappleweed	16.6	3.2	19.5	1.2	7.1	55.0	3.5
16	Barley	20.2	3.2	16.0	0.5	2.5	17.4	3.3
17	Quack grass	20.6	3.1	15.0	0.4	2.1	12.0	3.2
18	Canada thistle	20.0	2.9	14.7	0.5	2.5	6.8	3.2
19	Cleavers	17.9	3.3	18.4	0.5	3.0	8.0	3.1
20	Rose species	23.5	2.3	9.7	0.2	0.8	2.2	3.1
21	Ball mustard	20.9	2.3	11.0	0.3	1.3	5.6	2.9
22	Alfalfa	12.7	3.8	29.7	0.4	3.4	6.8	2.7
23	Pale smartweed	17.8	2.7	15.3	0.2	1.4	6.2	2.7
24	Flixweed	15.0	3.3	21.6	0.3	1.9	5.8	2.6
25	Stork's-bill	16.4	2.0	12.4	0.1	0.8	2.6	2.3
26	Corn spurry	4.6	1.5	31.9	1.7	36.1	129.4	2.1
27	Vetch species	16.4	1.3	7.8	0.1	0.5	1.6	2.0
28	Biennial wormwood	14.4	1.6	11.1	0.1	1.0	3.2	1.9
29	Yellow sweet-clover	7.6	2.5	33.0	0.5	6.9	29.0	1.9
30	Common yarrow	9.9	2.3	22.8	0.3	2.7	14.2	1.8
31	Willowherb species	8.0	1.7	21.2	0.3	4.2	10.4	1.5
32	Spiny annual sow-thistle	6.1	1.9	31.6	0.3	4.2	13.6	1.4
33	American dragonhead	9.9	1.1	11.2	0.1	1.0	2.4	1.3
34	Broad-leaved plantain	6.5	1.3	20.1	0.3	5.3	11.6	1.3
35	Redroot pigweed	8.1	0.9	11.0	0.1	1.8	3.2	1.1
36	Chickweed	5.5	0.8	15.5	0.2	3.9	17.0	0.9
37	Prostrate knotweed	6.9	0.7	9.9	< 0.1	0.4	0.8	0.9
38	Golden corydalis	5.0	1.1	21.2	0.1	1.7	3.8	0.9
39	Common pepper-grass	4.3	1.0	22.5	0.2	4.4	8.6	0.9
40	Yellow toadflax	4.2	0.4	8.5	0.3	6.9	19.8	0.7
41	Absinth	1.9	0.7	35.0	0.4	19.8	19.8	0.7
42	Wild mustard	2.8	0.5	17.4	< 0.1	1.0	1.2	0.4
43	Milk-vetch species	2.4	0.6	25.0	< 0.1	1.2	1.2	0.4
44	Timothy	2.0	0.4	18.1	< 0.1	2.2	2.8	0.3
45	Water smartweed	1.9	0.4	20.0	< 0.1	1.2	1.2	0.3
46	Ground-ivy	2.1	0.3	15.0	< 0.1	0.8	0.8	0.3
47	Rough cinquefoil	2.0	0.2	10.0	< 0.1	1.2	1.2	0.3
48	Vetchling species	2.1	0.2	10.0	< 0.1	0.6	0.6	0.3
49	Field mint	2.1	0.1	5.0	< 0.1	0.6	0.6	0.2
50	Wormseed mustard	2.1	0.1	5.0	< 0.1	0.4	0.4	0.2
51	Aster species	2.1	0.1	5.0	< 0.1	0.4	0.4	0.2
52	Poplar species	2.1	0.1	5.0	< 0.1	0.2	0.2	0.2
53	Henbit	1.4	0.1	7.6	< 0.1	2.4	4.2	0.2
54	Mouse-eared chickweed	1.5	0.1	5.0	< 0.1	0.4	0.4	0.2

(Table continued on next page)

**Field Survey Summary Tables – 1980s Canola/rapeseed**

Table 157. 1980s Canola/rapeseed in the Peace Lowland Ecoregion (60 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Fescue species	1.3	0.1	5.0	< 0.1	0.2	0.2	0.1
56	Spreading dogbane	0.7	0.1	10.0	< 0.1	0.8	0.8	0.1
57	Toad rush	0.7	< 0.1	5.0	< 0.1	1.2	1.2	0.1
58	Purslane speedwell	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
59	Meadow rue species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
60	Tartary buckwheat	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1



Table 158. 1980s Canola/rapeseed in the Boreal Transition Ecoregion (74 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	71.0	27.9	39.3	6.2	8.7	83.2	36.9
2	Wild oats	70.6	23.4	33.2	4.4	6.3	113.2	30.8
3	Chickweed	24.3	12.5	51.5	9.2	37.6	304.0	30.0
4	Lamb's-quarters	59.5	22.8	38.3	2.7	4.5	19.6	25.0
5	Wild buckwheat	54.8	15.6	28.4	2.2	4.0	35.0	19.8
6	Field horsetail	38.6	14.1	36.4	3.4	8.9	71.4	19.8
7	Shepherd's-purse	35.5	11.3	31.7	3.2	9.1	216.8	17.6
8	Pale smartweed	46.3	10.9	23.5	0.9	1.9	16.2	13.5
9	Canada thistle	44.7	9.0	20.1	0.7	1.5	8.2	11.9
10	Wild mustard	19.2	5.1	26.4	2.3	11.8	109.2	10.2
11	Hemp-nettle	21.6	6.9	31.9	1.6	7.5	37.4	9.9
12	Perennial sow-thistle	27.2	4.7	17.2	0.4	1.4	17.4	6.8
13	Common groundsel	16.9	5.0	29.7	0.9	5.4	45.6	6.8
14	Narrow-leaved hawk's-beard	19.5	4.4	22.6	0.6	3.1	26.8	6.1
15	Quack grass	19.6	3.3	17.0	0.7	3.5	36.2	5.8
16	Green foxtail	14.1	3.4	23.8	0.6	4.5	22.0	5.0
17	Flax	6.3	3.8	60.9	0.9	14.1	28.0	4.7
18	Bluebur	19.0	3.1	16.4	0.2	1.2	8.0	4.6
19	Redroot pigweed	9.4	3.2	33.6	0.7	8.0	37.0	4.5
20	Cleavers	13.4	3.7	27.8	0.2	1.7	5.0	4.1
21	Barley	13.9	3.1	22.0	0.2	1.6	6.6	3.9
22	Wheat	4.3	1.7	39.5	0.5	11.0	29.0	2.5
23	Wormseed mustard	4.2	2.3	54.7	0.3	7.1	11.0	2.4
24	Corn spurry	6.5	1.2	19.3	0.1	2.3	5.4	1.8
25	Tartary buckwheat	1.3	1.2	92.6	0.2	18.8	19.8	1.3
26	Spiny annual sow-thistle	5.7	0.8	13.4	< 0.1	0.7	1.6	1.2
27	Night-flowering catchfly	5.1	0.7	13.1	< 0.1	0.7	1.0	1.1
28	Flixweed	4.2	0.7	17.8	0.1	1.5	2.8	1.1
29	Pineappleweed	4.0	0.8	19.1	< 0.1	1.1	2.0	1.0
30	Dandelion	4.1	0.7	18.0	< 0.1	1.0	5.8	1.0
31	Vetchling species	5.4	0.3	6.5	< 0.1	0.5	1.2	1.0
32	Rose species	4.6	0.4	9.0	< 0.1	0.5	0.6	0.9
33	Ball mustard	4.0	0.2	5.8	< 0.1	0.2	0.4	0.7
34	Povertyweed	0.9	0.3	30.0	0.2	20.0	20.0	0.7
35	Clover species	3.0	0.4	12.1	< 0.1	0.8	3.8	0.6
36	American dragonhead	2.6	0.4	15.0	< 0.1	1.2	1.2	0.6
37	Vetch species	2.7	0.3	9.8	< 0.1	0.5	0.8	0.5
38	Round-leaved mallow	2.6	0.1	5.0	< 0.1	0.6	0.6	0.4
39	Canola/rapeseed	1.2	0.4	30.0	< 0.1	3.4	3.4	0.4
40	Common burdock	2.6	0.1	5.0	< 0.1	0.2	0.2	0.4
41	Prostrate knotweed	2.6	0.1	5.0	< 0.1	0.2	0.2	0.4
42	Biennial wormwood	2.6	0.1	5.0	< 0.1	0.2	0.2	0.4
43	White cockle	1.8	0.1	8.3	< 0.1	0.5	0.6	0.3
44	Gray tansy mustard	1.6	0.2	10.0	< 0.1	0.4	0.4	0.3
45	Broad-leaved plantain	1.6	0.1	5.0	< 0.1	0.2	0.2	0.3
46	Scentless chamomile	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
47	Wild tomato	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
48	Stork's-bill	0.7	0.1	10.0	< 0.1	0.4	0.4	0.1
49	Alfalfa	0.7	< 0.1	5.0	< 0.1	0.6	0.6	0.1
50	Henbit	0.6	0.1	10.0	< 0.1	0.4	0.4	0.1
51	Prickly lettuce	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
52	Milk-vetch species	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
53	Wood whitlow-grass	0.5	0.1	10.0	< 0.1	0.6	0.6	0.1
54	Blue grass species	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1

**Field Survey Summary Tables – 1980s Canola/rapeseed**

Table 159. 1980s Canola/rapeseed in the Aspen Parkland Ecoregion (118 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	74.3	39.9	53.7	14.2	19.1	204.2	52.6
2	Shepherd's-purse	39.9	16.2	40.5	6.0	15.1	156.0	23.1
3	Wild buckwheat	54.1	19.9	36.8	3.0	5.5	54.0	21.6
4	Wild oats	57.7	17.1	29.7	3.4	5.9	69.4	21.6
5	Chickweed	20.4	11.1	54.3	7.5	36.7	365.4	20.7
6	Lamb's-quarters	44.3	15.2	34.2	2.6	5.9	51.2	17.5
7	Pale smartweed	42.9	12.6	29.3	1.7	3.9	42.8	14.5
8	Green foxtail	32.1	8.8	27.5	2.4	7.3	115.6	12.5
9	Canada thistle	43.7	8.0	18.2	0.8	1.8	14.2	11.1
10	Common groundsel	17.1	4.4	25.8	3.3	19.2	210.8	10.0
11	Barley	18.0	8.1	44.8	1.6	8.9	38.8	8.9
12	Hemp-nettle	18.2	5.2	28.6	1.8	9.9	92.6	8.0
13	Narrow-leaved hawk's-beard	16.7	4.6	27.8	1.1	6.3	44.8	6.2
14	Perennial sow-thistle	24.1	3.7	15.3	0.4	1.5	15.4	5.6
15	Wheat	15.9	4.1	25.6	0.7	4.5	18.8	5.3
16	Wild mustard	15.9	4.2	26.4	0.5	3.4	28.2	5.0
17	Field horsetail	15.1	3.2	21.4	0.7	4.3	14.4	4.7
18	Quack grass	14.6	3.7	25.4	0.5	3.7	14.2	4.6
19	Wild tomato	12.6	3.5	27.7	0.4	3.2	18.2	4.0
20	Pineappleweed	8.7	1.1	12.8	1.1	13.0	145.2	3.7
21	Bluebur	12.7	3.0	23.7	0.3	2.3	9.0	3.6
22	Redroot pigweed	12.5	2.1	16.5	0.2	1.6	12.0	3.0
23	Flixweed	9.0	1.5	16.7	0.6	6.4	68.0	2.9
24	Night-flowering catchfly	5.7	2.2	39.1	0.4	6.9	33.0	2.5
25	Corn spurry	8.1	2.0	24.8	0.3	3.2	11.0	2.5
26	Russian thistle	11.2	1.3	11.5	0.1	1.0	2.8	2.3
27	Yellow sweet-clover	2.4	1.2	50.9	0.8	31.8	62.2	2.2
28	Cleavers	7.4	1.6	21.2	0.2	2.7	10.6	2.1
29	Rose species	9.0	1.1	12.6	0.1	1.0	3.6	1.9
30	Wormseed mustard	4.9	1.3	26.8	0.1	2.4	5.0	1.5
31	Dog mustard	2.2	0.8	37.3	0.3	14.4	48.6	1.2
32	Low cudweed	1.4	0.4	30.0	0.5	34.4	68.2	1.2
33	Spiny annual sow-thistle	3.9	1.0	24.8	0.1	3.5	20.4	1.2
34	Flax	2.4	1.1	43.6	0.2	9.2	21.2	1.2
35	Ball mustard	5.2	0.7	13.0	< 0.1	1.0	4.6	1.1
36	Dandelion	5.9	0.4	7.0	< 0.1	0.3	0.6	1.0
37	Alfalfa	1.2	0.7	59.2	0.3	24.6	40.8	1.0
38	Common pepper-grass	0.7	0.5	70.0	0.2	29.2	29.2	0.7
39	Round-leaved mallow	1.5	0.3	18.6	0.2	11.8	23.2	0.6
40	Clover species	2.7	0.4	14.7	< 0.1	1.0	2.6	0.6
41	Tartary buckwheat	1.4	0.6	40.0	< 0.1	2.6	3.0	0.5
42	Russian pigweed	1.1	0.3	25.0	< 0.1	1.8	1.8	0.3
43	Canola/rapeseed	1.5	0.2	10.0	< 0.1	0.8	0.8	0.3
44	Yellow toadflax	1.4	0.1	7.5	< 0.1	2.5	4.4	0.3
45	Canada fleabane	0.5	0.3	70.0	< 0.1	7.2	7.2	0.3
46	Biennial wormwood	1.0	0.2	20.0	< 0.1	1.0	1.0	0.2
47	Skeletonweed	1.1	0.1	10.0	< 0.1	2.0	2.0	0.2
48	Cow cockle	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
49	Poplar species	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
50	Oats	0.7	0.1	20.0	< 0.1	0.8	0.8	0.2
51	American dragonhead	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.2
52	Rye	0.7	0.1	10.0	< 0.1	0.8	0.8	0.1
53	Vetch species	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
54	Knawel	0.7	0.1	10.0	< 0.1	0.4	0.4	0.1

(Table continued on next page)

Table 159. 1980s Canola/rapeseed in the Aspen Parkland Ecoregion (118 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Water smartweed	0.7	< 0.1	5.0	< 0.1	0.6	0.6	0.1
56	Stork's-bill	0.6	0.1	10.0	< 0.1	0.4	0.4	0.1
57	Prickly lettuce	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
58	Indian mustard	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
59	Pasture sage	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
60	Scentless chamomile	0.6	0.1	10.0	< 0.1	0.4	0.4	0.1
61	Showy milkweed	0.6	< 0.1	5.0	< 0.1	0.4	0.4	0.1
62	Purslane	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 160. 1980s Canola/rapeseed in the Fescue Grassland Ecoregion (10 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	90.0	69.0	76.7	52.0	57.7	138.6	102.2
2	Shepherd's-purse	50.0	24.0	48.0	18.2	36.4	125.4	38.7
3	Wild buckwheat	80.0	26.0	32.5	6.2	7.7	38.8	32.0
4	Wild oats	50.0	27.0	54.0	9.6	19.2	41.0	31.2
5	Canada thistle	60.0	15.0	25.0	2.1	3.4	7.2	19.2
6	Lamb's-quarters	50.0	8.0	16.0	0.6	1.3	3.4	12.7
7	Redroot pigweed	40.0	8.0	20.0	0.8	2.0	5.0	11.2
8	Flixweed	40.0	4.0	10.0	0.3	0.7	1.8	8.8
9	Cow cockle	10.0	8.5	85.0	2.7	27.0	27.0	8.5
10	Wheat	10.0	7.5	75.0	1.5	15.4	15.4	6.8
11	Quack grass	30.0	1.5	5.0	0.3	0.9	1.2	5.9
12	Dandelion	20.0	2.0	10.0	0.6	3.1	5.8	4.9
13	Pale smartweed	20.0	1.5	7.5	0.1	0.5	0.6	4.1
14	Wild mustard	10.0	2.0	20.0	0.1	1.4	1.4	2.7
15	Clover species	10.0	1.5	15.0	0.1	1.0	1.0	2.5
16	Cleavers	10.0	1.0	10.0	0.1	1.0	1.0	2.2
17	Perennial sow-thistle	10.0	1.0	10.0	0.1	1.0	1.0	2.2
18	Bluebur	10.0	1.0	10.0	< 0.1	0.4	0.4	2.2
19	Barley	10.0	0.5	5.0	0.1	0.8	0.8	2.0

**Field Survey Summary Tables – 1980s Canola/rapeseed**

Table 161. 1980s Canola/rapeseed in the Moist Mixed Grassland Ecoregion (21 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	85.8	38.4	44.7	10.5	12.3	59.2	75.3
2	Wild buckwheat	50.1	16.4	32.8	8.4	16.7	166.0	46.7
3	Wild oats	55.7	19.3	34.7	2.1	3.8	10.8	30.1
4	Lamb's-quarters	50.9	16.8	33.0	2.5	4.8	17.4	28.6
5	Barley	17.3	8.3	47.9	3.1	18.0	47.8	18.6
6	Flixweed	39.2	9.4	24.0	1.2	3.1	15.0	17.5
7	Redroot pigweed	24.2	6.1	25.4	1.2	5.0	24.4	12.4
8	Green foxtail	24.3	2.1	8.5	0.4	1.8	6.2	7.2
9	Shepherd's-purse	16.4	3.7	22.5	0.5	3.3	8.6	7.2
10	Pale smartweed	12.7	3.2	25.1	0.4	2.8	5.6	5.7
11	Rose species	20.9	1.3	6.2	0.1	0.6	1.0	5.1
12	Canada thistle	16.6	1.8	10.7	0.2	1.5	10.6	5.0
13	Wheat	16.4	2.1	12.5	0.1	0.6	1.0	4.7
14	Bluebur	14.3	2.2	15.3	0.1	0.8	2.4	4.5
15	Cow cockle	14.7	1.2	8.3	< 0.1	0.3	0.6	3.7
16	Prostrate knotweed	9.8	2.2	22.5	0.1	0.9	1.2	3.6
17	Kochia	12.3	1.5	12.5	0.1	0.6	0.8	3.5
18	Wild tomato	4.3	1.9	45.0	0.3	7.4	7.4	3.1
19	Wild mustard	9.1	0.9	10.4	0.2	2.4	4.2	3.0
20	Persian darnel	9.8	1.0	10.0	< 0.1	0.5	0.8	2.6
21	Russian thistle	9.5	0.6	6.8	< 0.1	0.3	0.6	2.3
22	Night-flowering catchfly	9.1	0.7	7.7	< 0.1	0.3	0.4	2.2
23	Narrow-leaved hawk's-beard	6.6	0.6	8.8	< 0.1	0.4	0.4	1.7
24	Perennial sow-thistle	4.9	0.5	10.0	< 0.1	0.4	0.4	1.3
25	Hare's-ear mustard	5.8	0.3	5.0	< 0.1	0.2	0.2	1.3
26	Broad-leaved plantain	4.9	0.2	5.0	< 0.1	0.4	0.4	1.1
27	Spear-leaved goosefoot	4.9	0.2	5.0	< 0.1	0.2	0.2	1.1
28	Common pepper-grass	4.9	0.2	5.0	< 0.1	0.2	0.2	1.1

Table 162. 1980s Canola/rapeseed in the Lake Manitoba Plain Ecoregion (15 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	59.7	23.0	38.5	11.2	18.8	132.0	37.5
2	Pale smartweed	78.7	27.7	35.2	6.0	7.6	44.6	34.5
3	Wild mustard	72.8	21.4	29.4	4.9	6.7	65.4	28.7
4	Ball mustard	9.5	8.1	85.0	13.2	137.8	137.8	25.9
5	Wild buckwheat	52.9	17.8	33.7	3.3	6.2	33.2	21.6
6	Quack grass	34.7	14.6	42.0	5.5	15.7	37.2	20.8
7	Wild oats	41.9	12.5	29.8	2.5	6.0	26.6	16.2
8	Lamb's-quarters	26.5	7.8	29.6	4.4	16.6	66.8	14.6
9	Field horsetail	11.8	9.6	81.2	4.4	36.8	45.8	13.3
10	Wheat	26.0	8.5	32.6	1.5	5.8	22.4	10.3
11	Redroot pigweed	39.5	5.9	15.0	0.4	1.0	2.6	9.2
12	Canada thistle	37.6	4.5	11.9	0.6	1.5	2.8	8.5
13	Perennial sow-thistle	31.6	5.6	17.8	0.6	1.9	11.4	8.3
14	Thyme-leaved spurge	16.3	6.9	42.6	1.2	7.5	23.2	7.7
15	Night-flowering catchfly	8.7	5.5	63.4	1.3	14.7	20.0	6.0
16	Dog mustard	4.7	3.6	77.5	1.3	28.4	33.0	4.6
17	White cockle	15.5	2.8	18.4	0.6	3.7	9.4	4.5
18	Stinkweed	15.5	2.2	14.3	0.3	2.2	3.4	3.8
19	Russian thistle	13.4	2.0	15.0	0.2	1.1	3.6	3.2
20	Barley	15.4	1.0	6.4	0.1	0.4	0.8	2.8
21	Bluebur	11.9	1.4	12.0	0.1	0.9	2.0	2.6
22	Showy milkweed	9.5	1.4	15.0	0.1	1.2	1.2	2.3
23	Flax	11.9	0.6	5.0	< 0.1	0.3	0.6	2.1
24	Water smartweed	9.5	0.5	5.0	0.2	2.2	2.2	1.9
25	Shepherd's-purse	9.5	1.0	10.0	< 0.1	0.4	0.4	1.9
26	Corn	9.5	0.9	10.0	< 0.1	0.4	0.4	1.9
27	Black medick	9.5	0.5	5.0	0.1	1.0	1.0	1.8
28	Proso millet	2.3	1.4	60.0	0.3	11.0	11.0	1.4
29	Vetchling species	5.9	0.3	5.0	< 0.1	0.2	0.2	1.0
30	Barnyard grass	2.3	0.7	30.0	0.1	2.6	2.6	0.8
31	Bicknell's geranium	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4

**Field Survey Summary Tables – 1980s Flax**

Table 163. 1980s Flax (87 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	55.1	22.8	41.3	6.2	11.3	102.2	39.6
2	Wild oats	63.5	18.9	29.7	4.5	7.0	86.4	33.5
3	Wild buckwheat	74.8	20.0	26.8	1.8	2.4	15.4	27.8
4	Pale smartweed	45.7	13.2	28.9	2.4	5.3	36.6	21.5
5	Wild mustard	40.5	12.9	32.0	2.3	5.6	43.4	20.2
6	Canada thistle	49.7	11.6	23.4	1.5	3.1	21.6	18.6
7	Redroot pigweed	36.8	9.2	24.9	1.5	4.1	48.8	15.2
8	Quack grass	17.0	5.1	29.8	2.5	14.8	99.6	12.9
9	Lamb's-quarters	35.9	7.0	19.6	0.9	2.5	19.0	12.0
10	Shepherd's-purse	15.0	3.5	23.6	2.2	14.9	107.6	10.9
11	Wheat	24.0	7.1	29.5	1.0	4.4	34.0	10.7
12	Stinkweed	27.6	5.7	20.6	1.0	3.7	63.0	10.4
13	Barley	19.0	6.6	34.6	1.0	5.1	29.2	9.4
14	Night-flowering catchfly	18.9	5.7	30.2	0.7	3.6	13.8	8.1
15	Perennial sow-thistle	17.8	3.3	18.3	0.5	2.8	16.0	6.0
16	Hemp-nettle	12.9	3.5	26.9	0.4	3.2	17.0	5.1
17	Canola/rapeseed	8.9	2.8	30.9	0.6	7.0	25.6	4.8
18	Field horsetail	13.8	2.0	14.4	0.3	1.9	5.6	4.0
19	Common groundsel	1.0	0.5	50.0	0.8	81.6	81.6	2.9
20	Dog mustard	5.2	1.7	33.4	0.2	4.7	8.6	2.5
21	Chickweed	5.9	1.5	25.2	0.2	4.1	8.0	2.5
22	Round-leaved mallow	6.5	1.5	22.8	0.2	3.2	11.6	2.4
23	Russian thistle	7.8	0.7	9.6	0.1	0.7	2.4	1.7
24	Bluebur	6.8	1.0	14.3	< 0.1	0.6	2.2	1.7
25	Cleavers	6.3	0.7	10.7	0.1	0.9	3.0	1.5
26	Wormseed mustard	3.6	0.7	18.9	0.2	4.5	12.0	1.4
27	White cockle	5.2	0.7	13.7	< 0.1	0.8	1.8	1.3
28	Cow cockle	3.0	1.1	37.3	0.1	2.3	2.4	1.3
29	Dandelion	5.1	0.5	9.0	< 0.1	0.5	1.2	1.1
30	Thyme-leaved spurge	2.6	0.7	28.6	0.1	3.0	4.4	1.0
31	Prostrate pigweed	3.8	0.5	13.7	< 0.1	0.7	1.8	0.9
32	Water smartweed	3.8	0.2	5.0	< 0.1	0.7	1.6	0.8
33	Rose species	3.6	0.2	5.0	< 0.1	0.4	1.0	0.7
34	Prostrate knotweed	3.3	0.2	6.6	< 0.1	0.3	0.4	0.6
35	Bicknell's geranium	1.2	0.5	40.0	< 0.1	1.6	1.6	0.5
36	Flixweed	1.6	0.2	15.0	< 0.1	1.4	1.4	0.4
37	Vetch species	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4
38	Manitoba maple	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Clover species	1.0	0.1	5.0	< 0.1	4.2	4.2	0.3
40	Narrow-leaved hawk's-beard	1.3	0.1	5.0	< 0.1	2.0	2.0	0.3
41	Biennial wormwood	1.3	0.1	10.0	< 0.1	0.4	0.4	0.3
42	Persian darnel	1.3	0.1	10.0	< 0.1	0.4	0.4	0.3
43	Henbit	1.2	0.1	10.0	< 0.1	0.4	0.4	0.3
44	Smooth brome	1.3	0.1	5.0	< 0.1	0.4	0.4	0.2
45	Broad-leaved plantain	0.8	0.2	25.0	< 0.1	1.0	1.0	0.2
46	Black medick	1.3	0.1	5.0	< 0.1	0.4	0.4	0.2
47	Alfalfa	1.3	0.1	5.0	< 0.1	0.2	0.2	0.2
48	Stork's-bill	1.0	0.1	5.0	< 0.1	0.2	0.2	0.2
49	Wood whitlow-grass	1.0	0.1	5.0	< 0.1	0.2	0.2	0.2
50	Barnyard grass	1.0	< 0.1	5.0	< 0.1	0.4	0.4	0.2
51	Purslane	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 164. 1980s Flax in the Boreal Transition Ecoregion (20 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	76.5	28.2	36.8	9.7	12.7	86.4	58.9
2	Pale smartweed	57.7	19.0	33.0	3.0	5.2	30.4	30.1
3	Shepherd's-purse	38.2	7.8	20.4	5.3	14.0	107.6	26.7
4	Canada thistle	60.8	12.1	19.9	1.4	2.3	9.6	21.3
5	Wild buckwheat	68.9	12.3	17.8	0.7	1.1	2.8	20.6
6	Stinkweed	33.8	9.3	27.6	2.8	8.1	63.0	19.4
7	Lamb's-quarters	43.0	8.0	18.5	0.8	1.8	9.0	14.0
8	Green foxtail	23.4	9.0	38.3	0.9	3.7	10.4	11.9
9	Hemp-nettle	18.3	7.9	43.2	1.1	5.8	17.0	11.0
10	Common groundsel	3.7	1.9	50.0	3.0	81.6	81.6	10.8
11	Barley	29.5	6.1	20.8	0.4	1.2	3.2	9.5
12	Field horsetail	28.9	4.5	15.5	0.6	2.1	5.6	9.1
13	Chickweed	18.1	5.3	29.5	0.9	4.9	8.0	8.8
14	Wild mustard	18.0	4.3	24.1	1.0	5.5	22.6	8.5
15	Wheat	15.2	5.2	34.1	0.7	4.7	7.8	7.8
16	Night-flowering catchfly	19.8	4.1	20.6	0.6	3.3	13.8	7.6
17	Cleavers	20.3	2.1	10.2	0.2	0.9	3.0	5.0
18	Perennial sow-thistle	19.6	2.0	10.4	0.2	0.9	2.8	4.8
19	Bluebur	11.3	2.5	21.8	0.1	1.0	2.2	3.7
20	Canola/rapeseed	12.4	1.0	7.7	< 0.1	0.4	0.4	2.7
21	Redroot pigweed	12.5	0.9	7.3	< 0.1	0.3	0.4	2.6
22	Smooth brome	4.8	0.2	5.0	< 0.1	0.4	0.4	0.9
23	Dandelion	4.8	0.2	5.0	< 0.1	0.2	0.2	0.9
24	Wormseed mustard	3.8	0.4	10.0	< 0.1	0.4	0.4	0.9
25	Vetch species	4.5	0.2	5.0	< 0.1	0.2	0.2	0.9
26	Stork's-bill	3.8	0.2	5.0	< 0.1	0.2	0.2	0.7
27	Wood whitlow-grass	3.8	0.2	5.0	< 0.1	0.2	0.2	0.7

**Field Survey Summary Tables – 1980s Flax**

Table 165. 1980s Flax in the Aspen Parkland Ecoregion (26 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	77.7	36.6	47.1	14.3	18.4	102.2	67.1
2	Wild buckwheat	83.8	30.2	36.0	2.8	3.4	13.0	35.6
3	Wild mustard	41.9	15.2	36.3	3.3	7.9	43.4	22.6
4	Quack grass	32.3	8.6	26.5	5.3	16.3	99.6	22.5
5	Wild oats	61.7	15.3	24.9	1.8	2.8	19.6	21.5
6	Canada thistle	47.2	8.3	17.5	1.3	2.8	8.2	14.5
7	Pale smartweed	28.5	6.5	22.9	2.0	7.0	36.6	12.6
8	Barley	19.4	8.9	45.8	1.8	9.2	29.2	12.1
9	Redroot pigweed	37.9	7.9	20.8	0.8	2.0	7.0	11.6
10	Shepherd's-purse	14.4	4.4	30.8	2.5	17.1	60.2	10.6
11	Wheat	35.5	6.4	18.0	0.5	1.5	3.8	9.8
12	Night-flowering catchfly	24.4	7.7	31.4	0.8	3.2	8.0	9.6
13	Lamb's-quarters	27.6	3.3	12.1	0.4	1.4	2.8	6.7
14	Round-leaved mallow	15.4	3.4	21.9	0.6	3.6	11.6	5.4
15	Stinkweed	24.7	2.7	10.9	0.2	0.7	2.6	5.4
16	Wormseed mustard	8.0	1.8	22.5	0.5	6.2	12.0	3.3
17	Russian thistle	15.1	1.4	9.4	0.1	0.4	0.8	3.0
18	Perennial sow-thistle	10.7	1.3	12.5	0.2	2.0	4.8	2.8
19	Bluebur	11.6	0.9	8.1	< 0.1	0.3	0.4	2.2
20	Hemp-nettle	10.9	1.1	9.7	< 0.1	0.4	0.6	2.2
21	Water smartweed	11.8	0.6	5.0	0.1	0.7	1.6	2.2
22	White cockle	10.7	1.0	9.4	< 0.1	0.5	0.6	2.2
23	Cow cockle	4.4	1.8	40.0	0.1	2.4	2.4	1.9
24	Dog mustard	7.1	1.1	15.0	0.1	0.9	1.0	1.7
25	Bicknell's geranium	3.8	1.5	40.0	0.1	1.6	1.6	1.5
26	Field horsetail	7.1	0.4	5.0	0.1	1.0	2.0	1.4
27	Rose species	7.7	0.4	5.0	< 0.1	0.2	0.2	1.3
28	Manitoba maple	7.2	0.4	5.0	< 0.1	0.2	0.2	1.2
29	Clover species	3.2	0.2	5.0	0.1	4.2	4.2	0.9
30	Narrow-leaved hawk's-beard	3.9	0.2	5.0	0.1	2.0	2.0	0.9
31	Biennial wormwood	4.0	0.4	10.0	< 0.1	0.4	0.4	0.8
32	Henbit	3.8	0.4	10.0	< 0.1	0.4	0.4	0.8
33	Black medick	4.0	0.2	5.0	< 0.1	0.4	0.4	0.7
34	Canola/rapeseed	3.9	0.2	5.0	< 0.1	0.2	0.2	0.7
35	Prostrate knotweed	3.2	0.2	5.0	< 0.1	0.2	0.2	0.6



Table 166. 1980s Flax in the Lake Manitoba Plain Ecoregion (24 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	70.1	28.8	41.2	4.9	7.0	34.4	42.9
2	Redroot pigweed	53.6	15.3	28.6	3.5	6.6	48.8	28.4
3	Pale smartweed	59.9	16.6	27.8	2.9	4.8	33.6	28.0
4	Wild buckwheat	69.7	16.8	24.1	1.4	2.1	9.2	24.7
5	Wild mustard	56.9	17.1	30.1	1.9	3.3	17.2	24.4
6	Wild oats	65.9	14.6	22.2	1.8	2.7	20.0	24.0
7	Lamb's-quarters	42.1	11.7	27.8	2.0	4.8	19.0	19.5
8	Canada thistle	39.9	13.2	33.1	1.7	4.2	17.2	19.0
9	Wheat	18.7	10.8	57.6	2.4	13.1	34.0	16.8
10	Quack grass	16.3	5.7	34.8	2.6	16.2	31.6	14.3
11	Perennial sow-thistle	28.4	8.3	29.1	1.5	5.2	16.0	13.8
12	Dog mustard	11.7	5.6	48.2	0.9	7.8	8.6	7.9
13	Night-flowering catchfly	11.7	4.9	41.9	0.6	5.2	13.0	6.5
14	Barley	8.0	3.8	47.5	0.9	10.7	20.0	6.1
15	Stinkweed	16.2	2.0	12.4	0.2	1.5	4.8	4.4
16	Hemp-nettle	11.9	1.6	13.3	0.2	1.3	2.8	3.2
17	Field horsetail	7.9	1.7	22.3	0.2	3.0	4.4	2.9
18	Canola/rapeseed	6.4	1.9	30.0	0.2	2.4	2.4	2.5
19	Dandelion	8.0	0.6	7.5	< 0.1	0.4	0.4	1.7
20	Round-leaved mallow	4.0	1.4	35.0	0.1	2.2	2.2	1.7
21	Russian thistle	7.4	0.7	10.0	< 0.1	0.4	0.4	1.7
22	White cockle	4.0	0.8	20.0	0.1	1.8	1.8	1.3
23	Prostrate knotweed	4.3	0.4	10.0	< 0.1	0.4	0.4	1.0
24	Thyme-leaved spurge	4.0	0.4	10.0	< 0.1	0.6	0.6	0.9
25	Chickweed	4.3	0.2	5.0	< 0.1	0.6	0.6	0.9
26	Barnyard grass	4.0	0.2	5.0	< 0.1	0.4	0.4	0.8
27	Purslane	4.0	0.2	5.0	< 0.1	0.2	0.2	0.8

**Field Survey Summary Tables – 1970s**

Table 167. 1970s (8878 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	47.2	-	-	32.2	68.1	1459.8	46.4
2	Wild oats	69.3	-	-	12.2	17.6	1188.8	33.1
3	Wild buckwheat	75.1	-	-	7.1	9.5	800.9	29.7
4	Stinkweed	54.0	-	-	9.7	18.0	1188.8	26.0
5	Lamb's-quarters	44.9	-	-	4.9	10.9	899.6	18.4
6	Redroot pigweed	39.4	-	-	2.5	6.3	449.8	14.4
7	Russian thistle	28.0	-	-	2.5	9.1	427.2	11.0
8	Canada thistle	30.9	-	-	1.1	3.4	202.3	10.4
9	Pale smartweed	20.2	-	-	4.3	21.1	1188.8	10.4
10	Chickweed	5.9	-	-	6.2	104.1	1188.8	8.0
11	Perennial sow-thistle	23.8	-	-	0.7	2.8	104.0	7.8
12	Wild mustard	22.0	-	-	1.1	4.9	551.0	7.7
13	Cow cockle	18.4	-	-	1.2	6.4	376.0	6.7
14	Hemp-nettle	12.4	-	-	2.5	19.8	1003.2	6.2
15	Bluebur	15.8	-	-	0.5	3.3	117.8	5.3
16	Flixweed	14.6	-	-	0.4	2.5	83.6	4.7
17	Field horsetail	9.4	-	-	1.0	10.7	859.2	3.9
18	Canola/rapeseed	6.6	-	-	1.8	28.0	604.5	3.8
19	Night-flowering catchfly	10.5	-	-	0.6	5.6	160.0	3.8
20	Corn spurry	2.8	-	-	2.2	79.5	1188.8	3.1
21	Shepherd's-purse	8.1	-	-	0.6	6.8	374.9	3.0
22	Dandelion	8.9	-	-	0.3	3.4	76.2	3.0
23	Rose species	7.6	-	-	0.1	1.6	37.8	2.4
24	Kochia	6.2	-	-	0.3	5.5	252.0	2.2
25	Quack grass	5.6	-	-	0.4	7.8	361.8	2.1
26	Narrow-leaved hawk's-beard	5.2	-	-	0.4	7.0	218.6	1.9
27	Barnyard grass	3.6	-	-	0.4	11.3	340.4	1.5
28	Wheat	4.1	-	-	0.2	3.9	61.4	1.4
29	Prostrate knotweed	4.1	-	-	0.1	2.1	109.2	1.3
30	Barley	3.8	-	-	0.1	3.4	106.4	1.3
31	Thyme-leaved spurge	3.3	-	-	0.1	4.1	66.4	1.1
32	Flax	2.3	-	-	0.3	14.7	297.2	1.0
33	Biennial wormwood	3.2	-	-	< 0.1	1.5	13.6	1.0
34	Tartary buckwheat	2.5	-	-	0.2	8.0	192.8	1.0
35	Persian darnel	2.4	-	-	0.2	8.8	242.2	0.9
36	Prostrate pigweed	2.7	-	-	0.1	2.1	68.6	0.9
37	Clover species	2.2	-	-	0.2	7.1	214.2	0.8
38	Vetch species	2.5	-	-	< 0.1	1.1	14.0	0.8
39	Ball mustard	2.0	-	-	0.1	5.2	44.0	0.7
40	Common groundsel	1.7	-	-	0.2	9.9	235.6	0.7
41	Common pepper-grass	1.9	-	-	< 0.1	1.4	27.8	0.6
42	Round-leaved mallow	1.9	-	-	< 0.1	1.5	10.6	0.6
43	Cleavers	1.4	-	-	0.1	4.5	42.8	0.5
44	Broad-leaved plantain	1.4	-	-	< 0.1	3.1	60.0	0.5
45	Foxtail barley	1.3	-	-	< 0.1	1.2	19.8	0.4
46	Alfalfa	1.1	-	-	0.1	5.8	99.8	0.4
47	Dock species	1.2	-	-	< 0.1	1.4	23.2	0.4
48	Wormseed mustard	1.0	-	-	0.1	10.4	117.8	0.4
49	Spear-leaved goosefoot	1.2	-	-	< 0.1	1.9	36.9	0.4
50	Dog mustard	1.1	-	-	< 0.1	3.5	38.2	0.4
51	Pineappleweed	1.0	-	-	0.1	5.6	94.0	0.3
52	Wild tomato	1.0	-	-	< 0.1	2.3	100.0	0.3
53	White cockle	0.7	-	-	< 0.1	4.2	27.2	0.2
54	Russian pigweed	0.7	-	-	< 0.1	2.4	29.6	0.2

(Table continued on next page)

Table 167. 1970s (8878 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Black medick	0.6	-	-	< 0.1	7.1	63.4	0.2
56	Purslane	0.7	-	-	< 0.1	2.1	31.6	0.2
57	Scentless chamomile	0.6	-	-	< 0.1	7.6	117.8	0.2
58	Stork's-bill	0.5	-	-	< 0.1	8.6	117.8	0.2
59	Tumble pigweed	0.5	-	-	< 0.1	4.0	104.0	0.2
60	Field bindweed	0.5	-	-	< 0.1	2.7	20.2	0.2
61	Yellow sweet-clover	0.4	-	-	< 0.1	3.4	58.2	0.1
62	Sunflower species	0.4	-	-	< 0.1	4.0	146.4	0.1
63	Canada fleabane	0.4	-	-	< 0.1	4.5	60.8	0.1
64	Skeletonweed	0.4	-	-	< 0.1	3.6	25.2	0.1
65	Yellow toadflax	0.3	-	-	< 0.1	5.3	30.9	0.1
66	Tumble mustard	0.3	-	-	< 0.1	1.8	18.0	0.1
67	Oats	0.3	-	-	< 0.1	9.6	81.2	0.1
68	Bicknell's geranium	0.3	-	-	< 0.1	0.6	4.2	0.1
69	Povertyweed	0.3	-	-	< 0.1	3.5	14.4	0.1
70	American dragonhead	0.3	-	-	< 0.1	1.3	6.2	0.1
71	Showy milkweed	0.3	-	-	< 0.1	1.7	8.4	0.1
72	Henbit	0.2	-	-	< 0.1	27.0	627.1	0.1
73	Field mint	0.3	-	-	< 0.1	1.7	6.6	0.1
74	Witch grass	0.2	-	-	< 0.1	4.8	50.2	0.1
75	Western snowberry	0.2	-	-	< 0.1	2.8	10.0	0.1
76	Absinth	0.2	-	-	< 0.1	1.5	13.4	0.1
77	Common ragweed	0.2	-	-	< 0.1	2.1	16.0	0.1
78	Northern bedstraw	0.2	-	-	< 0.1	2.7	8.2	0.1
79	Downy brome	0.2	-	-	< 0.1	12.2	49.6	0.1
80	Water smartweed	0.2	-	-	< 0.1	1.9	10.4	0.1
81	Hare's-ear mustard	0.2	-	-	< 0.1	2.2	9.0	0.1
82	Knawel	0.1	-	-	< 0.1	43.4	107.1	0.1
83	Prickly lettuce	0.2	-	-	< 0.1	0.4	1.4	0.1
84	Yellow foxtail	0.1	-	-	< 0.1	38.4	157.0	0.1
85	Smooth brome	0.2	-	-	< 0.1	2.5	9.8	< 0.1
86	Pasture sage	0.2	-	-	< 0.1	0.7	2.0	< 0.1
87	Poplar species	0.2	-	-	< 0.1	0.9	3.2	< 0.1
88	Long-stalked stitchwort	< 0.1	-	-	< 0.1	126.2	236.4	< 0.1
89	Cocklebur	0.1	-	-	< 0.1	1.0	3.0	< 0.1
90	Tall buttercup	0.1	-	-	< 0.1	0.6	1.4	< 0.1
91	Atriplex species	0.1	-	-	< 0.1	1.6	4.4	< 0.1
92	Aster species	0.1	-	-	< 0.1	1.0	5.6	< 0.1
93	False ragweed	0.1	-	-	< 0.1	3.9	14.4	< 0.1
94	Goat's-beard	0.1	-	-	< 0.1	0.4	1.2	< 0.1
95	Rye	0.1	-	-	< 0.1	1.2	4.0	< 0.1
96	Leafy spurge	0.1	-	-	< 0.1	2.5	9.6	< 0.1
97	Oak-leaved goosefoot	0.1	-	-	< 0.1	2.6	14.0	< 0.1
98	Rough cinquefoil	0.1	-	-	< 0.1	0.5	3.8	< 0.1
99	Blue lettuce	0.1	-	-	< 0.1	1.7	6.8	< 0.1
100	False flax species	0.1	-	-	< 0.1	1.6	5.0	< 0.1
101	California allocarya	0.1	-	-	< 0.1	10.6	32.4	< 0.1
102	Milk-vetch species	0.1	-	-	< 0.1	0.6	1.6	< 0.1
103	Yellow cress species	0.1	-	-	< 0.1	2.2	4.0	< 0.1
104	Manitoba maple	0.1	-	-	< 0.1	0.3	0.8	< 0.1
105	Redtop	0.1	-	-	< 0.1	0.8	2.0	< 0.1
106	Goldenrod species	0.1	-	-	< 0.1	0.8	2.0	< 0.1
107	Pygmyflower	0.1	-	-	< 0.1	1.3	3.4	< 0.1
108	Nodding thistle	0.1	-	-	< 0.1	0.5	1.0	< 0.1

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**Field Survey Summary Tables – 1970s**

Table 167. 1970s (8878 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
109	Russian wild rye	0.1	-	-	< 0.1	1.7	3.0	< 0.1
110	Bladder campion	0.1	-	-	< 0.1	2.0	5.4	< 0.1
111	Common burdock	0.1	-	-	< 0.1	0.9	2.2	< 0.1
112	Wild licorice	0.1	-	-	< 0.1	0.5	0.8	< 0.1
113	White mustard	0.1	-	-	< 0.1	0.8	2.0	< 0.1
114	Purslane speedwell	0.1	-	-	< 0.1	0.7	2.0	< 0.1
115	Pussytoes species	< 0.1	-	-	< 0.1	10.1	39.2	< 0.1
116	Maple-leaved goosefoot	0.1	-	-	< 0.1	0.4	1.0	< 0.1
117	Blue grass species	0.1	-	-	< 0.1	1.6	4.2	< 0.1
118	Willowherb species	0.1	-	-	< 0.1	1.9	7.0	< 0.1
119	Large crab grass	< 0.1	-	-	< 0.1	4.0	7.8	< 0.1
120	Common yarrow	< 0.1	-	-	< 0.1	0.3	0.4	< 0.1
121	Spreading dogbane	< 0.1	-	-	< 0.1	3.1	7.0	< 0.1
122	Wild parsnip	< 0.1	-	-	< 0.1	4.8	11.2	< 0.1
123	Poison suckleya	< 0.1	-	-	< 0.1	24.4	39.6	< 0.1
124	Canada anemone	< 0.1	-	-	< 0.1	0.3	0.6	< 0.1
125	Pearly everlasting	< 0.1	-	-	< 0.1	5.7	8.6	< 0.1
126	Fringed loosestrife	< 0.1	-	-	< 0.1	0.3	0.6	< 0.1
127	Hoary cress species	< 0.1	-	-	< 0.1	2.5	6.4	< 0.1
128	Scarlet mallow	< 0.1	-	-	< 0.1	0.8	1.6	< 0.1
129	Gumweed	< 0.1	-	-	< 0.1	0.3	0.4	< 0.1
130	Timothy	< 0.1	-	-	< 0.1	2.3	6.2	< 0.1
131	Crested wheat grass	< 0.1	-	-	< 0.1	0.3	0.6	< 0.1
132	Spiny annual sow-thistle	< 0.1	-	-	< 0.1	5.0	6.8	< 0.1
133	June grass	< 0.1	-	-	< 0.1	11.5	30.2	< 0.1
134	Lance-leaved psoralea	< 0.1	-	-	< 0.1	0.5	1.0	< 0.1
135	Tall hedge mustard	< 0.1	-	-	< 0.1	59.6	59.6	< 0.1
136	Field chickweed	< 0.1	-	-	< 0.1	1.1	1.8	< 0.1
137	Golden-bean	< 0.1	-	-	< 0.1	6.0	9.6	< 0.1
138	Wood whitlow-grass	< 0.1	-	-	< 0.1	1.8	2.8	< 0.1
139	Small bugloss	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
140	Meadow rue species	< 0.1	-	-	< 0.1	1.5	2.2	< 0.1
141	Wild rye/wheat grass species	< 0.1	-	-	< 0.1	28.6	28.6	< 0.1
142	Giant ragweed	< 0.1	-	-	< 0.1	1.1	2.2	< 0.1
143	Field peas	< 0.1	-	-	< 0.1	0.3	0.4	< 0.1
144	Scouring-rush	< 0.1	-	-	< 0.1	0.6	0.8	< 0.1
145	Hedge mustard	< 0.1	-	-	< 0.1	7.4	7.4	< 0.1
146	Needle-and-thread	< 0.1	-	-	< 0.1	0.4	0.4	< 0.1
147	Toad rush	< 0.1	-	-	< 0.1	0.8	0.8	< 0.1
148	Western wheat grass	< 0.1	-	-	< 0.1	4.2	4.2	< 0.1
149	Hoary puccoon	< 0.1	-	-	< 0.1	9.8	9.8	< 0.1
150	Vervain species	< 0.1	-	-	< 0.1	1.8	1.8	< 0.1
151	Small-flowered prairie-rocket	< 0.1	-	-	< 0.1	1.0	1.0	< 0.1
152	Vetchling species	< 0.1	-	-	< 0.1	0.4	0.4	< 0.1
153	Slough grass	< 0.1	-	-	< 0.1	1.4	1.4	< 0.1
154	Conical catchfly	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
155	Wood sage	< 0.1	-	-	< 0.1	3.2	3.2	< 0.1
156	Nightshade species	< 0.1	-	-	< 0.1	1.2	1.2	< 0.1
157	Poverty oat grass	< 0.1	-	-	< 0.1	3.0	3.0	< 0.1
158	Western sea-blight	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
159	Sand-rocket	< 0.1	-	-	< 0.1	0.6	0.6	< 0.1
160	Wild cucumber	< 0.1	-	-	< 0.1	0.4	0.4	< 0.1
161	Clasping-leaved pennycress	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
162	Field violet	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1

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Table 167. 1970s (8878 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
163	Diffuse knapweed	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
164	Five-hooked bassia	< 0.1	-	-	< 0.1	2.6	2.6	< 0.1
165	Wild radish	< 0.1	-	-	< 0.1	2.6	2.6	< 0.1
166	Plains coreopsis	< 0.1	-	-	< 0.1	0.4	0.4	< 0.1
167	Fescue species	< 0.1	-	-	< 0.1	0.8	0.8	< 0.1
168	Rough pennyroyal	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
169	Ground-ivy	< 0.1	-	-	< 0.1	2.0	2.0	< 0.1
170	Field dodder	< 0.1	-	-	< 0.1	0.8	0.8	< 0.1
171	Small alyssum	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
172	Spiny ironplant	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
173	Ash species	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
174	Hairy-nerved carrionflower	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
175	Wood-sorrel species	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
176	Corn	< 0.1	-	-	< 0.1	0.8	0.8	< 0.1
177	Golden corydalis	< 0.1	-	-	< 0.1	0.6	0.6	< 0.1
178	Willow species	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
179	Collomia	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
180	Green tansy mustard	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
181	Indian mustard	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
182	Yellow rocket	< 0.1	-	-	< 0.1	0.8	0.8	< 0.1

**Field Survey Summary Tables – 1970s**

Table 168. 1970s Peace Lowland Ecoregion (317 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	72.2	-	-	33.5	46.4	471.2	68.3
2	Wild oats	64.4	-	-	14.8	23.0	315.4	46.4
3	Canola/rapeseed	27.6	-	-	20.7	75.1	604.5	33.7
4	Field horsetail	41.7	-	-	7.0	16.7	191.6	27.5
5	Dandelion	44.7	-	-	3.5	7.9	76.2	25.7
6	Wild buckwheat	28.7	-	-	2.9	10.3	84.5	17.2
7	Lamb's-quarters	18.7	-	-	4.6	24.7	361.8	13.8
8	Hemp-nettle	14.1	-	-	5.0	35.2	293.9	11.8
9	Redroot pigweed	12.3	-	-	2.5	20.1	178.5	8.5
10	Bluebur	9.9	-	-	0.9	9.0	42.8	5.8
11	Shepherd's-purse	9.8	-	-	0.7	6.8	38.1	5.5
12	Wild mustard	7.0	-	-	2.1	29.5	202.3	5.5
13	Narrow-leaved hawk's-beard	8.4	-	-	0.7	7.9	47.6	4.8
14	Canada thistle	7.9	-	-	0.3	3.8	17.9	4.2
15	Quack grass	5.0	-	-	0.7	14.1	34.5	3.2
16	Pale smartweed	3.6	-	-	1.3	35.7	83.3	3.0
17	Perennial sow-thistle	5.2	-	-	0.3	6.6	34.5	2.9
18	Ball mustard	3.7	-	-	0.3	7.6	26.2	2.1
19	Corn spurry	1.7	-	-	1.0	57.7	77.4	1.7
20	Broad-leaved plantain	2.3	-	-	0.2	10.9	45.2	1.4
21	Chickweed	1.8	-	-	0.1	7.6	39.3	1.0
22	Stork's-bill	1.4	-	-	0.2	13.5	26.2	0.9
23	Flixweed	1.2	-	-	0.2	17.4	27.4	0.8
24	Rose species	1.3	-	-	0.1	5.5	21.4	0.7
25	Tartary buckwheat	1.4	-	-	0.1	4.9	16.7	0.7
26	Pineappleweed	1.2	-	-	0.1	5.5	10.7	0.6
27	Wormseed mustard	1.2	-	-	< 0.1	3.0	9.5	0.6
28	Yellow toadflax	0.5	-	-	< 0.1	3.6	6.0	0.3
29	Round-leaved mallow	0.5	-	-	< 0.1	2.8	4.8	0.3
30	Night-flowering catchfly	0.4	-	-	< 0.1	2.4	2.4	0.2
31	Cow cockle	0.2	-	-	< 0.1	16.7	16.7	0.1
32	Common groundsel	0.3	-	-	< 0.1	2.4	2.4	0.1
33	Green foxtail	0.2	-	-	< 0.1	2.4	2.4	0.1
34	Cleavers	0.2	-	-	< 0.1	2.4	2.4	0.1
35	Scentless chamomile	0.1	-	-	< 0.1	1.2	1.2	< 0.1

Table 169. 1970s Boreal Transition Ecoregion (1230 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	77.3	-	-	16.9	21.9	1188.8	37.2
2	Lamb's-quarters	56.1	-	-	9.7	17.3	899.6	24.4
3	Wild buckwheat	69.5	-	-	5.2	7.4	155.9	23.4
4	Stinkweed	53.2	-	-	7.5	14.1	723.5	21.5
5	Chickweed	20.7	-	-	16.0	77.1	1188.8	21.3
6	Green foxtail	23.3	-	-	10.3	44.3	552.2	16.4
7	Hemp-nettle	33.4	-	-	6.2	18.7	1003.2	15.0
8	Canada thistle	44.7	-	-	1.9	4.3	103.5	13.7
9	Pale smartweed	34.2	-	-	3.5	10.2	357.0	12.5
10	Perennial sow-thistle	40.2	-	-	1.4	3.4	48.8	12.0
11	Field horsetail	32.6	-	-	2.8	8.6	85.4	11.4
12	Bluebur	30.2	-	-	1.3	4.3	113.6	9.2
13	Shepherd's-purse	24.6	-	-	2.0	8.0	374.9	8.4
14	Wild mustard	20.6	-	-	0.9	4.4	100.4	6.3
15	Canola/rapeseed	16.1	-	-	1.9	12.0	266.6	6.1
16	Corn spurry	7.9	-	-	3.9	49.1	1188.8	5.9
17	Narrow-leaved hawk's-beard	16.7	-	-	1.3	7.8	218.6	5.7
18	Dandelion	18.2	-	-	0.4	1.9	26.8	5.2
19	Night-flowering catchfly	14.3	-	-	0.9	6.5	138.0	4.7
20	Redroot pigweed	13.6	-	-	0.7	5.1	209.4	4.3
21	Common groundsel	9.1	-	-	1.0	11.5	235.6	3.4
22	Quack grass	6.8	-	-	0.5	7.2	117.4	2.3
23	Cleavers	6.5	-	-	0.3	4.8	36.6	2.0
24	Barley	6.6	-	-	0.2	2.6	24.8	1.9
25	Flixweed	6.3	-	-	0.2	3.6	43.0	1.9
26	Clover species	5.0	-	-	0.5	10.4	116.4	1.8
27	Cow cockle	6.0	-	-	0.1	2.4	15.8	1.7
28	Vetch species	5.9	-	-	0.1	1.0	6.4	1.6
29	Ball mustard	4.7	-	-	0.3	5.5	42.8	1.5
30	Tartary buckwheat	4.4	-	-	0.3	6.9	140.4	1.5
31	Wheat	4.2	-	-	0.3	6.8	51.4	1.4
32	Pineappleweed	4.1	-	-	0.1	3.5	75.0	1.2
33	Broad-leaved plantain	4.1	-	-	0.1	2.3	16.7	1.2
34	Russian thistle	3.6	-	-	0.1	3.8	35.0	1.1
35	Alfalfa	2.5	-	-	0.3	11.3	99.8	0.9
36	Wormseed mustard	1.5	-	-	0.4	25.3	117.8	0.8
37	Biennial wormwood	2.7	-	-	<0.1	1.6	9.8	0.7
38	Prostrate knotweed	2.3	-	-	0.1	6.3	109.2	0.7
39	Flax	1.7	-	-	0.2	14.3	119.6	0.7
40	Rose species	2.0	-	-	<0.1	0.7	2.4	0.5
41	Canada fleabane	1.3	-	-	0.1	8.9	60.8	0.5
42	Barnyard grass	1.4	-	-	0.1	4.1	12.0	0.4
43	Black medick	1.0	-	-	0.1	13.3	55.8	0.4
44	Stork's-bill	1.3	-	-	<0.1	0.9	4.2	0.4
45	Common pepper-grass	1.3	-	-	<0.1	1.4	6.4	0.4
46	Bicknell's geranium	1.1	-	-	<0.1	0.5	1.0	0.3
47	Round-leaved mallow	0.9	-	-	<0.1	1.8	9.6	0.2
48	Scentless chamomile	0.8	-	-	<0.1	5.1	22.4	0.2
49	Oats	0.5	-	-	0.1	18.5	79.6	0.2
50	White cockle	0.7	-	-	<0.1	4.0	10.7	0.2
51	Northern bedstraw	0.7	-	-	<0.1	2.9	8.0	0.2
52	Spear-leaved goosefoot	0.7	-	-	<0.1	0.6	2.0	0.2
53	Yellow sweet-clover	0.5	-	-	0.1	11.2	58.2	0.2
54	Redtop	0.6	-	-	<0.1	0.8	2.0	0.2

(Table continued on next page)

**Field Survey Summary Tables – 1970s**

Table 169. 1970s Boreal Transition Ecoregion (1230 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Downy brome	0.3	-	-	0.1	25.2	49.6	0.1
56	Atriplex species	0.5	-	-	< 0.1	1.3	3.2	0.1
57	American dragonhead	0.4	-	-	< 0.1	2.8	4.0	0.1
58	Henbit	0.5	-	-	< 0.1	0.6	2.4	0.1
59	Rough cinquefoil	0.4	-	-	< 0.1	0.3	0.8	0.1
60	Poplar species	0.4	-	-	< 0.1	0.3	0.8	0.1
61	Dock species	0.3	-	-	< 0.1	0.9	1.0	0.1
62	Dog mustard	0.3	-	-	< 0.1	0.5	0.8	0.1
63	Pearly everlasting	0.3	-	-	< 0.1	5.7	8.6	0.1
64	Field mint	0.3	-	-	< 0.1	2.0	3.4	0.1
65	Field bindweed	0.3	-	-	< 0.1	1.2	2.0	0.1
66	Common burdock	0.3	-	-	< 0.1	1.3	2.2	0.1
67	Oak-leaved goosefoot	0.2	-	-	< 0.1	9.0	14.0	0.1
68	Foxtail barley	0.2	-	-	< 0.1	0.3	0.4	0.1
69	Kochia	0.2	-	-	< 0.1	1.1	3.6	0.1
70	Witch grass	0.2	-	-	< 0.1	4.7	10.8	0.1
71	Willowherb species	0.2	-	-	< 0.1	3.8	7.0	0.1
72	Hare's-ear mustard	0.2	-	-	< 0.1	3.9	6.4	0.1
73	Yellow cress species	0.2	-	-	< 0.1	1.6	3.2	0.1
74	Timothy	0.2	-	-	< 0.1	2.9	6.2	0.1
75	Wild tomato	0.2	-	-	< 0.1	0.4	0.6	< 0.1
76	Western snowberry	0.2	-	-	< 0.1	0.6	0.8	< 0.1
77	Goldenrod species	0.2	-	-	< 0.1	1.0	1.2	< 0.1
78	Smooth brome	0.1	-	-	< 0.1	2.2	3.8	< 0.1
79	Needle-and-thread	0.1	-	-	< 0.1	0.4	0.4	< 0.1
80	Prostrate pigweed	0.1	-	-	< 0.1	0.2	0.2	< 0.1
81	Pasture sage	0.1	-	-	< 0.1	0.2	0.2	< 0.1
82	Water smartweed	0.1	-	-	< 0.1	1.2	1.2	< 0.1
83	Small-flowered prairie-rocket	0.1	-	-	< 0.1	1.0	1.0	< 0.1
84	Purslane	0.1	-	-	< 0.1	0.2	0.2	< 0.1
85	Milk-vetch species	0.1	-	-	< 0.1	0.4	0.4	< 0.1
86	Gumweed	0.1	-	-	< 0.1	0.2	0.2	< 0.1
87	Maple-leaved goosefoot	0.1	-	-	< 0.1	1.0	1.0	< 0.1
88	Nightshade species	0.1	-	-	< 0.1	1.2	1.2	< 0.1
89	Wild parsnip	0.1	-	-	< 0.1	0.2	0.2	< 0.1
90	June grass	0.1	-	-	< 0.1	0.4	0.4	< 0.1
91	Spreading dogbane	0.1	-	-	< 0.1	0.4	0.4	< 0.1
92	Hoary cress species	0.1	-	-	< 0.1	6.4	6.4	< 0.1
93	Western sea-blight	0.1	-	-	< 0.1	0.2	0.2	< 0.1
94	Fescue species	0.1	-	-	< 0.1	0.8	0.8	< 0.1
95	Blue lettuce	0.1	-	-	< 0.1	0.4	0.4	< 0.1
96	Rough pennyroyal	0.1	-	-	< 0.1	0.2	0.2	< 0.1
97	Field peas	0.1	-	-	< 0.1	0.4	0.4	< 0.1
98	Prickly lettuce	0.1	-	-	< 0.1	1.4	1.4	< 0.1
99	Tall buttercup	0.1	-	-	< 0.1	1.0	1.0	< 0.1
100	Golden corydalis	0.1	-	-	< 0.1	0.6	0.6	< 0.1
101	Willow species	0.1	-	-	< 0.1	0.2	0.2	< 0.1
102	Purslane speedwell	0.1	-	-	< 0.1	0.4	0.4	< 0.1



Table 170. 1970s Aspen Parkland Ecoregion (3213 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	68.7	-	-	57.6	83.9	1459.8	60.1
2	Wild oats	76.5	-	-	13.9	18.2	1073.4	30.8
3	Wild buckwheat	81.6	-	-	7.2	8.8	317.7	27.4
4	Stinkweed	50.2	-	-	8.7	17.3	981.8	19.9
5	Lamb's-quarters	52.8	-	-	6.1	11.6	687.8	18.8
6	Pale smartweed	26.4	-	-	8.7	33.0	1188.8	13.4
7	Canada thistle	43.6	-	-	1.4	3.3	202.3	12.9
8	Redroot pigweed	36.6	-	-	2.1	5.6	449.8	11.5
9	Chickweed	8.2	-	-	11.4	139.0	1188.8	10.5
10	Perennial sow-thistle	33.7	-	-	0.9	2.6	104.0	9.8
11	Wild mustard	24.8	-	-	1.4	5.4	551.0	7.7
12	Hemp-nettle	18.3	-	-	3.8	20.9	853.2	7.7
13	Russian thistle	23.1	-	-	1.2	5.1	152.8	7.1
14	Bluebur	21.3	-	-	0.6	3.0	61.6	6.2
15	Night-flowering catchfly	20.1	-	-	1.1	5.4	160.0	6.2
16	Corn spurry	4.2	-	-	4.5	107.6	1188.8	4.4
17	Cow cockle	11.7	-	-	0.5	4.5	167.2	3.6
18	Shepherd's-purse	10.3	-	-	0.6	6.1	276.1	3.3
19	Flixweed	10.2	-	-	0.3	2.5	83.6	3.0
20	Canola/rapeseed	6.6	-	-	1.3	20.0	518.8	2.7
21	Quack grass	8.2	-	-	0.6	7.5	361.8	2.7
22	Field horsetail	6.8	-	-	0.8	11.5	859.2	2.4
23	Rose species	7.6	-	-	0.1	1.2	33.6	2.1
24	Dandelion	6.6	-	-	0.1	2.0	25.4	1.9
25	Narrow-leaved hawk's-beard	5.5	-	-	0.4	7.5	202.3	1.8
26	Wheat	5.5	-	-	0.2	3.8	61.4	1.7
27	Barley	4.7	-	-	0.2	3.3	53.0	1.4
28	Prostrate knotweed	4.7	-	-	0.1	1.8	37.8	1.3
29	Tartary buckwheat	4.0	-	-	0.3	8.6	192.8	1.3
30	Flax	3.0	-	-	0.5	15.3	118.8	1.1
31	Biennial wormwood	3.7	-	-	0.1	1.6	13.6	1.1
32	Barnyard grass	2.8	-	-	0.2	6.9	116.0	0.9
33	Ball mustard	2.9	-	-	0.1	4.4	44.0	0.9
34	Clover species	2.1	-	-	0.2	7.2	214.2	0.7
35	Round-leaved mallow	2.2	-	-	< 0.1	1.7	10.6	0.6
36	Thyme-leaved spurge	1.9	-	-	0.1	3.2	66.4	0.6
37	Kochia	1.5	-	-	0.2	13.3	252.0	0.6
38	Wormseed mustard	1.7	-	-	0.1	8.0	117.8	0.5
39	Prostrate pigweed	1.8	-	-	< 0.1	1.4	11.4	0.5
40	Vetch species	1.8	-	-	< 0.1	1.1	12.2	0.5
41	Dog mustard	1.6	-	-	0.1	4.2	38.2	0.5
42	White cockle	1.3	-	-	0.1	4.9	27.2	0.4
43	Common pepper-grass	1.3	-	-	< 0.1	1.3	13.8	0.4
44	Wild tomato	1.2	-	-	< 0.1	3.5	55.4	0.4
45	Broad-leaved plantain	1.2	-	-	< 0.1	0.9	3.6	0.3
46	Pineappleweed	1.0	-	-	0.1	8.9	94.0	0.3
47	Scentless chamomile	1.0	-	-	0.1	10.5	117.8	0.3
48	Alfalfa	1.0	-	-	0.1	6.5	66.0	0.3
49	Black medick	1.0	-	-	0.1	6.1	63.4	0.3
50	Common groundsel	0.9	-	-	0.1	7.1	47.6	0.3
51	Cleavers	0.9	-	-	< 0.1	3.0	42.8	0.3
52	Spear-leaved goosefoot	0.9	-	-	< 0.1	1.1	3.6	0.2
53	Foxtail barley	0.8	-	-	< 0.1	1.7	19.8	0.2
54	Persian darnel	0.8	-	-	< 0.1	5.8	26.0	0.2

(Table continued on next page)

**Field Survey Summary Tables – 1970s**

Table 170. 1970s Aspen Parkland Ecoregion (3213 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Yellow toadflax	0.7	-	-	< 0.1	2.9	11.9	0.2
56	Stork's-bill	0.5	-	-	0.1	18.9	117.8	0.2
57	Knawel	0.2	-	-	0.1	43.4	107.1	0.1
58	Henbit	0.2	-	-	0.1	56.5	627.1	0.1
59	Yellow sweet-clover	0.4	-	-	< 0.1	1.2	3.2	0.1
60	Western snowberry	0.4	-	-	< 0.1	2.6	7.4	0.1
61	Purslane	0.4	-	-	< 0.1	1.7	17.4	0.1
62	Field bindweed	0.4	-	-	< 0.1	1.2	2.8	0.1
63	Witch grass	0.4	-	-	< 0.1	2.1	13.6	0.1
64	Common ragweed	0.3	-	-	< 0.1	2.0	8.8	0.1
65	Absinth	0.4	-	-	< 0.1	0.5	2.0	0.1
66	Tall buttercup	0.4	-	-	< 0.1	0.5	1.4	0.1
67	Northern bedstraw	0.3	-	-	< 0.1	2.4	8.2	0.1
68	Povertyweed	0.3	-	-	< 0.1	3.6	14.4	0.1
69	Dock species	0.3	-	-	< 0.1	0.5	2.0	0.1
70	Long-stalked stitchwort	< 0.1	-	-	0.1	236.4	236.4	0.1
71	Sunflower species	0.3	-	-	< 0.1	0.7	2.6	0.1
72	Oats	0.2	-	-	< 0.1	4.3	14.0	0.1
73	Poplar species	0.3	-	-	< 0.1	1.1	3.2	0.1
74	Showy milkweed	0.2	-	-	< 0.1	1.6	3.8	0.1
75	Tumble mustard	0.2	-	-	< 0.1	1.0	2.0	0.1
76	Russian pigweed	0.2	-	-	< 0.1	1.3	5.0	0.1
77	False ragweed	0.2	-	-	< 0.1	3.8	14.4	0.1
78	American dragonhead	0.2	-	-	< 0.1	0.9	2.2	0.1
79	Tumble pigweed	0.1	-	-	< 0.1	36.0	104.0	0.1
80	Canada fleabane	0.2	-	-	< 0.1	0.2	0.2	0.1
81	Bicknell's geranium	0.2	-	-	< 0.1	1.1	4.2	0.1
82	Field mint	0.2	-	-	< 0.1	2.5	6.6	< 0.1
83	Skeletonweed	0.2	-	-	< 0.1	2.2	7.2	< 0.1
84	Hare's-ear mustard	0.2	-	-	< 0.1	2.8	5.6	< 0.1
85	Pasture sage	0.2	-	-	< 0.1	0.7	2.0	< 0.1
86	Aster species	0.2	-	-	< 0.1	0.8	1.6	< 0.1
87	Downy brome	0.1	-	-	< 0.1	1.1	3.2	< 0.1
88	Pygmyflower	0.1	-	-	< 0.1	1.6	3.4	< 0.1
89	Oak-leaved goosefoot	0.1	-	-	< 0.1	0.7	1.4	< 0.1
90	Milk-vetch species	0.1	-	-	< 0.1	0.5	0.8	< 0.1
91	Rye	0.1	-	-	< 0.1	0.2	0.4	< 0.1
92	Smooth brome	0.1	-	-	< 0.1	3.3	9.8	< 0.1
93	Yellow cress species	0.1	-	-	< 0.1	2.3	3.6	< 0.1
94	Pussytoes species	0.1	-	-	< 0.1	13.3	39.2	< 0.1
95	Canada anemone	0.1	-	-	< 0.1	0.3	0.6	< 0.1
96	White mustard	0.1	-	-	< 0.1	1.0	2.0	< 0.1
97	Water smartweed	0.1	-	-	< 0.1	0.9	2.4	< 0.1
98	Cocklebur	0.1	-	-	< 0.1	0.9	1.2	< 0.1
99	Prickly lettuce	0.1	-	-	< 0.1	0.4	1.0	< 0.1
100	Spreading dogbane	0.1	-	-	< 0.1	4.6	7.0	< 0.1
101	Bladder campion	0.1	-	-	< 0.1	2.1	5.4	< 0.1
102	Wild parsnip	0.1	-	-	< 0.1	7.2	11.2	< 0.1
103	Wild licorice	0.1	-	-	< 0.1	0.6	0.8	< 0.1
104	Russian wild rye	0.1	-	-	< 0.1	1.2	1.8	< 0.1
105	Manitoba maple	0.1	-	-	< 0.1	0.4	0.8	< 0.1
106	Blue grass species	0.1	-	-	< 0.1	2.7	4.0	< 0.1
107	Large crab grass	0.1	-	-	< 0.1	6.9	7.8	< 0.1
108	Goat's-beard	0.1	-	-	< 0.1	0.3	0.4	< 0.1

*(Table continued on next page)*

Table 170. 1970s Aspen Parkland Ecoregion (3213 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
109	Small bugloss	0.1	-	-	< 0.1	0.2	0.2	< 0.1
110	Leafy spurge	0.1	-	-	< 0.1	0.3	0.4	< 0.1
111	Hoary cress species	0.1	-	-	< 0.1	0.7	0.8	< 0.1
112	False flax species	0.1	-	-	< 0.1	1.6	2.4	< 0.1
113	California allocarya	< 0.1	-	-	< 0.1	20.4	20.4	< 0.1
114	Western wheat grass	< 0.1	-	-	< 0.1	4.2	4.2	< 0.1
115	Wood whitlow-grass	< 0.1	-	-	< 0.1	2.8	2.8	< 0.1
116	Hoary puccoon	< 0.1	-	-	< 0.1	9.8	9.8	< 0.1
117	Field chickweed	< 0.1	-	-	< 0.1	0.6	0.6	< 0.1
118	Vervain species	< 0.1	-	-	< 0.1	1.8	1.8	< 0.1
119	Meadow rue species	< 0.1	-	-	< 0.1	1.8	1.8	< 0.1
120	Vetchling species	< 0.1	-	-	< 0.1	0.4	0.4	< 0.1
121	Atriplex species	< 0.1	-	-	< 0.1	0.4	0.4	< 0.1
122	Wood sage	< 0.1	-	-	< 0.1	3.2	3.2	< 0.1
123	Poverty oat grass	< 0.1	-	-	< 0.1	3.0	3.0	< 0.1
124	Common burdock	< 0.1	-	-	< 0.1	0.8	0.8	< 0.1
125	Sand-rocket	< 0.1	-	-	< 0.1	0.6	0.6	< 0.1
126	Wild cucumber	< 0.1	-	-	< 0.1	0.4	0.4	< 0.1
127	Clasping-leaved pennycress	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
128	Field violet	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
129	Maple-leaved goosefoot	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
130	Diffuse knapweed	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
131	Ground-ivy	< 0.1	-	-	< 0.1	2.0	2.0	< 0.1
132	Small alyssum	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
133	Wood-sorrel species	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
134	Field peas	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
135	Crested wheat grass	< 0.1	-	-	< 0.1	0.6	0.6	< 0.1
136	Blue lettuce	< 0.1	-	-	< 0.1	1.4	1.4	< 0.1
137	Green tansy mustard	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
138	Purslane speedwell	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1
139	Indian mustard	< 0.1	-	-	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 1970s**

Table 171. 1970s Fescue Grassland Ecoregion (206 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	92.1	-	-	30.4	33.0	611.7	90.2
2	Wild oats	69.1	-	-	12.5	18.1	537.9	53.4
3	Wild buckwheat	45.7	-	-	16.0	35.1	522.4	46.0
4	Lamb's-quarters	42.8	-	-	5.6	13.1	208.3	30.1
5	Canada thistle	43.0	-	-	1.8	4.3	38.1	25.1
6	Redroot pigweed	26.2	-	-	2.9	11.2	147.6	17.7
7	Flixweed	12.6	-	-	0.2	1.5	6.0	6.9
8	Wild mustard	7.6	-	-	0.6	7.9	44.0	4.8
9	Hemp-nettle	5.8	-	-	0.3	5.7	25.0	3.5
10	Cow cockle	5.1	-	-	0.3	6.1	11.9	3.1
11	Perennial sow-thistle	4.5	-	-	0.2	4.3	27.4	2.6
12	Canola/rapeseed	2.3	-	-	0.6	28.6	91.6	2.1
13	Green foxtail	2.8	-	-	0.4	15.1	63.1	2.1
14	Russian thistle	3.5	-	-	0.1	3.2	8.3	2.0
15	Dandelion	3.0	-	-	0.1	3.4	13.1	1.7
16	Round-leaved mallow	1.9	-	-	< 0.1	1.2	1.2	1.1
17	Pale smartweed	1.9	-	-	< 0.1	1.2	1.2	1.0
18	Kochia	1.5	-	-	< 0.1	2.7	7.1	0.8
19	Shepherd's-purse	1.2	-	-	0.1	4.9	10.7	0.7
20	Bluebur	1.1	-	-	< 0.1	2.8	6.0	0.6
21	Spear-leaved goosefoot	1.1	-	-	< 0.1	2.4	4.8	0.6
22	Wild tomato	0.9	-	-	< 0.1	2.3	4.8	0.5
23	Rose species	0.9	-	-	< 0.1	1.4	2.4	0.5
24	Night-flowering catchfly	0.9	-	-	< 0.1	1.2	1.2	0.5
25	Ball mustard	0.4	-	-	< 0.1	13.1	13.1	0.3
26	Tartary buckwheat	0.5	-	-	< 0.1	1.2	1.2	0.3
27	Quack grass	0.4	-	-	< 0.1	2.4	2.4	0.2
28	Henbit	0.4	-	-	< 0.1	2.4	2.4	0.2
29	Wormseed mustard	0.4	-	-	< 0.1	2.4	2.4	0.2
30	Chickweed	0.4	-	-	< 0.1	1.2	1.2	0.2
31	White cockle	0.4	-	-	< 0.1	1.2	1.2	0.2
32	Prostrate knotweed	0.4	-	-	< 0.1	1.2	1.2	0.2
33	Pineappleweed	0.4	-	-	< 0.1	1.2	1.2	0.2
34	Corn spurry	0.4	-	-	< 0.1	1.2	1.2	0.2

Table 172. 1970s Moist Mixed Grassland Ecoregion (1779 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	46.1	-	-	26.0	56.4	819.9	47.1
2	Wild buckwheat	81.5	-	-	8.5	10.4	800.9	36.1
3	Stinkweed	64.1	-	-	12.7	19.9	1188.8	36.0
4	Wild oats	70.5	-	-	11.0	15.7	564.2	35.9
5	Redroot pigweed	49.7	-	-	3.6	7.3	236.8	20.1
6	Lamb's-quarters	43.0	-	-	4.0	9.4	612.9	18.5
7	Russian thistle	40.6	-	-	3.6	8.9	257.0	17.2
8	Cow cockle	27.1	-	-	2.0	7.3	283.4	10.9
9	Flixweed	24.6	-	-	0.6	2.3	39.6	8.4
10	Wild mustard	20.3	-	-	0.9	4.6	224.9	7.5
11	Canada thistle	17.8	-	-	0.5	3.0	24.8	6.2
12	Rose species	14.3	-	-	0.3	1.7	37.8	4.8
13	Bluebur	12.5	-	-	0.4	2.9	117.8	4.3
14	Perennial sow-thistle	12.6	-	-	0.2	1.6	14.8	4.2
15	Kochia	10.2	-	-	0.4	4.0	117.8	3.7
16	Persian darnel	6.6	-	-	0.6	9.2	184.0	2.8
17	Pale smartweed	7.3	-	-	0.3	3.6	95.2	2.6
18	Thyme-leaved spurge	6.2	-	-	0.4	5.8	55.8	2.4
19	Prostrate pigweed	5.7	-	-	0.1	2.6	68.6	2.0
20	Canola/rapeseed	3.0	-	-	0.8	27.8	436.7	2.0
21	Dandelion	5.6	-	-	0.1	1.4	9.6	1.8
22	Barnyard grass	4.8	-	-	0.3	5.5	75.4	1.8
23	Biennial wormwood	4.9	-	-	0.1	1.2	7.2	1.6
24	Prostrate knotweed	4.8	-	-	0.1	1.3	11.4	1.6
25	Dock species	4.4	-	-	0.1	1.6	23.2	1.5
26	Common pepper-grass	4.3	-	-	0.1	1.7	27.8	1.4
27	Barley	3.4	-	-	0.2	5.2	106.4	1.3
28	Night-flowering catchfly	3.2	-	-	0.1	4.5	35.0	1.2
29	Wheat	2.9	-	-	0.1	4.0	53.4	1.0
30	Narrow-leaved hawk's-beard	2.9	-	-	0.1	3.1	28.0	1.0
31	Foxtail barley	2.8	-	-	< 0.1	1.0	12.4	0.9
32	Quack grass	2.3	-	-	0.1	5.6	44.6	0.9
33	Spear-leaved goosefoot	2.4	-	-	0.1	2.9	36.9	0.8
34	Vetch species	2.4	-	-	< 0.1	1.3	14.0	0.8
35	Flax	1.5	-	-	0.2	12.5	87.6	0.7
36	Shepherd's-purse	1.9	-	-	0.1	3.9	54.7	0.7
37	Round-leaved mallow	2.1	-	-	< 0.1	1.2	5.6	0.7
38	Clover species	1.6	-	-	0.1	6.2	53.0	0.6
39	Russian pigweed	1.6	-	-	< 0.1	2.9	19.8	0.6
40	Corn spurry	0.6	-	-	0.3	45.6	401.0	0.6
41	Tumble pigweed	1.3	-	-	< 0.1	1.1	6.6	0.4
42	Tartary buckwheat	0.8	-	-	0.1	13.7	39.3	0.4
43	Hemp-nettle	0.8	-	-	0.1	7.0	86.9	0.3
44	Wild tomato	1.0	-	-	< 0.1	1.0	4.8	0.3
45	Alfalfa	0.7	-	-	< 0.1	0.9	4.0	0.2
46	Sunflower species	0.6	-	-	< 0.1	0.8	5.2	0.2
47	Dog mustard	0.6	-	-	< 0.1	3.3	17.8	0.2
48	Field horsetail	0.6	-	-	< 0.1	3.4	9.6	0.2
49	Ball mustard	0.5	-	-	< 0.1	4.9	29.8	0.2
50	Povertyweed	0.5	-	-	< 0.1	3.7	9.6	0.2
51	Field mint	0.5	-	-	< 0.1	1.4	5.8	0.2
52	Scentsless chamomile	0.5	-	-	< 0.1	1.0	3.2	0.2
53	Field bindweed	0.4	-	-	< 0.1	3.6	12.6	0.1
54	Canada fleabane	0.4	-	-	< 0.1	0.4	0.6	0.1

(Table continued on next page)

**Field Survey Summary Tables – 1970s**

Table 172. 1970s Moist Mixed Grassland Ecoregion (1779 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Downy brome	0.3	-	-	< 0.1	17.8	49.0	0.1
56	Yellow toadflax	0.2	-	-	< 0.1	17.5	30.9	0.1
57	Common groundsel	0.3	-	-	< 0.1	5.9	30.9	0.1
58	Wormseed mustard	0.4	-	-	< 0.1	2.0	4.8	0.1
59	Skeletonweed	0.3	-	-	< 0.1	1.0	2.8	0.1
60	Nodding thistle	0.3	-	-	< 0.1	0.5	1.0	0.1
61	Western snowberry	0.3	-	-	< 0.1	3.8	10.0	0.1
62	Prickly lettuce	0.3	-	-	< 0.1	0.4	1.0	0.1
63	Broad-leaved plantain	0.3	-	-	< 0.1	0.5	1.2	0.1
64	Common ragweed	0.2	-	-	< 0.1	0.8	1.8	0.1
65	Stork's-bill	0.2	-	-	< 0.1	2.1	4.8	0.1
66	Tumble mustard	0.2	-	-	< 0.1	3.2	7.0	0.1
67	Oats	0.2	-	-	< 0.1	0.4	0.6	0.1
68	Pasture sage	0.2	-	-	< 0.1	1.1	1.8	0.1
69	Purslane	0.2	-	-	< 0.1	1.4	4.2	0.1
70	Hare's-ear mustard	0.2	-	-	< 0.1	3.4	9.0	0.1
71	Goldenrod species	0.2	-	-	< 0.1	0.7	2.0	< 0.1
72	Rye	0.1	-	-	< 0.1	1.2	2.4	< 0.1
73	Goat's-beard	0.1	-	-	< 0.1	0.7	1.2	< 0.1
74	Atriplex species	0.1	-	-	< 0.1	2.5	4.4	< 0.1
75	Russian wild rye	0.1	-	-	< 0.1	1.7	2.4	< 0.1
76	Absinth	0.1	-	-	< 0.1	2.6	4.6	< 0.1
77	Chickweed	0.1	-	-	< 0.1	0.5	1.2	< 0.1
78	Oak-leaved goosefoot	0.1	-	-	< 0.1	0.8	1.0	< 0.1
79	Willowherb species	0.1	-	-	< 0.1	0.2	0.2	< 0.1
80	Fringed loosestrife	0.1	-	-	< 0.1	0.4	0.6	< 0.1
81	White cockle	0.1	-	-	< 0.1	0.8	1.2	< 0.1
82	Rough cinquefoil	0.1	-	-	< 0.1	0.4	0.4	< 0.1
83	Hedge mustard	0.1	-	-	< 0.1	7.4	7.4	< 0.1
84	Pineappleweed	0.1	-	-	< 0.1	1.5	1.8	< 0.1
85	Crested wheat grass	0.1	-	-	< 0.1	0.2	0.2	< 0.1
86	Poison suckleya	0.1	-	-	< 0.1	10.8	10.8	< 0.1
87	Water smartweed	0.1	-	-	< 0.1	1.2	1.2	< 0.1
88	Toad rush	0.1	-	-	< 0.1	0.8	0.8	< 0.1
89	False ragweed	0.1	-	-	< 0.1	14.2	14.2	< 0.1
90	Blue lettuce	0.1	-	-	< 0.1	1.4	1.4	< 0.1
91	Slough grass	0.1	-	-	< 0.1	1.4	1.4	< 0.1
92	Conical catchfly	0.1	-	-	< 0.1	0.2	0.2	< 0.1
93	Leafy spurge	0.1	-	-	< 0.1	1.4	1.4	< 0.1
94	Manitoba maple	0.1	-	-	< 0.1	0.2	0.2	< 0.1
95	Long-stalked stitchwort	0.1	-	-	< 0.1	0.2	0.2	< 0.1
96	Golden-bean	0.1	-	-	< 0.1	3.0	3.0	< 0.1
97	White mustard	0.1	-	-	< 0.1	0.8	0.8	< 0.1
98	Poplar species	0.1	-	-	< 0.1	1.4	1.4	< 0.1
99	American dragonhead	0.1	-	-	< 0.1	0.2	0.2	< 0.1
100	Field chickweed	0.1	-	-	< 0.1	1.8	1.8	< 0.1
101	Smooth brome	0.1	-	-	< 0.1	1.0	1.0	< 0.1
102	Cleavers	0.1	-	-	< 0.1	0.8	0.8	< 0.1
103	Witch grass	0.1	-	-	< 0.1	1.0	1.0	< 0.1
104	Blue grass species	0.1	-	-	< 0.1	0.2	0.2	< 0.1
105	Henbit	< 0.1	-	-	< 0.1	9.5	17.9	< 0.1

Table 173. 1970s Mixed Grassland Ecoregion (1476 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	73.9	-	-	7.4	10.1	753.3	42.6
2	Russian thistle	62.2	-	-	8.1	12.9	427.2	39.8
3	Stinkweed	57.7	-	-	4.8	8.3	257.8	31.1
4	Redroot pigweed	61.9	-	-	3.8	6.2	246.3	30.6
5	Green foxtail	25.4	-	-	8.9	35.2	567.0	28.4
6	Wild oats	45.1	-	-	4.8	10.6	302.0	26.6
7	Cow cockle	44.9	-	-	3.3	7.3	376.0	23.2
8	Lamb's-quarters	34.6	-	-	0.9	2.7	186.8	14.5
9	Flixweed	27.1	-	-	0.6	2.4	50.4	11.1
10	Kochia	20.4	-	-	1.0	5.1	117.8	9.6
11	Wild mustard	14.8	-	-	0.4	3.0	95.0	6.3
12	Rose species	7.8	-	-	0.2	2.1	20.8	3.1
13	Persian darnel	4.7	-	-	0.4	9.0	242.2	2.6
14	Canada thistle	5.8	-	-	0.2	2.7	17.9	2.4
15	Bluebur	5.5	-	-	0.1	0.9	10.0	2.1
16	Perennial sow-thistle	5.1	-	-	0.1	2.2	80.9	2.1
17	Prostrate knotweed	4.2	-	-	0.1	2.4	64.6	1.7
18	Prostrate pigweed	4.1	-	-	0.1	1.9	17.2	1.7
19	Wheat	3.5	-	-	0.1	2.4	15.0	1.4
20	Thyme-leaved spurge	2.9	-	-	0.1	2.5	18.8	1.2
21	Dandelion	2.4	-	-	0.1	5.6	38.1	1.1
22	Pale smartweed	2.7	-	-	0.1	2.6	16.8	1.1
23	Vetch species	2.4	-	-	< 0.1	1.1	6.4	0.9
24	Biennial wormwood	2.3	-	-	< 0.1	1.1	6.4	0.9
25	Barnyard grass	1.9	-	-	0.1	5.3	40.0	0.9
26	Common pepper-grass	2.2	-	-	< 0.1	0.7	3.8	0.8
27	Foxtail barley	2.1	-	-	< 0.1	1.2	17.6	0.8
28	Wild tomato	1.8	-	-	< 0.1	1.8	100.0	0.7
29	Purslane	1.7	-	-	< 0.1	2.2	31.6	0.7
30	Skeletonweed	1.4	-	-	0.1	4.8	25.2	0.7
31	Barley	1.5	-	-	< 0.1	3.0	41.4	0.6
32	Shepherd's-purse	1.1	-	-	0.1	8.3	52.4	0.6
33	Russian pigweed	1.4	-	-	< 0.1	2.3	29.6	0.6
34	Tumble mustard	1.3	-	-	< 0.1	1.8	18.0	0.5
35	Round-leaved mallow	1.2	-	-	< 0.1	1.2	4.8	0.5
36	Spear-leaved goosefoot	1.2	-	-	< 0.1	1.1	13.1	0.5
37	Clover species	0.9	-	-	< 0.1	4.0	51.0	0.4
38	Sunflower species	0.7	-	-	0.1	11.1	146.4	0.4
39	Tumble pigweed	0.9	-	-	< 0.1	1.7	6.0	0.3
40	Dock species	0.8	-	-	< 0.1	0.9	2.8	0.3
41	Flax	0.7	-	-	< 0.1	3.2	27.6	0.3
42	Quack grass	0.6	-	-	< 0.1	1.8	8.2	0.2
43	Dog mustard	0.6	-	-	< 0.1	1.3	4.6	0.2
44	Hare's-ear mustard	0.5	-	-	< 0.1	1.2	7.8	0.2
45	Alfalfa	0.5	-	-	< 0.1	1.0	4.0	0.2
46	California allocarya	0.3	-	-	< 0.1	8.3	32.4	0.2
47	Prickly lettuce	0.5	-	-	< 0.1	0.3	1.0	0.2
48	Goat's-beard	0.4	-	-	< 0.1	0.3	0.6	0.2
49	Field horsetail	0.4	-	-	< 0.1	0.6	1.0	0.1
50	Common groundsel	0.3	-	-	< 0.1	2.1	19.0	0.1
51	Hemp-nettle	0.3	-	-	< 0.1	0.8	1.2	0.1
52	Blue lettuce	0.3	-	-	< 0.1	2.1	6.8	0.1
53	Canola/rapeseed	0.3	-	-	< 0.1	1.8	3.4	0.1
54	Povertyweed	0.3	-	-	< 0.1	1.3	2.2	0.1

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**Field Survey Summary Tables – 1970s**

Table 173. 1970s Mixed Grassland Ecoregion (1476 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Field bindweed	0.3	-	-	< 0.1	0.8	2.4	0.1
56	Purslane speedwell	0.2	-	-	< 0.1	0.8	2.0	0.1
57	Common yarrow	0.3	-	-	< 0.1	0.3	0.4	0.1
58	Wormseed mustard	0.2	-	-	< 0.1	6.5	15.5	0.1
59	Poison suckleya	0.1	-	-	< 0.1	39.6	39.6	0.1
60	Rye	0.2	-	-	< 0.1	2.5	4.0	0.1
61	Wild licorice	0.2	-	-	< 0.1	0.5	0.6	0.1
62	Scarlet mallow	0.2	-	-	< 0.1	0.8	1.6	0.1
63	Pasture sage	0.2	-	-	< 0.1	0.5	1.2	0.1
64	Broad-leaved plantain	0.2	-	-	< 0.1	1.0	2.4	0.1
65	Lance-leaved psoralea	0.2	-	-	< 0.1	0.5	1.0	0.1
66	Narrow-leaved hawk's-beard	0.2	-	-	< 0.1	1.2	1.2	0.1
67	Ball mustard	0.2	-	-	< 0.1	1.2	1.2	0.1
68	Downy brome	0.1	-	-	< 0.1	2.9	5.0	0.1
69	Chickweed	0.1	-	-	< 0.1	1.6	9.5	0.1
70	Cleavers	0.1	-	-	< 0.1	1.6	2.4	0.1
71	Canada fleabane	0.1	-	-	< 0.1	0.8	1.0	< 0.1
72	Milk-vetch species	0.1	-	-	< 0.1	1.0	1.6	< 0.1
73	Tartary buckwheat	0.1	-	-	< 0.1	0.3	0.4	< 0.1
74	Oats	0.1	-	-	< 0.1	0.2	0.2	< 0.1
75	Smooth brome	0.1	-	-	< 0.1	1.1	1.2	< 0.1
76	Goldenrod species	0.1	-	-	< 0.1	0.8	1.2	< 0.1
77	Field mint	0.1	-	-	< 0.1	1.0	1.0	< 0.1
78	Gumweed	0.1	-	-	< 0.1	0.3	0.4	< 0.1
79	Night-flowering catchfly	0.1	-	-	< 0.1	8.4	8.4	< 0.1
80	Golden-bean	0.1	-	-	< 0.1	9.6	9.6	< 0.1
81	Northern bedstraw	0.1	-	-	< 0.1	4.8	4.8	< 0.1
82	Western snowberry	0.1	-	-	< 0.1	4.0	4.0	< 0.1
83	Absinth	< 0.1	-	-	< 0.1	13.4	13.4	< 0.1
84	Russian wild rye	0.1	-	-	< 0.1	3.0	3.0	< 0.1
85	Five-hooked bassia	0.1	-	-	< 0.1	2.6	2.6	< 0.1
86	Yellow cress species	0.1	-	-	< 0.1	2.8	2.8	< 0.1
87	Cocklebur	0.1	-	-	< 0.1	0.4	0.4	< 0.1
88	Fringed loosestrife	0.1	-	-	< 0.1	0.2	0.2	< 0.1
89	Plains coreopsis	0.1	-	-	< 0.1	0.4	0.4	< 0.1
90	Water smartweed	0.1	-	-	< 0.1	2.2	2.2	< 0.1
91	Spiny ironplant	0.1	-	-	< 0.1	0.2	0.2	< 0.1
92	Pussytoes species	0.1	-	-	< 0.1	0.2	0.2	< 0.1
93	Blue grass species	0.1	-	-	< 0.1	0.2	0.2	< 0.1
94	Ash species	0.1	-	-	< 0.1	0.2	0.2	< 0.1
95	Corn spurry	0.1	-	-	< 0.1	0.2	0.2	< 0.1
96	Pygmyflower	0.1	-	-	< 0.1	0.8	0.8	< 0.1
97	Henbit	0.1	-	-	< 0.1	1.2	1.2	< 0.1
98	Collomia	0.1	-	-	< 0.1	0.2	0.2	< 0.1
99	Wood whitlow-grass	0.1	-	-	< 0.1	0.2	0.2	< 0.1



Table 174. 1970s Lake Manitoba Plain Ecoregion (473 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	84.8	-	-	49.7	58.6	1425.8	80.4
2	Wild oats	72.4	-	-	12.3	17.0	480.2	35.6
3	Pale smartweed	59.3	-	-	8.5	14.3	201.8	27.4
4	Wild buckwheat	71.0	-	-	4.5	6.4	114.8	26.6
5	Wild mustard	43.6	-	-	1.3	3.0	50.2	14.7
6	Canada thistle	43.8	-	-	1.2	2.8	63.0	14.7
7	Redroot pigweed	37.9	-	-	1.1	2.9	64.4	12.7
8	Perennial sow-thistle	34.2	-	-	1.1	3.2	56.8	11.6
9	Lamb's-quarters	27.0	-	-	1.1	4.1	107.8	9.4
10	Barnyard grass	13.5	-	-	2.9	21.7	257.6	7.3
11	Thyme-leaved spurge	14.1	-	-	0.5	3.3	43.8	4.8
12	Quack grass	11.4	-	-	1.1	9.4	300.8	4.7
13	Flax	8.1	-	-	1.4	17.3	297.2	4.0
14	Stinkweed	8.9	-	-	0.1	1.5	9.2	2.9
15	Field horsetail	7.2	-	-	0.3	4.1	23.6	2.5
16	Night-flowering catchfly	7.0	-	-	0.2	3.2	20.6	2.4
17	Dandelion	6.1	-	-	0.1	1.6	13.2	1.9
18	Wheat	5.7	-	-	0.1	2.3	16.8	1.9
19	Russian thistle	5.2	-	-	0.2	3.3	15.2	1.8
20	Prostrate knotweed	5.3	-	-	0.1	2.5	16.4	1.8
21	Round-leaved mallow	5.0	-	-	0.1	1.7	10.4	1.6
22	Clover species	4.6	-	-	0.1	2.9	24.6	1.5
23	Rose species	4.7	-	-	0.1	1.6	11.0	1.5
24	Barley	4.0	-	-	0.1	2.7	18.2	1.3
25	Tartary buckwheat	3.7	-	-	0.2	4.3	34.6	1.3
26	Hemp-nettle	3.6	-	-	0.1	4.0	39.0	1.2
27	Showy milkweed	3.5	-	-	0.1	1.8	8.4	1.1
28	Field bindweed	3.2	-	-	0.1	4.1	20.2	1.1
29	Yellow foxtail	1.4	-	-	0.5	38.4	157.0	1.0
30	Purslane	3.0	-	-	0.1	2.8	12.6	1.0
31	Cow cockle	2.8	-	-	0.1	3.0	10.6	0.9
32	Dog mustard	2.6	-	-	0.1	5.2	33.0	0.9
33	Yellow sweet-clover	2.7	-	-	0.1	2.1	6.4	0.9
34	Prostrate pigweed	2.3	-	-	0.1	3.4	11.6	0.8
35	Alfalfa	2.4	-	-	< 0.1	1.0	5.2	0.8
36	Bluebur	2.2	-	-	< 0.1	0.8	2.0	0.7
37	Canola/rapeseed	1.9	-	-	0.1	3.1	10.4	0.7
38	Water smartweed	2.0	-	-	< 0.1	2.5	10.4	0.6
39	Chickweed	1.6	-	-	0.1	6.8	51.8	0.6
40	Kochia	1.4	-	-	0.1	9.2	52.0	0.6
41	Ball mustard	1.2	-	-	0.1	11.5	32.0	0.5
42	Cocklebur	1.6	-	-	< 0.1	1.2	3.0	0.5
43	Flixweed	1.5	-	-	< 0.1	1.0	4.2	0.5
44	Witch grass	1.0	-	-	0.1	11.4	50.2	0.4
45	Vetch species	1.4	-	-	< 0.1	0.9	4.2	0.4
46	Oats	0.8	-	-	0.2	21.4	81.2	0.4
47	Broad-leaved plantain	1.3	-	-	< 0.1	1.4	25.6	0.4
48	Leafy spurge	1.2	-	-	< 0.1	3.4	9.6	0.4
49	Black medick	1.2	-	-	< 0.1	3.2	18.2	0.4
50	White cockle	1.1	-	-	< 0.1	1.6	6.0	0.4
51	False flax species	1.1	-	-	< 0.1	1.6	5.0	0.4
52	Aster species	1.1	-	-	< 0.1	1.4	5.6	0.4
53	Cleavers	1.0	-	-	< 0.1	3.9	17.0	0.4
54	Common ragweed	1.0	-	-	< 0.1	3.5	16.0	0.3

(Table continued on next page)

**Field Survey Summary Tables – 1970s**

Table 174. 1970s Lake Manitoba Plain Ecoregion (473 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Spear-leaved goosefoot	0.9	-	-	< 0.1	1.8	6.8	0.3
56	Absinth	1.0	-	-	< 0.1	1.4	2.2	0.3
57	Biennial wormwood	1.0	-	-	< 0.1	0.5	1.0	0.3
58	American dragonhead	0.9	-	-	< 0.1	0.9	1.8	0.3
59	Sunflower species	0.8	-	-	< 0.1	4.1	15.0	0.3
60	Shepherd's-purse	0.8	-	-	< 0.1	0.8	1.8	0.2
61	Stork's-bill	0.7	-	-	< 0.1	1.0	2.4	0.2
62	Corn spurry	0.6	-	-	< 0.1	2.3	5.2	0.2
63	Smooth brome	0.6	-	-	< 0.1	3.6	8.4	0.2
64	Field mint	0.5	-	-	< 0.1	2.3	3.2	0.2
65	False ragweed	0.6	-	-	< 0.1	1.6	2.0	0.2
66	Narrow-leaved hawk's-beard	0.5	-	-	< 0.1	0.5	0.6	0.2
67	Large crab grass	0.4	-	-	< 0.1	1.0	1.0	0.1
68	Wild rye/wheat grass species	0.2	-	-	0.1	28.6	28.6	0.1
69	Common burdock	0.4	-	-	< 0.1	0.3	0.4	0.1
70	Russian pigweed	0.4	-	-	< 0.1	0.2	0.2	0.1
71	Scouring-rush	0.4	-	-	< 0.1	0.6	0.8	0.1
72	Maple-leaved goosefoot	0.4	-	-	< 0.1	0.2	0.2	0.1
73	Atriplex species	0.3	-	-	< 0.1	2.2	2.2	0.1
74	Dock species	0.3	-	-	< 0.1	0.2	0.2	0.1
75	Common groundsel	0.3	-	-	< 0.1	1.0	1.0	0.1
76	Bladder campion	0.2	-	-	< 0.1	5.2	5.2	0.1
77	Tumble pigweed	0.2	-	-	< 0.1	0.4	0.4	0.1
78	Wild radish	0.2	-	-	< 0.1	2.6	2.6	0.1
79	Rough cinquefoil	0.2	-	-	< 0.1	0.8	0.8	0.1
80	Field dodder	0.2	-	-	< 0.1	0.8	0.8	0.1
81	Giant ragweed	0.2	-	-	< 0.1	0.6	0.6	0.1
82	Hairy-nerved carrionflower	0.2	-	-	< 0.1	0.2	0.2	0.1
83	Hare's-ear mustard	0.2	-	-	< 0.1	0.2	0.2	0.1
84	Common pepper-grass	0.2	-	-	< 0.1	0.2	0.2	0.1
85	Wild tomato	0.2	-	-	< 0.1	0.2	0.2	0.1
86	Corn	0.2	-	-	< 0.1	0.8	0.8	0.1
87	Pygmyflower	0.2	-	-	< 0.1	0.4	0.4	0.1
88	Manitoba maple	0.2	-	-	< 0.1	0.4	0.4	0.1
89	Bicknell's geranium	0.2	-	-	< 0.1	0.2	0.2	0.1
90	White mustard	0.2	-	-	< 0.1	0.2	0.2	0.1

Table 175. 1970s Interlake Plain Ecoregion (184 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	66.7	-	-	36.4	54.5	772.4	49.7
2	Wild oats	79.2	-	-	21.1	26.7	629.8	38.2
3	Wild buckwheat	84.4	-	-	8.3	9.8	161.6	27.4
4	Pale smartweed	58.3	-	-	7.0	11.9	187.2	20.1
5	Canada thistle	69.5	-	-	2.6	3.7	39.2	18.6
6	Wild mustard	54.0	-	-	2.5	4.6	262.6	14.8
7	Lamb's-quarters	47.6	-	-	2.8	5.9	93.8	13.7
8	Perennial sow-thistle	53.0	-	-	1.4	2.6	46.2	13.6
9	Redroot pigweed	45.1	-	-	2.0	4.3	65.6	12.3
10	Barnyard grass	21.5	-	-	6.0	28.1	340.4	10.6
11	Hemp-nettle	25.5	-	-	2.4	9.5	39.6	8.2
12	Night-flowering catchfly	24.6	-	-	2.1	8.6	82.8	7.7
13	Quack grass	22.9	-	-	2.3	9.9	176.8	7.4
14	Stinkweed	28.1	-	-	0.6	2.3	23.4	7.1
15	Field horsetail	18.0	-	-	2.0	11.2	63.6	6.1
16	Cleavers	9.2	-	-	0.7	7.7	30.4	2.8
17	Bluebur	10.3	-	-	0.4	4.2	40.8	2.8
18	Broad-leaved plantain	7.6	-	-	0.9	11.4	60.0	2.6
19	Flax	6.5	-	-	1.1	16.6	104.0	2.5
20	Dandelion	9.2	-	-	0.2	1.9	11.0	2.3
21	Shepherd's-purse	6.9	-	-	0.3	4.7	49.8	1.9
22	Barley	6.4	-	-	0.3	4.9	33.4	1.8
23	Chickweed	4.9	-	-	0.5	10.8	96.6	1.6
24	Canola/rapeseed	6.2	-	-	0.1	2.1	8.0	1.6
25	Prostrate knotweed	6.3	-	-	0.1	1.3	5.2	1.5
26	American dragonhead	6.4	-	-	0.1	0.9	6.2	1.5
27	Dog mustard	6.3	-	-	< 0.1	0.7	1.6	1.5
28	Cow cockle	5.7	-	-	0.1	2.6	34.8	1.5
29	Bicknell's geranium	5.6	-	-	< 0.1	0.4	1.6	1.3
30	Thyme-leaved spurge	5.2	-	-	0.1	1.5	6.6	1.3
31	Vetch species	4.7	-	-	< 0.1	0.6	2.0	1.1
32	Wheat	4.0	-	-	0.1	2.1	5.8	1.0
33	Yellow sweet-clover	3.2	-	-	0.2	4.7	14.4	0.9
34	Clover species	3.6	-	-	< 0.1	1.3	2.6	0.9
35	Alfalfa	3.2	-	-	< 0.1	0.5	1.0	0.8
36	Black medick	3.0	-	-	0.1	2.3	21.4	0.7
37	Flixweed	2.8	-	-	< 0.1	1.0	3.0	0.7
38	Biennial wormwood	2.2	-	-	0.2	7.4	10.8	0.7
39	Russian thistle	2.2	-	-	0.1	5.8	15.2	0.6
40	Round-leaved mallow	2.5	-	-	< 0.1	1.3	4.8	0.6
41	Tartary buckwheat	1.8	-	-	0.1	5.7	17.6	0.5
42	Tall hedge mustard	0.6	-	-	0.4	59.6	59.6	0.5
43	Narrow-leaved hawk's-beard	1.9	-	-	< 0.1	1.1	2.8	0.5
44	Spiny annual sow-thistle	1.6	-	-	0.1	5.0	6.8	0.5
45	Absinth	1.6	-	-	< 0.1	1.6	2.0	0.4
46	Bladder campion	1.7	-	-	< 0.1	0.5	0.8	0.4
47	Smooth brome	1.6	-	-	< 0.1	1.4	3.0	0.4
48	Manitoba maple	1.6	-	-	< 0.1	0.2	0.2	0.4
49	Water smartweed	1.5	-	-	< 0.1	1.4	2.0	0.4
50	Prostrate pigweed	1.4	-	-	< 0.1	0.7	1.2	0.3
51	Spear-leaved goosefoot	1.2	-	-	0.1	4.9	10.2	0.3
52	Wormseed mustard	1.3	-	-	< 0.1	0.2	0.2	0.3
53	Stork's-bill	1.1	-	-	< 0.1	1.0	5.2	0.3
54	June grass	0.5	-	-	0.2	30.2	30.2	0.3

(Table continued on next page)

**Field Survey Summary Tables – 1970s**

Table 175. 1970s Interlake Plain Ecoregion (184 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Povertyweed	0.8	-	-	0.1	7.0	7.0	0.2
56	Field mint	1.0	-	-	< 0.1	0.7	0.8	0.2
57	White cockle	0.8	-	-	< 0.1	0.4	0.4	0.2
58	Purslane	0.8	-	-	< 0.1	0.2	0.2	0.2
59	Rose species	0.7	-	-	< 0.1	1.2	2.6	0.2
60	Giant ragweed	0.7	-	-	< 0.1	1.7	2.2	0.2
61	Maple-leaved goosefoot	0.7	-	-	< 0.1	0.2	0.2	0.2
62	Pasture sage	0.6	-	-	< 0.1	0.2	0.2	0.1
63	Aster species	0.6	-	-	< 0.1	0.2	0.2	0.1
64	Meadow rue species	0.5	-	-	< 0.1	1.1	2.2	0.1
65	Timothy	0.5	-	-	< 0.1	0.4	0.4	0.1
66	Scentless chamomile	0.5	-	-	< 0.1	0.2	0.2	0.1
67	False ragweed	0.5	-	-	< 0.1	0.2	0.2	0.1
68	Common yarrow	0.5	-	-	< 0.1	0.2	0.2	0.1
69	Blue grass species	0.3	-	-	< 0.1	2.3	4.2	0.1
70	Witch grass	0.2	-	-	< 0.1	10.2	10.2	0.1
71	Yellow cress species	0.2	-	-	< 0.1	4.0	4.0	< 0.1
72	Rough cinquefoil	0.2	-	-	< 0.1	3.8	3.8	< 0.1
73	Persian darnel	0.2	-	-	< 0.1	2.4	2.4	< 0.1
74	Foxtail barley	0.2	-	-	< 0.1	1.0	1.0	< 0.1
75	Yellow rocket	0.2	-	-	< 0.1	0.8	0.8	< 0.1
76	Northern bedstraw	0.2	-	-	< 0.1	0.6	0.6	< 0.1
77	Showy milkweed	0.2	-	-	< 0.1	0.6	0.6	< 0.1
78	Spreading dogbane	0.2	-	-	< 0.1	0.2	0.2	< 0.1

Table 176. 1970s Spring wheat (3793 fields, SK and MB only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	57.3	35.6	62.1	33.3	58.1	1404.4	69.6
2	Wild oats	72.9	29.9	41.0	11.7	16.0	629.8	39.7
3	Wild buckwheat	84.5	40.2	47.5	6.1	7.2	155.4	38.2
4	Redroot pigweed	51.4	14.5	28.3	2.5	4.8	187.0	17.1
5	Stinkweed	49.2	12.7	25.8	2.9	5.8	217.4	16.5
6	Russian thistle	39.5	12.4	31.5	2.8	7.2	195.8	15.0
7	Lamb's-quarters	41.3	10.7	25.9	1.6	3.8	107.8	12.8
8	Cow cockle	30.3	9.0	29.8	1.9	6.4	376.0	11.0
9	Canada thistle	26.1	5.3	20.3	0.7	2.6	63.0	7.0
10	Wild mustard	24.8	5.4	21.8	0.7	3.0	98.6	6.9
11	Perennial sow-thistle	23.8	4.4	18.5	0.5	2.1	73.2	6.0
12	Pale smartweed	15.4	4.5	29.0	1.1	7.4	201.8	5.7
13	Flixweed	19.6	3.5	18.0	0.4	2.1	50.4	4.9
14	Night-flowering catchfly	12.7	4.1	32.4	0.8	5.9	160.0	4.7
15	Bluebur	17.3	3.7	21.2	0.4	2.3	48.8	4.6
16	Kochia	9.2	2.1	22.9	0.3	3.1	66.6	2.6
17	Rose species	11.3	1.3	11.4	0.2	1.4	20.8	2.4
18	Barnyard grass	5.6	1.3	22.6	0.7	12.5	340.4	2.3
19	Shepherd's-purse	6.9	1.6	22.7	0.3	4.3	88.4	2.1
20	Hemp-nettle	5.6	1.6	29.4	0.3	5.2	52.4	1.9
21	Thyme-leaved spurge	5.5	1.5	27.9	0.2	4.4	66.4	1.8
22	Field horsetail	4.9	1.1	22.9	0.3	7.0	85.4	1.7
23	Persian darnel	4.2	1.0	22.6	0.4	9.2	242.2	1.6
24	Flax	2.8	1.0	35.5	0.4	15.9	297.2	1.4
25	Dandelion	5.9	1.0	16.5	0.1	1.5	25.4	1.4
26	Prostrate knotweed	5.6	0.9	16.2	0.1	1.6	64.6	1.3
27	Prostrate pigweed	5.0	0.8	16.6	0.1	2.2	68.6	1.2
28	Canola/rapeseed	4.3	1.0	23.6	0.1	2.9	47.4	1.2
29	Chickweed	2.4	0.6	26.7	0.4	18.0	370.6	1.2
30	Quack grass	4.2	0.6	15.0	0.2	4.2	79.2	1.1
31	Narrow-leaved hawk's-beard	3.7	0.9	23.2	0.1	3.4	51.2	1.1
32	Barley	4.6	0.6	14.1	0.1	1.9	90.2	1.0
33	Biennial wormwood	4.5	0.6	13.7	0.1	1.3	13.6	1.0
34	Clover species	2.7	0.6	21.4	0.2	6.4	214.2	0.9
35	Vetch species	3.6	0.4	12.7	< 0.1	1.0	7.6	0.8
36	Common pepper-grass	3.1	0.4	13.8	< 0.1	1.2	13.8	0.7
37	Round-leaved mallow	2.8	0.4	14.5	< 0.1	1.5	10.4	0.6
38	Cleavers	1.6	0.4	25.9	0.1	4.5	36.6	0.5
39	Foxtail barley	2.3	0.2	10.3	< 0.1	1.1	17.6	0.5
40	Dock species	2.0	0.3	14.2	< 0.1	1.5	23.2	0.5
41	Wheat	1.7	0.3	16.2	< 0.1	2.5	51.4	0.4
42	Alfalfa	1.2	0.3	24.1	0.1	5.3	66.0	0.4
43	Dog mustard	1.4	0.2	16.9	< 0.1	2.5	38.2	0.3
44	Russian pigweed	1.1	0.2	17.5	< 0.1	2.5	29.6	0.3
45	Spear-leaved goosefoot	1.1	0.2	13.6	< 0.1	1.6	15.0	0.3
46	Black medick	0.7	0.2	28.6	< 0.1	7.5	55.8	0.2
47	Common groundsel	0.8	0.2	21.8	< 0.1	2.6	27.0	0.2
48	Ball mustard	0.8	0.2	18.9	< 0.1	3.1	32.0	0.2
49	Broad-leaved plantain	0.8	0.1	13.6	< 0.1	4.3	60.0	0.2
50	Corn spurry	0.5	0.2	33.7	0.1	11.7	48.6	0.2
51	Tumble pigweed	0.9	0.1	13.4	< 0.1	1.1	6.0	0.2
52	Purslane	1.0	0.1	10.0	< 0.1	1.7	31.6	0.2
53	Wild tomato	0.8	0.1	13.3	< 0.1	2.6	55.4	0.2
54	Skeletonweed	0.6	0.1	19.2	< 0.1	4.2	25.2	0.2

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**Field Survey Summary Tables – 1970s Spring Wheat**

Table 176. 1970s Spring wheat (3793 fields, SK and MB only) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Sunflower species	0.7	0.1	14.9	< 0.1	5.2	146.4	0.2
56	Field bindweed	0.6	0.2	29.1	< 0.1	2.9	13.8	0.2
57	White cockle	0.5	0.1	29.5	< 0.1	4.6	27.2	0.2
58	Wormseed mustard	0.6	0.1	20.6	< 0.1	1.8	6.0	0.1
59	Tumble mustard	0.6	0.1	15.3	< 0.1	2.0	18.0	0.1
60	Scentless chamomile	0.6	0.1	15.2	< 0.1	1.1	4.4	0.1
61	Tartary buckwheat	0.4	0.1	22.5	< 0.1	4.0	34.6	0.1
62	Long-stalked stitchwort	< 0.1	< 0.1	100.0	0.1	236.4	236.4	0.1
63	Oats	0.3	0.1	21.2	< 0.1	7.4	81.2	0.1
64	Pineappleweed	0.5	0.1	11.1	< 0.1	1.3	5.6	0.1
65	Hare's-ear mustard	0.4	0.1	19.6	< 0.1	2.3	9.0	0.1
66	Stork's-bill	0.4	0.1	12.6	< 0.1	1.0	4.2	0.1
67	Western snowberry	0.3	0.1	21.0	< 0.1	2.4	5.8	0.1
68	Povertyweed	0.3	0.1	17.6	< 0.1	3.0	9.6	0.1
69	Yellow sweet-clover	0.4	< 0.1	12.6	< 0.1	1.9	14.4	0.1
70	Downy brome	0.2	< 0.1	19.0	< 0.1	12.0	49.6	0.1
71	Absinth	0.4	< 0.1	13.2	< 0.1	1.5	13.4	0.1
72	Yellow foxtail	0.1	0.1	47.3	< 0.1	22.2	68.8	0.1
73	Field mint	0.3	< 0.1	10.2	< 0.1	1.8	6.6	0.1
74	Bicknell's geranium	0.3	< 0.1	13.1	< 0.1	0.8	4.2	0.1
75	American dragonhead	0.2	< 0.1	18.9	< 0.1	1.4	4.0	0.1
76	California allocarya	0.1	< 0.1	30.5	< 0.1	10.6	32.4	0.1
77	Witch grass	0.2	< 0.1	14.5	< 0.1	2.4	13.6	0.1
78	Water smartweed	0.3	< 0.1	11.4	< 0.1	2.2	10.4	0.1
79	Common ragweed	0.2	< 0.1	18.7	< 0.1	2.1	8.8	0.1
80	Canada fleabane	0.3	< 0.1	9.2	< 0.1	0.5	1.6	0.1
81	Poplar species	0.2	< 0.1	11.2	< 0.1	0.7	1.6	< 0.1
82	Showy milkweed	0.2	< 0.1	8.8	< 0.1	1.9	8.4	< 0.1
83	Prickly lettuce	0.2	< 0.1	6.6	< 0.1	0.3	1.0	< 0.1
84	Aster species	0.2	< 0.1	10.7	< 0.1	1.1	5.6	< 0.1
85	Atriplex species	0.2	< 0.1	17.2	< 0.1	1.3	4.4	< 0.1
86	Smooth brome	0.2	< 0.1	10.4	< 0.1	1.8	8.4	< 0.1
87	Northern bedstraw	0.1	< 0.1	30.8	< 0.1	3.1	8.2	< 0.1
88	False ragweed	0.1	< 0.1	32.7	< 0.1	3.8	14.2	< 0.1
89	Poison suckleya	0.1	< 0.1	50.6	< 0.1	24.4	39.6	< 0.1
90	Leafy spurge	0.1	< 0.1	25.1	< 0.1	2.8	9.6	< 0.1
91	Rye	0.2	< 0.1	10.5	< 0.1	1.4	4.0	< 0.1
92	Pasture sage	0.2	< 0.1	8.1	< 0.1	0.4	1.2	< 0.1
93	Tall buttercup	0.2	< 0.1	8.6	< 0.1	0.5	1.4	< 0.1
94	Cocklebur	0.2	< 0.1	11.3	< 0.1	1.0	3.0	< 0.1
95	Oak-leaved goosefoot	0.2	< 0.1	8.5	< 0.1	0.6	1.2	< 0.1
96	Yellow cress species	0.1	< 0.1	14.1	< 0.1	1.9	3.2	< 0.1
97	Goat's-beard	0.2	< 0.1	6.4	< 0.1	0.3	0.6	< 0.1
98	Pygmyflower	0.1	< 0.1	9.2	< 0.1	1.2	3.4	< 0.1
99	Wild rye/wheat grass species	< 0.1	< 0.1	95.0	< 0.1	28.6	28.6	< 0.1
100	Russian wild rye	0.1	< 0.1	26.7	< 0.1	2.0	3.0	< 0.1
101	Nodding thistle	0.1	< 0.1	9.2	< 0.1	0.5	1.0	< 0.1
102	Blue grass species	0.1	< 0.1	10.4	< 0.1	1.7	4.2	< 0.1
103	Manitoba maple	0.1	< 0.1	5.0	< 0.1	0.2	0.4	< 0.1
104	Hedge mustard	< 0.1	< 0.1	75.0	< 0.1	7.4	7.4	< 0.1
105	Blue lettuce	0.1	< 0.1	12.6	< 0.1	2.5	6.8	< 0.1
106	Common yarrow	0.1	< 0.1	6.0	< 0.1	0.3	0.4	< 0.1
107	Large crab grass	0.1	< 0.1	11.7	< 0.1	2.7	6.0	< 0.1
108	Goldenrod species	0.1	< 0.1	7.5	< 0.1	0.4	0.8	< 0.1

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Table 176. 1970s Spring wheat (3793 fields, SK and MB only) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
109	White mustard	0.1	< 0.1	11.6	< 0.1	1.2	2.0	< 0.1
110	Willowherb species	0.1	< 0.1	5.0	< 0.1	2.3	7.0	< 0.1
111	Purslane speedwell	0.1	< 0.1	9.1	< 0.1	0.9	2.0	< 0.1
112	Canada anemone	0.1	< 0.1	6.7	< 0.1	0.3	0.6	< 0.1
113	Milk-vetch species	0.1	< 0.1	11.5	< 0.1	0.8	1.6	< 0.1
114	False flax species	0.1	< 0.1	17.5	< 0.1	0.8	1.2	< 0.1
115	Scarlet mallow	0.1	< 0.1	9.9	< 0.1	0.8	1.6	< 0.1
116	Fringed loosestrife	0.1	< 0.1	5.0	< 0.1	0.3	0.6	< 0.1
117	Pearly everlasting	< 0.1	< 0.1	15.0	< 0.1	8.6	8.6	< 0.1
118	Yellow toadflax	0.1	< 0.1	5.0	< 0.1	0.4	0.8	< 0.1
119	Rough cinquefoil	0.1	< 0.1	9.7	< 0.1	0.4	0.8	< 0.1
120	Wild licorice	0.1	< 0.1	7.4	< 0.1	0.4	0.4	< 0.1
121	Field chickweed	0.1	< 0.1	14.2	< 0.1	1.1	1.8	< 0.1
122	Spiny annual sow-thistle	< 0.1	< 0.1	45.0	< 0.1	6.8	6.8	< 0.1
123	Common burdock	0.1	< 0.1	17.1	< 0.1	1.5	2.2	< 0.1
124	Crested wheat grass	0.1	< 0.1	5.0	< 0.1	0.3	0.6	< 0.1
125	Maple-leaved goosefoot	< 0.1	< 0.1	17.7	< 0.1	0.7	1.0	< 0.1
126	Hoary puccoon	< 0.1	< 0.1	25.0	< 0.1	9.8	9.8	< 0.1
127	June grass	< 0.1	< 0.1	10.0	< 0.1	30.2	30.2	< 0.1
128	Henbit	0.1	< 0.1	7.2	< 0.1	0.4	0.6	< 0.1
129	Small bugloss	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
130	Western wheat grass	< 0.1	< 0.1	15.0	< 0.1	4.2	4.2	< 0.1
131	Vervain species	< 0.1	< 0.1	20.0	< 0.1	1.8	1.8	< 0.1
132	Needle-and-thread	< 0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
133	Meadow rue species	< 0.1	< 0.1	9.7	< 0.1	1.9	2.2	< 0.1
134	Gumweed	< 0.1	< 0.1	7.3	< 0.1	0.3	0.4	< 0.1
135	Bladder campion	< 0.1	< 0.1	5.0	< 0.1	0.4	0.6	< 0.1
136	Poverty oat grass	< 0.1	< 0.1	20.0	< 0.1	3.0	3.0	< 0.1
137	Toad rush	< 0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
138	Redtop	< 0.1	< 0.1	5.0	< 0.1	2.0	2.0	< 0.1
139	Slough grass	< 0.1	< 0.1	5.0	< 0.1	1.4	1.4	< 0.1
140	Spreading dogbane	< 0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
141	Field dodder	< 0.1	< 0.1	15.0	< 0.1	0.8	0.8	< 0.1
142	Hoary cress species	< 0.1	< 0.1	15.0	< 0.1	0.6	0.6	< 0.1
143	Conical catchfly	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
144	Wild parsnip	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
145	Five-hooked bassia	< 0.1	< 0.1	5.0	< 0.1	2.6	2.6	< 0.1
146	Plains coreopsis	< 0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
147	Sand-rocket	< 0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
148	Western sea-blight	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
149	Field violet	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
150	Scouring-rush	< 0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
151	Fescue species	< 0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
152	Lance-leaved psoralea	< 0.1	< 0.1	5.0	< 0.1	1.0	1.0	< 0.1
153	Corn	< 0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
154	Spiny ironplant	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
155	Pussytoes species	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
156	Ash species	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
157	Wood-sorrel species	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
158	Wood whitlow-grass	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
159	Timothy	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
160	Yellow rocket	< 0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1

**Field Survey Summary Tables – 1970s Spring Wheat**

Table 177. 1970s Spring wheat in the Boreal Transition Ecoregion (343 fields, SK and MB only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	88.7	45.1	50.8	16.0	18.1	257.8	57.6
2	Wild buckwheat	79.0	32.3	40.9	4.1	5.2	48.4	30.4
3	Green foxtail	29.8	13.4	45.1	8.9	29.8	315.2	24.7
4	Lamb's-quarters	49.2	16.9	34.3	3.2	6.6	105.6	18.8
5	Pale smartweed	37.5	13.8	36.7	2.8	7.6	92.6	15.4
6	Stinkweed	46.9	11.0	23.4	1.8	3.9	40.2	13.6
7	Canada thistle	47.2	11.0	23.3	1.4	2.9	29.8	12.9
8	Perennial sow-thistle	45.6	10.5	23.1	1.4	3.1	34.2	12.5
9	Field horsetail	29.9	7.7	25.9	2.5	8.3	85.4	11.3
10	Bluebur	35.9	9.1	25.4	1.2	3.4	36.6	10.4
11	Hemp-nettle	28.8	9.1	31.5	1.7	5.8	52.4	10.3
12	Shepherd's-purse	27.7	6.5	23.7	1.6	5.8	88.4	9.0
13	Chickweed	13.8	4.0	29.2	3.0	21.7	370.6	8.6
14	Night-flowering catchfly	20.7	6.4	30.9	1.6	7.6	79.8	8.0
15	Wild mustard	28.2	5.8	20.4	0.6	2.0	19.0	6.9
16	Dandelion	19.2	3.3	17.4	0.3	1.5	15.2	4.3
17	Narrow-leaved hawk's-beard	13.3	3.5	26.2	0.6	4.4	51.2	4.1
18	Cleavers	11.7	3.5	29.9	0.6	5.0	36.6	3.9
19	Canola/rapeseed	14.9	3.2	21.8	0.4	2.4	25.2	3.8
20	Redroot pigweed	13.7	2.4	17.9	0.3	1.9	13.8	3.2
21	Flixweed	8.4	2.0	23.4	0.4	4.6	43.0	2.5
22	Barley	12.0	1.3	10.6	0.1	1.0	19.0	2.2
23	Cow cockle	9.3	1.7	17.9	0.2	2.2	15.8	2.2
24	Common groundsel	8.2	1.9	23.0	0.2	2.8	27.0	2.2
25	Vetch species	10.5	1.4	13.5	0.1	1.1	6.4	2.1
26	Clover species	6.2	1.4	22.0	0.3	4.2	49.8	1.8
27	Corn spurry	2.4	1.4	58.1	0.5	21.8	48.6	1.8
28	Flax	2.9	1.1	37.3	0.5	17.0	119.6	1.7
29	Black medick	2.2	1.0	43.8	0.4	17.9	55.8	1.4
30	Alfalfa	3.3	1.1	32.3	0.2	4.6	15.0	1.1
31	Quack grass	4.0	0.5	12.2	0.1	1.9	14.4	0.8
32	Ball mustard	3.3	0.5	15.4	< 0.1	1.0	3.8	0.7
33	Biennial wormwood	3.1	0.5	14.5	< 0.1	1.4	6.2	0.6
34	Russian thistle	3.2	0.3	11.1	< 0.1	1.4	7.8	0.6
35	Pineappleweed	3.0	0.4	12.2	< 0.1	1.6	4.2	0.6
36	Broad-leaved plantain	3.0	0.4	12.9	< 0.1	1.2	6.4	0.6
37	Wheat	0.8	0.2	33.0	0.2	29.1	51.4	0.6
38	Common pepper-grass	2.7	0.4	13.7	< 0.1	0.8	1.6	0.5
39	Barnyard grass	1.7	0.3	19.8	0.1	5.2	12.0	0.5
40	Downy brome	0.8	0.1	10.0	0.2	25.2	49.6	0.5
41	Stork's-bill	2.1	0.3	13.4	< 0.1	1.2	4.2	0.4
42	Prostrate knotweed	2.1	0.3	11.9	< 0.1	1.2	6.2	0.4
43	Rose species	2.1	0.2	9.0	< 0.1	0.6	1.4	0.4
44	Round-leaved mallow	1.7	0.2	11.5	< 0.1	2.1	9.6	0.4
45	Wormseed mustard	1.0	0.3	30.5	< 0.1	3.9	5.2	0.3
46	Bicknell's geranium	1.5	0.2	11.8	< 0.1	0.7	1.0	0.3
47	American dragonhead	0.8	0.2	24.8	< 0.1	2.4	4.0	0.2
48	Field mint	0.8	0.1	16.8	< 0.1	2.0	3.4	0.2
49	Canada fleabane	1.0	0.1	9.5	< 0.1	0.6	1.6	0.2
50	Atriplex species	0.9	0.1	14.3	< 0.1	0.9	1.4	0.2
51	Spear-leaved goosefoot	1.1	0.1	5.0	< 0.1	0.7	2.0	0.2
52	Pearly everlasting	0.4	0.1	15.0	< 0.1	8.6	8.6	0.1
53	Yellow cress species	0.6	0.1	16.8	< 0.1	1.6	3.2	0.1
54	Field bindweed	0.5	0.1	19.0	< 0.1	1.1	2.0	0.1

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Table 177. 1970s Spring wheat in the Boreal Transition Ecoregion (343 fields, SK and MB only) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Foxtail barley	0.7	< 0.1	5.0	< 0.1	0.3	0.4	0.1
56	Henbit	0.6	< 0.1	7.2	< 0.1	0.4	0.6	0.1
57	Dock species	0.4	0.1	15.0	< 0.1	1.0	1.0	0.1
58	Poplar species	0.5	0.1	10.2	< 0.1	0.5	0.8	0.1
59	White cockle	0.2	0.1	40.0	< 0.1	3.6	3.6	0.1
60	Rough cinquefoil	0.5	< 0.1	9.5	< 0.1	0.4	0.8	0.1
61	Needle-and-thread	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
62	Willowherb species	0.3	< 0.1	5.0	< 0.1	7.0	7.0	0.1
63	Dog mustard	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
64	Maple-leaved goosefoot	0.3	0.1	25.0	< 0.1	1.0	1.0	0.1
65	Common burdock	0.3	0.1	25.0	< 0.1	2.2	2.2	0.1
66	Prostrate pigweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Oats	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
68	Pasture sage	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Water smartweed	0.4	< 0.1	5.0	< 0.1	1.2	1.2	0.1
70	Witch grass	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
71	Redtop	0.3	< 0.1	5.0	< 0.1	2.0	2.0	0.1
72	Goldenrod species	0.3	< 0.1	15.0	< 0.1	0.8	0.8	0.1
73	Spreading dogbane	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
74	Wild parsnip	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
75	Kochia	0.3	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
76	Western sea-blight	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
77	Fescue species	0.3	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
78	Northern bedstraw	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
79	Yellow sweet-clover	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
80	Tartary buckwheat	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
81	Wild tomato	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
82	Purslane speedwell	0.2	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
83	Smooth brome	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
84	Oak-leaved goosefoot	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
85	Western snowberry	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 178. 1970s Spring wheat in the Aspen Parkland Ecoregion (1101 fields, SK and MB only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	78.7	55.7	70.8	57.0	72.4	1404.4	91.5
2	Wild oats	82.9	37.4	45.1	14.1	17.0	412.0	40.1
3	Wild buckwheat	90.3	47.8	52.9	6.9	7.7	154.8	37.8
4	Lamb's-quarters	46.7	13.2	28.2	1.9	4.1	94.0	13.3
5	Redroot pigweed	47.6	11.3	23.8	1.6	3.3	187.0	12.3
6	Stinkweed	40.3	9.1	22.6	1.8	4.4	217.4	10.7
7	Russian thistle	34.9	8.8	25.3	1.7	4.8	152.8	9.8
8	Canada thistle	41.9	8.1	19.4	1.0	2.3	22.4	9.7
9	Night-flowering catchfly	29.1	9.6	33.0	1.6	5.6	160.0	9.3
10	Perennial sow-thistle	37.9	6.8	17.9	0.7	1.9	73.2	8.4
11	Wild mustard	29.6	6.9	23.2	0.9	3.2	70.2	7.6
12	Bluebur	25.0	5.7	22.7	0.6	2.5	48.8	6.1
13	Cow cockle	18.2	5.2	28.5	0.8	4.3	167.2	5.2

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**Field Survey Summary Tables – 1970s Spring Wheat**

Table 178. 1970s Spring wheat in the Aspen Parkland Ecoregion (1101 fields, SK and MB only) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
14	Pale smartweed	15.1	2.9	19.2	0.4	2.5	41.2	3.5
15	Shepherd's-purse	11.3	2.6	23.2	0.4	3.6	38.4	2.9
16	Flixweed	13.0	2.2	17.0	0.2	1.8	31.4	2.8
17	Rose species	11.0	1.1	9.7	0.1	0.9	10.6	2.0
18	Flax	3.8	1.7	46.2	0.6	17.1	118.8	1.9
19	Quack grass	7.4	1.1	14.9	0.4	4.9	79.2	1.8
20	Hemp-nettle	6.2	1.3	21.6	0.2	3.1	46.2	1.5
21	Barnyard grass	5.0	1.1	21.8	0.4	8.1	116.0	1.5
22	Canola/rapeseed	5.7	1.4	24.7	0.2	3.4	47.4	1.5
23	Prostrate knotweed	6.5	0.9	13.6	0.1	1.0	12.2	1.3
24	Narrow-leaved hawk's-beard	4.9	1.1	22.5	0.1	3.0	27.8	1.2
25	Dandelion	5.2	0.8	16.2	0.1	1.9	25.4	1.1
26	Barley	5.0	0.8	15.8	0.1	1.5	16.2	1.0
27	Biennial wormwood	5.2	0.7	13.0	0.1	1.5	13.6	1.0
28	Chickweed	2.3	0.6	27.1	0.4	15.6	205.4	0.9
29	Field horsetail	3.8	0.6	15.6	0.1	3.8	58.6	0.9
30	Clover species	2.5	0.6	22.9	0.3	11.2	214.2	0.8
31	Thyme-leaved spurge	3.1	0.7	24.1	0.1	3.9	66.4	0.8
32	Round-leaved mallow	3.3	0.5	15.4	0.1	1.7	7.0	0.7
33	Prostrate pigweed	3.4	0.5	13.9	0.1	1.6	11.4	0.7
34	Vetch species	2.7	0.3	11.9	< 0.1	1.0	7.6	0.5
35	Dog mustard	2.2	0.4	17.0	0.1	2.8	38.2	0.5
36	Alfalfa	1.2	0.5	38.6	0.2	12.9	66.0	0.5
37	Common pepper-grass	2.0	0.3	13.7	< 0.1	1.4	13.8	0.4
38	Kochia	1.7	0.3	15.6	< 0.1	1.4	6.6	0.4
39	Persian darnel	1.5	0.2	16.0	0.1	4.1	18.2	0.4
40	White cockle	1.1	0.3	30.7	0.1	5.4	27.2	0.3
41	Long-stalked stitchwort	0.1	0.1	100.0	0.3	236.4	236.4	0.3
42	Ball mustard	1.5	0.2	12.7	< 0.1	1.2	9.4	0.3
43	Scentless chamomile	1.3	0.2	14.8	< 0.1	1.1	4.4	0.3
44	Foxtail barley	1.3	0.1	10.4	< 0.1	1.2	9.0	0.2
45	Wormseed mustard	1.1	0.2	17.8	< 0.1	1.4	6.0	0.2
46	Black medick	1.0	0.2	19.7	< 0.1	1.9	8.4	0.2
47	Wild tomato	0.7	0.2	23.3	0.1	7.8	55.4	0.2
48	Cleavers	0.9	0.1	10.5	< 0.1	1.2	3.6	0.2
49	Western snowberry	0.6	0.2	27.3	< 0.1	2.6	5.8	0.2
50	Wheat	0.7	0.1	12.4	< 0.1	1.3	4.0	0.1
51	Field bindweed	0.5	0.2	27.5	< 0.1	1.6	2.8	0.1
52	Pineappleweed	0.8	0.1	9.6	< 0.1	1.0	5.6	0.1
53	Witch grass	0.5	0.1	15.2	< 0.1	3.3	13.6	0.1
54	Absinth	0.6	0.1	11.6	< 0.1	0.7	2.0	0.1
55	Poplar species	0.6	0.1	11.5	< 0.1	0.8	1.6	0.1
56	Tumble mustard	0.5	0.1	14.2	< 0.1	1.1	2.0	0.1
57	Corn spurry	0.5	0.1	11.7	< 0.1	2.2	7.6	0.1
58	Hare's-ear mustard	0.4	0.1	21.3	< 0.1	2.8	5.6	0.1
59	Tall buttercup	0.6	< 0.1	8.6	< 0.1	0.5	1.4	0.1
60	Northern bedstraw	0.3	0.1	39.1	< 0.1	4.0	8.2	0.1
61	Yellow sweet-clover	0.5	0.1	12.3	< 0.1	0.9	1.8	0.1
62	Broad-leaved plantain	0.5	0.1	12.8	< 0.1	0.8	2.6	0.1
63	Stork's-bill	0.5	< 0.1	10.6	< 0.1	0.8	1.8	0.1
64	Purslane	0.5	< 0.1	5.0	< 0.1	0.4	0.8	0.1
65	Tartary buckwheat	0.4	0.1	19.8	< 0.1	1.6	3.2	0.1
66	Sunflower species	0.4	0.1	14.9	< 0.1	0.9	2.6	0.1
67	Spear-leaved goosefoot	0.5	< 0.1	8.6	< 0.1	0.7	1.6	0.1

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Table 178. 1970s Spring wheat in the Aspen Parkland Ecoregion (1101 fields, SK and MB only) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
68	Common ragweed	0.3	0.1	33.3	< 0.1	4.3	8.8	0.1
69	Russian pigweed	0.4	< 0.1	9.8	< 0.1	1.7	5.0	0.1
70	Oats	0.2	0.1	39.6	< 0.1	8.2	14.0	0.1
71	Dock species	0.4	< 0.1	6.0	< 0.1	0.3	0.4	0.1
72	Downy brome	0.3	0.1	21.3	< 0.1	1.4	3.2	0.1
73	Field mint	0.3	< 0.1	12.0	< 0.1	2.7	6.6	0.1
74	Canada anemone	0.3	< 0.1	6.7	< 0.1	0.3	0.6	< 0.1
75	Pygmyflower	0.3	< 0.1	8.8	< 0.1	1.5	3.4	< 0.1
76	Bicknell's geranium	0.2	0.1	33.5	< 0.1	2.6	4.2	< 0.1
77	California allocarya	0.1	< 0.1	50.0	< 0.1	20.4	20.4	< 0.1
78	Oak-leaved goosefoot	0.3	< 0.1	8.2	< 0.1	0.5	1.2	< 0.1
79	Aster species	0.2	< 0.1	10.0	< 0.1	0.6	1.0	< 0.1
80	Skeletonweed	0.2	< 0.1	17.9	< 0.1	4.5	7.2	< 0.1
81	Cocklebur	0.2	< 0.1	15.3	< 0.1	0.8	1.2	< 0.1
82	Blue grass species	0.2	< 0.1	12.3	< 0.1	2.7	4.0	< 0.1
83	Yellow toadflax	0.3	< 0.1	5.0	< 0.1	0.4	0.8	< 0.1
84	Povertyweed	0.2	< 0.1	7.8	< 0.1	0.8	1.2	< 0.1
85	White mustard	0.2	< 0.1	10.0	< 0.1	1.4	2.0	< 0.1
86	Rye	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
87	Yellow cress species	0.2	< 0.1	10.6	< 0.1	1.9	3.2	< 0.1
88	Hoary puccoon	0.1	< 0.1	25.0	< 0.1	9.8	9.8	< 0.1
89	False ragweed	0.1	< 0.1	14.4	< 0.1	1.2	2.4	< 0.1
90	Showy milkweed	0.2	< 0.1	5.0	< 0.1	0.7	1.2	< 0.1
91	American dragonhead	0.1	< 0.1	10.4	< 0.1	1.3	2.2	< 0.1
92	Pasture sage	0.2	< 0.1	5.0	< 0.1	0.4	0.6	< 0.1
93	Small bugloss	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
94	Tumble pigweed	0.2	< 0.1	5.0	< 0.1	0.3	0.4	< 0.1
95	Western wheat grass	0.1	< 0.1	15.0	< 0.1	4.2	4.2	< 0.1
96	Vervain species	0.1	< 0.1	20.0	< 0.1	1.8	1.8	< 0.1
97	Bladder campion	0.1	< 0.1	5.0	< 0.1	0.4	0.6	< 0.1
98	Water smartweed	0.1	< 0.1	25.0	< 0.1	2.4	2.4	< 0.1
99	Large crab grass	0.1	< 0.1	15.0	< 0.1	6.0	6.0	< 0.1
100	Poverty oat grass	0.1	< 0.1	20.0	< 0.1	3.0	3.0	< 0.1
101	Field chickweed	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
102	Wild licorice	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
103	Atriplex species	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
104	Milk-vetch species	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
105	Meadow rue species	0.1	< 0.1	5.0	< 0.1	1.8	1.8	< 0.1
106	Canada fleabane	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
107	Common burdock	0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
108	Hoary cress species	0.1	< 0.1	15.0	< 0.1	0.6	0.6	< 0.1
109	Common groundsel	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
110	Sand-rocket	0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
111	Field violet	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
112	Leafy spurge	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
113	Wood-sorrel species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
114	Crested wheat grass	0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
115	Prickly lettuce	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
116	Manitoba maple	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 1970s Spring Wheat**

Table 179. 1970s Spring wheat in the Moist Mixed Grassland Ecoregion (993 fields, SK only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	60.0	35.6	59.2	32.0	53.4	560.2	69.8
2	Wild oats	76.5	30.1	39.3	11.9	15.6	564.2	41.2
3	Wild buckwheat	85.9	41.3	48.0	5.6	6.5	138.6	38.6
4	Stinkweed	59.0	17.3	29.3	4.1	7.0	178.8	21.9
5	Redroot pigweed	56.6	17.1	30.2	3.1	5.5	131.6	20.1
6	Russian thistle	46.9	14.9	31.7	3.5	7.4	147.0	18.3
7	Cow cockle	35.9	10.7	29.8	2.6	7.1	283.4	13.5
8	Lamb's-quarters	39.2	9.8	25.0	1.3	3.4	68.2	11.8
9	Flixweed	26.4	4.6	17.3	0.5	1.7	39.6	6.4
10	Wild mustard	20.2	4.2	21.0	0.6	2.9	98.6	5.6
11	Rose species	18.4	2.3	12.6	0.3	1.5	19.0	4.0
12	Bluebur	15.7	3.0	19.2	0.3	1.8	12.8	4.0
13	Canada thistle	14.4	2.6	17.8	0.4	2.6	24.8	3.7
14	Thyme-leaved spurge	9.0	3.1	34.1	0.6	6.1	55.8	3.4
15	Kochia	12.5	2.4	19.1	0.3	2.8	66.6	3.3
16	Persian darnel	8.6	1.9	21.6	0.8	9.6	184.0	3.2
17	Perennial sow-thistle	13.7	2.0	14.9	0.2	1.3	13.4	3.1
18	Barnyard grass	7.3	1.5	20.5	0.4	6.0	75.4	2.3
19	Prostrate pigweed	8.5	1.5	17.5	0.2	2.8	68.6	2.2
20	Pale smartweed	7.3	0.8	11.3	0.1	1.4	19.2	1.6
21	Prostrate knotweed	6.3	1.1	17.5	0.1	1.4	11.4	1.5
22	Biennial wormwood	6.5	1.0	15.1	0.1	1.2	7.2	1.5
23	Dandelion	5.9	1.0	17.0	0.1	1.2	9.4	1.4
24	Dock species	5.8	0.9	15.6	0.1	1.7	23.2	1.4
25	Night-flowering catchfly	4.0	1.1	27.2	0.2	4.4	35.0	1.3
26	Common pepper-grass	5.5	0.9	15.6	0.1	1.4	11.0	1.3
27	Barley	4.3	0.6	14.1	0.1	3.3	90.2	1.1
28	Narrow-leaved hawk's-beard	3.4	0.7	20.7	0.1	2.9	22.6	0.9
29	Canola/rapeseed	2.9	0.8	26.9	0.1	3.4	19.2	0.9
30	Foxtail barley	4.2	0.5	11.9	< 0.1	1.0	12.4	0.9
31	Clover species	2.5	0.6	25.1	0.1	6.0	53.0	0.8
32	Flax	1.9	0.5	28.2	0.2	10.0	87.6	0.8
33	Vetch species	3.2	0.4	11.1	< 0.1	0.8	6.8	0.7
34	Round-leaved mallow	3.0	0.4	13.4	< 0.1	1.1	5.6	0.6
35	Russian pigweed	2.0	0.4	21.2	0.1	3.1	19.8	0.6
36	Quack grass	2.3	0.3	13.5	0.1	2.4	16.0	0.5
37	Wheat	2.2	0.3	15.6	< 0.1	1.5	8.4	0.5
38	Spear-leaved goosefoot	1.7	0.4	23.0	< 0.1	2.8	15.0	0.5
39	Tumble pigweed	2.1	0.3	14.5	< 0.1	0.8	4.0	0.5
40	Shepherd's-purse	1.7	0.3	19.1	< 0.1	2.9	16.0	0.5
41	Dog mustard	1.0	0.2	20.4	< 0.1	3.3	17.8	0.3
42	Povertyweed	0.8	0.2	22.2	< 0.1	4.1	9.6	0.2
43	Alfalfa	1.0	0.1	8.8	< 0.1	0.8	4.0	0.2
44	Scentless chamomile	0.8	0.1	15.9	< 0.1	1.0	3.2	0.2
45	Sunflower species	0.9	0.1	11.3	< 0.1	0.9	5.2	0.2
46	Field bindweed	0.4	0.2	39.1	< 0.1	5.5	12.6	0.2
47	Field horsetail	0.7	0.1	13.3	< 0.1	2.9	8.4	0.2
48	Hemp-nettle	0.6	0.1	12.9	< 0.1	3.2	12.0	0.1
49	Field mint	0.6	< 0.1	6.7	< 0.1	1.3	5.8	0.1
50	Wormseed mustard	0.4	0.1	22.6	< 0.1	1.3	2.0	0.1
51	Tumble mustard	0.3	0.1	28.3	< 0.1	3.2	7.0	0.1
52	Wild tomato	0.5	< 0.1	7.1	< 0.1	0.4	1.0	0.1
53	Nodding thistle	0.5	< 0.1	9.2	< 0.1	0.5	1.0	0.1
54	Western snowberry	0.4	< 0.1	12.3	< 0.1	2.1	4.2	0.1

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Table 179. 1970s Spring wheat in the Moist Mixed Grassland Ecoregion (993 fields, SK only) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Hare's-ear mustard	0.3	0.1	25.5	< 0.1	3.4	9.0	0.1
56	Skeletonweed	0.4	< 0.1	11.1	< 0.1	0.5	1.2	0.1
57	Hedge mustard	0.1	0.1	75.0	< 0.1	7.4	7.4	0.1
58	Broad-leaved plantain	0.4	< 0.1	7.4	< 0.1	0.5	1.2	0.1
59	Common ragweed	0.4	< 0.1	8.5	< 0.1	0.8	1.8	0.1
60	Oats	0.4	< 0.1	9.0	< 0.1	0.4	0.6	0.1
61	False ragweed	0.1	0.1	100.0	< 0.1	14.2	14.2	0.1
62	Canada fleabane	0.4	< 0.1	8.8	< 0.1	0.4	0.6	0.1
63	Russian wild rye	0.2	0.1	27.3	< 0.1	1.7	2.4	0.1
64	Atriplex species	0.2	0.1	25.0	< 0.1	2.5	4.4	0.1
65	Downy brome	0.1	< 0.1	45.0	< 0.1	12.0	12.0	0.1
66	Prickly lettuce	0.3	< 0.1	7.1	< 0.1	0.3	0.4	0.1
67	Stork's-bill	0.2	< 0.1	17.3	< 0.1	1.4	2.4	< 0.1
68	Rye	0.2	< 0.1	5.0	< 0.1	1.2	2.4	< 0.1
69	Oak-leaved goosefoot	0.2	< 0.1	9.9	< 0.1	0.8	1.0	< 0.1
70	Poison suckleya	0.1	< 0.1	20.0	< 0.1	10.8	10.8	< 0.1
71	Willowherb species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
72	Fringed loosestrife	0.2	< 0.1	5.0	< 0.1	0.4	0.6	< 0.1
73	Purslane	0.2	< 0.1	7.5	< 0.1	2.2	4.2	< 0.1
74	Chickweed	0.2	< 0.1	7.4	< 0.1	0.4	0.6	< 0.1
75	Goldenrod species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
76	Corn spurry	0.2	< 0.1	5.0	< 0.1	0.3	0.4	< 0.1
77	Leafy spurge	0.1	< 0.1	25.0	< 0.1	1.4	1.4	< 0.1
78	Water smartweed	0.1	< 0.1	10.0	< 0.1	1.2	1.2	< 0.1
79	Crested wheat grass	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
80	Toad rush	0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
81	Field chickweed	0.1	< 0.1	20.0	< 0.1	1.8	1.8	< 0.1
82	White mustard	0.1	< 0.1	15.0	< 0.1	0.8	0.8	< 0.1
83	Goat's-beard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
84	Absinth	0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
85	Slough grass	0.1	< 0.1	5.0	< 0.1	1.4	1.4	< 0.1
86	Smooth brome	0.1	< 0.1	15.0	< 0.1	1.0	1.0	< 0.1
87	White cockle	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
88	Witch grass	0.1	< 0.1	15.0	< 0.1	1.0	1.0	< 0.1
89	Tartary buckwheat	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
90	Conical catchfly	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
91	Pasture sage	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
92	Manitoba maple	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
93	Rough cinquefoil	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
94	Cleavers	0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
95	Blue grass species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 1970s Spring Wheat**

Table 180. 1970s Spring wheat in the Mixed Grassland Ecoregion (1045 fields, SK only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	79.9	34.2	42.8	6.0	7.5	109.6	46.0
2	Green foxtail	30.9	14.2	45.9	11.0	35.6	567.0	37.7
3	Russian thistle	61.6	22.2	36.0	5.4	8.7	195.8	34.7
4	Redroot pigweed	68.3	22.0	32.2	4.0	5.8	136.8	32.6
5	Stinkweed	61.5	16.1	26.1	4.0	6.6	189.8	28.2
6	Wild oats	49.8	14.0	28.2	5.3	10.7	302.0	28.1
7	Cow cockle	55.0	17.1	31.1	3.9	7.0	376.0	27.4
8	Lamb's-quarters	37.7	7.3	19.3	0.8	2.1	29.4	12.1
9	Flixweed	30.1	5.7	18.9	0.7	2.3	50.4	9.7
10	Kochia	20.7	5.5	26.4	0.7	3.5	35.8	8.1
11	Wild mustard	17.1	3.6	20.9	0.6	3.3	95.0	6.1
12	Persian darnel	5.7	1.5	26.2	0.6	10.2	242.2	3.1
13	Rose species	9.8	1.1	11.3	0.2	2.0	20.8	2.7
14	Prostrate pigweed	5.8	1.1	18.1	0.1	2.0	17.2	1.8
15	Prostrate knotweed	5.1	0.9	18.1	0.1	2.5	64.6	1.6
16	Bluebur	6.4	0.8	12.2	0.1	1.0	10.0	1.6
17	Perennial sow-thistle	5.4	0.6	11.0	0.1	1.0	8.0	1.3
18	Thyme-leaved spurge	4.0	0.8	20.2	0.1	2.6	18.8	1.3
19	Canada thistle	4.5	0.5	11.5	0.1	1.9	15.8	1.2
20	Barnyard grass	2.7	0.4	14.0	0.1	5.3	40.0	1.0
21	Wheat	3.4	0.5	16.2	< 0.1	1.4	7.2	1.0
22	Pale smartweed	3.1	0.3	9.5	0.1	2.4	16.8	0.9
23	Skeletonweed	1.9	0.4	21.2	0.1	5.0	25.2	0.8
24	Biennial wormwood	3.1	0.3	10.5	< 0.1	1.0	6.4	0.8
25	Vetch species	2.7	0.4	13.3	< 0.1	1.1	6.4	0.7
26	Common pepper-grass	2.9	0.3	10.4	< 0.1	0.8	3.8	0.7
27	Purslane	2.4	0.3	11.1	0.1	2.2	31.6	0.7
28	Foxtail barley	2.7	0.2	8.1	< 0.1	1.1	17.6	0.6
29	Russian pigweed	1.8	0.3	15.8	< 0.1	2.2	29.6	0.5
30	Sunflower species	0.9	0.2	17.3	0.1	12.2	146.4	0.5
31	Clover species	1.3	0.2	13.6	0.1	4.0	51.0	0.4
32	Round-leaved mallow	1.7	0.2	12.2	< 0.1	1.2	4.8	0.4
33	Dandelion	1.5	0.2	12.7	< 0.1	1.3	4.4	0.4
34	Wild tomato	1.6	0.2	10.5	< 0.1	0.8	4.0	0.4
35	Tumble mustard	1.3	0.2	12.2	< 0.1	2.1	18.0	0.4
36	Barley	1.5	0.2	10.2	< 0.1	1.2	4.2	0.4
37	Tumble pigweed	1.2	0.2	13.2	< 0.1	1.8	6.0	0.3
38	Spear-leaved goosefoot	1.2	0.1	5.4	< 0.1	0.4	1.6	0.2
39	California allocarya	0.5	0.1	26.0	< 0.1	8.3	32.4	0.2
40	Dock species	0.9	0.1	10.5	< 0.1	1.1	2.8	0.2
41	Flax	0.8	0.1	14.8	< 0.1	1.3	6.0	0.2
42	Dog mustard	0.7	0.1	13.2	< 0.1	1.1	4.6	0.2
43	Hare's-ear mustard	0.6	0.1	15.7	< 0.1	1.4	7.8	0.2
44	Shepherd's-purse	0.8	0.1	10.7	< 0.1	0.6	2.2	0.2
45	Quack grass	0.6	0.1	13.4	< 0.1	2.1	8.2	0.2
46	Poison suckleya	0.1	0.1	85.0	< 0.1	39.6	39.6	0.2
47	Canola/rapeseed	0.4	0.1	21.2	< 0.1	1.8	3.4	0.1
48	Prickly lettuce	0.6	< 0.1	6.5	< 0.1	0.4	1.0	0.1
49	Blue lettuce	0.4	< 0.1	12.6	< 0.1	2.5	6.8	0.1
50	Goat's-beard	0.5	< 0.1	6.9	< 0.1	0.3	0.6	0.1
51	Alfalfa	0.5	< 0.1	6.9	< 0.1	0.3	0.4	0.1
52	Field horsetail	0.4	< 0.1	8.3	< 0.1	0.5	0.8	0.1
53	Common yarrow	0.4	< 0.1	6.2	< 0.1	0.3	0.4	0.1
54	Pasture sage	0.3	< 0.1	13.3	< 0.1	0.5	1.2	0.1

(Table continued on next page)

Table 180. 1970s Spring wheat in the Mixed Grassland Ecoregion (1045 fields, SK only) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Rye	0.2	< 0.1	25.0	< 0.1	3.1	4.0	0.1
56	Povertyweed	0.3	< 0.1	11.8	< 0.1	1.3	2.2	0.1
57	Scarlet mallow	0.3	< 0.1	9.9	< 0.1	0.8	1.6	0.1
58	Purslane speedwell	0.3	< 0.1	10.1	< 0.1	1.0	2.0	0.1
59	Night-flowering catchfly	0.1	0.1	60.0	< 0.1	8.4	8.4	0.1
60	Chickweed	0.2	< 0.1	12.4	< 0.1	1.0	1.8	< 0.1
61	Milk-vetch species	0.2	< 0.1	12.5	< 0.1	1.0	1.6	< 0.1
62	Canada fleabane	0.2	< 0.1	12.5	< 0.1	0.8	1.0	< 0.1
63	Smooth brome	0.2	< 0.1	12.7	< 0.1	1.1	1.2	< 0.1
64	Absinth	0.1	< 0.1	35.0	< 0.1	13.4	13.4	< 0.1
65	Tartary buckwheat	0.2	< 0.1	5.0	< 0.1	0.3	0.4	< 0.1
66	Field bindweed	0.2	< 0.1	5.0	< 0.1	0.3	0.4	< 0.1
67	Oats	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
68	Western snowberry	0.1	< 0.1	20.0	< 0.1	4.0	4.0	< 0.1
69	Gumweed	0.2	< 0.1	7.3	< 0.1	0.3	0.4	< 0.1
70	Russian wild rye	0.1	< 0.1	25.0	< 0.1	3.0	3.0	< 0.1
71	Downy brome	0.1	< 0.1	10.0	< 0.1	5.0	5.0	< 0.1
72	Hemp-nettle	0.2	< 0.1	5.0	< 0.1	0.3	0.4	< 0.1
73	Wild licorice	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
74	Yellow cress species	0.1	< 0.1	15.0	< 0.1	2.8	2.8	< 0.1
75	Five-hooked bassia	0.1	< 0.1	5.0	< 0.1	2.6	2.6	< 0.1
76	Pygmyflower	0.1	< 0.1	15.0	< 0.1	0.8	0.8	< 0.1
77	Plains coreopsis	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
78	Cleavers	0.1	< 0.1	5.0	< 0.1	1.0	1.0	< 0.1
79	Water smartweed	0.1	< 0.1	5.0	< 0.1	2.2	2.2	< 0.1
80	Cocklebur	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
81	Lance-leaved psoralea	0.1	< 0.1	5.0	< 0.1	1.0	1.0	< 0.1
82	Fringed loosestrife	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
83	Goldenrod species	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
84	Broad-leaved plantain	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
85	Spiny ironplant	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
86	Pussytoes species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
87	Blue grass species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
88	Ash species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
89	Corn spurry	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
90	Wood whitlow-grass	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 1970s Spring Wheat**

Table 181. 1970s Spring wheat in the Lake Manitoba Plain Ecoregion (219 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	88.8	58.2	65.5	52.2	58.8	599.0	91.4
2	Wild oats	73.3	30.8	42.1	14.1	19.2	480.2	39.0
3	Wild buckwheat	75.8	32.1	42.4	6.1	8.1	114.8	32.1
4	Pale smartweed	59.0	26.4	44.7	10.0	17.0	201.8	30.8
5	Canada thistle	43.0	10.5	24.3	1.5	3.6	63.0	12.8
6	Redroot pigweed	38.3	8.7	22.8	1.4	3.7	64.4	11.2
7	Wild mustard	40.9	7.8	19.2	0.9	2.2	26.4	10.7
8	Perennial sow-thistle	30.6	6.9	22.4	1.2	3.8	56.8	8.9
9	Barnyard grass	14.4	4.8	33.2	4.5	31.5	257.6	8.8
10	Lamb's-quarters	23.8	5.6	23.5	1.3	5.4	107.8	7.4
11	Flax	9.3	2.9	31.4	2.5	27.3	297.2	5.2
12	Thyme-leaved spurge	17.4	4.1	23.7	0.4	2.2	15.4	4.9
13	Quack grass	9.1	1.1	12.2	0.3	3.5	26.4	2.2
14	Field horsetail	5.8	1.3	22.7	0.4	6.5	23.6	1.9
15	Dandelion	7.5	1.2	16.2	0.1	1.6	13.2	1.8
16	Round-leaved mallow	6.3	1.2	18.4	0.1	2.3	10.4	1.6
17	Stinkweed	6.0	0.7	11.8	0.1	1.8	8.4	1.3
18	Russian thistle	3.9	1.2	30.7	0.1	3.7	13.6	1.3
19	Hemp-nettle	3.7	1.2	32.9	0.2	4.7	23.0	1.3
20	Yellow foxtail	2.2	1.0	47.3	0.5	22.2	68.8	1.3
21	Cow cockle	3.4	1.3	38.5	0.2	4.5	10.6	1.3
22	Clover species	4.7	0.9	18.6	0.1	2.1	10.2	1.2
23	Tartary buckwheat	3.3	1.1	31.9	0.2	6.7	34.6	1.2
24	Field bindweed	3.5	1.2	33.3	0.1	3.6	13.8	1.2
25	Prostrate knotweed	4.3	0.9	19.9	0.1	3.1	16.4	1.2
26	Night-flowering catchfly	3.8	1.0	27.3	0.1	3.0	8.6	1.2
27	Rose species	4.3	0.6	14.0	0.1	1.9	7.2	1.0
28	Oats	1.7	0.7	38.7	0.4	21.4	81.2	0.9
29	Barley	3.7	0.5	14.2	< 0.1	1.3	3.2	0.9
30	Ball mustard	0.9	0.9	95.0	0.3	32.0	32.0	0.8
31	Yellow sweet-clover	2.9	0.4	14.0	0.1	2.8	6.4	0.7
32	Chickweed	2.2	0.3	12.6	0.2	10.4	51.8	0.7
33	Showy milkweed	3.0	0.3	10.0	0.1	2.3	8.4	0.7
34	Bluebur	3.0	0.3	8.5	< 0.1	0.6	1.6	0.6
35	Prostrate pigweed	2.5	0.3	10.9	< 0.1	1.3	6.4	0.5
36	Aster species	2.4	0.3	11.1	< 0.1	1.4	5.6	0.5
37	Purslane	2.2	0.3	13.8	< 0.1	1.2	3.6	0.5
38	Canola/rapeseed	1.9	0.4	18.9	< 0.1	2.0	5.6	0.5
39	Water smartweed	2.1	0.2	10.0	0.1	2.8	10.4	0.5
40	Black medick	1.2	0.4	31.7	0.1	6.3	18.2	0.4
41	Vetch species	1.6	0.4	24.4	< 0.1	1.5	4.2	0.4
42	Leafy spurge	1.3	0.4	31.7	0.1	4.1	9.6	0.4
43	Kochia	1.7	0.3	16.0	< 0.1	1.2	3.0	0.4
44	Dog mustard	1.2	0.3	25.0	0.1	5.8	8.8	0.4
45	Wild rye/wheat grass species	0.5	0.4	95.0	0.1	28.6	28.6	0.4
46	Sunflower species	1.4	0.3	19.5	0.1	5.1	15.0	0.4
47	Spear-leaved goosefoot	1.6	0.2	10.4	< 0.1	2.0	6.8	0.4
48	White cockle	1.1	0.3	28.4	< 0.1	2.3	6.0	0.3
49	American dragonhead	1.2	0.3	23.4	< 0.1	1.2	1.8	0.3
50	Broad-leaved plantain	1.6	0.2	9.7	< 0.1	0.4	0.6	0.3
51	Absinth	1.3	0.2	18.4	< 0.1	1.1	1.6	0.3
52	Smooth brome	1.3	0.1	10.1	< 0.1	3.6	8.4	0.3
53	Alfalfa	1.3	0.2	16.8	< 0.1	0.8	1.2	0.3
54	False flax species	1.1	0.2	17.5	< 0.1	0.8	1.2	0.3

(Table continued on next page)



Table 181. 1970s Spring wheat in the Lake Manitoba Plain Ecoregion (219 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Cocklebur	1.3	0.1	10.0	< 0.1	1.3	3.0	0.3
56	Large crab grass	0.9	0.1	10.0	< 0.1	1.0	1.0	0.2
57	Cleavers	0.9	0.1	6.9	< 0.1	0.7	2.6	0.2
58	Biennial wormwood	0.9	0.1	10.0	< 0.1	0.5	0.8	0.2
59	Dock species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
60	Witch grass	0.5	0.1	15.0	< 0.1	1.3	5.0	0.1
61	Stork's-bill	0.6	0.1	10.0	< 0.1	0.4	0.4	0.1
62	False ragweed	0.5	0.1	20.0	< 0.1	1.0	1.0	0.1
63	Common groundsel	0.6	< 0.1	5.0	< 0.1	1.0	1.0	0.1
64	Field dodder	0.4	0.1	15.0	< 0.1	0.8	0.8	0.1
65	Tumble pigweed	0.5	< 0.1	10.0	< 0.1	0.4	0.4	0.1
66	Common ragweed	0.4	0.1	15.0	< 0.1	0.6	0.6	0.1
67	Scouring-rush	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
68	Russian pigweed	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Flixweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
70	Common pepper-grass	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
71	Corn	0.4	< 0.1	5.0	< 0.1	0.8	0.8	0.1
72	Pygmyflower	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
73	Manitoba maple	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
74	Bicknell's geranium	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
75	Shepherd's-purse	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 182. 1970s Spring wheat in the Interlake Plain Ecoregion (92 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	83.1	37.6	45.2	25.3	30.4	629.8	48.3
2	Green foxtail	65.3	36.2	55.5	27.7	42.5	386.6	48.0
3	Wild buckwheat	86.2	42.6	49.4	9.3	10.8	155.4	35.0
4	Pale smartweed	58.4	25.5	43.7	7.9	13.5	187.2	24.0
5	Canada thistle	66.9	17.4	26.0	2.5	3.7	39.2	16.9
6	Barnyard grass	22.3	6.6	29.6	8.5	38.3	340.4	13.4
7	Lamb's-quarters	43.6	12.9	29.6	3.2	7.3	93.8	13.1
8	Wild mustard	49.7	14.0	28.1	1.9	3.8	25.8	13.0
9	Perennial sow-thistle	51.9	11.4	21.9	1.5	3.0	46.2	12.0
10	Hemp-nettle	26.8	14.2	53.2	2.8	10.5	39.6	11.2
11	Redroot pigweed	41.9	8.2	19.5	1.0	2.5	18.0	9.1
12	Night-flowering catchfly	25.5	10.3	40.4	2.2	8.8	52.0	9.0
13	Field horsetail	14.5	5.2	35.6	1.7	11.7	63.6	5.3
14	Stinkweed	26.8	3.8	14.3	0.5	1.9	23.0	5.1
15	Quack grass	12.7	4.0	31.1	1.0	7.8	37.0	4.0
16	Broad-leaved plantain	8.7	2.0	23.6	1.6	17.9	60.0	3.3
17	Cleavers	7.7	3.0	39.0	0.7	9.6	30.4	2.7
18	Chickweed	7.0	1.8	25.2	1.0	13.6	96.6	2.4
19	Shepherd's-purse	7.5	1.7	22.3	0.4	4.8	49.8	1.9
20	Barley	5.2	2.2	42.0	0.4	7.4	33.4	1.8
21	Prostrate knotweed	7.6	1.4	18.2	0.1	1.5	4.2	1.5
22	Bluebur	7.9	1.0	13.1	0.1	0.9	3.4	1.4
23	Dog mustard	7.3	1.0	14.4	0.1	0.8	1.6	1.3

(Table continued on next page)

**Field Survey Summary Tables – 1970s Spring Wheat**

Table 182. 1970s Spring wheat in the Interlake Plain Ecoregion (92 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
24	Dandelion	6.5	0.9	13.1	0.1	0.8	3.8	1.2
25	Thyme-leaved spurge	4.5	1.3	28.0	0.1	2.2	6.6	1.1
26	Russian thistle	2.9	1.0	35.0	0.2	7.8	15.2	0.9
27	Canola/rapeseed	5.4	0.5	9.1	0.1	1.8	6.0	0.9
28	Flax	5.3	0.4	6.7	< 0.1	0.3	0.6	0.8
29	Black medick	3.6	0.7	19.1	0.1	2.5	21.4	0.8
30	Cow cockle	3.7	0.5	14.7	0.1	3.3	34.8	0.8
31	Tartary buckwheat	2.4	0.7	29.2	0.2	6.7	17.6	0.7
32	Alfalfa	4.5	0.3	7.0	< 0.1	0.5	1.0	0.7
33	Bicknell's geranium	4.5	0.2	5.0	< 0.1	0.2	0.4	0.6
34	Biennial wormwood	1.5	0.8	55.0	0.2	10.8	10.8	0.6
35	American dragonhead	3.3	0.4	13.1	< 0.1	0.5	0.8	0.6
36	Yellow sweet-clover	3.0	0.4	12.3	0.1	2.2	14.4	0.6
37	Spiny annual sow-thistle	1.5	0.7	45.0	0.1	6.8	6.8	0.5
38	Vetch species	3.3	0.3	7.8	< 0.1	0.5	1.2	0.5
39	Absinth	3.0	0.2	7.4	< 0.1	1.6	2.0	0.5
40	Round-leaved mallow	2.3	0.3	14.3	< 0.1	1.8	4.8	0.4
41	Prostrate pigweed	2.6	0.3	11.5	< 0.1	0.7	1.2	0.4
42	Manitoba maple	3.0	0.1	5.0	< 0.1	0.2	0.2	0.4
43	June grass	0.9	0.1	10.0	0.3	30.2	30.2	0.4
44	Smooth brome	1.8	0.1	7.5	< 0.1	0.5	0.8	0.3
45	Clover species	1.8	0.1	5.0	< 0.1	0.2	0.2	0.3
46	Water smartweed	0.9	0.2	25.0	< 0.1	2.0	2.0	0.2
47	Purslane	1.5	0.1	5.0	< 0.1	0.2	0.2	0.2
48	Flixweed	1.2	0.1	7.6	< 0.1	0.4	0.8	0.2
49	Field mint	0.9	< 0.1	5.0	< 0.1	0.8	0.8	0.1
50	Timothy	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.1
51	Maple-leaved goosefoot	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.1
52	Narrow-leaved hawk's-beard	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.1
53	Wormseed mustard	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.1
54	False ragweed	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.1
55	Common yarrow	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.1
56	Spear-leaved goosefoot	0.6	0.1	12.5	< 0.1	0.9	1.2	0.1
57	Rose species	0.6	0.1	10.0	< 0.1	1.4	2.6	0.1
58	Blue grass species	0.3	0.1	35.0	< 0.1	4.2	4.2	0.1
59	Meadow rue species	0.3	0.1	35.0	< 0.1	2.2	2.2	0.1
60	Northern bedstraw	0.3	< 0.1	10.0	< 0.1	0.6	0.6	0.1
61	Yellow rocket	0.3	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
62	Stork's-bill	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 183. 1970s Barley (955 fields, SK and MB only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	57.0	36.3	63.7	34.7	60.9	724.8	69.1
2	Wild oats	74.8	31.0	41.5	10.8	14.4	248.4	38.0
3	Wild buckwheat	83.7	35.9	42.9	5.3	6.3	288.8	34.2
4	Lamb's-quarters	41.8	13.1	31.2	2.7	6.4	460.8	15.0
5	Stinkweed	38.6	10.3	26.6	2.5	6.6	114.2	13.2
6	Canada thistle	38.5	8.5	22.0	1.1	2.9	38.4	10.5
7	Perennial sow-thistle	38.5	8.1	21.1	1.0	2.6	32.4	10.2
8	Redroot pigweed	35.0	7.8	22.3	1.3	3.8	77.6	10.0
9	Pale smartweed	26.1	7.5	28.8	2.0	7.6	151.8	9.5
10	Russian thistle	24.4	6.8	27.8	1.4	5.6	103.2	8.1
11	Wild mustard	27.3	5.9	21.4	1.0	3.7	121.0	7.7
12	Bluebur	22.1	6.1	27.7	0.9	3.9	113.6	6.8
13	Cow cockle	18.1	5.5	30.1	1.3	7.0	288.4	6.6
14	Night-flowering catchfly	17.6	5.5	31.0	0.9	5.1	82.8	6.0
15	Field horsetail	10.7	2.8	26.0	0.7	6.5	64.0	3.6
16	Hemp-nettle	9.7	2.7	27.7	0.5	5.0	55.6	3.2
17	Wheat	9.9	2.7	26.9	0.5	4.8	53.4	3.2
18	Shepherd's-purse	9.9	2.4	23.9	0.4	4.4	63.8	3.0
19	Flixweed	12.7	2.0	16.1	0.2	1.8	23.8	2.9
20	Narrow-leaved hawk's-beard	6.9	2.1	30.7	0.7	9.7	121.8	2.7
21	Quack grass	8.1	1.3	16.6	0.5	6.8	176.8	2.4
22	Canola/rapeseed	7.1	2.1	30.0	0.3	4.1	40.8	2.3
23	Flax	5.1	1.8	35.8	0.6	11.6	104.0	2.3
24	Common groundsel	3.5	1.2	35.4	0.8	22.8	235.6	2.1
25	Kochia	5.1	1.4	26.7	0.6	11.5	252.0	2.1
26	Dandelion	8.6	1.5	17.4	0.1	1.6	26.8	2.0
27	Chickweed	4.1	1.2	29.4	0.6	15.2	156.8	1.9
28	Clover species	4.6	1.5	31.7	0.5	10.2	116.4	1.9
29	Rose species	8.7	1.0	11.6	0.1	1.6	37.8	1.8
30	Prostrate knotweed	5.3	1.0	18.1	0.1	2.3	20.4	1.3
31	Thyme-leaved spurge	3.9	1.1	29.4	0.2	4.8	43.8	1.3
32	Barnyard grass	3.3	0.7	22.3	0.3	9.8	96.4	1.2
33	Biennial wormwood	4.8	0.6	12.4	0.1	1.4	11.0	1.0
34	Persian darnel	2.9	0.7	22.4	0.2	8.2	168.4	1.0
35	Corn spurry	1.4	0.7	50.5	0.3	20.3	91.4	0.9
36	Cleavers	2.1	0.6	30.4	0.1	5.3	20.6	0.7
37	Alfalfa	2.3	0.4	19.5	0.1	2.4	27.8	0.6
38	Vetch species	2.8	0.2	8.8	< 0.1	0.6	5.8	0.5
39	Black medick	1.3	0.3	21.6	0.1	11.3	63.4	0.5
40	Common pepper-grass	1.9	0.3	18.8	< 0.1	2.7	27.8	0.5
41	Round-leaved mallow	2.3	0.2	10.8	< 0.1	1.2	8.6	0.5
42	Oats	0.7	0.3	42.8	0.1	16.3	79.6	0.4
43	Prostrate pigweed	1.6	0.2	15.1	< 0.1	1.8	7.4	0.4
44	Canada fleabane	1.2	0.3	22.8	0.1	4.6	29.2	0.4
45	Pineappleweed	1.3	0.3	19.7	< 0.1	1.9	6.4	0.3
46	Dock species	1.5	0.2	11.4	< 0.1	1.4	12.6	0.3
47	Dog mustard	0.9	0.3	30.4	< 0.1	3.3	8.8	0.3
48	Tartary buckwheat	1.1	0.2	21.9	< 0.1	1.8	6.6	0.3
49	Scentless chamomile	0.7	0.3	35.6	< 0.1	5.8	22.4	0.3
50	Field bindweed	1.3	0.1	10.6	< 0.1	0.9	2.4	0.3
51	Broad-leaved plantain	1.4	0.1	7.9	< 0.1	0.4	1.2	0.2
52	Yellow foxtail	0.1	0.1	55.0	0.1	157.0	157.0	0.2
53	Yellow sweet-clover	0.5	0.2	30.0	0.1	11.2	58.2	0.2
54	Tumble pigweed	0.1	0.1	75.0	0.1	104.0	104.0	0.2

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**Field Survey Summary Tables – 1970s Barley**

Table 183. 1970s Barley (955 fields, SK and MB only) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Spear-leaved goosefoot	0.7	0.1	18.1	< 0.1	3.1	10.2	0.2
56	Ball mustard	0.9	0.1	10.6	< 0.1	0.7	1.6	0.2
57	Foxtail barley	0.7	0.1	11.3	< 0.1	3.9	19.8	0.2
58	White cockle	0.4	0.2	40.0	< 0.1	5.2	10.6	0.2
59	Northern bedstraw	0.4	0.2	36.2	< 0.1	4.1	8.0	0.2
60	Wormseed mustard	0.7	0.1	13.1	< 0.1	1.1	3.4	0.2
61	Purslane	0.5	0.1	28.3	< 0.1	2.1	3.4	0.1
62	Field mint	0.5	0.1	18.8	< 0.1	2.3	4.4	0.1
63	American dragonhead	0.6	0.1	15.3	< 0.1	0.8	2.4	0.1
64	Russian pigweed	0.5	0.1	11.6	< 0.1	4.0	14.8	0.1
65	Tall hedge mustard	0.1	0.1	95.0	< 0.1	59.6	59.6	0.1
66	Wild tomato	0.5	0.1	15.0	< 0.1	0.8	1.2	0.1
67	Common ragweed	0.5	0.1	15.6	< 0.1	1.4	2.4	0.1
68	Pussytoes species	0.2	0.1	27.5	< 0.1	19.8	39.2	0.1
69	Stork's-bill	0.4	0.1	16.5	< 0.1	1.2	5.2	0.1
70	Atriplex species	0.4	0.1	16.3	< 0.1	2.0	3.2	0.1
71	Povertyweed	0.5	< 0.1	8.7	< 0.1	0.5	0.8	0.1
72	Bicknell's geranium	0.5	< 0.1	7.0	< 0.1	0.3	0.8	0.1
73	Showy milkweed	0.3	0.1	23.4	< 0.1	3.6	4.6	0.1
74	False flax species	0.3	0.1	24.7	< 0.1	2.3	5.0	0.1
75	Tumble mustard	0.5	< 0.1	6.9	< 0.1	0.3	0.6	0.1
76	Leafy spurge	0.3	0.1	23.1	< 0.1	1.4	2.0	0.1
77	Barley	0.2	0.1	40.1	< 0.1	6.0	13.2	0.1
78	Smooth brome	0.4	< 0.1	7.4	< 0.1	1.4	3.0	0.1
79	Cocklebur	0.3	< 0.1	16.7	< 0.1	1.1	2.2	0.1
80	Russian wild rye	0.3	< 0.1	17.7	< 0.1	1.2	1.8	0.1
81	Common burdock	0.3	< 0.1	11.6	< 0.1	0.7	1.6	0.1
82	Tall buttercup	0.3	< 0.1	10.4	< 0.1	0.7	1.4	0.1
83	Western snowberry	0.2	< 0.1	21.5	< 0.1	2.3	6.0	0.1
84	Aster species	0.3	< 0.1	12.5	< 0.1	0.8	1.6	0.1
85	Yellow cress species	0.2	0.1	27.2	< 0.1	2.7	3.6	0.1
86	Hare's-ear mustard	0.3	< 0.1	10.2	< 0.1	0.6	1.4	0.1
87	Wild licorice	0.3	< 0.1	8.5	< 0.1	0.6	0.8	0.1
88	Oak-leaved goosefoot	0.1	< 0.1	20.0	< 0.1	14.0	14.0	0.1
89	Sunflower species	0.2	< 0.1	10.2	< 0.1	0.4	0.6	< 0.1
90	Timothy	0.1	0.1	65.0	< 0.1	6.2	6.2	< 0.1
91	Water smartweed	0.2	< 0.1	10.5	< 0.1	0.9	2.0	< 0.1
92	Spreading dogbane	0.1	< 0.1	20.0	< 0.1	7.0	7.0	< 0.1
93	Yellow toadflax	0.2	< 0.1	5.0	< 0.1	0.5	0.8	< 0.1
94	Downy brome	0.2	< 0.1	5.0	< 0.1	0.3	0.4	< 0.1
95	Wood sage	0.1	< 0.1	30.0	< 0.1	3.2	3.2	< 0.1
96	Goat's-beard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
97	Blue lettuce	0.2	< 0.1	7.7	< 0.1	1.0	1.4	< 0.1
98	Pearly everlasting	0.1	< 0.1	15.0	< 0.1	2.0	2.0	< 0.1
99	Wild radish	0.1	< 0.1	30.0	< 0.1	2.6	2.6	< 0.1
100	Small-flowered prairie-rocket	0.1	< 0.1	15.0	< 0.1	1.0	1.0	< 0.1
101	Vetchling species	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
102	Pasture sage	0.1	< 0.1	20.0	< 0.1	2.0	2.0	< 0.1
103	Rye	0.1	< 0.1	20.0	< 0.1	1.4	1.4	< 0.1
104	Absinth	0.1	< 0.1	15.0	< 0.1	2.2	2.2	< 0.1
105	Long-stalked stitchwort	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
106	Rough cinquefoil	0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
107	Field peas	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
108	Wild cucumber	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1

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Table 183. 1970s Barley (955 fields, SK and MB only) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
109	Goldenrod species	0.1	< 0.1	10.0	< 0.1	2.0	2.0	< 0.1
110	Redtop	0.1	< 0.1	10.0	< 0.1	1.0	1.0	< 0.1
111	Henbit	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
112	Rough pennyroyal	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
113	Hairy-nerved carrionflower	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
114	Maple-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
115	Collomia	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
116	Skeletonweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
117	Purslane speedwell	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
118	Green tansy mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
119	Indian mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
120	Meadow rue species	< 0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
121	Blue grass species	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1

Table 184. 1970s Barley in the Boreal Transition Ecoregion (187 fields, SK and MB only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	79.6	40.8	51.2	13.6	17.0	159.4	43.0
2	Wild buckwheat	84.8	37.5	44.3	5.8	6.8	79.2	32.2
3	Lamb's-quarters	48.4	20.7	42.8	6.3	13.0	460.8	22.1
4	Green foxtail	23.7	12.5	52.8	9.3	39.2	377.2	19.8
5	Stinkweed	49.4	15.2	30.8	4.7	9.5	114.2	18.1
6	Pale smartweed	37.0	15.1	40.8	4.8	12.9	151.8	16.5
7	Canada thistle	47.1	12.7	26.9	1.7	3.6	38.4	12.9
8	Bluebur	38.5	12.7	32.9	2.3	6.0	113.6	12.6
9	Perennial sow-thistle	43.5	11.4	26.1	1.5	3.3	21.0	11.6
10	Field horsetail	30.9	9.0	29.1	2.5	8.2	64.0	10.6
11	Shepherd's-purse	30.9	7.6	24.8	1.5	5.0	63.8	8.8
12	Common groundsel	14.0	5.2	36.9	3.7	26.4	235.6	8.5
13	Narrow-leaved hawk's-beard	21.7	6.5	30.1	2.3	10.6	121.8	8.2
14	Chickweed	16.0	4.9	30.6	2.8	17.7	156.8	7.6
15	Hemp-nettle	25.0	6.8	27.0	1.4	5.5	55.6	7.5
16	Canola/rapeseed	19.6	6.2	31.3	0.7	3.5	17.6	5.7
17	Wild mustard	17.4	4.4	25.2	1.0	5.8	74.8	5.2
18	Clover species	7.5	4.4	58.9	1.9	24.9	116.4	5.1
19	Redroot pigweed	17.1	3.9	22.7	0.6	3.7	26.0	4.4
20	Night-flowering catchfly	16.0	4.1	25.7	0.6	4.0	36.4	4.4
21	Wheat	11.0	3.9	35.3	0.9	8.5	36.2	4.0
22	Dandelion	19.2	3.2	16.4	0.3	1.6	26.8	4.0
23	Corn spurry	6.2	3.3	53.7	1.3	21.7	91.4	3.8
24	Quack grass	5.8	1.4	24.2	0.8	13.6	117.4	2.3
25	Russian thistle	6.6	1.8	27.4	0.3	4.7	22.8	1.9
26	Cleavers	5.8	1.9	32.0	0.4	6.2	20.6	1.9
27	Flixweed	6.3	1.8	29.4	0.3	4.4	15.4	1.8
28	Cow cockle	7.1	1.5	20.5	0.2	2.5	7.6	1.7
29	Canada fleabane	4.3	1.2	28.6	0.3	6.1	29.2	1.3
30	Pineappleweed	5.8	1.2	20.8	0.1	2.0	6.4	1.3
31	Oats	0.9	0.7	81.9	0.5	57.7	79.6	1.0

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**Field Survey Summary Tables – 1970s Barley**

Table 184. 1970s Barley in the Boreal Transition Ecoregion (187 fields, SK and MB only) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
32	Flax	2.6	0.8	30.9	0.2	7.0	30.6	0.9
33	Vetch species	4.8	0.5	9.5	< 0.1	0.4	1.0	0.8
34	Alfalfa	2.5	0.7	26.6	0.2	6.7	27.8	0.8
35	Yellow sweet-clover	0.9	0.6	65.0	0.3	30.0	58.2	0.7
36	Rose species	3.9	0.4	9.4	< 0.1	0.5	2.2	0.7
37	Biennial wormwood	3.9	0.3	7.4	< 0.1	0.9	2.2	0.6
38	Scentless chamomile	1.7	0.6	38.4	0.1	8.6	22.4	0.6
39	Prostrate knotweed	1.6	0.6	40.5	0.1	9.0	20.4	0.6
40	Northern bedstraw	1.7	0.7	42.0	0.1	5.0	8.0	0.6
41	Barnyard grass	1.6	0.4	21.8	0.1	4.4	7.8	0.4
42	Common pepper-grass	1.5	0.4	24.7	< 0.1	1.7	2.6	0.4
43	Barley	0.4	0.3	80.0	0.1	13.2	13.2	0.2
44	Oak-leaved goosefoot	0.6	0.1	20.0	0.1	14.0	14.0	0.2
45	Atriplex species	1.1	0.1	10.3	< 0.1	1.8	3.2	0.2
46	Ball mustard	1.1	0.2	16.3	< 0.1	1.0	1.4	0.2
47	Broad-leaved plantain	1.2	0.1	7.7	< 0.1	0.5	0.8	0.2
48	Timothy	0.4	0.3	65.0	< 0.1	6.2	6.2	0.2
49	Common burdock	0.9	0.1	12.5	< 0.1	0.9	1.6	0.2
50	Bicknell's geranium	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
51	Wormseed mustard	1.0	0.1	7.6	< 0.1	0.8	1.4	0.2
52	Kochia	0.7	0.1	8.2	< 0.1	1.6	3.6	0.1
53	Pearly everlasting	0.6	0.1	15.0	< 0.1	2.0	2.0	0.1
54	Small-flowered prairie-rocket	0.6	0.1	15.0	< 0.1	1.0	1.0	0.1
55	Wild tomato	0.6	0.1	15.0	< 0.1	0.6	0.6	0.1
56	Field bindweed	0.5	0.1	25.0	< 0.1	1.4	1.4	0.1
57	Tartary buckwheat	0.6	0.1	10.0	< 0.1	0.4	0.4	0.1
58	Spear-leaved goosefoot	0.5	0.1	25.0	< 0.1	1.0	1.0	0.1
59	Hare's-ear mustard	0.5	0.1	20.0	< 0.1	1.4	1.4	0.1
60	Dock species	0.5	< 0.1	5.0	< 0.1	0.8	0.8	0.1
61	Round-leaved mallow	0.5	< 0.1	10.0	< 0.1	0.4	0.4	0.1
62	Field peas	0.5	< 0.1	10.0	< 0.1	0.4	0.4	0.1
63	Redtop	0.4	< 0.1	10.0	< 0.1	1.0	1.0	0.1
64	Henbit	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Black medick	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Rough pennyroyal	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	White cockle	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 185. 1970s Barley in the Aspen Parkland Ecoregion (386 fields, SK and MB only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	76.4	52.6	68.8	55.2	72.3	648.0	94.1
2	Wild buckwheat	88.1	40.1	45.6	6.1	6.9	288.8	35.5
3	Wild oats	80.1	31.4	39.2	10.3	12.9	206.2	35.4
4	Lamb's-quarters	45.0	12.9	28.6	2.1	4.6	105.6	13.7
5	Perennial sow-thistle	50.0	9.8	19.6	1.2	2.5	32.4	12.2
6	Canada thistle	44.5	8.9	19.9	1.2	2.7	24.8	11.0
7	Redroot pigweed	37.8	8.1	21.3	1.4	3.6	77.6	10.0
8	Night-flowering catchfly	28.1	8.7	30.9	1.4	4.8	37.4	8.9
9	Wild mustard	31.9	6.7	21.0	1.3	4.0	121.0	8.5
10	Stinkweed	31.7	6.7	21.0	1.3	4.0	82.2	8.4
11	Russian thistle	27.4	5.9	21.4	0.9	3.4	87.6	7.2
12	Bluebur	27.0	6.6	24.6	0.7	2.4	22.4	7.1
13	Pale smartweed	21.8	3.6	16.7	0.6	2.6	49.8	5.1
14	Cow cockle	15.1	4.1	27.5	0.6	3.7	43.0	4.4
15	Wheat	11.1	2.3	21.1	0.3	2.4	15.2	2.8
16	Kochia	4.4	1.7	37.9	1.1	24.8	252.0	2.5
17	Quack grass	10.2	1.4	14.2	0.4	4.4	59.4	2.5
18	Flax	5.6	2.0	36.2	0.6	10.6	72.0	2.2
19	Flixweed	10.0	1.5	15.5	0.1	1.1	5.2	2.1
20	Shepherd's-purse	7.8	1.7	22.2	0.2	3.2	18.8	2.1
21	Rose species	9.8	0.9	8.8	0.1	0.8	2.4	1.7
22	Canola/rapeseed	5.7	1.4	24.2	0.2	3.6	30.0	1.6
23	Dandelion	6.8	1.2	18.4	0.1	1.7	7.8	1.6
24	Prostrate knotweed	6.7	1.1	16.9	0.1	1.8	12.2	1.5
25	Hemp-nettle	5.9	1.3	21.3	0.1	2.5	13.2	1.5
26	Narrow-leaved hawk's-beard	3.7	1.3	34.4	0.3	9.2	76.8	1.4
27	Biennial wormwood	6.4	0.9	14.4	0.1	1.6	11.0	1.3
28	Field horsetail	5.5	0.9	16.5	0.1	2.2	10.0	1.2
29	Clover species	4.5	0.9	20.2	0.1	3.1	29.6	1.1
30	Black medick	2.1	0.6	28.4	0.3	16.4	63.4	0.9
31	Round-leaved mallow	2.9	0.3	11.3	< 0.1	1.6	8.6	0.6
32	Dog mustard	1.6	0.6	39.3	0.1	4.5	8.8	0.6
33	Thyme-leaved spurge	2.5	0.4	14.8	0.1	2.9	22.0	0.6
34	Vetch species	2.9	0.3	9.4	< 0.1	0.9	5.8	0.5
35	Tumble pigweed	0.3	0.2	75.0	0.3	104.0	104.0	0.4
36	Chickweed	1.3	0.4	30.0	0.1	4.6	17.4	0.4
37	Alfalfa	1.8	0.3	19.7	< 0.1	0.9	2.4	0.4
38	Common groundsel	1.2	0.4	32.4	0.1	5.1	16.4	0.4
39	Oats	1.3	0.4	29.8	< 0.1	2.7	7.2	0.4
40	Barnyard grass	1.5	0.2	16.1	< 0.1	2.1	8.6	0.3
41	White cockle	0.8	0.4	50.3	0.1	6.7	10.6	0.3
42	Ball mustard	1.7	0.1	8.7	< 0.1	0.6	1.6	0.3
43	Common pepper-grass	1.3	0.2	16.7	< 0.1	0.9	2.2	0.3
44	Scentless chamomile	0.9	0.3	33.0	< 0.1	3.1	5.6	0.3
45	Wormseed mustard	1.3	0.2	15.3	< 0.1	1.2	3.4	0.3
46	Prostrate pigweed	1.3	0.2	11.6	< 0.1	1.2	2.0	0.3
47	Foxtail barley	1.0	0.1	11.0	0.1	5.7	19.8	0.2
48	Common ragweed	1.1	0.2	15.6	< 0.1	1.4	2.4	0.2
49	Broad-leaved plantain	1.3	0.1	9.7	< 0.1	0.6	1.2	0.2
50	Pussytoes species	0.5	0.1	27.5	0.1	19.8	39.2	0.2
51	Persian darnel	0.7	0.2	27.3	< 0.1	3.4	5.8	0.2
52	Tartary buckwheat	0.7	0.2	26.6	< 0.1	2.0	4.2	0.2
53	Povertyweed	0.9	0.1	9.8	< 0.1	0.5	0.6	0.2
54	Russian wild rye	0.6	0.1	17.7	< 0.1	1.2	1.8	0.1

(Table continued on next page)

**Field Survey Summary Tables – 1970s Barley**

Table 185. 1970s Barley in the Aspen Parkland Ecoregion (386 fields, SK and MB only) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Cleavers	0.6	0.1	17.1	< 0.1	2.0	3.6	0.1
56	Tall buttercup	0.7	0.1	10.4	< 0.1	0.7	1.4	0.1
57	Western snowberry	0.5	0.1	21.5	< 0.1	2.3	6.0	0.1
58	Yellow cress species	0.5	0.1	27.2	< 0.1	2.7	3.6	0.1
59	Dock species	0.7	< 0.1	6.8	< 0.1	0.8	2.0	0.1
60	Spear-leaved goosefoot	0.6	0.1	15.6	< 0.1	0.6	1.0	0.1
61	Smooth brome	0.7	< 0.1	6.6	< 0.1	1.0	2.6	0.1
62	Canada fleabane	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
63	Aster species	0.5	0.1	15.5	< 0.1	1.1	1.6	0.1
64	Field mint	0.5	< 0.1	7.4	< 0.1	2.2	4.4	0.1
65	Spreading dogbane	0.3	0.1	20.0	< 0.1	7.0	7.0	0.1
66	Yellow toadflax	0.5	< 0.1	5.0	< 0.1	0.5	0.8	0.1
67	Field bindweed	0.5	< 0.1	9.3	< 0.1	0.5	1.0	0.1
68	Wood sage	0.3	0.1	30.0	< 0.1	3.2	3.2	0.1
69	Stork's-bill	0.3	0.1	25.0	< 0.1	1.0	1.0	0.1
70	American dragonhead	0.4	< 0.1	12.5	< 0.1	0.5	0.6	0.1
71	Wild tomato	0.3	< 0.1	15.0	< 0.1	0.8	0.8	0.1
72	Sunflower species	0.3	< 0.1	15.0	< 0.1	0.6	0.6	0.1
73	Wild licorice	0.3	< 0.1	10.0	< 0.1	0.8	0.8	0.1
74	Vetchling species	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
75	Pasture sage	0.2	< 0.1	20.0	< 0.1	2.0	2.0	0.1
76	Bicknell's geranium	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
77	Yellow sweet-clover	0.2	< 0.1	25.0	< 0.1	1.0	1.0	< 0.1
78	Showy milkweed	0.2	< 0.1	10.0	< 0.1	3.8	3.8	< 0.1
79	Northern bedstraw	0.2	< 0.1	15.0	< 0.1	0.8	0.8	< 0.1
80	Downy brome	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
81	Leafy spurge	0.2	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
82	Goat's-beard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
83	Wild cucumber	0.3	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
84	Pineappleweed	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
85	Purslane	0.2	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
86	Corn spurry	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
87	Blue lettuce	0.2	< 0.1	5.0	< 0.1	1.4	1.4	< 0.1
88	Green tansy mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
89	Indian mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1



Table 186. 1970s Barley in the Moist Mixed Grassland Ecoregion (124 fields, SK only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	47.0	29.4	62.4	29.9	63.6	724.8	65.6
2	Wild oats	70.9	25.3	35.7	9.9	14.0	248.4	37.8
3	Wild buckwheat	83.2	32.8	39.4	3.9	4.7	27.8	34.4
4	Stinkweed	55.6	19.1	34.3	4.9	8.7	82.6	25.0
5	Russian thistle	42.4	14.9	35.1	3.0	7.2	56.8	18.2
6	Lamb's-quarters	39.4	14.4	36.6	2.5	6.4	72.2	16.8
7	Cow cockle	36.6	11.6	31.6	2.9	7.8	80.0	15.4
8	Redroot pigweed	42.6	11.3	26.4	1.8	4.3	52.4	14.7
9	Wild mustard	22.9	5.4	23.7	0.6	2.7	20.2	7.1
10	Flixweed	24.7	4.2	17.1	0.6	2.5	23.8	6.7
11	Persian darnel	12.1	3.0	24.4	1.6	12.8	168.4	5.6
12	Rose species	14.7	2.6	17.5	0.6	3.9	37.8	4.4
13	Wheat	10.4	3.0	28.4	0.8	8.0	53.4	4.3
14	Bluebur	13.1	3.4	25.8	0.4	2.8	15.8	4.2
15	Perennial sow-thistle	17.1	2.4	13.8	0.2	1.2	7.2	4.1
16	Canada thistle	16.3	2.1	12.8	0.2	1.1	3.6	3.8
17	Flax	5.0	2.6	51.3	1.0	20.1	70.2	3.5
18	Kochia	12.7	2.3	18.0	0.2	1.8	7.8	3.4
19	Thyme-leaved spurge	7.7	2.7	35.3	0.4	5.5	19.4	3.1
20	Night-flowering catchfly	4.0	1.8	44.1	0.4	9.5	13.8	2.0
21	Pale smartweed	8.0	1.0	12.1	0.1	1.8	6.8	1.9
22	Common pepper-grass	5.3	1.2	23.5	0.3	5.5	27.8	1.8
23	Dock species	7.4	1.0	13.7	0.1	1.7	12.6	1.8
24	Narrow-leaved hawk's-beard	4.3	1.3	29.2	0.3	7.2	28.0	1.7
25	Biennial wormwood	7.5	0.9	12.4	0.1	1.1	3.0	1.7
26	Canola/rapeseed	2.6	1.2	47.0	0.4	14.9	40.8	1.6
27	Prostrate pigweed	5.7	0.6	11.4	0.1	1.8	7.0	1.3
28	Prostrate knotweed	5.7	0.6	11.3	< 0.1	0.8	1.6	1.2
29	Dandelion	3.1	0.8	26.2	< 0.1	1.3	2.6	0.9
30	Barnyard grass	4.0	0.4	10.6	0.1	1.5	3.2	0.9
31	Russian pigweed	2.9	0.4	13.0	0.1	4.8	14.8	0.8
32	Alfalfa	1.6	0.4	24.9	< 0.1	1.8	3.2	0.5
33	Field bindweed	2.3	0.2	8.2	< 0.1	0.8	1.2	0.5
34	Wild tomato	1.8	0.3	15.0	< 0.1	0.9	1.2	0.4
35	Field horsetail	0.9	0.3	35.0	0.1	9.6	9.6	0.4
36	Spear-leaved goosefoot	0.9	0.2	25.0	0.1	8.8	8.8	0.4
37	Vetch species	1.7	0.1	5.0	< 0.1	0.2	0.2	0.3
38	Quack grass	1.3	0.1	7.7	< 0.1	1.0	1.0	0.3
39	Hemp-nettle	0.9	0.1	15.0	< 0.1	1.4	1.4	0.2
40	Round-leaved mallow	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
41	Field mint	0.7	0.1	10.0	< 0.1	2.0	2.0	0.2
42	Povertyweed	0.9	< 0.1	5.0	< 0.1	0.8	0.8	0.2
43	Sunflower species	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
44	Long-stalked stitchwort	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
45	Goldenrod species	0.6	0.1	10.0	< 0.1	2.0	2.0	0.1
46	Clover species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1

**Field Survey Summary Tables – 1970s Barley**

Table 187. 1970s Barley in the Mixed Grassland Ecoregion (96 fields, SK only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	74.5	27.7	37.2	4.5	6.0	97.0	45.1
2	Cow cockle	57.9	20.4	35.2	6.8	11.7	288.4	43.7
3	Russian thistle	53.5	16.8	31.5	5.1	9.5	103.2	35.6
4	Wild oats	44.9	12.8	28.6	5.6	12.5	158.4	32.9
5	Stinkweed	59.9	15.6	26.1	3.5	5.9	72.4	31.5
6	Redroot pigweed	51.9	12.6	24.3	2.5	4.8	56.8	25.0
7	Green foxtail	21.5	8.3	38.4	3.3	15.3	61.4	19.0
8	Lamb's-quarters	39.6	5.7	14.3	0.4	1.1	5.8	12.1
9	Flixweed	36.0	4.2	11.8	0.4	1.0	5.2	10.2
10	Wild mustard	19.9	2.8	14.1	0.3	1.5	9.0	6.2
11	Kochia	14.1	3.1	21.9	0.5	3.7	33.6	6.1
12	Wheat	9.7	3.6	37.2	0.5	4.8	14.0	5.5
13	Persian darnel	11.2	2.0	17.8	0.3	2.4	7.2	4.1
14	Canada thistle	6.9	1.1	16.5	0.2	2.6	6.2	2.5
15	Rose species	9.0	0.7	8.2	0.1	1.1	5.6	2.4
16	Prostrate knotweed	5.7	0.6	10.2	0.1	1.0	3.8	1.6
17	Flax	1.8	0.7	41.1	0.2	12.6	27.6	1.5
18	Bluebur	4.6	0.4	9.5	< 0.1	1.0	4.6	1.2
19	Tumble mustard	5.0	0.3	6.9	< 0.1	0.3	0.6	1.1
20	Dandelion	4.0	0.4	10.0	< 0.1	0.8	2.0	1.1
21	Perennial sow-thistle	4.1	0.3	7.4	< 0.1	0.5	0.8	1.0
22	Foxtail barley	3.2	0.4	11.8	< 0.1	1.3	3.2	0.9
23	Thyme-leaved spurge	2.1	0.5	22.0	< 0.1	1.7	3.2	0.8
24	Pale smartweed	2.9	0.3	10.1	< 0.1	0.5	0.8	0.8
25	Vetch species	2.8	0.2	8.5	< 0.1	0.3	0.4	0.7
26	Alfalfa	1.4	0.4	30.0	0.1	4.0	4.0	0.7
27	Biennial wormwood	2.0	0.3	12.7	0.1	2.5	4.0	0.7
28	Common pepper-grass	3.1	0.2	5.0	< 0.1	0.2	0.2	0.7
29	Field bindweed	2.0	0.1	7.6	< 0.1	1.3	2.4	0.5
30	Wild licorice	1.7	0.1	7.2	< 0.1	0.5	0.6	0.4
31	Prostrate pigweed	1.8	0.1	5.0	< 0.1	0.2	0.2	0.4
32	Rye	1.0	0.2	20.0	< 0.1	1.4	1.4	0.3
33	Round-leaved mallow	1.1	0.1	10.0	< 0.1	1.8	1.8	0.3
34	Broad-leaved plantain	1.1	0.1	10.0	< 0.1	0.4	0.4	0.3
35	Blue lettuce	1.0	0.1	10.0	< 0.1	0.6	0.6	0.3
36	Quack grass	1.0	0.1	5.0	< 0.1	1.4	1.4	0.3
37	Dock species	1.0	0.1	10.0	< 0.1	0.4	0.4	0.3
38	Barley	0.9	0.1	10.0	< 0.1	0.4	0.4	0.2
39	Hemp-nettle	1.0	0.1	5.0	< 0.1	0.6	0.6	0.2
40	Purslane	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
41	Goat's-beard	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.2
42	Common groundsel	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.2
43	Hare's-ear mustard	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.2
44	Spear-leaved goosefoot	0.9	< 0.1	5.0	< 0.1	0.6	0.6	0.2
45	Downy brome	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.2
46	Collomia	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
47	Russian pigweed	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
48	Skeletonweed	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
49	Purslane speedwell	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 188. 1970s Barley in the Lake Manitoba Plain Ecoregion (115 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	81.8	50.9	62.2	35.6	43.5	363.6	91.7
2	Wild oats	76.5	32.1	41.9	11.3	14.8	188.0	45.0
3	Wild buckwheat	73.1	26.2	35.8	3.4	4.6	94.6	29.7
4	Pale smartweed	52.2	18.1	34.7	5.1	9.7	146.6	24.9
5	Canada thistle	44.7	8.5	19.1	0.8	1.9	13.6	12.6
6	Perennial sow-thistle	38.7	8.5	22.1	1.0	2.7	24.4	11.9
7	Wild mustard	31.7	6.1	19.2	0.8	2.5	29.8	9.2
8	Redroot pigweed	30.9	5.2	16.8	0.7	2.3	29.0	8.5
9	Lamb's-quarters	21.7	4.7	21.5	0.8	3.8	27.0	7.0
10	Thyme-leaved spurge	12.1	4.7	38.6	0.8	6.8	43.8	5.5
11	Barnyard grass	10.2	2.7	26.9	1.2	12.2	96.4	4.8
12	Russian thistle	8.6	3.7	43.1	0.4	4.6	15.2	3.8
13	Night-flowering catchfly	9.6	3.4	35.6	0.3	3.3	12.4	3.7
14	Flax	9.7	2.2	22.3	0.4	4.4	22.4	3.2
15	Quack grass	10.5	1.4	13.5	0.3	2.7	14.4	2.8
16	Hemp-nettle	7.7	2.2	28.7	0.3	3.3	39.0	2.7
17	Stinkweed	10.8	1.3	11.8	0.1	1.3	7.8	2.5
18	Prostrate knotweed	7.5	1.7	23.1	0.2	3.1	10.0	2.4
19	Rose species	8.9	1.4	15.8	0.1	1.7	11.0	2.3
20	Yellow foxtail	0.8	0.4	55.0	1.3	157.0	157.0	2.2
21	Field horsetail	8.3	1.1	13.4	0.1	1.2	2.0	2.0
22	Clover species	6.9	0.8	11.6	0.1	1.9	11.0	1.7
23	Tartary buckwheat	5.4	1.2	22.3	0.1	2.0	6.6	1.6
24	Round-leaved mallow	5.6	0.6	11.3	< 0.1	0.8	2.2	1.3
25	Alfalfa	5.2	0.5	10.4	< 0.1	0.7	2.8	1.1
26	Purslane	2.5	1.1	43.5	0.1	3.2	3.4	1.1
27	Wheat	4.2	0.6	13.9	< 0.1	1.2	3.4	1.0
28	Kochia	0.8	0.5	65.0	0.4	52.0	52.0	1.0
29	Cleavers	2.4	0.8	32.4	0.1	6.3	17.0	1.0
30	Field bindweed	4.4	0.5	10.7	< 0.1	0.7	1.8	1.0
31	Dandelion	4.0	0.5	12.1	< 0.1	1.2	4.6	0.9
32	Flixweed	3.8	0.3	8.2	0.1	1.4	4.2	0.8
33	False flax species	2.5	0.6	24.7	0.1	2.3	5.0	0.8
34	Cocklebur	2.4	0.4	16.7	< 0.1	1.1	2.2	0.6
35	Showy milkweed	1.6	0.5	30.0	0.1	3.5	4.6	0.6
36	Leafy spurge	1.7	0.5	30.0	< 0.1	1.9	2.0	0.6
37	Field mint	1.4	0.6	40.0	< 0.1	3.2	3.2	0.6
38	Prostrate pigweed	0.8	0.7	85.0	0.1	7.4	7.4	0.5
39	Atriplex species	1.4	0.4	25.0	< 0.1	2.2	2.2	0.4
40	Black medick	2.4	0.1	5.0	< 0.1	0.2	0.2	0.4
41	Stork's-bill	1.7	0.2	14.8	< 0.1	1.4	2.4	0.4
42	Broad-leaved plantain	2.2	0.1	5.0	< 0.1	0.2	0.2	0.4
43	Yellow sweet-clover	2.2	0.1	5.0	< 0.1	0.2	0.2	0.4
44	Dog mustard	1.8	0.1	5.0	< 0.1	0.2	0.2	0.3
45	Chickweed	1.6	0.1	5.0	< 0.1	0.3	0.4	0.3
46	Wild radish	0.8	0.2	30.0	< 0.1	2.6	2.6	0.3
47	Spear-leaved goosefoot	0.9	0.2	25.0	< 0.1	1.2	1.2	0.3
48	Bluebur	0.9	0.1	15.0	< 0.1	0.6	0.6	0.2
49	Absinth	0.8	0.1	15.0	< 0.1	2.2	2.2	0.2
50	American dragonhead	0.8	0.1	15.0	< 0.1	0.6	0.6	0.2
51	Shepherd's-purse	0.8	0.1	15.0	< 0.1	0.6	0.6	0.2
52	Water smartweed	0.8	0.1	15.0	< 0.1	0.6	0.6	0.2
53	Common burdock	0.9	0.1	10.0	< 0.1	0.4	0.4	0.2
54	Rough cinquefoil	0.8	0.1	10.0	< 0.1	0.8	0.8	0.2

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**Field Survey Summary Tables – 1970s Barley**

Table 188. 1970s Barley in the Lake Manitoba Plain Ecoregion (115 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Hairy-nerved carrionflower	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
56	Hare's-ear mustard	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
57	Biennial wormwood	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
58	Maple-leaved goosefoot	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
59	Vetch species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 189. 1970s Barley in the Interlake Plain Ecoregion (47 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	76.7	38.5	50.2	42.7	55.7	636.0	61.9
2	Wild oats	70.3	34.5	49.0	14.7	20.9	106.8	33.5
3	Wild buckwheat	87.5	43.3	49.5	7.3	8.4	101.6	31.6
4	Canada thistle	64.2	22.6	35.2	3.3	5.1	26.6	18.1
5	Pale smartweed	54.6	16.9	31.0	3.9	7.1	44.8	15.7
6	Wild mustard	56.9	14.2	24.9	2.4	4.2	32.8	13.6
7	Quack grass	34.9	8.0	22.8	5.0	14.3	176.8	11.4
8	Redroot pigweed	49.4	11.3	22.8	2.0	4.0	46.6	11.4
9	Hemp-nettle	27.8	14.6	52.5	3.2	11.7	34.0	11.2
10	Lamb's-quarters	45.7	10.9	24.0	1.2	2.6	14.2	10.1
11	Night-flowering catchfly	27.8	10.9	39.1	3.4	12.1	82.8	10.0
12	Perennial sow-thistle	42.6	9.7	22.8	1.1	2.6	8.8	9.3
13	Field horsetail	24.9	10.2	41.2	2.7	10.7	44.6	8.8
14	Barnyard grass	19.3	5.8	29.9	4.5	23.2	88.0	8.4
15	Stinkweed	26.0	5.6	21.5	1.1	4.1	23.4	5.9
16	Flax	8.1	4.7	58.0	3.1	38.7	104.0	5.4
17	Bluebur	15.1	5.8	38.1	1.2	8.0	40.8	4.8
18	Dandelion	16.5	3.8	22.7	0.5	3.1	11.0	3.7
19	Cleavers	11.7	3.8	32.7	0.5	4.0	5.4	3.1
20	Tall hedge mustard	2.5	2.4	95.0	1.5	59.6	59.6	2.5
21	Canola/rapeseed	6.7	2.9	43.1	0.3	4.2	8.0	2.0
22	American dragonhead	10.6	1.8	16.7	0.1	1.0	2.4	1.9
23	Wheat	6.0	2.5	41.7	0.2	3.5	5.8	1.7
24	Clover species	7.4	1.6	21.4	0.1	1.7	2.6	1.5
25	Narrow-leaved hawk's-beard	6.0	1.4	22.5	0.1	1.4	2.8	1.2
26	Thyme-leaved spurge	6.7	1.1	15.9	0.1	0.9	2.6	1.2
27	Broad-leaved plantain	6.9	0.4	6.0	< 0.1	0.3	1.0	1.0
28	Cow cockle	5.6	0.7	12.0	0.1	1.0	3.2	0.9
29	Flixweed	5.3	0.5	9.6	0.1	1.4	3.0	0.9
30	Bicknell's geranium	4.2	0.5	12.5	< 0.1	0.7	0.8	0.7
31	Water smartweed	4.2	0.3	7.5	< 0.1	1.1	2.0	0.6
32	Vetch species	4.0	0.2	5.0	< 0.1	0.5	0.6	0.6
33	Stork's-bill	3.2	0.3	9.4	< 0.1	1.3	5.2	0.5
34	Spear-leaved goosefoot	2.1	0.2	10.0	0.2	10.2	10.2	0.5
35	Alfalfa	3.2	0.4	11.1	< 0.1	0.5	0.8	0.5
36	Smooth brome	2.5	0.3	10.0	0.1	3.0	3.0	0.4
37	Shepherd's-purse	0.7	0.4	50.0	0.2	32.2	32.2	0.4
38	Dog mustard	2.1	0.4	20.0	< 0.1	0.8	0.8	0.4
39	Round-leaved mallow	2.5	0.3	10.0	< 0.1	0.4	0.4	0.4
40	Russian thistle	2.5	0.3	10.0	< 0.1	0.4	0.4	0.4
41	Field mint	2.1	0.3	15.0	< 0.1	0.6	0.6	0.4
42	Biennial wormwood	2.5	0.1	5.0	< 0.1	0.6	0.6	0.3
43	Aster species	2.5	0.1	5.0	< 0.1	0.2	0.2	0.3
44	Prostrate knotweed	0.7	0.4	60.0	< 0.1	5.2	5.2	0.3
45	Black medick	0.7	0.3	45.0	< 0.1	6.4	6.4	0.2
46	Meadow rue species	0.7	0.1	10.0	< 0.1	0.4	0.4	0.1
47	Blue grass species	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.1
48	Barley	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1

**Field Survey Summary Tables – 1970s Oats**

Table 190. 1970s Oats (325 fields, SK and MB only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	72.9	54.1	74.2	61.7	84.6	838.4	79.9
2	Wild buckwheat	86.4	47.7	55.2	8.9	10.3	81.6	33.5
3	Lamb's-quarters	64.5	24.4	37.8	7.0	10.9	200.8	21.7
4	Wild oats	48.4	17.9	37.0	3.9	8.1	134.6	14.9
5	Stinkweed	46.0	13.8	30.0	5.3	11.6	298.6	14.5
6	Russian thistle	42.0	16.0	38.2	3.4	8.1	124.4	13.1
7	Redroot pigweed	47.5	14.5	30.6	3.1	6.6	117.6	13.0
8	Perennial sow-thistle	41.7	11.6	27.9	1.7	4.1	36.4	10.2
9	Canada thistle	40.7	8.9	22.0	1.2	3.0	31.4	8.7
10	Wild mustard	33.0	8.8	26.8	1.4	4.2	262.6	8.0
11	Bluebur	29.1	8.2	28.3	1.1	3.9	61.6	7.1
12	Barley	21.6	8.1	37.4	1.2	5.5	53.0	6.2
13	Pale smartweed	20.5	6.1	30.0	2.1	10.1	178.8	6.2
14	Wheat	20.8	6.2	29.9	0.9	4.3	34.6	5.2
15	Night-flowering catchfly	18.0	6.5	36.3	0.8	4.7	32.0	5.0
16	Cow cockle	16.5	4.8	29.3	0.9	5.3	36.2	4.3
17	Rose species	19.1	3.5	18.4	0.4	2.3	33.6	3.8
18	Quack grass	13.4	3.5	26.4	1.0	7.8	44.6	3.6
19	Flixweed	17.4	3.2	18.2	0.5	3.1	83.6	3.5
20	Narrow-leaved hawk's-beard	10.1	3.9	39.1	0.7	6.6	64.0	3.0
21	Field horsetail	9.0	2.8	31.4	0.6	6.9	30.6	2.5
22	Dandelion	13.4	2.1	15.8	0.2	1.7	17.0	2.5
23	Flax	4.7	2.5	53.6	1.0	22.1	65.6	2.3
24	Shepherd's-purse	8.6	2.0	23.0	0.6	6.9	111.6	2.2
25	Prostrate knotweed	8.0	1.8	22.5	0.6	7.3	109.2	2.0
26	Canola/rapeseed	7.2	1.9	26.9	0.3	4.4	52.0	1.7
27	Kochia	5.9	1.6	27.5	0.5	8.8	80.8	1.7
28	Vetch species	6.2	0.9	14.8	0.1	1.6	12.2	1.1
29	Chickweed	2.7	0.7	27.4	0.6	23.6	89.6	1.1
30	Clover species	4.0	1.2	30.2	0.2	6.3	44.2	1.1
31	Hemp-nettle	3.9	1.1	27.4	0.3	6.5	46.8	1.0
32	Alfalfa	1.6	0.8	50.5	0.6	35.1	99.8	0.9
33	Biennial wormwood	5.0	0.8	15.8	0.1	1.7	6.2	0.9
34	Dog mustard	3.9	0.9	22.8	0.1	2.2	7.8	0.8
35	Broad-leaved plantain	4.6	0.6	13.4	0.1	1.5	25.6	0.8
36	Barnyard grass	4.0	0.6	16.2	0.1	3.2	16.0	0.8
37	Thyme-leaved spurge	3.4	0.7	20.7	0.1	1.6	4.4	0.7
38	Corn spurry	2.7	0.5	16.6	0.2	6.0	37.0	0.6
39	Common pepper-grass	3.7	0.4	11.6	< 0.1	1.1	6.2	0.6
40	Witch grass	1.0	0.5	50.7	0.2	17.2	50.2	0.4
41	Common groundsel	2.3	0.4	15.5	< 0.1	1.4	5.0	0.4
42	Foxtail barley	2.6	0.2	6.6	< 0.1	0.6	1.6	0.4
43	Ball mustard	1.8	0.3	15.0	< 0.1	1.7	6.2	0.3
44	Prostrate pigweed	1.4	0.3	24.2	< 0.1	2.4	10.0	0.3
45	Russian pigweed	1.4	0.3	22.4	< 0.1	2.1	5.2	0.3
46	Bladder campion	1.2	0.4	31.5	< 0.1	2.6	5.4	0.3
47	Western snowberry	1.0	0.4	34.5	0.1	5.4	10.0	0.3
48	Northern bedstraw	1.3	0.2	18.2	< 0.1	2.8	5.4	0.3
49	Dock species	1.8	0.1	6.8	< 0.1	0.4	0.8	0.3
50	Purslane	1.2	0.2	16.0	0.1	4.2	17.4	0.2
51	Cleavers	1.1	0.3	24.1	< 0.1	2.4	8.2	0.2
52	Persian darnel	1.2	0.2	17.3	< 0.1	2.9	4.2	0.2
53	Wormseed mustard	0.3	0.1	45.0	0.2	65.4	65.4	0.2
54	White cockle	1.1	0.3	23.8	< 0.1	2.5	5.6	0.2

(Table continued on next page)

Table 190. 1970s Oats (325 fields, SK and MB only) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	American dragonhead	1.0	0.3	24.9	< 0.1	2.1	3.6	0.2
56	Spear-leaved goosefoot	1.6	0.1	6.8	< 0.1	0.3	0.4	0.2
57	Skeletonweed	1.2	0.2	16.2	< 0.1	1.3	2.8	0.2
58	Pasture sage	1.1	0.2	15.7	< 0.1	1.1	1.8	0.2
59	Round-leaved mallow	1.2	0.1	10.6	< 0.1	1.0	1.2	0.2
60	Common ragweed	0.6	0.2	34.9	< 0.1	7.4	16.0	0.2
61	Yellow sweet-clover	0.8	0.2	20.8	< 0.1	4.2	12.2	0.2
62	Downy brome	0.7	0.2	23.7	0.1	7.4	11.8	0.2
63	Bicknell's geranium	1.1	0.1	9.8	< 0.1	0.5	0.8	0.2
64	Pineappleweed	0.4	0.2	65.0	0.1	14.4	14.4	0.2
65	Black medick	1.2	0.1	5.8	< 0.1	0.4	1.4	0.2
66	Tumble pigweed	0.6	0.2	38.8	< 0.1	3.8	6.6	0.2
67	Showy milkweed	0.9	0.1	15.7	< 0.1	1.4	2.2	0.2
68	False ragweed	0.3	0.2	80.0	< 0.1	14.4	14.4	0.2
69	Golden-bean	0.5	0.2	31.9	< 0.1	6.0	9.6	0.1
70	Poplar species	0.6	0.2	32.9	< 0.1	2.3	3.2	0.1
71	Canada fleabane	0.9	0.1	8.5	< 0.1	0.3	0.6	0.1
72	Povertyweed	0.3	0.2	65.0	< 0.1	7.0	7.0	0.1
73	Rough cinquefoil	0.7	0.1	7.8	< 0.1	0.6	3.8	0.1
74	Hare's-ear mustard	0.3	0.2	55.0	< 0.1	6.4	6.4	0.1
75	Absinth	0.7	< 0.1	5.0	< 0.1	0.3	0.4	0.1
76	Field bindweed	0.6	0.1	10.7	< 0.1	0.4	0.8	0.1
77	Tumble mustard	0.3	0.1	50.0	< 0.1	4.0	4.0	0.1
78	White mustard	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
79	Redtop	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Wild tomato	0.6	< 0.1	7.6	< 0.1	0.7	1.0	0.1
81	Sunflower species	0.5	0.1	10.0	< 0.1	0.5	0.8	0.1
82	Tartary buckwheat	0.4	0.1	16.3	< 0.1	1.7	3.2	0.1
83	Field mint	0.5	< 0.1	5.0	< 0.1	1.0	1.0	0.1
84	Blue lettuce	0.4	0.1	15.0	< 0.1	1.4	1.4	0.1
85	Wild parsnip	0.3	0.1	25.0	< 0.1	1.6	1.6	0.1
86	Lance-leaved psoralea	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
87	Prickly lettuce	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
88	June grass	0.3	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
89	Gumweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
90	Water smartweed	0.3	< 0.1	10.0	< 0.1	1.4	1.4	< 0.1
91	Nodding thistle	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
92	Timothy	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
93	Scentless chamomile	0.3	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
94	False flax species	0.3	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
95	Clasping-leaved pennycress	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
96	Tall buttercup	0.3	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
97	Goldenrod species	0.3	< 0.1	10.0	< 0.1	1.2	1.2	< 0.1
98	Rye	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
99	Yellow cress species	0.1	< 0.1	35.0	< 0.1	4.0	4.0	< 0.1
100	Maple-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

**Field Survey Summary Tables – 1970s Oats**

Table 191. 1970s Oats in the Boreal Transition Ecoregion (49 fields, SK and MB only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	47.1	32.0	68.0	37.1	78.9	349.4	44.8
2	Wild buckwheat	91.5	51.1	55.9	12.1	13.2	65.4	34.2
3	Lamb's-quarters	73.0	41.7	57.2	13.9	19.0	107.2	31.0
4	Wild oats	57.1	24.4	42.7	5.1	8.9	58.8	17.1
5	Stinkweed	51.6	22.0	42.7	5.2	10.1	62.4	16.0
6	Bluebur	57.1	21.5	37.6	2.8	4.9	18.0	14.4
7	Narrow-leaved hawk's-beard	42.8	20.0	46.7	3.6	8.5	64.0	13.2
8	Perennial sow-thistle	50.4	13.4	26.6	2.1	4.2	36.4	10.9
9	Pale smartweed	26.3	12.5	47.7	5.1	19.5	102.4	10.6
10	Canada thistle	40.1	9.1	22.7	1.5	3.8	31.4	8.1
11	Shepherd's-purse	28.9	7.3	25.4	3.2	11.0	111.6	7.8
12	Redroot pigweed	31.6	9.0	28.6	1.7	5.3	38.0	7.3
13	Field horsetail	23.9	8.3	34.8	2.3	9.7	30.6	6.8
14	Canola/rapeseed	28.0	8.5	30.3	1.7	6.0	52.0	6.8
15	Chickweed	17.3	4.7	27.4	4.1	23.6	89.6	6.5
16	Wild mustard	22.3	6.4	28.8	2.2	9.9	100.4	6.0
17	Night-flowering catchfly	18.3	7.1	38.7	1.2	6.4	17.2	4.9
18	Dandelion	27.8	4.6	16.4	0.6	2.0	17.0	4.7
19	Alfalfa	5.9	3.9	66.5	3.5	58.8	99.8	4.6
20	Quack grass	14.9	5.2	35.1	1.6	10.9	41.6	4.4
21	Barley	16.1	6.7	41.4	0.7	4.1	10.4	4.1
22	Russian thistle	12.2	4.0	32.7	0.9	7.6	35.0	3.2
23	Corn spurry	13.4	2.4	17.9	1.0	7.4	37.0	2.9
24	Vetch species	17.1	2.4	13.8	0.2	1.0	3.2	2.6
25	Cow cockle	12.5	3.0	23.8	0.5	4.0	15.2	2.6
26	Prostrate knotweed	4.4	1.4	32.0	2.0	45.2	109.2	2.5
27	Common groundsel	15.1	2.3	15.5	0.2	1.4	5.0	2.4
28	Clover species	6.2	2.4	38.4	0.8	13.6	44.2	2.0
29	Hemp-nettle	8.2	2.2	26.6	0.2	3.0	10.2	1.7
30	Broad-leaved plantain	9.0	1.9	20.9	0.2	2.1	5.0	1.6
31	Flax	1.8	1.8	100.0	0.9	47.0	47.0	1.4
32	Wormseed mustard	1.8	0.8	45.0	1.2	65.4	65.4	1.4
33	Wheat	6.8	1.5	22.0	0.2	2.8	4.0	1.3
34	Ball mustard	7.0	0.8	11.6	0.1	1.9	6.2	1.1
35	Rose species	6.0	1.0	16.2	0.1	1.6	2.4	1.0
36	Pineappleweed	2.4	1.5	65.0	0.3	14.4	14.4	1.0
37	American dragonhead	3.6	1.4	40.0	0.1	3.6	3.6	0.9
38	Flixweed	6.0	0.5	9.1	< 0.1	0.4	0.4	0.8
39	Witch grass	1.6	0.9	55.0	0.2	10.8	10.8	0.6
40	Hare's-ear mustard	1.8	1.0	55.0	0.1	6.4	6.4	0.6
41	Bicknell's geranium	3.6	0.5	15.0	< 0.1	0.8	0.8	0.6
42	Dog mustard	3.6	0.5	15.0	< 0.1	0.8	0.8	0.6
43	Redtop	4.1	0.2	5.0	< 0.1	0.2	0.2	0.5
44	Black medick	3.6	0.2	5.0	< 0.1	0.2	0.2	0.4
45	Cleavers	2.8	0.2	6.8	< 0.1	0.8	1.0	0.4
46	Biennial wormwood	2.1	0.1	5.0	0.1	4.0	4.0	0.3
47	Northern bedstraw	1.3	0.4	30.0	0.1	5.4	5.4	0.3
48	Rough cinquefoil	2.4	0.1	5.0	< 0.1	0.2	0.2	0.3
49	June grass	2.1	0.2	10.0	< 0.1	0.4	0.4	0.3
50	Gumweed	2.3	0.1	5.0	< 0.1	0.2	0.2	0.3
51	Timothy	2.0	0.1	5.0	< 0.1	0.2	0.2	0.2
52	Barnyard grass	1.0	0.1	5.0	< 0.1	0.2	0.2	0.1



Table 192. 1970s Oats in the Aspen Parkland Ecoregion (146 fields, SK and MB only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	84.7	68.8	81.2	78.4	92.6	648.0	94.8
2	Wild buckwheat	88.6	51.3	57.8	8.7	9.8	81.6	33.4
3	Lamb's-quarters	64.8	23.4	36.1	6.7	10.3	200.8	20.3
4	Wild oats	56.0	19.5	34.8	3.4	6.0	55.0	15.4
5	Redroot pigweed	47.2	14.2	30.0	3.5	7.4	117.6	12.8
6	Russian thistle	41.6	14.6	35.2	2.7	6.4	71.6	11.6
7	Perennial sow-thistle	46.1	13.9	30.2	1.9	4.2	29.4	11.3
8	Stinkweed	39.5	9.7	24.6	3.6	9.2	298.6	10.6
9	Canada thistle	46.4	10.8	23.3	1.2	2.7	28.0	9.8
10	Wild mustard	35.9	10.6	29.6	1.1	3.0	21.6	8.4
11	Wheat	32.8	9.2	28.1	1.3	3.9	34.0	7.7
12	Bluebur	32.3	8.7	27.1	1.3	4.0	61.6	7.5
13	Barley	26.0	10.5	40.3	1.5	5.9	53.0	7.5
14	Night-flowering catchfly	27.3	10.1	36.8	1.2	4.5	32.0	7.3
15	Rose species	21.7	4.2	19.4	0.5	2.4	33.6	4.3
16	Flax	6.8	4.0	58.4	1.6	22.8	65.6	3.3
17	Flixweed	14.9	2.7	18.3	0.8	5.2	83.6	3.2
18	Cow cockle	12.2	3.4	27.8	0.7	5.8	36.2	3.0
19	Dandelion	12.1	2.2	18.2	0.2	1.8	10.6	2.3
20	Pale smartweed	11.8	1.6	13.5	0.1	1.0	5.4	2.0
21	Quack grass	10.7	1.4	12.9	0.1	1.4	6.6	1.8
22	Prostrate knotweed	6.5	1.7	26.4	0.4	6.5	37.8	1.6
23	Hemp-nettle	5.4	1.5	27.9	0.4	8.1	46.8	1.5
24	Field horsetail	6.4	1.5	23.1	0.2	2.7	8.6	1.3
25	Shepherd's-purse	6.2	1.5	23.8	0.2	3.2	7.4	1.3
26	Biennial wormwood	6.6	1.1	17.3	0.1	1.3	3.0	1.2
27	Clover species	4.9	1.4	28.3	0.2	4.2	12.6	1.2
28	Kochia	2.0	0.9	43.7	0.6	31.8	80.8	1.0
29	Narrow-leaved hawk's-beard	3.6	1.2	33.6	0.2	5.0	18.4	1.0
30	Thyme-leaved spurge	4.7	0.9	19.3	0.1	1.4	4.0	0.9
31	Dog mustard	3.5	1.1	29.8	0.1	3.9	7.8	0.9
32	Broad-leaved plantain	5.6	0.5	9.8	< 0.1	0.6	2.4	0.8
33	Canola/rapeseed	4.5	0.8	18.2	0.1	1.7	7.0	0.8
34	Barnyard grass	4.3	0.6	14.2	0.1	3.2	16.0	0.8
35	Vetch species	3.3	0.6	17.2	0.1	3.0	12.2	0.6
36	Common pepper-grass	3.3	0.5	15.8	0.1	1.7	6.2	0.6
37	Purslane	1.7	0.4	20.9	0.1	6.0	17.4	0.4
38	White cockle	1.5	0.5	29.8	0.1	3.4	5.6	0.4
39	Cleavers	1.4	0.5	35.3	< 0.1	3.4	8.2	0.4
40	Northern bedstraw	1.8	0.4	19.6	< 0.1	1.6	2.0	0.3
41	Alfalfa	1.4	0.4	28.6	< 0.1	2.6	4.0	0.3
42	False ragweed	0.6	0.5	80.0	0.1	14.4	14.4	0.3
43	Foxtail barley	2.1	0.1	6.8	< 0.1	0.3	0.4	0.3
44	Ball mustard	1.5	0.3	20.0	< 0.1	1.5	1.8	0.3
45	Western snowberry	1.4	0.3	19.1	< 0.1	3.1	7.4	0.3
46	Prostrate pigweed	1.8	0.1	5.0	< 0.1	0.3	0.4	0.2
47	Round-leaved mallow	1.4	0.1	7.7	< 0.1	0.8	1.0	0.2
48	Absinth	1.5	0.1	5.0	< 0.1	0.3	0.4	0.2
49	Field bindweed	1.3	0.1	10.7	< 0.1	0.4	0.8	0.2
50	Bladder campion	0.5	0.3	55.0	< 0.1	5.4	5.4	0.2
51	Poplar species	0.6	0.3	45.0	< 0.1	3.2	3.2	0.2
52	Spear-leaved goosefoot	1.2	0.1	10.0	< 0.1	0.4	0.4	0.2
53	Skeletonweed	1.2	0.1	7.1	< 0.1	0.6	0.8	0.2
54	Showy milkweed	0.7	0.2	25.0	< 0.1	2.2	2.2	0.1

(Table continued on next page)

**Field Survey Summary Tables – 1970s Oats**

Table 192. 1970s Oats in the Aspen Parkland Ecoregion (146 fields, SK and MB only) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Common ragweed	0.8	0.2	20.0	< 0.1	1.0	1.0	0.1
56	Corn spurry	0.7	0.1	15.0	< 0.1	2.4	2.4	0.1
57	Wild parsnip	0.6	0.1	25.0	< 0.1	1.6	1.6	0.1
58	Bicknell's geranium	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
59	Prickly lettuce	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
60	Black medick	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
61	White mustard	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
62	Wild tomato	0.6	0.1	10.0	< 0.1	0.4	0.4	0.1
63	Pasture sage	0.6	0.1	15.0	< 0.1	0.6	0.6	0.1
64	Scentless chamomile	0.6	0.1	10.0	< 0.1	0.4	0.4	0.1
65	False flax species	0.6	0.1	10.0	< 0.1	0.8	0.8	0.1
66	Clasping-leaved pennycress	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Tall buttercup	0.6	< 0.1	5.0	< 0.1	0.4	0.4	0.1
68	Rye	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	American dragonhead	0.5	< 0.1	10.0	< 0.1	0.4	0.4	0.1
70	Tartary buckwheat	0.5	< 0.1	5.0	< 0.1	0.4	0.4	0.1

Table 193. 1970s Oats in the Moist Mixed Grassland Ecoregion (55 fields, SK only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	74.0	43.4	58.7	34.6	46.7	374.6	63.4
2	Wild buckwheat	91.0	50.3	55.2	10.4	11.4	72.2	39.8
3	Russian thistle	76.9	32.2	41.8	7.8	10.1	124.4	28.8
4	Lamb's-quarters	72.2	24.9	34.5	7.0	9.7	85.4	24.8
5	Stinkweed	64.9	20.5	31.6	5.3	8.2	70.4	20.5
6	Wild oats	40.7	14.5	35.5	6.3	15.4	134.6	16.8
7	Redroot pigweed	59.6	16.6	27.8	2.8	4.7	55.6	15.6
8	Perennial sow-thistle	30.5	7.0	23.0	1.3	4.2	14.8	7.3
9	Flixweed	37.2	7.0	18.9	0.6	1.6	5.8	7.3
10	Rose species	35.5	5.8	16.4	0.6	1.8	5.8	6.7
11	Quack grass	15.4	5.2	33.7	2.5	16.0	44.6	6.4
12	Canada thistle	32.8	4.8	14.7	0.8	2.3	14.6	6.2
13	Cow cockle	25.0	6.0	24.0	1.1	4.5	31.4	6.2
14	Barley	20.7	6.2	29.7	1.0	5.0	42.6	5.7
15	Wild mustard	23.5	4.1	17.6	0.4	1.7	6.0	4.5
16	Wheat	10.9	4.5	41.5	0.9	8.6	34.6	3.9
17	Bluebur	16.1	2.6	16.0	0.4	2.2	8.0	3.1
18	Dandelion	17.5	2.0	11.4	0.2	1.3	9.6	2.9
19	Prostrate knotweed	13.5	2.4	17.9	0.1	1.1	2.6	2.5
20	Kochia	11.0	1.3	11.5	0.1	0.9	2.0	1.8
21	Night-flowering catchfly	7.5	1.6	21.8	0.3	3.4	6.0	1.7
22	Common pepper-grass	11.2	0.8	7.4	0.1	0.6	2.2	1.6
23	Persian darnel	7.4	1.3	17.3	0.2	2.9	4.2	1.5
24	Narrow-leaved hawk's-beard	8.5	1.3	15.0	0.1	1.2	4.4	1.5
25	Biennial wormwood	7.3	1.2	16.1	0.2	2.3	6.2	1.4
26	Foxtail barley	9.9	0.6	6.6	0.1	0.8	1.6	1.4
27	Pale smartweed	9.2	0.7	7.6	0.1	1.3	2.8	1.4
28	Downy brome	4.3	1.0	23.7	0.3	7.4	11.8	1.2
29	Dock species	7.9	0.6	7.5	< 0.1	0.4	0.8	1.1
30	Shepherd's-purse	5.8	0.8	12.8	0.1	0.9	1.8	1.0
31	Canola/rapeseed	3.6	1.3	35.0	0.1	2.9	4.8	1.0
32	Western snowberry	2.1	1.3	65.0	0.2	10.0	10.0	0.9
33	Vetch species	5.4	0.8	14.1	0.1	0.9	1.8	0.9
34	Russian pigweed	6.0	0.5	8.4	< 0.1	0.8	1.6	0.9
35	Skeletonweed	3.6	0.9	25.0	0.1	2.0	2.8	0.8
36	Canada fleabane	5.5	0.5	8.5	< 0.1	0.3	0.6	0.8
37	Tumble pigweed	1.8	1.3	70.0	0.1	6.6	6.6	0.8
38	Spear-leaved goosefoot	6.1	0.3	5.0	< 0.1	0.2	0.2	0.8
39	Pasture sage	3.7	0.7	20.0	0.1	1.6	1.8	0.7
40	Thyme-leaved spurge	3.3	0.9	26.6	0.1	1.8	2.4	0.7
41	Clover species	1.7	0.7	40.0	0.1	4.6	4.6	0.5
42	Golden-bean	1.8	0.5	25.0	0.1	3.0	3.0	0.4
43	Blue lettuce	2.2	0.3	15.0	< 0.1	1.4	1.4	0.4
44	Poplar species	1.7	0.3	20.0	< 0.1	1.4	1.4	0.3
45	Round-leaved mallow	2.0	0.2	10.0	< 0.1	1.2	1.2	0.3
46	Purslane	2.2	0.1	5.0	< 0.1	0.2	0.2	0.3
47	Corn spurry	1.8	0.2	10.0	< 0.1	0.8	0.8	0.3
48	Broad-leaved plantain	2.0	0.1	5.0	< 0.1	0.4	0.4	0.3
49	Nodding thistle	1.9	0.1	5.0	< 0.1	0.2	0.2	0.3
50	Wild tomato	1.7	0.1	5.0	< 0.1	1.0	1.0	0.2
51	Rough cinquefoil	1.7	0.1	5.0	< 0.1	0.4	0.4	0.2
52	Barnyard grass	1.7	0.1	5.0	< 0.1	0.2	0.2	0.2

**Field Survey Summary Tables – 1970s Oats**

Table 194. 1970s Oats in the Mixed Grassland Ecoregion (27 fields, SK only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	73.1	22.2	30.4	22.6	31.0	257.8	48.9
2	Green foxtail	40.1	20.9	52.1	21.3	53.2	172.6	42.0
3	Russian thistle	77.2	36.7	47.5	8.5	11.0	48.8	37.2
4	Redroot pigweed	76.9	34.8	45.3	5.6	7.3	21.6	32.7
5	Wild buckwheat	74.1	26.8	36.1	3.9	5.3	21.0	26.7
6	Lamb's-quarters	55.1	14.7	26.7	1.9	3.4	24.0	16.3
7	Cow cockle	38.3	16.1	41.9	3.0	7.9	29.0	16.0
8	Kochia	36.0	11.0	30.6	2.3	6.4	26.6	12.6
9	Wild mustard	39.9	9.3	23.3	1.1	2.8	12.2	10.9
10	Flixweed	34.8	7.2	20.8	0.7	2.0	10.2	8.8
11	Barley	19.6	5.0	25.4	1.6	8.1	41.4	6.9
12	Wild oats	15.2	7.5	49.6	1.2	8.2	11.8	6.9
13	Rose species	16.0	4.3	26.7	0.8	5.0	18.2	5.1
14	Wheat	13.7	5.0	36.7	0.5	3.3	6.4	4.6
15	Prostrate knotweed	12.8	2.9	22.9	0.5	3.6	12.6	3.6
16	Perennial sow-thistle	12.6	2.8	22.0	0.3	2.6	4.6	3.4
17	Bluebur	14.6	0.7	5.0	< 0.1	0.2	0.2	2.4
18	Russian pigweed	5.2	2.9	55.0	0.3	5.2	5.2	2.3
19	Vetch species	8.6	1.0	11.1	0.2	2.1	3.4	1.8
20	Tumble mustard	3.5	1.8	50.0	0.1	4.0	4.0	1.4
21	Golden-bean	3.1	1.2	40.0	0.3	9.6	9.6	1.3
22	Field mint	6.0	0.3	5.0	0.1	1.0	1.0	1.0
23	Dock species	6.0	0.3	5.0	< 0.1	0.2	0.2	1.0
24	Pale smartweed	6.0	0.3	5.0	< 0.1	0.2	0.2	1.0
25	Lance-leaved psoralea	5.2	0.3	5.0	< 0.1	0.2	0.2	0.9
26	Northern bedstraw	3.4	0.2	5.0	0.2	4.8	4.8	0.8
27	Common pepper-grass	3.4	0.5	15.0	< 0.1	0.6	0.6	0.7
28	Goldenrod species	3.1	0.3	10.0	< 0.1	1.2	1.2	0.6
29	Field horsetail	3.4	0.2	5.0	< 0.1	1.0	1.0	0.6
30	Tumble pigweed	3.4	0.2	5.0	< 0.1	0.8	0.8	0.6
31	Thyme-leaved spurge	3.4	0.2	5.0	< 0.1	0.2	0.2	0.6
32	Sunflower species	3.3	0.2	5.0	< 0.1	0.2	0.2	0.5

Table 195. 1970s Oats in the Lake Manitoba Plain Ecoregion (32 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	91.1	70.6	77.5	79.5	87.3	838.4	106.2
2	Pale smartweed	78.5	30.5	38.9	12.2	15.5	178.8	33.1
3	Wild buckwheat	72.5	39.7	54.7	6.2	8.5	24.4	30.8
4	Canada thistle	50.6	12.2	24.0	2.2	4.4	15.2	13.8
5	Wild oats	35.2	14.1	40.2	3.2	9.2	26.8	13.2
6	Perennial sow-thistle	41.7	11.6	27.9	2.2	5.3	26.6	12.3
7	Lamb's-quarters	47.1	8.6	18.4	1.7	3.7	38.2	11.5
8	Wild mustard	39.3	9.7	24.7	1.7	4.2	30.8	10.7
9	Quack grass	23.6	9.4	39.9	2.8	11.9	26.8	9.4
10	Redroot pigweed	30.1	3.2	10.5	0.3	0.9	3.8	5.8
11	Witch grass	8.5	4.2	49.2	1.6	19.3	50.2	4.2
12	Flax	9.3	3.3	35.9	1.8	19.4	59.0	4.1
13	Field horsetail	12.3	3.7	29.8	0.9	7.1	18.2	3.9
14	Stinkweed	15.6	3.3	21.2	0.4	2.8	9.2	3.9
15	Barnyard grass	14.2	3.3	23.4	0.6	4.5	14.6	3.8
16	Barley	12.0	3.1	26.0	0.2	1.8	4.2	3.1
17	Dog mustard	12.4	2.6	21.2	0.1	1.1	2.0	2.9
18	Night-flowering catchfly	8.0	3.3	40.6	0.2	3.0	5.0	2.6
19	Cow cockle	9.5	2.8	30.0	0.1	1.4	1.4	2.6
20	Prostrate pigweed	6.2	3.4	54.6	0.3	5.7	10.0	2.5
21	Russian thistle	12.9	1.3	9.9	0.1	0.6	1.6	2.4
22	Wheat	3.3	2.9	90.0	0.5	16.8	16.8	2.1
23	Common ragweed	3.0	1.7	55.0	0.5	16.0	16.0	1.5
24	Prostrate knotweed	7.6	0.7	8.8	< 0.1	0.4	0.6	1.4
25	Yellow sweet-clover	6.0	1.1	17.5	0.1	1.1	2.0	1.3
26	Bladder campion	2.9	1.6	55.0	0.2	5.2	5.2	1.2
27	Showy milkweed	5.9	0.6	9.9	0.1	0.9	1.6	1.1
28	Kochia	2.9	1.3	45.0	0.2	6.4	6.4	1.1
29	Rose species	5.9	0.3	5.0	< 0.1	0.2	0.2	1.0
30	Thyme-leaved spurge	2.9	1.0	35.0	0.1	4.4	4.4	0.9
31	Bluebur	2.9	1.0	35.0	0.1	2.0	2.0	0.9
32	Clover species	3.9	0.5	13.3	0.1	1.8	1.8	0.8
33	Sunflower species	2.9	0.4	15.0	< 0.1	0.8	0.8	0.6
34	Water smartweed	3.0	0.3	10.0	< 0.1	1.4	1.4	0.6
35	Biennial wormwood	3.0	0.3	10.0	< 0.1	0.4	0.4	0.6
36	Narrow-leaved hawk's-beard	2.9	0.3	10.0	< 0.1	0.4	0.4	0.5
37	Dandelion	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
38	Flixweed	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
39	White mustard	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5
40	Broad-leaved plantain	0.9	0.3	40.0	0.2	25.6	25.6	0.4

**Field Survey Summary Tables – 1970s Oats**

Table 196. 1970s Oats in the Interlake Plain Ecoregion (16 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	41.3	27.9	67.7	129.3	313.1	772.4	83.4
2	Wild buckwheat	72.3	38.8	53.6	11.1	15.3	53.4	27.2
3	Lamb's-quarters	51.8	20.7	40.0	7.5	14.6	77.8	16.8
4	Wild mustard	59.1	14.8	25.1	8.1	13.7	262.6	15.8
5	Pale smartweed	60.2	20.0	33.3	3.4	5.6	28.8	15.3
6	Redroot pigweed	41.1	17.7	43.1	8.4	20.4	65.6	15.0
7	Canada thistle	77.0	15.7	20.3	2.3	3.0	16.0	14.9
8	Perennial sow-thistle	68.4	14.9	21.8	1.2	1.7	6.0	13.2
9	Wild oats	52.6	16.9	32.2	2.9	5.6	26.0	13.1
10	Field horsetail	31.1	17.7	57.1	3.5	11.3	23.4	11.4
11	Quack grass	47.1	13.1	27.8	2.3	4.8	32.6	10.8
12	Stinkweed	37.2	8.3	22.3	0.7	1.8	7.8	7.2
13	Barley	20.6	12.0	58.3	1.1	5.3	9.4	7.0
14	Cow cockle	21.7	7.1	32.8	0.9	3.9	12.6	5.3
15	Povertyweed	12.0	7.8	65.0	0.8	7.0	7.0	4.4
16	Wheat	24.0	3.6	15.0	0.3	1.2	2.2	4.0
17	Bluebur	21.7	4.0	18.4	0.4	1.7	7.0	3.9
18	Bladder campion	24.0	3.0	12.5	0.1	0.5	0.8	3.7
19	Dog mustard	19.1	2.3	11.9	0.1	0.5	0.6	2.9
20	Yellow sweet-clover	11.0	2.9	26.7	1.1	9.7	12.2	2.8
21	Vetch species	14.2	2.8	20.0	0.2	1.1	2.0	2.6
22	White cockle	12.0	1.2	10.0	< 0.1	0.4	0.4	1.7
23	Flax	12.0	1.2	10.0	< 0.1	0.4	0.4	1.7
24	Tartary buckwheat	7.1	2.1	30.0	0.2	3.2	3.2	1.6
25	Round-leaved mallow	8.6	1.7	20.0	0.1	1.2	1.2	1.6
26	Prostrate knotweed	7.3	1.8	25.0	0.1	2.0	4.8	1.5
27	Black medick	9.5	0.8	8.7	0.1	1.1	1.4	1.4
28	American dragonhead	9.5	0.6	6.3	0.1	0.6	0.6	1.3
29	Barnyard grass	7.1	1.1	15.0	0.2	2.8	2.8	1.2
30	Pasture sage	8.6	0.4	5.0	< 0.1	0.2	0.2	1.1
31	Bicknell's geranium	7.1	0.4	5.0	< 0.1	0.2	0.2	0.9
32	Shepherd's-purse	7.1	0.4	5.0	< 0.1	0.2	0.2	0.9
33	Dandelion	4.9	0.5	10.0	< 0.1	0.4	0.4	0.7
34	Yellow cress species	2.4	0.9	35.0	0.1	4.0	4.0	0.6
35	Rough cinquefoil	2.4	0.9	35.0	0.1	3.8	3.8	0.6
36	Thyme-leaved spurge	2.4	0.7	30.0	0.1	2.2	2.2	0.5
37	Flixweed	2.4	0.5	20.0	< 0.1	2.0	2.0	0.5
38	Canola/rapeseed	2.4	0.5	20.0	< 0.1	1.0	1.0	0.4
39	Broad-leaved plantain	2.4	0.2	10.0	< 0.1	1.2	1.2	0.4
40	Maple-leaved goosefoot	2.4	0.1	5.0	< 0.1	0.2	0.2	0.3
41	Rose species	2.4	0.1	5.0	< 0.1	0.2	0.2	0.3

Table 197. 1970s Canola/rapeseed (461 fields, SK and MB only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	75.3	30.7	40.8	8.2	10.9	176.2	39.6
2	Green foxtail	45.7	21.7	47.5	11.0	24.1	417.0	37.1
3	Lamb's-quarters	61.1	25.4	41.5	6.6	10.7	194.2	32.2
4	Stinkweed	58.5	22.0	37.6	5.9	10.2	188.2	29.1
5	Wild buckwheat	60.2	17.8	29.6	2.2	3.7	94.2	20.3
6	Wild mustard	32.3	10.0	31.0	1.5	4.6	62.8	11.6
7	Perennial sow-thistle	42.7	8.8	20.6	1.0	2.2	41.6	11.5
8	Pale smartweed	27.3	9.1	33.4	1.7	6.2	82.8	11.0
9	Shepherd's-purse	24.2	7.4	30.6	2.1	8.7	128.0	10.6
10	Canada thistle	39.3	7.7	19.6	0.9	2.3	39.8	10.4
11	Bluebur	28.7	8.3	28.9	1.1	3.8	45.0	9.7
12	Field horsetail	19.5	5.2	26.9	1.5	7.9	75.6	7.9
13	Narrow-leaved hawk's-beard	13.2	4.1	30.7	1.1	8.0	218.6	5.6
14	Russian thistle	14.9	3.7	25.0	0.5	3.6	40.6	4.7
15	Redroot pigweed	18.0	3.4	19.0	0.3	1.8	11.6	4.6
16	Night-flowering catchfly	13.0	3.5	26.7	0.4	3.1	20.2	4.1
17	Wheat	12.4	3.3	26.8	0.3	2.8	24.4	3.8
18	Hemp-nettle	10.0	2.7	27.0	0.5	4.7	41.0	3.4
19	Barley	9.1	3.2	35.3	0.4	4.4	24.8	3.4
20	Quack grass	8.8	2.2	25.0	0.5	5.9	32.2	3.2
21	Common groundsel	7.2	2.1	29.1	0.6	8.9	185.0	3.1
22	Flixweed	12.3	2.0	16.1	0.2	1.7	14.8	2.9
23	Cow cockle	9.5	1.8	18.9	0.2	2.3	35.4	2.5
24	Flax	3.7	1.5	40.1	0.3	9.1	37.8	1.8
25	Chickweed	5.3	1.1	20.1	0.2	4.6	39.2	1.7
26	Dandelion	7.1	1.1	15.8	0.1	1.1	4.2	1.6
27	Ball mustard	4.2	1.2	28.6	0.2	5.1	28.0	1.5
28	Cleavers	4.4	0.9	21.6	0.1	3.3	22.4	1.3
29	Prostrate knotweed	5.4	0.8	15.5	0.1	1.2	8.2	1.2
30	Dog mustard	2.1	1.0	50.2	0.2	11.1	37.8	1.2
31	Clover species	3.7	0.9	23.7	0.1	3.8	20.6	1.2
32	Biennial wormwood	4.0	0.9	22.2	0.1	2.3	9.8	1.1
33	Barnyard grass	3.9	0.6	15.7	0.1	3.1	25.8	1.0
34	Pineappleweed	3.7	0.5	14.2	0.1	2.2	19.8	0.9
35	Rose species	4.0	0.4	9.7	< 0.1	0.7	4.6	0.8
36	Vetch species	3.4	0.5	14.6	< 0.1	1.3	14.0	0.8
37	Alfalfa	2.1	0.5	25.5	0.1	3.8	29.0	0.7
38	Yellow sweet-clover	2.1	0.6	27.7	< 0.1	2.1	5.0	0.6
39	Wormseed mustard	2.3	0.5	21.4	< 0.1	1.9	9.2	0.6
40	Persian darnel	1.4	0.3	21.7	0.1	8.6	26.0	0.5
41	Broad-leaved plantain	2.2	0.3	15.6	< 0.1	1.9	5.8	0.5
42	Canada fleabane	0.8	0.2	30.7	0.2	19.7	60.8	0.5
43	Corn spurry	2.0	0.3	15.6	< 0.1	2.4	6.6	0.5
44	Spear-leaved goosefoot	2.2	0.3	12.6	< 0.1	0.7	2.6	0.5
45	Common pepper-grass	1.8	0.3	14.5	< 0.1	1.4	6.4	0.4
46	Wild tomato	1.8	0.2	11.4	< 0.1	0.9	5.4	0.4
47	Kochia	1.1	0.2	18.0	0.1	5.2	22.2	0.3
48	Stork's-bill	1.8	0.2	10.2	< 0.1	0.5	0.6	0.3
49	Round-leaved mallow	1.7	0.2	9.9	< 0.1	0.7	2.4	0.3
50	Prostrate pigweed	0.8	0.3	34.6	< 0.1	3.6	11.6	0.3
51	Black medick	1.1	0.2	17.8	< 0.1	2.7	12.4	0.3
52	Scentsless chamomile	1.1	0.1	12.3	< 0.1	2.5	8.4	0.3
53	Purslane	0.6	0.2	27.5	< 0.1	4.0	12.6	0.2
54	Prickly lettuce	1.0	0.1	10.9	< 0.1	0.8	1.4	0.2

(Table continued on next page)

**Field Survey Summary Tables – 1970s Canola/rapeseed**

Table 197. 1970s Canola/rapeseed (461 fields, SK and MB only) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Thyme-leaved spurge	0.9	0.1	15.6	< 0.1	0.7	1.4	0.2
56	Canola/rapeseed	0.6	0.2	26.4	< 0.1	3.1	8.4	0.2
57	American dragonhead	0.8	0.1	15.1	< 0.1	0.9	4.8	0.2
58	Wild parsnip	0.3	0.2	65.0	< 0.1	11.2	11.2	0.2
59	Tartary buckwheat	0.6	0.1	23.5	< 0.1	1.6	3.0	0.2
60	Northern bedstraw	0.9	0.1	6.2	< 0.1	0.8	2.4	0.2
61	Milk-vetch species	0.9	0.1	6.2	< 0.1	0.5	0.8	0.1
62	Russian pigweed	0.9	< 0.1	5.0	< 0.1	0.3	0.6	0.1
63	Hoary cress species	0.4	0.2	41.7	< 0.1	3.5	6.4	0.1
64	Showy milkweed	0.7	0.1	7.5	< 0.1	1.2	3.0	0.1
65	White cockle	0.3	0.2	45.0	< 0.1	4.4	4.4	0.1
66	Water smartweed	0.7	0.1	12.3	< 0.1	0.6	1.4	0.1
67	Bicknell's geranium	0.8	0.1	6.8	< 0.1	0.3	1.6	0.1
68	Povertyweed	0.4	< 0.1	12.2	< 0.1	7.8	14.4	0.1
69	Common ragweed	0.7	< 0.1	6.3	< 0.1	0.3	0.4	0.1
70	Large crab grass	0.2	0.1	60.0	< 0.1	7.8	7.8	0.1
71	Dock species	0.7	< 0.1	5.0	< 0.1	0.5	1.0	0.1
72	Goat's-beard	0.5	0.1	12.2	< 0.1	0.8	1.2	0.1
73	Oats	0.5	0.1	14.1	< 0.1	1.0	1.4	0.1
74	Redtop	0.5	< 0.1	7.2	< 0.1	0.8	1.2	0.1
75	Spiny annual sow-thistle	0.2	0.1	45.0	< 0.1	3.0	3.0	0.1
76	Sunflower species	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
77	False ragweed	0.4	0.1	15.0	< 0.1	0.9	1.2	0.1
78	Field bindweed	0.4	0.1	14.2	< 0.1	0.8	1.6	0.1
79	Wood whitlow-grass	0.3	< 0.1	15.0	< 0.1	2.8	2.8	0.1
80	Manitoba maple	0.3	< 0.1	9.7	< 0.1	0.5	0.8	0.1
81	Cocklebur	0.2	0.1	35.0	< 0.1	1.8	1.8	0.1
82	Oak-leaved goosefoot	0.2	0.1	25.0	< 0.1	1.4	1.4	0.1
83	Smooth brome	0.2	< 0.1	25.0	< 0.1	3.8	3.8	0.1
84	Nightshade species	0.2	< 0.1	15.0	< 0.1	1.2	1.2	0.1
85	Western snowberry	0.3	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
86	Goldenrod species	0.2	< 0.1	20.0	< 0.1	1.2	1.2	< 0.1
87	Pasture sage	0.2	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
88	Poplar species	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
89	Tall buttercup	0.2	< 0.1	15.0	< 0.1	1.0	1.0	< 0.1
90	Golden corydalis	0.2	< 0.1	15.0	< 0.1	0.6	0.6	< 0.1
91	Willowherb species	0.2	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
92	Skeletonweed	0.2	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
93	Yellow foxtail	0.2	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
94	Maple-leaved goosefoot	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
95	Diffuse knapweed	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
96	Blue lettuce	0.2	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
97	Rough cinquefoil	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
98	Pussytoes species	0.2	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
99	Small alyssum	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
100	Henbit	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
101	Foxtail barley	< 0.1	< 0.1	20.0	< 0.1	1.0	1.0	< 0.1
102	Meadow rue species	< 0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
103	Spreading dogbane	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
104	Giant ragweed	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1



Table 198. 1970s Canola/rapeseed in the Boreal Transition Ecoregion (158 fields, SK and MB only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Lamb's-quarters	73.7	38.9	52.8	9.9	13.4	194.2	41.4
2	Wild oats	75.4	31.6	41.8	8.9	11.8	176.2	37.1
3	Stinkweed	67.1	25.4	37.8	6.1	9.2	188.2	28.9
4	Shepherd's-purse	39.1	14.4	36.7	4.7	12.1	128.0	18.6
5	Wild buckwheat	55.0	17.0	31.0	2.7	4.8	94.2	18.2
6	Field horsetail	43.5	12.3	28.4	3.8	8.8	75.6	16.8
7	Green foxtail	20.9	9.7	46.5	5.2	24.8	188.4	15.3
8	Pale smartweed	37.4	12.8	34.1	2.1	5.6	39.2	13.3
9	Bluebur	41.5	12.0	29.0	1.8	4.2	45.0	13.0
10	Perennial sow-thistle	44.2	9.1	20.6	1.1	2.6	36.2	11.1
11	Narrow-leaved hawk's-beard	22.9	7.0	30.4	2.3	10.2	218.6	9.6
12	Wild mustard	25.0	9.8	39.0	1.4	5.7	38.2	9.4
13	Canada thistle	33.4	7.4	22.2	0.9	2.6	39.8	8.6
14	Common groundsel	16.7	5.0	29.6	1.6	9.5	185.0	6.8
15	Hemp-nettle	16.6	4.9	29.3	1.0	6.0	41.0	5.7
16	Night-flowering catchfly	12.0	4.2	35.2	0.5	4.5	20.2	4.1
17	Barley	10.3	3.9	38.1	0.5	5.3	24.8	3.8
18	Chickweed	11.7	2.6	21.9	0.6	5.1	39.2	3.5
19	Redroot pigweed	11.6	2.1	18.1	0.2	1.9	8.4	2.7
20	Dandelion	11.4	1.8	16.0	0.1	0.9	2.4	2.3
21	Wheat	9.8	2.0	20.4	0.2	1.8	11.0	2.3
22	Clover species	7.1	1.7	24.2	0.3	3.8	20.6	2.0
23	Cleavers	7.1	1.7	24.2	0.2	3.2	14.4	2.0
24	Quack grass	7.3	1.5	21.3	0.2	3.1	14.2	1.9
25	Flixweed	8.1	1.3	15.5	0.1	1.8	9.0	1.8
26	Pineappleweed	6.8	0.9	13.7	0.1	1.5	5.0	1.4
27	Ball mustard	3.4	1.3	36.6	0.3	8.0	28.0	1.4
28	Cow cockle	5.3	1.1	20.6	0.1	1.5	7.0	1.2
29	Biennial wormwood	4.9	1.0	20.9	0.1	2.3	9.8	1.2
30	Prostrate knotweed	5.4	1.0	17.7	0.1	1.1	4.4	1.2
31	Broad-leaved plantain	4.6	0.9	18.9	0.1	2.4	5.8	1.1
32	Canada fleabane	1.2	0.6	51.9	0.4	35.8	60.8	1.1
33	Russian thistle	4.2	0.8	19.1	0.1	3.3	15.6	1.1
34	Alfalfa	2.7	1.1	39.9	0.2	6.8	29.0	1.1
35	Corn spurry	4.4	0.6	13.9	0.1	2.7	6.6	1.0
36	Wormseed mustard	2.3	0.8	34.9	0.1	3.8	9.2	0.7
37	Vetch species	4.0	0.5	11.3	< 0.1	0.7	1.2	0.7
38	Barnyard grass	2.4	0.5	19.8	0.1	3.7	5.8	0.6
39	Scentless chamomile	2.4	0.3	13.9	0.1	3.0	8.4	0.6
40	Stork's-bill	3.2	0.3	9.1	< 0.1	0.4	0.4	0.5
41	Canola/rapeseed	1.2	0.4	31.3	< 0.1	3.9	8.4	0.4
42	White cockle	0.9	0.4	45.0	< 0.1	4.4	4.4	0.3
43	Round-leaved mallow	1.4	0.2	15.2	< 0.1	1.6	2.4	0.3
44	Oats	1.3	0.2	14.1	< 0.1	1.0	1.4	0.2
45	Common pepper-grass	0.6	0.3	45.0	< 0.1	6.4	6.4	0.2
46	Yellow sweet-clover	1.4	0.1	9.1	< 0.1	0.7	1.0	0.2
47	Hoary cress species	0.5	0.3	65.0	< 0.1	6.4	6.4	0.2
48	Redtop	1.3	0.1	7.2	< 0.1	0.8	1.2	0.2
49	Spear-leaved goosefoot	1.3	0.1	7.4	< 0.1	0.4	0.6	0.2
50	Bicknell's geranium	1.4	0.1	5.0	< 0.1	0.3	0.4	0.2
51	Northern bedstraw	1.4	0.1	5.0	< 0.1	0.3	0.4	0.2
52	Rose species	1.4	0.1	5.0	< 0.1	0.3	0.4	0.2
53	Flax	0.9	0.1	10.0	< 0.1	0.8	0.8	0.2
54	Tartary buckwheat	0.6	0.1	25.0	< 0.1	1.2	1.2	0.1

(Table continued on next page)

**Field Survey Summary Tables – 1970s Canola/rapeseed**

Table 198. 1970s Canola/rapeseed in the Boreal Transition Ecoregion (158 fields, SK and MB only) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Smooth brome	0.5	0.1	25.0	< 0.1	3.8	3.8	0.1
56	Nightshade species	0.6	0.1	15.0	< 0.1	1.2	1.2	0.1
57	Western snowberry	0.7	0.1	10.0	< 0.1	0.8	0.8	0.1
58	Goldenrod species	0.5	0.1	20.0	< 0.1	1.2	1.2	0.1
59	Milk-vetch species	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.1
60	Purslane	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
61	Poplar species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
62	Tall buttercup	0.5	0.1	15.0	< 0.1	1.0	1.0	0.1
63	Dock species	0.6	< 0.1	5.0	< 0.1	1.0	1.0	0.1
64	Golden corydalis	0.5	0.1	15.0	< 0.1	0.6	0.6	0.1
65	Willowherb species	0.6	< 0.1	5.0	< 0.1	0.6	0.6	0.1
66	Prickly lettuce	0.5	< 0.1	5.0	< 0.1	1.4	1.4	0.1
67	Blue lettuce	0.5	< 0.1	5.0	< 0.1	0.4	0.4	0.1
68	Rough cinquefoil	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Henbit	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 199. 1970s Canola/rapeseed in the Aspen Parkland Ecoregion (214 fields, SK and MB only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	59.8	28.8	48.1	16.1	26.9	417.0	54.5
2	Wild oats	75.2	32.4	43.1	8.3	11.0	113.8	42.5
3	Stinkweed	57.9	21.7	37.4	5.6	9.7	125.0	29.7
4	Lamb's-quarters	55.3	19.9	36.0	4.9	8.8	153.6	26.9
5	Wild buckwheat	65.6	18.6	28.4	2.0	3.0	32.6	21.9
6	Perennial sow-thistle	45.4	9.5	21.0	1.0	2.2	41.6	12.9
7	Canada thistle	42.6	8.2	19.3	1.0	2.3	19.2	11.8
8	Wild mustard	30.1	9.1	30.2	1.5	5.0	62.8	11.5
9	Bluebur	26.3	7.8	29.7	0.9	3.4	26.2	9.2
10	Russian thistle	24.3	6.3	25.9	0.9	3.8	40.6	8.2
11	Shepherd's-purse	20.1	4.4	22.1	0.8	3.8	27.4	6.4
12	Wheat	13.7	4.4	32.4	0.5	3.7	24.4	5.0
13	Redroot pigweed	17.8	3.3	18.4	0.3	1.9	10.2	4.7
14	Night-flowering catchfly	15.3	3.2	21.0	0.4	2.3	14.6	4.4
15	Quack grass	9.1	2.7	29.7	0.7	8.2	32.2	4.1
16	Cow cockle	13.2	2.6	19.6	0.4	2.7	35.4	3.8
17	Barley	9.7	3.4	35.0	0.4	4.0	18.6	3.8
18	Pale smartweed	15.4	2.2	14.5	0.2	1.1	12.4	3.5
19	Narrow-leaved hawk's-beard	9.5	3.0	31.9	0.4	4.1	28.4	3.5
20	Flixweed	14.6	2.2	14.8	0.2	1.6	14.8	3.5
21	Flax	5.1	2.5	49.1	0.5	10.1	27.6	2.9
22	Ball mustard	6.3	1.6	25.2	0.2	3.8	25.2	2.1
23	Hemp-nettle	6.5	1.5	23.2	0.1	2.3	9.4	1.9
24	Dog mustard	3.0	1.5	48.8	0.3	10.3	37.8	1.8
25	Prostrate knotweed	6.5	1.0	15.5	0.1	1.5	8.2	1.6
26	Field horsetail	6.1	0.8	12.8	0.1	2.1	7.4	1.5
27	Rose species	5.7	0.5	8.9	< 0.1	0.6	1.8	1.1
28	Dandelion	4.4	0.8	17.3	0.1	1.3	3.0	1.1
29	Common groundsel	2.3	0.6	26.0	0.1	5.5	25.6	0.9

*(Table continued on next page)*

Table 199. 1970s Canola/rapeseed in the Aspen Parkland Ecoregion (214 fields, SK and MB only) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
30	Barnyard grass	2.0	0.4	22.2	0.2	8.5	25.8	0.8
31	Persian darnel	1.0	0.4	39.8	0.2	23.8	26.0	0.8
32	Wild tomato	3.5	0.4	12.1	< 0.1	1.0	5.4	0.7
33	Yellow sweet-clover	2.3	0.7	28.7	< 0.1	1.8	3.2	0.7
34	Biennial wormwood	2.3	0.6	25.3	0.1	2.4	5.4	0.7
35	Black medick	2.4	0.4	17.8	0.1	2.7	12.4	0.7
36	Wormseed mustard	2.7	0.4	15.2	< 0.1	1.0	2.4	0.6
37	Pineappleweed	2.2	0.2	10.5	0.1	3.8	19.8	0.6
38	Cleavers	2.9	0.3	9.3	< 0.1	0.8	1.6	0.6
39	Spear-leaved goosefoot	2.1	0.4	17.6	< 0.1	1.1	2.6	0.5
40	Chickweed	1.7	0.3	15.2	0.1	3.2	4.8	0.5
41	Wild parsnip	0.6	0.4	65.0	0.1	11.2	11.2	0.4
42	Alfalfa	1.6	0.2	15.3	< 0.1	1.5	3.6	0.4
43	Vetch species	2.2	0.1	5.0	< 0.1	0.3	0.4	0.4
44	Common pepper-grass	2.0	0.1	7.1	< 0.1	0.6	1.2	0.4
45	Povertyweed	0.8	0.1	12.2	0.1	7.8	14.4	0.3
46	Large crab grass	0.5	0.3	60.0	< 0.1	7.8	7.8	0.3
47	Stork's-bill	1.2	0.2	13.2	< 0.1	0.6	0.6	0.3
48	Milk-vetch species	1.3	0.1	6.7	< 0.1	0.5	0.8	0.2
49	Clover species	1.3	0.1	6.6	< 0.1	0.5	1.0	0.2
50	Water smartweed	1.1	0.1	7.6	< 0.1	0.3	0.4	0.2
51	American dragonhead	0.8	0.2	20.0	< 0.1	1.0	1.2	0.2
52	False ragweed	0.8	0.1	15.0	< 0.1	0.9	1.2	0.2
53	Northern bedstraw	0.9	0.1	7.6	< 0.1	1.4	2.4	0.2
54	Round-leaved mallow	1.0	0.1	7.9	< 0.1	0.3	0.4	0.2
55	Russian pigweed	1.0	0.1	5.0	< 0.1	0.4	0.6	0.2
56	Wood whitlow-grass	0.6	0.1	15.0	< 0.1	2.8	2.8	0.2
57	Manitoba maple	0.8	0.1	9.7	< 0.1	0.5	0.8	0.1
58	Broad-leaved plantain	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
59	Kochia	0.6	0.1	15.0	< 0.1	1.8	1.8	0.1
60	Oak-leaved goosefoot	0.5	0.1	25.0	< 0.1	1.4	1.4	0.1
61	Canada fleabane	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
62	Common ragweed	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
63	Hoary cress species	0.4	0.1	20.0	< 0.1	0.8	0.8	0.1
64	Field bindweed	0.4	0.1	25.0	< 0.1	1.6	1.6	0.1
65	Showy milkweed	0.4	< 0.1	10.0	< 0.1	3.0	3.0	0.1
66	Goat's-beard	0.6	< 0.1	5.0	< 0.1	0.4	0.4	0.1
67	Pasture sage	0.5	< 0.1	10.0	< 0.1	0.4	0.4	0.1
68	Sunflower species	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Tartary buckwheat	0.4	0.1	15.0	< 0.1	0.6	0.6	0.1
70	Prickly lettuce	0.4	< 0.1	10.0	< 0.1	1.0	1.0	0.1
71	Skeletonweed	0.5	< 0.1	5.0	< 0.1	0.8	0.8	0.1
72	Dock species	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
73	Maple-leaved goosefoot	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
74	Diffuse knapweed	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
75	Pussytoes species	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
76	Small alyssum	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
77	Scentsless chamomile	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1

**Field Survey Summary Tables – 1970s Canola/rapeseed**

Table 200. 1970s Canola/rapeseed in the Moist Mixed Grassland Ecoregion (31 fields, SK only)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	75.8	33.5	44.2	15.7	20.8	143.8	60.6
2	Green foxtail	54.1	27.6	50.9	8.1	15.0	56.8	38.8
3	Wild oats	79.9	23.8	29.8	6.3	7.8	80.2	36.6
4	Lamb's-quarters	53.8	12.8	23.9	8.5	15.8	156.2	31.8
5	Wild buckwheat	70.5	23.8	33.8	2.9	4.2	31.0	28.4
6	Russian thistle	28.6	7.9	27.5	1.1	3.7	16.2	10.3
7	Flixweed	34.0	7.4	21.6	0.6	1.9	6.4	9.9
8	Perennial sow-thistle	31.3	8.0	25.5	0.5	1.5	4.2	9.6
9	Redroot pigweed	25.9	7.2	27.9	0.7	2.6	11.6	8.8
10	Canada thistle	32.7	3.9	11.9	0.2	0.7	2.8	7.1
11	Cow cockle	18.3	2.1	11.6	0.3	1.4	4.4	4.2
12	Kochia	9.8	1.8	18.5	0.8	7.7	22.2	3.9
13	Bluebur	14.0	2.8	20.0	0.2	1.3	4.2	3.8
14	Wild mustard	19.5	1.6	8.0	0.1	0.4	0.6	3.7
15	Vetch species	6.6	3.4	51.9	0.4	6.7	14.0	3.6
16	Wheat	9.8	3.3	33.2	0.2	1.8	4.0	3.4
17	Rose species	13.1	1.9	14.5	0.2	1.4	4.6	3.2
18	Persian darnel	13.4	1.7	12.7	0.1	1.1	3.2	3.1
19	Clover species	2.8	2.7	95.0	0.6	20.0	20.0	3.0
20	Common pepper-grass	10.1	1.4	14.3	0.1	0.9	2.2	2.4
21	Narrow-leaved hawk's-beard	6.6	1.7	26.0	0.2	3.4	5.8	2.3
22	Spear-leaved goosefoot	10.5	1.1	10.0	< 0.1	0.5	0.8	2.1
23	Barley	7.0	1.6	22.5	0.2	2.2	4.2	2.1
24	Biennial wormwood	10.8	0.9	8.7	< 0.1	0.4	0.6	2.1
25	Prickly lettuce	7.2	1.1	15.3	< 0.1	0.6	1.0	1.7
26	Prostrate pigweed	6.3	0.8	12.2	0.1	1.1	1.4	1.4
27	Barnyard grass	6.5	0.8	12.1	< 0.1	0.6	0.6	1.4
28	Dandelion	7.0	0.4	5.0	< 0.1	0.3	0.4	1.2
29	Pineappleweed	2.9	1.2	40.0	0.1	1.8	1.8	1.1
30	Night-flowering catchfly	6.6	0.3	5.0	< 0.1	0.2	0.2	1.1
31	Goat's-beard	3.5	0.7	20.0	< 0.1	1.2	1.2	0.9
32	Hemp-nettle	3.5	0.5	15.0	< 0.1	1.2	1.2	0.9
33	Corn spurry	3.1	0.6	20.0	< 0.1	1.4	1.4	0.8
34	Quack grass	3.5	0.5	15.0	< 0.1	0.8	0.8	0.8
35	Dock species	3.7	0.2	5.0	< 0.1	0.2	0.2	0.6
36	Sunflower species	3.7	0.2	5.0	< 0.1	0.2	0.2	0.6
37	Prostrate knotweed	3.5	0.2	5.0	< 0.1	0.2	0.2	0.6
38	Russian pigweed	3.5	0.2	5.0	< 0.1	0.2	0.2	0.6
39	Round-leaved mallow	2.9	0.3	10.0	< 0.1	0.4	0.4	0.6
40	American dragonhead	3.1	0.2	5.0	< 0.1	0.2	0.2	0.5

Table 201. 1970s Canola/rapeseed in the Lake Manitoba Plain Ecoregion (42 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	68.2	28.6	41.9	8.5	12.4	143.8	56.9
2	Pale smartweed	59.9	32.3	54.0	6.8	11.4	66.0	51.8
3	Wild mustard	72.9	21.3	29.2	2.7	3.6	50.2	32.8
4	Wild oats	70.7	19.6	27.8	2.0	2.9	22.0	29.2
5	Lamb's-quarters	43.7	10.3	23.7	1.3	2.9	22.0	17.2
6	Wild buckwheat	42.1	9.7	23.1	0.9	2.0	10.2	15.0
7	Canada thistle	43.6	7.3	16.7	0.9	2.1	17.2	14.1
8	Redroot pigweed	35.8	6.3	17.6	0.4	1.0	4.2	10.4
9	Perennial sow-thistle	28.5	4.5	15.6	0.3	1.0	3.6	7.9
10	Wheat	22.7	4.2	18.3	0.4	1.8	6.2	7.4
11	Dog mustard	6.5	4.2	65.0	1.0	15.7	33.0	7.0
12	Quack grass	14.5	3.3	23.0	0.7	4.9	18.2	6.7
13	Stinkweed	17.9	3.8	21.0	0.2	1.4	3.8	5.8
14	Prostrate pigweed	4.5	2.7	60.0	0.3	6.4	11.6	3.2
15	Purslane	4.4	1.9	43.1	0.3	6.6	12.6	2.8
16	Night-flowering catchfly	6.5	2.0	31.7	0.2	2.6	5.4	2.8
17	Flax	9.8	1.1	11.1	0.1	1.4	4.0	2.6
18	Thyme-leaved spurge	8.9	1.6	17.5	0.1	0.7	1.4	2.5
19	Field horsetail	4.3	1.4	32.5	0.2	5.7	11.0	2.3
20	Barnyard grass	11.1	0.7	6.0	< 0.1	0.4	1.0	2.2
21	Yellow sweet-clover	4.3	1.7	40.0	0.1	3.1	3.6	2.1
22	Barley	4.5	1.2	27.5	0.1	2.5	4.4	1.8
23	Showy milkweed	6.6	0.4	6.6	< 0.1	0.6	1.2	1.4
24	Bluebur	4.4	0.9	19.7	0.1	1.2	2.0	1.4
25	Round-leaved mallow	6.6	0.4	6.6	< 0.1	0.3	0.4	1.3
26	Tartary buckwheat	2.4	0.7	30.0	0.1	3.0	3.0	1.0
27	Cocklebur	2.2	0.8	35.0	< 0.1	1.8	1.8	0.9
28	Alfalfa	4.5	0.3	7.5	< 0.1	0.3	0.4	0.9
29	Common ragweed	4.4	0.3	7.5	< 0.1	0.3	0.4	0.9
30	Shepherd's-purse	2.2	0.7	30.0	< 0.1	1.8	1.8	0.9
31	Corn spurry	2.4	0.6	25.0	< 0.1	1.4	1.4	0.8
32	Water smartweed	2.2	0.5	25.0	< 0.1	1.4	1.4	0.7
33	Biennial wormwood	2.2	0.4	20.0	< 0.1	1.0	1.0	0.7
34	Kochia	2.2	0.4	20.0	< 0.1	0.8	0.8	0.6
35	Clover species	3.0	0.1	5.0	< 0.1	0.2	0.2	0.6
36	Dandelion	2.2	0.2	10.0	< 0.1	0.4	0.4	0.5
37	American dragonhead	2.2	0.2	10.0	< 0.1	0.4	0.4	0.5
38	Yellow foxtail	2.2	0.2	10.0	< 0.1	0.6	0.6	0.5
39	Field bindweed	2.2	0.1	5.0	< 0.1	0.2	0.2	0.4
40	Russian pigweed	2.2	0.1	5.0	< 0.1	0.2	0.2	0.4
41	Wild tomato	2.2	0.1	5.0	< 0.1	0.2	0.2	0.4
42	Vetch species	2.2	0.1	5.0	< 0.1	0.2	0.2	0.4

**Field Survey Summary Tables – 1970s Canola/rapeseed**

Table 202. 1970s Canola/rapeseed in the Interlake Plain Ecoregion (13 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	89.8	55.9	62.3	29.0	32.3	127.8	59.7
2	Pale smartweed	79.3	37.0	46.6	14.5	18.3	82.8	35.9
3	Green foxtail	64.0	31.2	48.7	12.4	19.4	61.4	30.2
4	Wild buckwheat	74.3	27.3	36.8	2.2	3.0	10.4	18.0
5	Wild mustard	94.8	19.9	21.0	2.0	2.1	7.0	17.4
6	Canada thistle	81.9	17.2	21.0	2.0	2.5	22.4	15.4
7	Flax	13.2	12.5	95.0	5.0	37.8	37.8	10.9
8	Lamb's-quarters	58.7	11.7	19.9	1.0	1.6	7.8	10.2
9	Field horsetail	20.5	13.1	63.8	3.1	15.0	21.8	9.6
10	Cleavers	26.1	11.0	42.1	2.9	11.3	22.4	9.3
11	Night-flowering catchfly	33.7	13.8	41.0	1.2	3.5	5.4	8.8
12	Perennial sow-thistle	57.0	8.4	14.8	0.5	1.0	4.6	8.6
13	Hemp-nettle	38.0	10.3	27.1	1.5	3.9	11.0	8.5
14	Barnyard grass	40.6	7.1	17.5	0.4	1.1	1.6	6.5
15	Redroot pigweed	38.7	6.6	17.1	0.6	1.7	2.8	6.4
16	Quack grass	27.7	4.3	15.5	2.0	7.1	12.0	6.2
17	Stinkweed	30.7	5.9	19.1	0.3	1.1	2.2	5.1
18	Biennial wormwood	12.2	7.9	65.0	1.1	9.0	9.0	4.9
19	Yellow sweet-clover	12.2	5.5	45.0	0.6	5.0	5.0	3.6
20	Shepherd's-purse	25.1	2.1	8.5	0.2	0.9	1.4	3.3
21	Spiny annual sow-thistle	12.2	5.5	45.0	0.4	3.0	3.0	3.3
22	Vetch species	14.8	2.0	13.2	0.1	0.5	0.6	2.1
23	Bicknell's geranium	14.8	1.5	10.3	0.1	0.4	1.6	1.9
24	Bluebur	2.6	1.2	45.0	1.0	39.8	39.8	1.8
25	Chickweed	15.8	0.8	5.0	0.1	0.4	0.4	1.8
26	Flixweed	10.2	1.4	13.8	0.1	0.8	1.2	1.5
27	Wormseed mustard	12.2	0.6	5.0	< 0.1	0.2	0.2	1.4
28	Canola/rapeseed	7.6	0.8	10.0	< 0.1	0.4	0.4	1.0
29	Broad-leaved plantain	7.6	0.4	5.0	0.1	1.0	1.0	0.9
30	Dog mustard	7.6	0.4	5.0	< 0.1	0.2	0.2	0.9
31	Thyme-leaved spurge	7.6	0.4	5.0	< 0.1	0.2	0.2	0.9
32	American dragonhead	2.6	1.2	45.0	0.1	4.8	4.8	0.8
33	Barley	2.6	0.8	30.0	< 0.1	1.6	1.6	0.5
34	Foxtail barley	2.6	0.5	20.0	< 0.1	1.0	1.0	0.4
35	Prostrate knotweed	2.6	0.3	10.0	< 0.1	0.6	0.6	0.3
36	Meadow rue species	2.6	0.3	10.0	< 0.1	0.6	0.6	0.3
37	Cow cockle	2.6	0.1	5.0	< 0.1	0.2	0.2	0.3
38	Dandelion	2.6	0.1	5.0	< 0.1	0.2	0.2	0.3
39	Spreading dogbane	2.6	0.1	5.0	< 0.1	0.2	0.2	0.3
40	Spear-leaved goosefoot	2.6	0.1	5.0	< 0.1	0.2	0.2	0.3
41	Giant ragweed	2.6	0.1	5.0	< 0.1	0.2	0.2	0.3
42	Stork's-bill	2.6	0.1	5.0	< 0.1	0.2	0.2	0.3

Table 203. 1970s Flax (235 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	73.4	46.7	63.6	61.1	83.2	1459.8	94.0
2	Wild oats	77.5	30.5	39.3	10.4	13.4	351.8	34.5
3	Wild buckwheat	76.8	27.1	35.3	3.2	4.2	161.6	25.4
4	Redroot pigweed	48.4	13.3	27.4	1.7	3.4	36.6	13.9
5	Pale smartweed	37.4	12.6	33.8	3.3	8.7	185.0	13.9
6	Wild mustard	51.4	12.1	23.5	1.7	3.4	76.0	13.9
7	Lamb's-quarters	41.2	9.7	23.5	1.2	2.8	28.0	10.9
8	Perennial sow-thistle	37.4	8.0	21.4	1.3	3.5	104.0	9.8
9	Canada thistle	42.0	7.3	17.4	0.8	1.9	24.8	9.6
10	Stinkweed	29.7	6.6	22.1	0.9	3.1	27.6	7.8
11	Wheat	21.6	5.9	27.4	1.0	4.8	61.4	6.5
12	Russian thistle	22.7	6.0	26.3	0.8	3.7	34.6	6.5
13	Quack grass	15.1	3.9	25.6	2.0	13.1	300.8	5.8
14	Night-flowering catchfly	13.6	4.2	31.1	0.7	5.0	25.6	4.4
15	Barnyard grass	10.0	3.0	30.5	1.3	12.8	200.6	4.0
16	Barley	11.9	2.8	23.5	0.7	6.2	106.4	3.6
17	Cow cockle	11.2	2.7	24.4	0.4	3.5	29.8	3.1
18	Canola/rapeseed	8.6	1.8	20.6	0.2	2.3	10.4	2.1
19	Field horsetail	8.5	1.4	17.0	0.3	3.8	39.2	2.1
20	Thyme-leaved spurge	7.8	1.9	24.7	0.2	2.3	13.4	2.1
21	Shepherd's-purse	6.2	1.8	28.2	0.4	7.1	43.6	2.1
22	Flixweed	8.1	1.3	16.5	0.1	1.0	3.0	1.7
23	Dandelion	7.8	1.2	15.7	0.1	1.3	12.2	1.7
24	Bluebur	6.8	1.4	20.4	0.1	1.9	12.6	1.6
25	Prostrate knotweed	5.5	1.3	23.0	0.1	1.8	8.2	1.4
26	Biennial wormwood	5.2	0.8	16.3	0.1	1.6	10.4	1.1
27	Round-leaved mallow	4.3	1.0	22.8	0.1	2.3	10.6	1.1
28	Clover species	2.9	0.7	25.0	0.2	7.8	24.6	0.9
29	Prostrate pigweed	4.4	0.7	16.3	< 0.1	0.9	2.4	0.9
30	Hemp-nettle	4.8	0.4	7.7	< 0.1	0.6	1.8	0.8
31	Alfalfa	3.4	0.7	19.9	< 0.1	1.3	5.2	0.8
32	Purslane	2.9	0.5	17.6	0.1	2.0	7.6	0.7
33	Vetch species	2.3	0.6	24.4	0.1	2.4	7.4	0.6
34	Witch grass	2.5	0.5	20.0	< 0.1	1.3	10.2	0.6
35	Rose species	2.7	0.3	12.8	< 0.1	1.0	3.4	0.5
36	Dock species	1.8	0.4	22.1	< 0.1	2.5	6.4	0.5
37	Showy milkweed	2.5	0.2	9.8	< 0.1	1.0	2.4	0.5
38	Downy brome	0.4	0.4	85.0	0.2	49.0	49.0	0.4
39	Tartary buckwheat	1.2	0.4	37.1	< 0.1	3.7	6.4	0.4
40	Dog mustard	1.6	0.3	19.8	< 0.1	1.5	2.6	0.4
41	False ragweed	1.1	0.4	38.2	< 0.1	2.0	2.0	0.3
42	Field bindweed	0.6	0.3	45.0	0.1	20.2	20.2	0.3
43	Absinth	1.2	0.3	26.1	< 0.1	2.2	4.6	0.3
44	Common pepper-grass	1.0	0.3	32.2	< 0.1	3.2	4.6	0.3
45	Povertyweed	0.8	0.3	31.4	0.1	7.9	14.0	0.3
46	Ball mustard	1.6	0.1	8.8	< 0.1	0.5	0.8	0.3
47	Broad-leaved plantain	1.8	0.1	5.0	< 0.1	0.4	0.8	0.3
48	Persian darnel	1.4	0.2	11.4	< 0.1	0.6	2.4	0.3
49	Foxtail barley	1.6	0.1	8.1	< 0.1	0.4	0.8	0.3
50	Spear-leaved goosefoot	1.0	0.3	25.0	< 0.1	2.0	2.8	0.3
51	Corn spurry	0.8	0.2	27.5	< 0.1	2.8	5.2	0.2
52	White cockle	1.2	0.1	10.0	< 0.1	1.0	1.0	0.2
53	Wormseed mustard	0.9	0.2	25.2	< 0.1	1.2	1.6	0.2
54	Kochia	1.4	0.1	5.0	< 0.1	0.4	0.6	0.2

(Table continued on next page)

**Field Survey Summary Tables – 1970s Flax**

Table 203. 1970s Flax (235 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Chickweed	1.1	0.1	8.4	< 0.1	0.6	1.0	0.2
56	Water smartweed	0.8	0.1	17.5	< 0.1	3.7	5.8	0.2
57	Narrow-leaved hawk's-beard	1.1	0.1	7.8	< 0.1	0.4	0.6	0.2
58	Black medick	1.0	0.1	12.0	< 0.1	0.9	2.2	0.2
59	Wild tomato	0.8	0.1	15.6	< 0.1	1.0	1.8	0.2
60	Smooth brome	0.4	0.2	40.0	< 0.1	9.8	9.8	0.2
61	Giant ragweed	0.7	0.2	23.3	< 0.1	1.3	2.2	0.2
62	Field mint	0.8	0.1	12.6	< 0.1	0.9	1.0	0.2
63	Cocklebur	0.8	0.1	14.9	< 0.1	0.8	1.2	0.2
64	Yellow sweet-clover	0.8	0.1	7.3	< 0.1	0.4	0.6	0.1
65	Bicknell's geranium	0.8	0.1	6.8	< 0.1	0.3	0.4	0.1
66	American dragonhead	0.7	0.1	10.8	< 0.1	1.2	6.2	0.1
67	Pineappleweed	0.6	0.1	10.0	< 0.1	3.8	3.8	0.1
68	False flax species	0.4	0.1	30.0	< 0.1	2.4	2.4	0.1
69	Pygmyflower	0.4	0.1	20.0	< 0.1	1.8	1.8	0.1
70	Spreading dogbane	0.5	0.1	10.0	< 0.1	2.2	2.2	0.1
71	Leafy spurge	0.4	0.1	15.0	< 0.1	4.4	4.4	0.1
72	Ground-ivy	0.4	0.1	20.0	< 0.1	2.0	2.0	0.1
73	Scouring-rush	0.4	0.1	20.0	< 0.1	0.8	0.8	0.1
74	Rough cinquefoil	0.4	0.1	15.0	< 0.1	0.6	0.6	0.1
75	Canada fleabane	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
76	Sunflower species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
77	Tumble mustard	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
78	Common ragweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
79	Common burdock	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Field peas	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
81	Rye	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
82	Maple-leaved goosefoot	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
83	Poplar species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
84	Willow species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
85	Purslane speedwell	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
86	Cleavers	0.3	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
87	Scentless chamomile	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1



Table 204. 1970s Flax in the Boreal Transition Ecoregion (14 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	69.3	27.6	39.8	7.4	10.6	63.4	50.4
2	Green foxtail	25.3	19.0	75.1	4.9	19.5	36.4	31.2
3	Perennial sow-thistle	36.3	13.0	35.9	2.1	5.7	16.6	19.7
4	Pale smartweed	49.9	13.9	27.9	1.2	2.5	3.8	19.4
5	Field horsetail	35.1	9.7	27.6	2.5	7.2	39.2	19.1
6	Lamb's-quarters	59.3	7.3	12.3	1.6	2.8	19.0	18.0
7	Shepherd's-purse	26.7	8.3	31.3	2.8	10.5	31.2	17.9
8	Stinkweed	52.8	7.5	14.2	0.7	1.3	5.8	14.1
9	Wild buckwheat	40.5	7.5	18.5	0.9	2.3	13.0	13.3
10	Canola/rapeseed	39.8	5.4	13.6	0.9	2.4	7.4	11.9
11	Quack grass	12.3	6.2	50.5	2.0	15.8	31.4	11.9
12	Canada thistle	50.1	4.6	9.2	0.4	0.9	2.4	11.2
13	Wild mustard	44.2	5.9	13.3	0.4	0.9	2.4	11.0
14	Dandelion	30.7	5.7	18.5	0.3	1.1	3.4	8.9
15	Night-flowering catchfly	6.5	4.2	65.0	0.9	13.6	13.6	6.3
16	Redroot pigweed	18.8	4.1	21.6	0.4	2.0	3.0	6.3
17	Hemp-nettle	17.4	1.7	10.0	0.1	0.4	0.4	3.7
18	Vetch species	5.8	3.2	55.0	0.3	4.6	4.6	3.6
19	Bluebur	15.0	2.0	13.7	0.1	0.6	1.2	3.6
20	Alfalfa	13.8	2.1	15.6	0.1	0.8	1.4	3.6
21	Pineappleweed	8.9	0.9	10.0	0.3	3.8	3.8	2.9
22	Clover species	5.8	1.5	25.0	0.1	2.0	2.0	2.1
23	Rough cinquefoil	6.5	1.0	15.0	< 0.1	0.6	0.6	1.6
24	Barnyard grass	8.5	0.4	5.0	< 0.1	0.2	0.2	1.5
25	Barley	6.4	0.6	10.0	0.1	0.8	0.8	1.4
26	Broad-leaved plantain	6.5	0.3	5.0	0.1	0.8	0.8	1.3
27	Chickweed	5.8	0.3	5.0	< 0.1	0.2	0.2	1.0
28	Russian thistle	5.8	0.3	5.0	< 0.1	0.2	0.2	1.0
29	Poplar species	5.8	0.3	5.0	< 0.1	0.2	0.2	1.0
30	Willow species	5.8	0.3	5.0	< 0.1	0.2	0.2	1.0

**Field Survey Summary Tables – 1970s Flax**

Table 205. 1970s Flax in the Aspen Parkland Ecoregion (101 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	90.0	59.8	66.4	82.9	92.2	1459.8	110.0
2	Wild buckwheat	85.5	32.5	38.0	3.7	4.3	29.2	27.0
3	Wild oats	76.8	27.7	36.1	5.4	7.0	61.0	25.5
4	Redroot pigweed	47.3	13.5	28.6	1.9	4.0	36.6	13.0
5	Lamb's-quarters	48.6	12.0	24.6	1.5	3.1	28.0	12.2
6	Wild mustard	47.6	10.9	22.8	1.7	3.7	76.0	11.8
7	Perennial sow-thistle	42.5	9.1	21.4	1.9	4.5	104.0	10.7
8	Russian thistle	33.4	10.9	32.7	1.8	5.3	34.6	10.1
9	Canada thistle	46.8	8.6	18.4	1.0	2.1	24.8	10.1
10	Wheat	27.9	8.3	29.8	1.9	6.8	61.4	8.5
11	Pale smartweed	29.3	7.1	24.1	0.9	3.2	21.8	7.3
12	Stinkweed	31.2	6.5	20.8	0.8	2.5	27.6	7.2
13	Night-flowering catchfly	18.2	6.7	36.6	1.1	6.1	25.6	6.0
14	Quack grass	21.0	4.8	23.0	1.2	5.6	39.0	5.6
15	Barley	17.7	3.5	19.5	0.4	2.2	24.6	3.9
16	Bluebur	12.4	2.8	22.3	0.3	2.1	12.6	2.9
17	Shepherd's-purse	8.8	2.3	26.4	0.5	6.0	43.6	2.5
18	Round-leaved mallow	8.8	2.0	23.1	0.2	2.3	10.6	2.1
19	Barnyard grass	7.3	2.1	29.3	0.3	4.1	14.8	2.0
20	Biennial wormwood	8.6	1.5	16.8	0.2	1.8	10.4	1.8
21	Prostrate knotweed	6.1	1.8	29.5	0.2	2.8	8.2	1.6
22	Field horsetail	7.4	1.1	14.5	0.3	3.6	19.8	1.6
23	Flixweed	6.2	1.4	23.1	0.1	1.4	3.0	1.4
24	Canola/rapeseed	4.9	1.1	23.0	0.1	1.7	3.6	1.1
25	Prostrate pigweed	5.7	0.9	15.4	< 0.1	0.9	1.8	1.1
26	Dandelion	6.3	0.7	10.4	< 0.1	0.6	1.0	1.1
27	Clover species	3.8	0.8	22.2	0.3	6.7	20.8	1.0
28	Hemp-nettle	6.2	0.4	5.7	< 0.1	0.7	1.8	0.9
29	Alfalfa	4.2	0.7	16.3	< 0.1	0.8	2.0	0.8
30	Witch grass	4.5	0.4	9.5	< 0.1	0.6	0.8	0.8
31	Thyme-leaved spurge	3.0	0.3	11.4	< 0.1	0.5	1.2	0.5
32	Rose species	3.2	0.3	8.4	< 0.1	0.3	0.6	0.5
33	Wormseed mustard	2.0	0.5	25.2	< 0.1	1.2	1.6	0.5
34	Povertyweed	1.0	0.5	55.0	0.1	14.0	14.0	0.5
35	Dog mustard	1.9	0.4	19.7	< 0.1	1.1	1.6	0.4
36	Purslane	2.2	0.2	10.0	< 0.1	0.4	0.6	0.4
37	Black medick	2.0	0.2	12.8	< 0.1	1.0	2.2	0.4
38	Foxtail barley	2.5	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Smooth brome	1.0	0.4	40.0	0.1	9.8	9.8	0.4
40	Broad-leaved plantain	2.4	0.1	5.0	< 0.1	0.3	0.4	0.4
41	Cow cockle	2.0	0.2	9.9	< 0.1	0.6	1.0	0.3
42	Showy milkweed	2.0	0.2	7.8	< 0.1	0.7	1.0	0.3
43	Yellow sweet-clover	1.8	0.1	7.3	< 0.1	0.4	0.6	0.3
44	False ragweed	0.9	0.3	35.0	< 0.1	2.0	2.0	0.2
45	Wild tomato	1.0	0.2	25.0	< 0.1	1.8	1.8	0.2
46	False flax species	0.8	0.3	30.0	< 0.1	2.4	2.4	0.2
47	Dock species	0.9	0.3	30.0	< 0.1	1.2	1.2	0.2
48	Pygmyflower	1.0	0.2	20.0	< 0.1	1.8	1.8	0.2
49	Spreading dogbane	1.2	0.1	10.0	< 0.1	2.2	2.2	0.2
50	Ground-ivy	0.9	0.2	20.0	< 0.1	2.0	2.0	0.2
51	Cocklebur	0.8	0.2	20.0	< 0.1	1.2	1.2	0.2
52	Kochia	1.2	0.1	5.0	< 0.1	0.6	0.6	0.2
53	Chickweed	0.9	0.1	10.0	< 0.1	0.6	0.6	0.1
54	Sunflower species	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.1

(Table continued on next page)

Table 205. 1970s Flax in the Aspen Parkland Ecoregion (101 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
55	Tumble mustard	1.0	< 0.1	5.0	< 0.1	0.4	0.4	0.1
56	Bicknell's geranium	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.1
57	Field peas	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.1
58	Rye	0.8	< 0.1	5.0	< 0.1	0.4	0.4	0.1
59	Absinth	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
60	Purslane speedwell	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 206. 1970s Flax in the Moist Mixed Grassland Ecoregion (28 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	93.0	32.6	35.1	9.7	10.5	122.8	52.3
2	Green foxtail	40.4	19.8	48.9	12.6	31.2	107.0	45.4
3	Wild buckwheat	82.6	27.5	33.2	3.3	4.0	18.4	33.1
4	Stinkweed	59.1	17.8	30.1	3.0	5.1	24.6	24.2
5	Cow cockle	49.6	17.0	34.2	2.6	5.3	29.8	21.6
6	Redroot pigweed	60.0	16.7	27.7	1.6	2.7	12.6	20.5
7	Wild mustard	54.5	9.1	16.7	0.8	1.4	7.0	13.9
8	Lamb's-quarters	36.7	8.2	22.4	0.9	2.4	15.4	11.3
9	Barley	3.0	3.0	100.0	3.2	106.4	106.4	9.6
10	Russian thistle	39.1	5.4	13.9	0.3	0.8	4.4	8.9
11	Flixweed	30.2	4.8	15.8	0.3	1.0	2.2	7.2
12	Downy brome	3.3	2.8	85.0	1.6	49.0	49.0	5.7
13	Wheat	17.1	3.0	17.8	0.2	0.9	2.2	4.2
14	Canada thistle	17.5	1.9	11.1	0.2	1.4	3.4	4.0
15	Perennial sow-thistle	17.1	2.1	12.3	0.1	0.6	1.4	3.7
16	Thyme-leaved spurge	14.9	2.2	15.0	0.1	1.0	1.6	3.5
17	Dock species	11.2	2.2	20.0	0.3	2.8	6.4	3.4
18	Common pepper-grass	7.9	2.5	32.2	0.2	3.2	4.6	3.0
19	Prostrate pigweed	11.2	2.0	18.3	0.1	0.9	2.4	2.8
20	Canola/rapeseed	10.0	2.0	20.3	0.1	1.1	1.8	2.7
21	Pale smartweed	10.8	1.4	13.0	0.1	0.9	1.6	2.4
22	Persian darnel	10.4	1.1	10.5	0.1	0.5	0.8	2.1
23	Biennial wormwood	7.6	1.4	18.4	0.1	1.2	1.8	2.0
24	Rose species	6.4	1.5	23.2	0.1	2.3	3.4	2.0
25	Vetch species	3.3	1.7	50.0	0.2	7.4	7.4	1.9
26	Absinth	3.3	1.7	50.0	0.2	4.6	4.6	1.7
27	Spear-leaved goosefoot	4.1	1.0	25.0	0.1	1.4	1.4	1.2
28	Night-flowering catchfly	4.1	0.8	20.0	0.1	1.6	1.6	1.1
29	Barnyard grass	3.0	0.9	30.0	0.1	2.0	2.0	1.0
30	Foxtail barley	3.8	0.6	15.0	< 0.1	0.8	0.8	0.9
31	Narrow-leaved hawk's-beard	3.8	0.2	5.0	< 0.1	0.2	0.2	0.6
32	Kochia	3.7	0.2	5.0	< 0.1	0.2	0.2	0.6
33	Field mint	3.2	0.2	5.0	< 0.1	1.0	1.0	0.6
34	Canada fleabane	3.5	0.2	5.0	< 0.1	0.2	0.2	0.6
35	Wild tomato	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5

**Field Survey Summary Tables – 1970s Flax**

Table 207. 1970s Flax in the Mixed Grassland Ecoregion (11 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	37.7	15.0	39.9	2.6	6.9	20.6	53.6
2	Wild mustard	73.4	16.9	23.0	1.3	1.7	5.0	48.9
3	Wheat	37.6	15.6	41.5	1.9	5.1	15.0	46.9
4	Wild buckwheat	72.0	9.2	12.8	1.0	1.4	5.4	36.6
5	Cow cockle	56.6	7.0	12.4	0.7	1.3	5.0	28.4
6	Russian thistle	36.0	6.3	17.5	0.4	1.1	3.4	19.3
7	Redroot pigweed	17.4	3.3	18.9	0.2	0.9	1.4	9.1
8	Vetch species	18.7	2.8	15.0	0.2	0.9	1.4	9.0
9	Flixweed	26.7	1.3	5.0	0.1	0.2	0.2	7.8
10	Wild oats	9.7	3.4	35.0	0.2	1.6	1.6	7.6
11	Spear-leaved goosefoot	9.3	2.3	25.0	0.3	2.8	2.8	7.5
12	Dog mustard	9.3	0.9	10.0	0.2	2.6	2.6	5.7
13	Lamb's-quarters	17.4	0.9	5.0	< 0.1	0.2	0.2	5.1
14	Povertyweed	9.3	0.5	5.0	0.1	1.0	1.0	3.6
15	Canada thistle	9.3	0.5	5.0	< 0.1	0.4	0.4	2.9
16	Kochia	9.7	0.5	5.0	< 0.1	0.2	0.2	2.8
17	Biennial wormwood	9.3	0.5	5.0	< 0.1	0.2	0.2	2.7
18	Alfalfa	7.7	0.4	5.0	< 0.1	0.2	0.2	2.3

Table 208. 1970s Flax in the Lake Manitoba Plain Ecoregion (65 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	84.3	55.2	65.4	78.0	92.4	1425.8	96.0
2	Wild oats	80.8	35.9	44.4	19.0	23.5	351.8	41.2
3	Pale smartweed	63.3	26.3	41.5	8.8	13.9	185.0	26.7
4	Wild buckwheat	68.7	24.4	35.6	2.8	4.0	24.2	21.9
5	Wild mustard	56.8	16.1	28.3	2.5	4.4	36.0	16.6
6	Redroot pigweed	53.7	13.6	25.3	1.6	2.9	14.2	14.4
7	Canada thistle	41.5	7.6	18.4	0.7	1.7	8.6	9.5
8	Perennial sow-thistle	38.4	7.8	20.3	0.9	2.3	25.2	9.3
9	Barnyard grass	17.7	5.9	33.3	3.6	20.2	200.6	7.8
10	Lamb's-quarters	26.6	7.9	29.7	0.6	2.4	7.4	7.5
11	Quack grass	13.2	3.7	28.5	4.4	33.1	300.8	6.8
12	Thyme-leaved spurge	15.4	5.3	34.6	0.6	3.6	13.4	4.8
13	Wheat	17.8	4.2	23.6	0.3	1.9	7.6	4.5
14	Night-flowering catchfly	12.7	2.9	23.0	0.4	3.4	20.6	3.3
15	Barley	7.9	2.3	28.9	0.4	5.6	18.2	2.4
16	Canola/rapeseed	7.5	2.2	29.5	0.3	4.1	10.4	2.2
17	Dandelion	8.6	1.6	18.5	0.2	2.2	12.2	2.0
18	Field horsetail	9.3	1.1	12.0	0.1	1.2	3.2	1.9
19	Purslane	7.0	1.5	21.3	0.2	2.8	7.6	1.7
20	Prostrate knotweed	7.3	1.4	19.5	0.1	1.2	5.0	1.7
21	Tartary buckwheat	4.2	1.6	37.1	0.2	3.7	6.4	1.4
22	Stinkweed	6.9	0.5	7.0	< 0.1	0.4	0.8	1.2
23	Showy milkweed	5.5	0.6	11.3	0.1	1.2	2.4	1.1
24	Field bindweed	2.2	1.0	45.0	0.4	20.2	20.2	1.1
25	Ball mustard	5.7	0.5	8.8	< 0.1	0.5	0.8	1.0
26	Corn spurry	3.0	0.8	27.5	0.1	2.8	5.2	0.8
27	White cockle	4.3	0.4	10.0	< 0.1	1.0	1.0	0.8
28	Clover species	1.4	0.8	60.0	0.3	24.6	24.6	0.8
29	Cow cockle	4.4	0.4	10.0	< 0.1	0.5	0.6	0.8
30	False ragweed	2.5	1.0	40.0	< 0.1	2.0	2.0	0.8
31	Russian thistle	3.5	0.6	15.8	< 0.1	1.1	1.8	0.8
32	Water smartweed	2.8	0.5	17.5	0.1	3.7	5.8	0.7
33	Witch grass	1.5	1.0	65.0	< 0.1	2.8	2.8	0.7
34	Alfalfa	1.4	0.8	60.0	0.1	5.2	5.2	0.6
35	Vetch species	2.8	0.1	5.0	< 0.1	0.2	0.2	0.4
36	Narrow-leaved hawk's-beard	2.2	0.2	10.0	< 0.1	0.6	0.6	0.4
37	Dog mustard	1.4	0.4	30.0	< 0.1	1.2	1.2	0.4
38	Field mint	1.5	0.3	20.0	< 0.1	0.8	0.8	0.3
39	Round-leaved mallow	1.4	0.3	20.0	< 0.1	2.2	2.2	0.3
40	Leafy spurge	1.4	0.2	15.0	0.1	4.4	4.4	0.3
41	Absinth	1.4	0.3	20.0	< 0.1	1.6	1.6	0.3
42	Scouring-rush	1.4	0.3	20.0	< 0.1	0.8	0.8	0.3
43	Giant ragweed	1.4	0.2	15.0	< 0.1	0.6	0.6	0.3
44	Prostrate pigweed	1.4	0.2	15.0	< 0.1	0.6	0.6	0.3
45	Cocklebur	1.4	0.1	10.0	< 0.1	0.4	0.4	0.3
46	Chickweed	1.4	0.1	10.0	< 0.1	1.0	1.0	0.3
47	Flixweed	1.4	0.1	10.0	< 0.1	0.6	0.6	0.3
48	Shepherd's-purse	1.4	0.1	10.0	< 0.1	0.4	0.4	0.2
49	Common ragweed	1.5	0.1	5.0	< 0.1	0.2	0.2	0.2
50	Common burdock	1.4	0.1	5.0	< 0.1	0.2	0.2	0.2
51	Rose species	1.4	0.1	5.0	< 0.1	0.2	0.2	0.2
52	Maple-leaved goosefoot	1.4	0.1	5.0	< 0.1	0.2	0.2	0.2

**Field Survey Summary Tables – 1970s Flax**

Table 209. 1970s Flax in the Interlake Plain Ecoregion (16 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	93.7	47.1	50.2	21.5	23.0	81.2	58.5
2	Green foxtail	71.1	23.1	32.5	14.5	20.4	213.0	36.9
3	Wild buckwheat	81.0	34.0	42.1	6.9	8.5	161.6	31.5
4	Pale smartweed	49.9	24.9	50.0	6.8	13.7	54.4	24.6
5	Redroot pigweed	62.5	20.6	33.0	3.6	5.7	25.0	19.7
6	Canada thistle	87.2	17.9	20.5	2.2	2.5	15.0	19.3
7	Perennial sow-thistle	75.2	15.5	20.5	1.8	2.4	12.4	16.5
8	Lamb's-quarters	68.4	14.2	20.7	2.5	3.7	25.8	16.3
9	Wild mustard	37.3	12.1	32.3	1.9	5.1	17.6	11.3
10	Quack grass	31.1	6.6	21.4	2.9	9.2	83.8	9.9
11	Barnyard grass	18.8	6.6	35.0	3.0	15.9	46.2	8.8
12	Stinkweed	33.6	3.8	11.3	0.6	1.7	7.2	5.9
13	Barley	22.6	4.1	18.3	0.3	1.2	2.0	4.4
14	Hemp-nettle	22.6	2.4	10.6	0.1	0.6	0.8	3.5
15	Night-flowering catchfly	23.2	1.8	7.7	0.2	0.9	2.4	3.5
16	Shepherd's-purse	6.3	3.8	60.0	0.7	11.0	11.0	3.1
17	Dandelion	14.7	2.9	19.9	0.2	1.6	3.2	3.0
18	American dragonhead	14.7	1.6	10.8	0.2	1.2	6.2	2.4
19	Prostrate knotweed	16.3	1.3	8.1	0.1	0.3	0.4	2.3
20	Canola/rapeseed	12.6	1.3	10.0	0.1	0.7	0.8	1.9
21	Giant ragweed	6.3	2.2	35.0	0.1	2.2	2.2	1.7
22	Field horsetail	8.4	1.0	12.4	0.2	2.8	3.4	1.6
23	Wheat	10.6	0.5	5.0	0.2	1.6	1.6	1.6
24	Clover species	10.1	0.5	5.0	0.2	2.0	2.0	1.5
25	Cow cockle	8.4	1.1	12.7	0.1	1.7	5.4	1.5
26	Bluebur	8.4	0.7	8.7	0.1	1.1	1.8	1.3
27	Bicknell's geranium	8.4	0.7	8.7	< 0.1	0.4	0.4	1.2
28	Witch grass	2.2	0.9	40.0	0.2	10.2	10.2	0.9
29	Cleavers	6.3	0.3	5.0	< 0.1	0.4	0.4	0.8
30	Scentless chamomile	6.3	0.3	5.0	< 0.1	0.2	0.2	0.8
31	Broad-leaved plantain	6.3	0.3	5.0	< 0.1	0.2	0.2	0.8
32	Thyme-leaved spurge	6.3	0.3	5.0	< 0.1	0.2	0.2	0.8
33	Persian darnel	2.2	0.5	25.0	0.1	2.4	2.4	0.5
34	Spear-leaved goosefoot	2.2	0.5	25.0	< 0.1	1.8	1.8	0.5
35	Rose species	2.2	0.4	20.0	< 0.1	1.8	1.8	0.5
36	Showy milkweed	2.2	0.1	5.0	< 0.1	0.6	0.6	0.3
37	Black medick	2.2	0.1	5.0	< 0.1	0.2	0.2	0.3

**Residual weed populations in the Prairie Provinces - 1973 to 2003**

Abstract for Poster Presented at Canadian Weed Science Society Annual Meeting, Nov. 28 – Dec. 1, 2004

A comparison of the relative abundance of weeds in the Prairie Provinces from 2001-2003 with results from provincial surveys conducted in the 1990s, 1980s, and 1970s enables the identification of shifts in species rank, life form density and relative abundance. In the 2000s, 3806 fields of spring wheat, barley, durum, oats, canary grass, canola, flax, mustard, field peas, and lentils were surveyed. These fields were selected using a stratified random sampling procedure based on ecodistricts. Weeds were counted in 20 quadrats (50 by 50 cm) in late summer. Weed data were summarized using a relative abundance index based on frequency, field uniformity and density. Green foxtail (*Setaria viridis* (L.) P. Beauv.) was the most abundant weed, wild oats (*Avena fatua* L.) ranked second, wild buckwheat (*Polygonum convolvulus* L.) third, and Canada thistle (*Cirsium arvense* (L.) Scop.) fourth. The results from the 2000s surveys were compared to results from surveys of 2294 fields in 1995-1997, 2729 fields in 1986-1989 and 8878 fields in 1973-1981. Thirteen species have been ranked amongst the top 20 most abundant species in each survey. Six species, ranked in the top 20 species in the 1970s and/or 1980s, have since declined: cow cockle (*Vaccaria hispanica* (Mill.) Rauschert), corn spurry, (*Spergula arvensis* L.), bluebur (*Lappula squarrosa* (Retz.) Dumort.), night-flowering catchfly (*Silene noctiflora* L.), flixweed (*Descurainia sophia* (L.) Webb ex Prantl), and wild mustard (*Sinapis arvensis* L.). Five species have appeared in the top 20 list in the 1990s and/or 2000s: cleavers (*Galium aparine* L.), wheat (*Triticum aestivum* L.), kochia (*Kochia scoparia* (L.) Schrad.), barnyard grass (*Echinochloa crusgalli* (L.) P. Beauv.), and dandelion (*Taraxacum officinale* G.H. Weber ex Wiggers). Relative abundances of annual grasses and perennials have increased, while the relative abundances of annual broad-leaved species and facultative winter annuals have decreased. Densities of all life forms have decreased since the 1970s.

# Residual Weed Populations in the Prairie Provinces - 1973 to 2003

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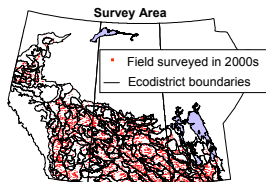
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## Objectives

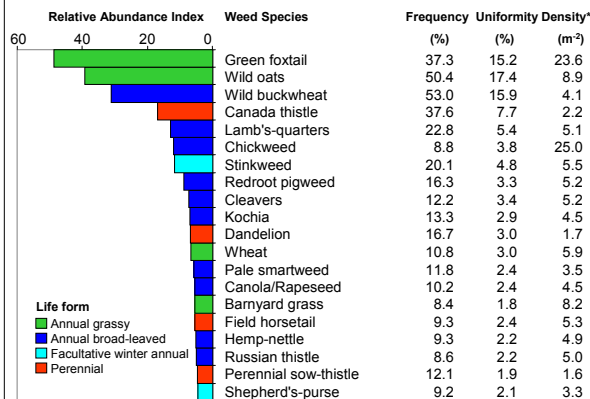
- Present data on the top twenty species in latest prairie weed survey (2001-2003)
- Compare the relative abundance of weeds in the prairie provinces in 2001-2003 with results from provincial surveys conducted in the 1990s, 1980s and 1970s
- Identify shifts in life form density and relative abundance

## Methods

- Using proportionally allocated stratified random sampling procedure to select fields in ecodistricts shown on map
  - Number of fields proportional to area sown to surveyed crops in each ecodistrict
- Surveyed 3806 fields of spring wheat, barley, durum, oats, canary grass, canola, flax, mustard, field peas, and lentils
- Counted weeds in 20 quadrats (50 by 50 cm) per field in late summer (residual populations)
- Data weighted in analysis to account for fields not surveyed
- Summarized data with a relative abundance index based on frequency, uniformity and density
  - Frequency = Percent of fields in which species occurred
  - Uniformity = Percent of quadrats in which species occurred
  - Density = Average density of species in all fields
- Compared top twenty species to similarly weighted data from surveys of
  - 2294 fields in 1990s (1995-1997)
  - 2729 fields in 1980s (1986-1989)
  - 8878 fields in 1970s (1973-1981)



## Top 20 Species in 2001-2003 Survey



## Species Shifts

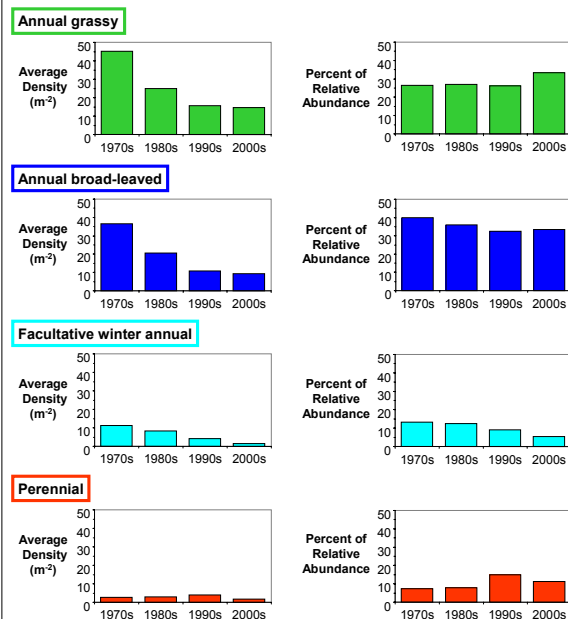
	1970s to 1980s	1980s to 1990s	1990s to 2000s	1970s to 2000s
<b>Annual grassy</b>				
Wheat	-3	9	10	16
Barnyard grass	-8	10	10	12
Green foxtail*	0	0	0	0
Wild oats	-1	1	0	0
<b>Annual broad-leaved</b>				
Cleavers	13	18	3	34
Kochia	0	4	10	14
Common groundsel	23	-6	-7	10
Flax	12	-6	0	6
Chickweed	2	2	0	4
Canola/Rapeseed	-4	5	3	4
Wild buckwheat	1	-1	0	0
Lamb's-quarters	0	-2	2	0
Redroot pigweed	-1	-3	2	-2
Hemp-nettle	2	-7	2	-3
Pale smartweed	0	-6	2	-4
Russian thistle	1	-10	-2	-11
Wild mustard	-1	2	-13	-12
Corn spurry	-12	-2	-7	-21
Cow cockle	-8	-11	-4	-23
<b>Facultative winter annual</b>				
Narrow-leaved hawk's-beard	10	-5	-2	3
Shepherd's-purse	10	2	-11	1
Stinkweed	0	0	-3	-3
Flixweed	-10	-4	2	-12
Night-flowering catchfly	-6	-6	-2	-14
Bluebur	-3	-10	-3	-16
<b>Perennial</b>				
Dandelion	-6	14	3	11
Canada thistle	-2	5	1	4
Quack grass	6	6	-8	4
Field horsetail	3	-4	2	1
Perennial sow-thistle	-4	7	-11	-8

\*Species in italics have maintained a position in the top 20 since 1970s

## Species Shift Summary

- Shifts have occurred in the relative abundance of the top 20 species
- Thirteen species have been in the top 20 in each survey since the 1970s
- The same species have been in the top three since surveys in the 1970s
- Six species in top 20 in the 1970s and/or 1980s have declined
  - Cow cockle, corn spurry, bluebur, night-flowering catchfly, flixweed and wild mustard
- Five species have appeared in top 20 in 1990s and/or 2000s
  - Cleavers, wheat, kochia, barnyard grass and dandelion
- Dry weather in 2000s may have influenced some of observed shifts

## Life Form Shifts



## Life Form Shift Summary

- Densities have decreased since the 1970s
- Perennial densities were highest in 1990s
- Largest decreases in density since 1990s in facultative winter annuals and perennials
- Relative abundance of annual grassy and perennial species have increased
- Relative abundance of perennials peaked in 1990s
- Relative abundance of annual broad-leaved and facultative winter annual weeds have decreased
  - Change in relative abundance of annual broad-leaved weeds largest from 1970s to 1990s
  - Change in relative abundance of facultative winter annual weeds largest from 1980s to 2000s

## Next Step

- Interpret shifts in terms of management practices based on information obtained from questionnaires completed by producers who participated in the survey. This analysis is especially necessary to fully understand the rise in abundance of weeds such as cleavers, dandelion and barnyard grass.

## Acknowledgements

- The weed surveys were only possible because of the cooperation of over 17,700 producers
- Special thanks to the many municipal, provincial and federal staff and survey personnel who participated in the surveys
- The latest series of weed surveys were funded in part by Arvesta Canada, Aventis CropScience Canada Co., BASF Canada, Bayer Inc., Dow AgroSciences Canada Inc., Dupont Canada Inc., Monsanto Canada Inc., Nufarm Agriculture Inc. and Western Co-operative Fertilizers Limited, Alberta Agriculture, Food and Rural Development Farming for the Future Program and by Matching Investment Initiative (MII) of Agriculture and Agri-Food Canada

## Sources

- Weed survey data are from Alberta Cereals & Oilseeds Crop Protection Survey (Alberta Agriculture internal report, 1990) and the Agriculture and Agri-Food Canada Weed Survey Series Publications:
  - 83-6 Weed surveys of Saskatchewan cereal and oilseed fields from 1976 to 1979
  - 84-1 Weed surveys of Manitoba cereal and oilseed crops from 1978, 1979 and 1981
  - 85-3 Dew's Alberta weed survey (1973-1977)
  - 87-1 Weed survey of Saskatchewan cereal and oilseed crops (1986)
  - 88-4 Weed survey of cereal and oilseed crops in Manitoba (1986)
  - 96-1 Saskatchewan weed survey of cereal, oilseed and pulse crops (1995)
- 98-1 Manitoba weed survey of cereal and oilseed crops in 1997
- 98-2 Alberta weed survey of cereal, oilseed and pulse crops in 1997
- 02-1 Manitoba weed survey of cereal, oilseed and pulse crops in 2001
- 02-2 Manitoba weed survey of cereal and oilseed crops in 2002
- 03-1 Saskatchewan weed survey of cereal, oilseed and pulse crops in 2003







**List of Distribution Maps**

Ball mustard..... 317

Barnyard grass ..... 319

Biennial wormwood ..... 321

Bluebur ..... 323

Canada thistle ..... 325

Chickweed ..... 327

Cleavers ..... 329

Common groundsel..... 331

Corn spurry ..... 333

Cow cockle ..... 335

Dandelion ..... 337

Field horsetail ..... 339

Flixweed ..... 341

Foxtail barley ..... 343

Green foxtail ..... 345

Hemp-nettle ..... 347

Kochia ..... 349

Lamb's-quarters ..... 351

Narrow-leaved hawk's-beard ..... 353

Night-flowering catchfly ..... 355

Pale smartweed ..... 357

Perennial sow-thistle..... 359

Pineappleweed ..... 361

Prostrate knotweed ..... 363

Quack grass ..... 365

Redroot pigweed..... 367

Rose species..... 369

Round-leaved mallow ..... 371

Russian thistle..... 373

Shepherd's-purse..... 375

Spiny annual sow-thistle ..... 377

Stinkweed ..... 379

Stork's-bill ..... 381

Tartary buckwheat ..... 383

Thyme-leaved spurge ..... 385

Wild buckwheat..... 387

Wild mustard ..... 389

Wild oats..... 391

Volunteers

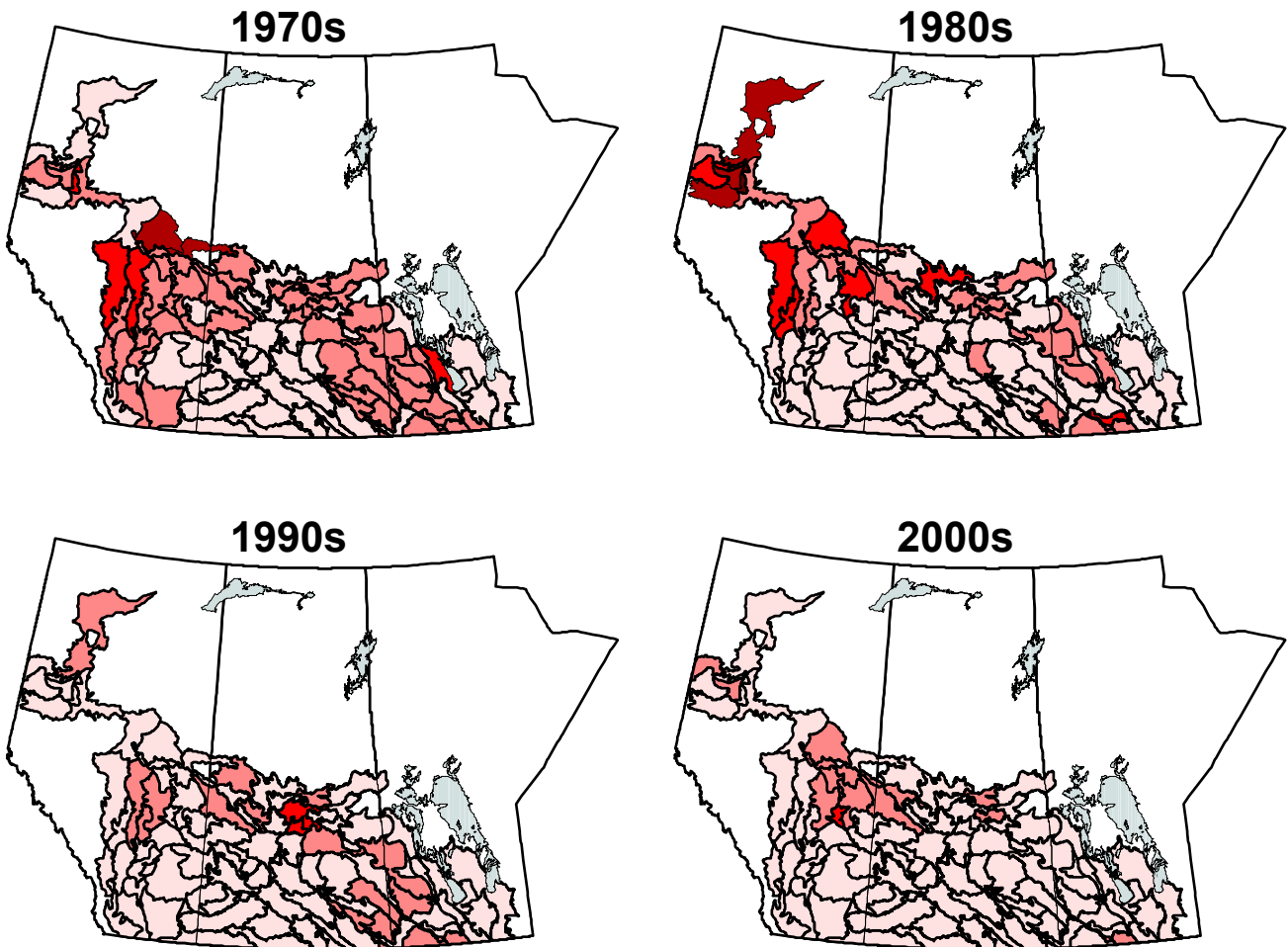
Canola/rapeseed..... 393

Wheat..... 395



## Ball mustard, *Neslia paniculata*

- Annual or winter annual; introduced from Eurasia
- The relative abundance and distribution has decreased since 1970s
- Most common in northern Alberta



**Frequency**

Species not surveyed	0.1 to 10.0%	20.1 to 50.0%
Absent	10.1 to 20.0%	More than 50.0%

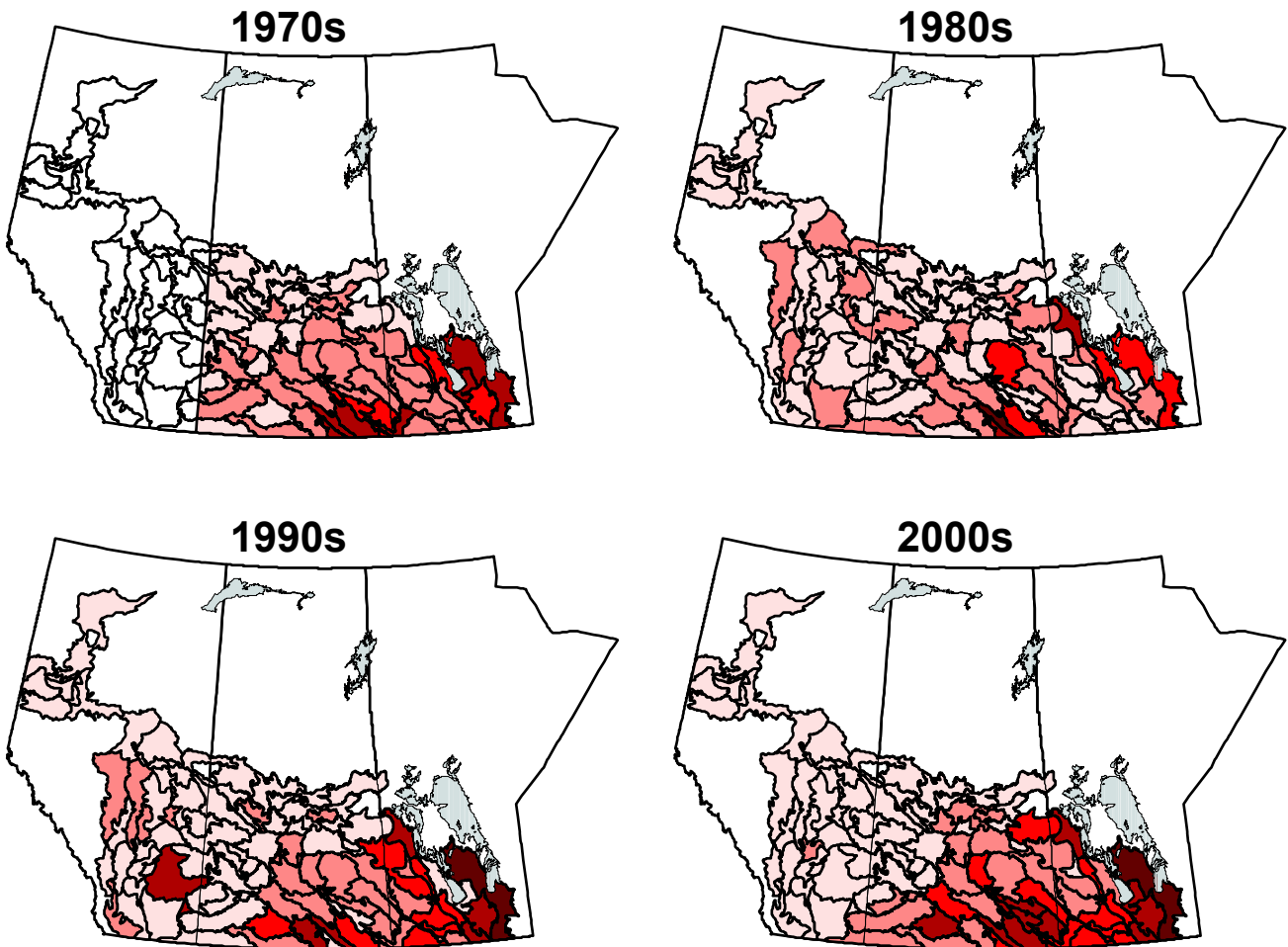
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	39	2.0	-	-	0.1	5.2	44.0	0.7
1980s	38	3.0	0.4	14.9	0.1	4.0	137.8	0.9
1990s	50	1.4	0.2	17.2	< 0.1	1.6	13.6	0.4
2000s	61	0.4	0.1	20.1	< 0.1	3.4	28.8	0.2

Field uniformity is not available for the 1970s



## Barnyard grass, *Echinochloa crusgalli*

- Annual; introduced from Eurasia
- Includes the native species, western barnyard grass (*E. microstachya*)
- Increase in abundance, density and frequency in recent surveys



**Frequency**    □ Species not surveyed    □ 0.1 to 10.0%    □ 20.1 to 50.0%  
                   □ Absent                            □ 10.1 to 20.0%    □ More than 50.0%

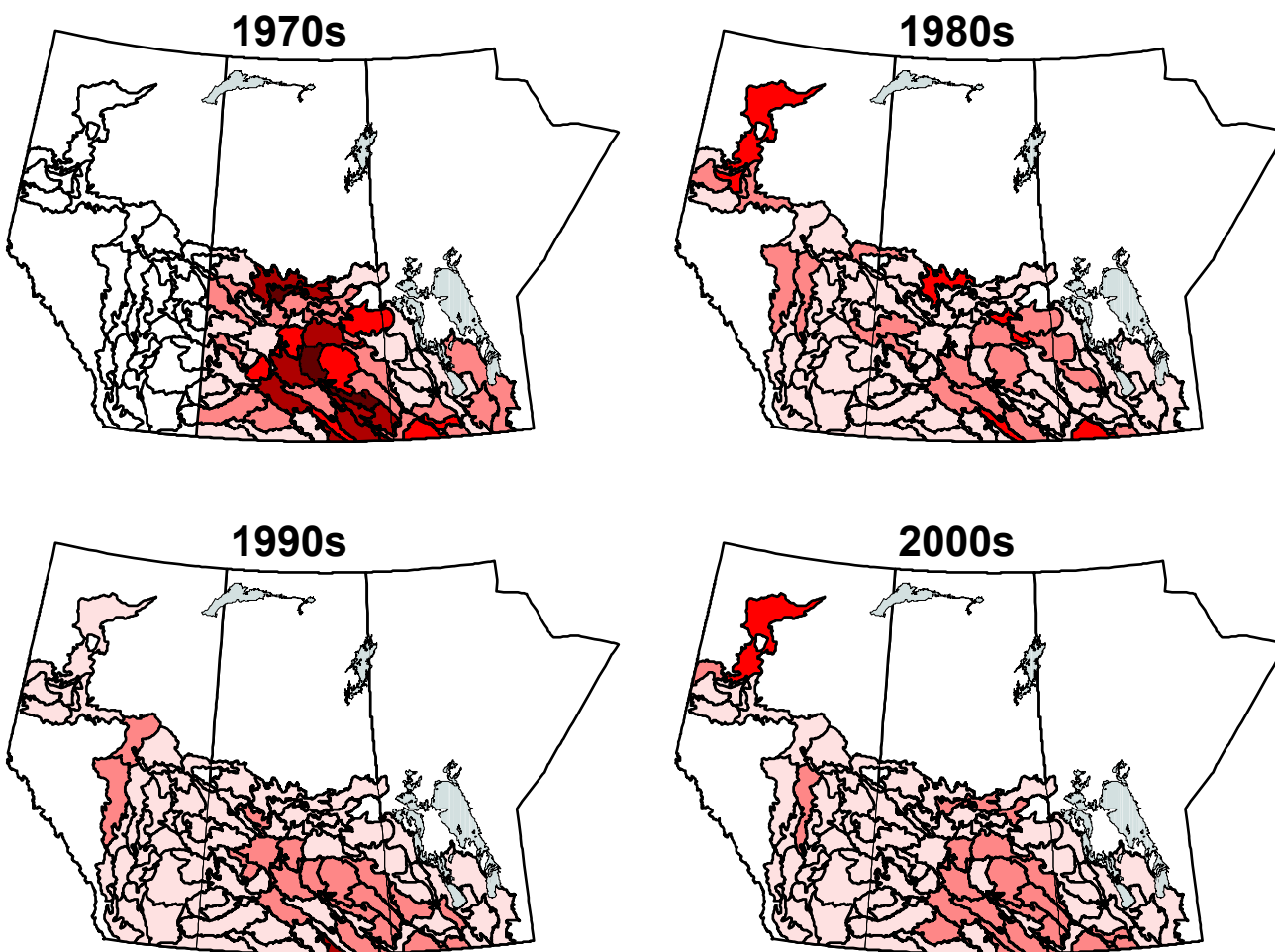
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	27	3.6	-	-	0.4	11.3	340.4	1.5
1980s	35	3.3	0.5	14.8	0.1	4.4	125.6	1.0
1990s	25	5.5	1.1	20.4	0.4	7.3	224.8	2.5
2000s	15	8.4	1.8	22.1	0.7	8.2	582.8	5.5

Field uniformity is not available for the 1970s




## Biennial wormwood, *Artemisia biennis*

- Annual or biennial; native
- In 1970s not considered a major weed in Alberta; however, widespread in other provinces
- No change in abundance since the 1980s



**Frequency**

	Species not surveyed		0.1 to 10.0%		20.1 to 50.0%
	Absent		10.1 to 20.0%		More than 50.0%

Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	33	3.2	-	-	< 0.1	1.5	13.6	1.0
1980s	54	1.6	0.2	13.2	< 0.1	1.8	18.2	0.4
1990s	52	1.5	0.1	9.7	< 0.1	1.0	11.6	0.4
2000s	42	1.6	0.2	11.5	< 0.1	1.4	26.6	0.6

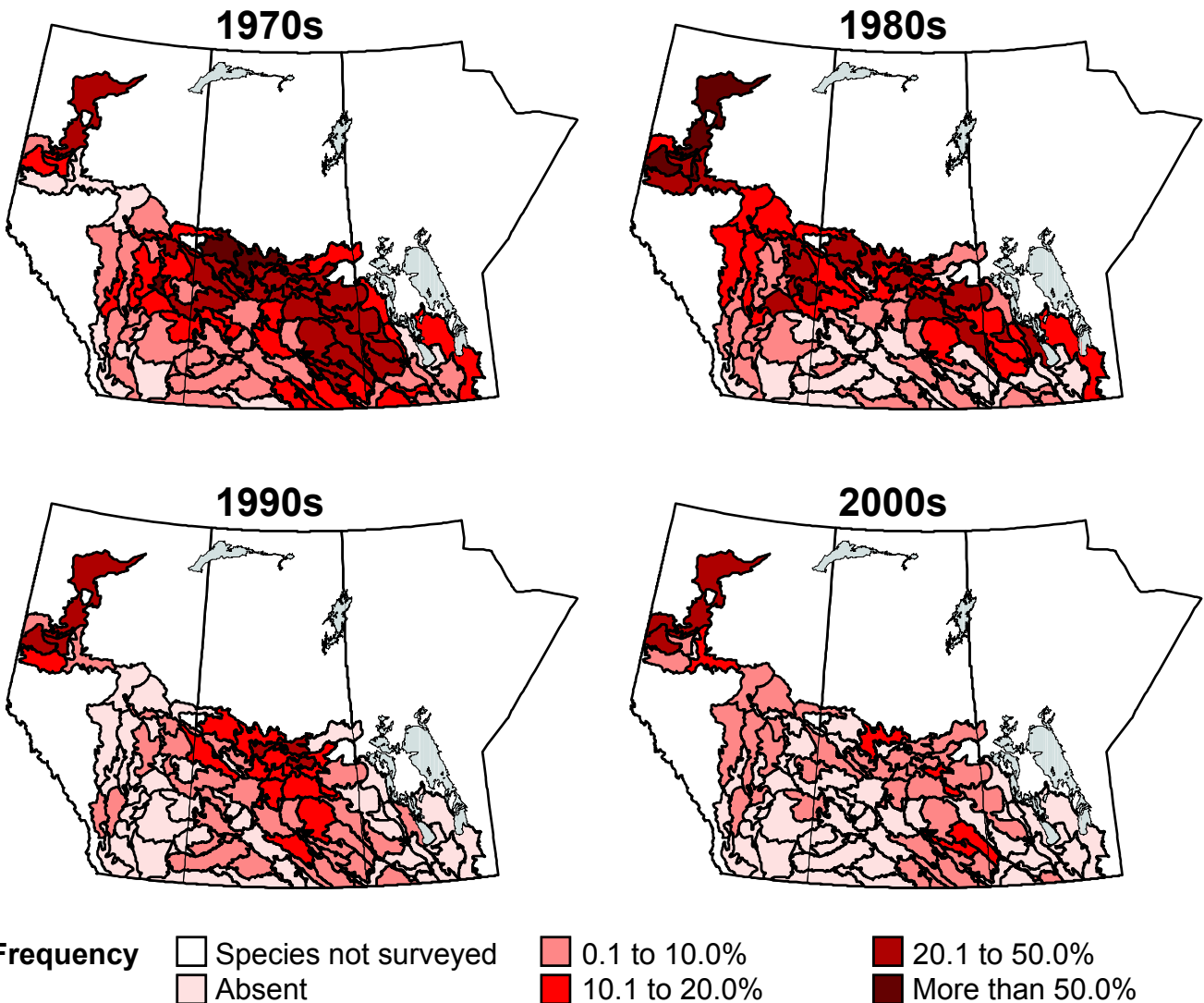
Field uniformity is not available for the 1970s





## Bluebur, *Lappula squarrosa*

- Annual or winter annual; introduced from Eurasia
- Includes the native species, western bluebur (*L. occidentalis*)
- Decreased in abundance since 1970s



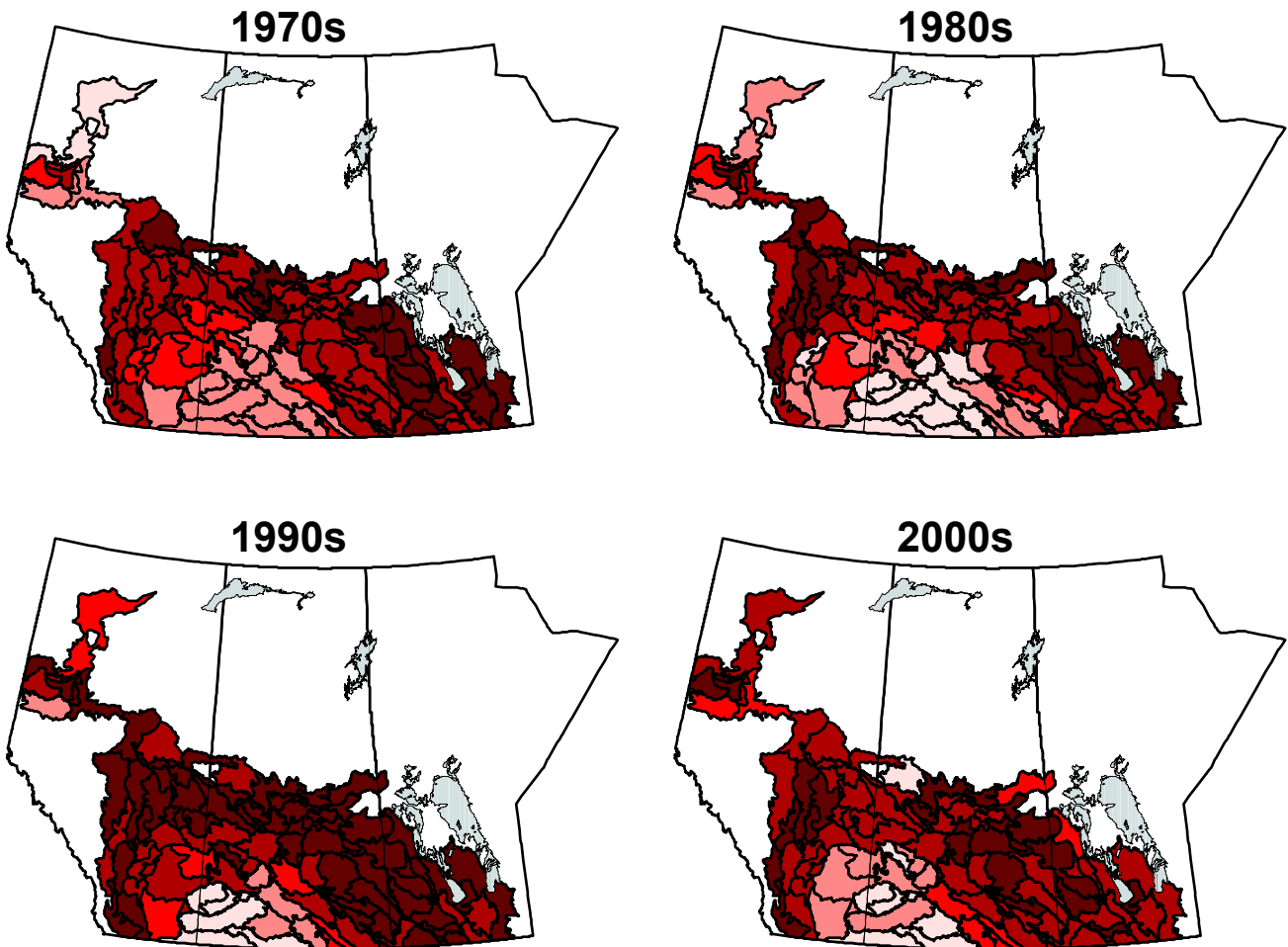
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	15	15.8	-	-	0.5	3.3	117.8	5.3
1980s	18	10.6	2.5	23.3	0.3	3.3	79.4	3.6
1990s	28	6.1	0.9	15.4	0.1	2.0	40.0	1.8
2000s	31	3.2	0.5	16.8	0.1	3.2	112.0	1.4

Field uniformity is not available for the 1970s



## Canada thistle, *Cirsium arvense*

- Perennial; introduced from Eurasia
- Less abundant in southwestern Saskatchewan and southeastern Alberta
- Higher abundance in the 1990s and 2000s



**Frequency**

	Species not surveyed		0.1 to 10.0%		20.1 to 50.0%
	Absent		10.1 to 20.0%		More than 50.0%

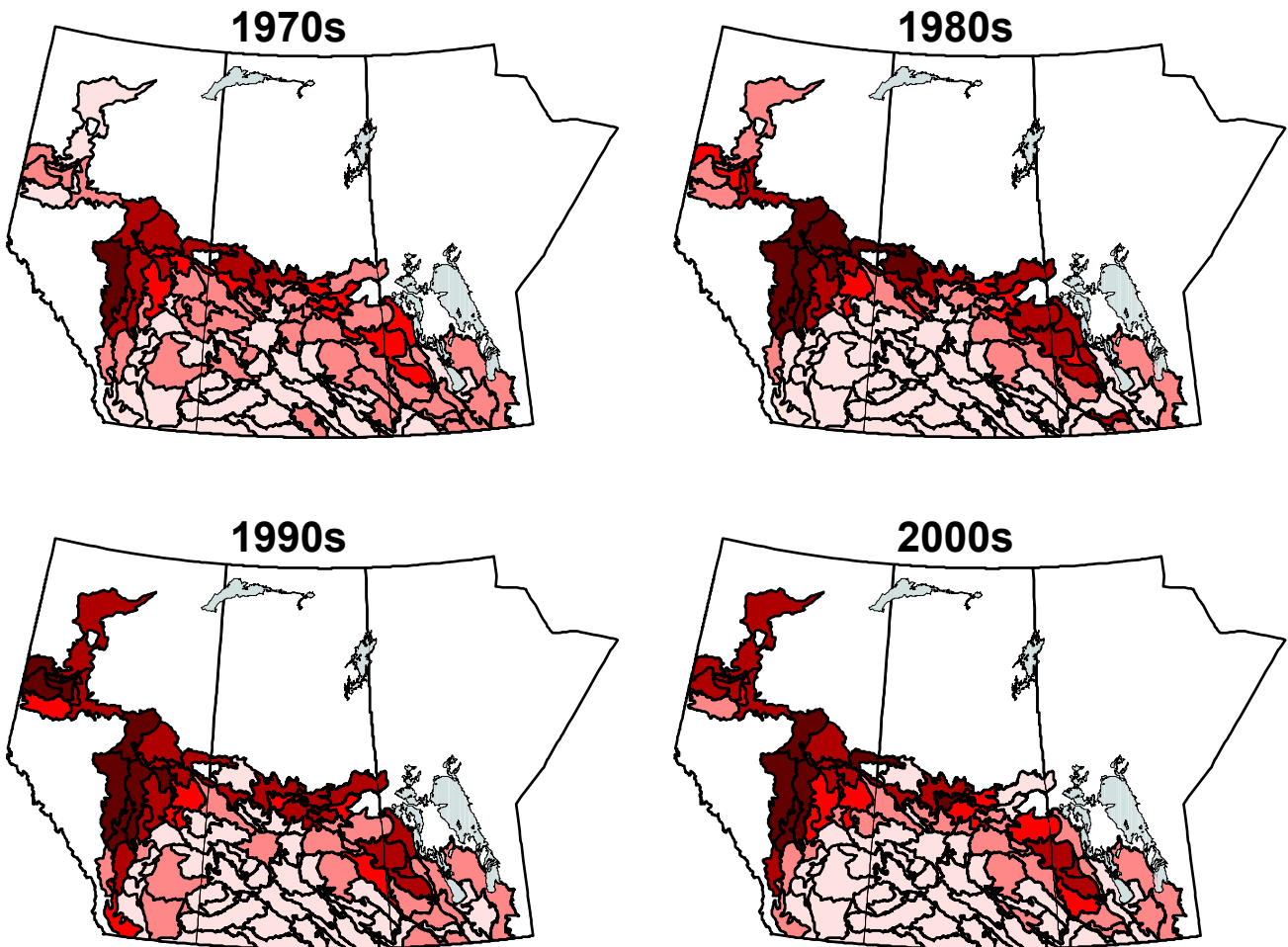
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	8	30.9	-	-	1.1	3.4	202.3	10.4
1980s	10	27.8	5.6	20.1	0.7	2.5	37.2	8.6
1990s	5	49.7	11.1	22.2	1.2	2.5	61.8	17.2
2000s	4	37.6	7.7	20.5	0.8	2.2	41.6	16.9

Field uniformity is not available for the 1970s



## Chickweed, *Stellaria media*

- Annual or winter annual or short-lived perennial; introduced from Eurasia
- Increase in abundance from 1970s to 1990s
- High occurrence field densities



**Frequency**

Species not surveyed	0.1 to 10.0%	20.1 to 50.0%
Absent	10.1 to 20.0%	More than 50.0%

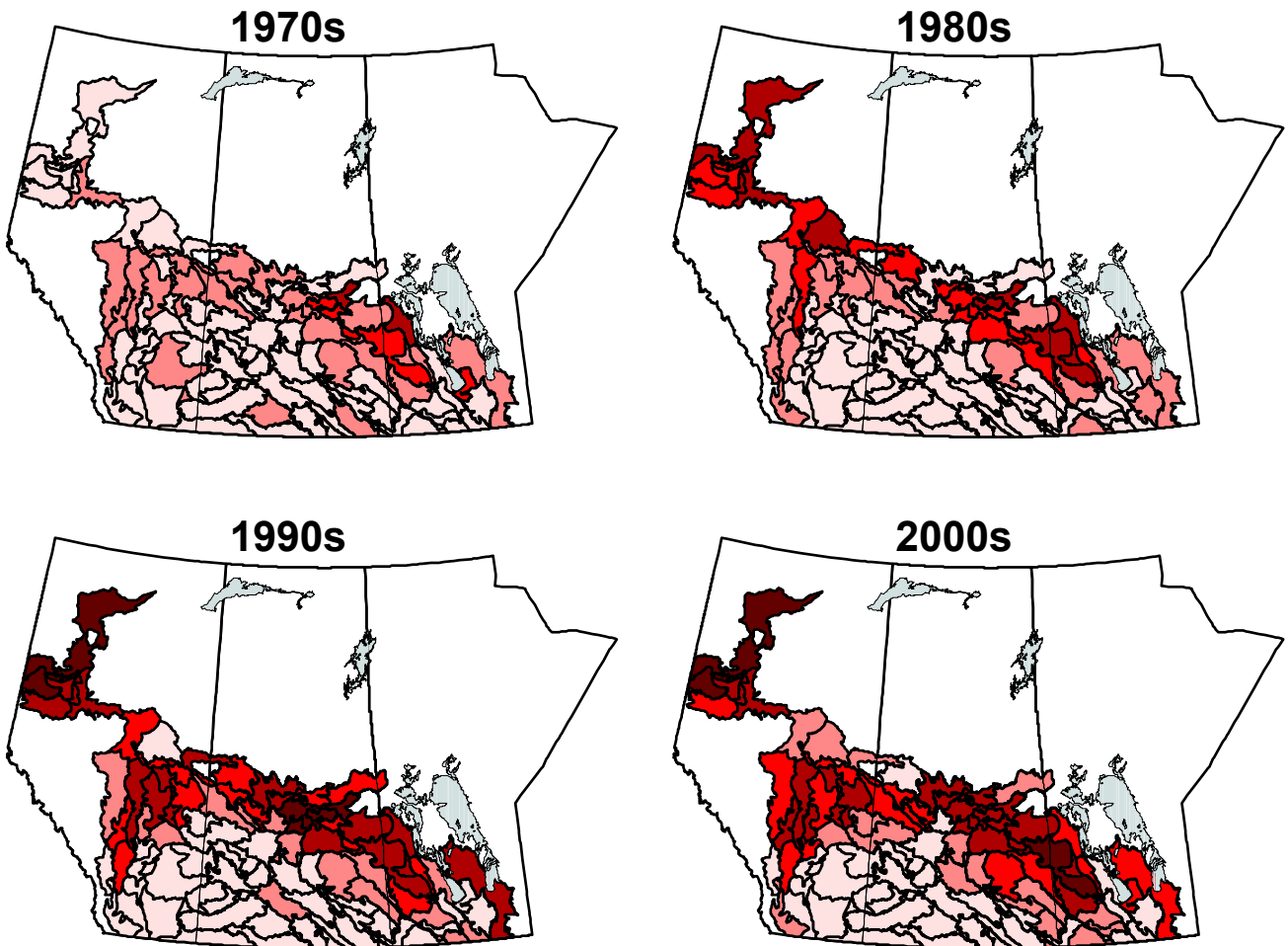
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	10	5.9	-	-	6.2	104.1	1188.8	8.0
1980s	8	10.2	4.8	46.9	3.5	34.0	978.2	9.7
1990s	6	11.5	4.9	42.3	3.3	28.5	619.8	12.6
2000s	6	8.8	3.8	43.2	2.2	25.0	1727.2	12.0

Field uniformity is not available for the 1970s



# Cleavers, *Galium aparine*

- Annual or winter annual; native
- Includes false cleavers (*G. spurium*)
- Increase in abundance and distribution from 1970s to 2000s



Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	43	1.4	-	-	0.1	4.5	42.8	0.5
1980s	30	5.5	1.3	23.1	0.2	4.5	51.4	2.0
1990s	12	11.5	3.9	34.4	0.8	7.4	244.0	6.1
2000s	9	12.2	3.4	28.0	0.6	5.2	180.8	7.4

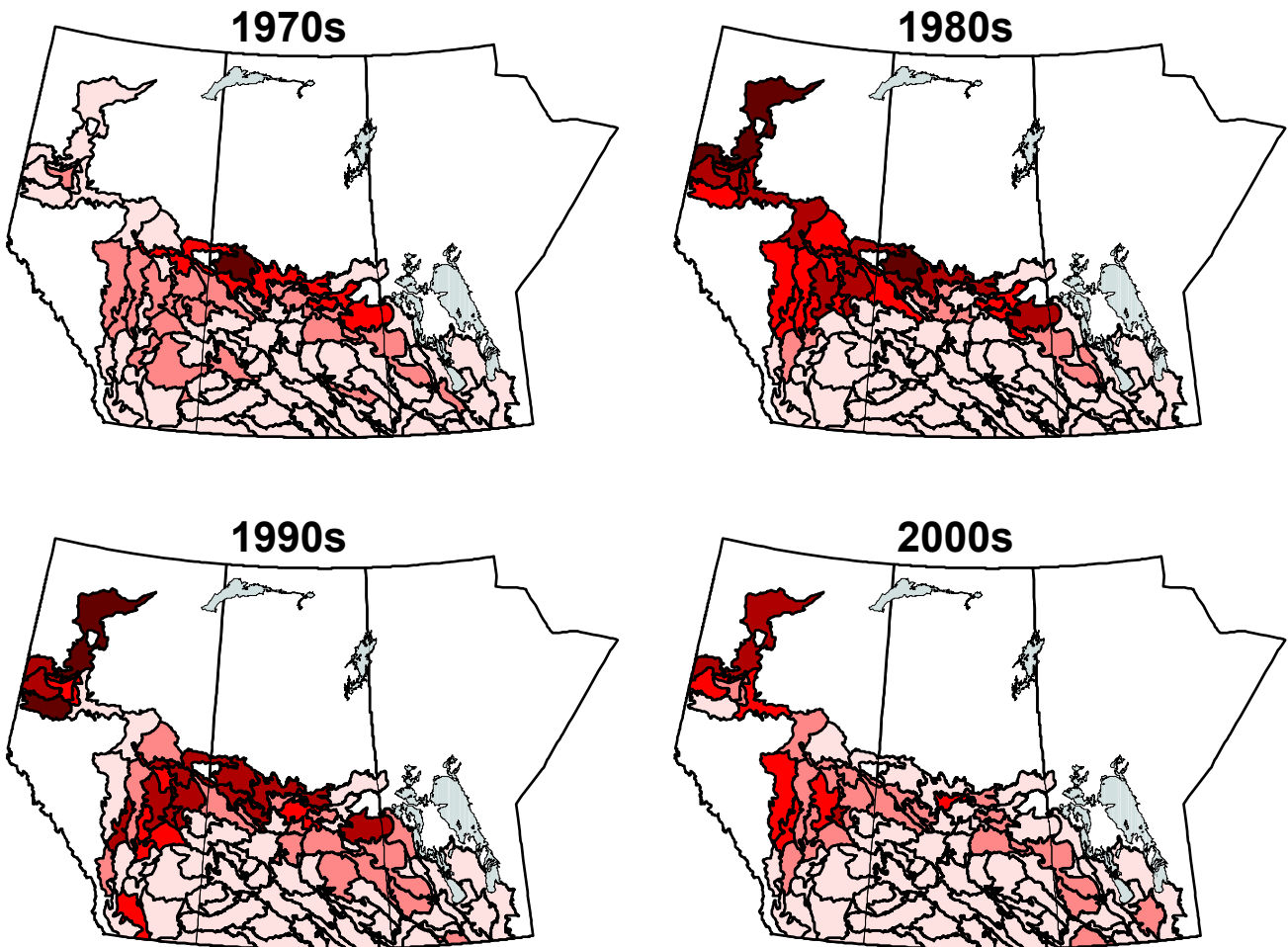
Field uniformity is not available for the 1970s





## Common groundsel, *Senecio vulgaris*

- Annual and biennial; introduced from Eurasia
- Highest abundance in the 1980 and 1990s
- Primarily found in central to northern Alberta and northwestern Saskatchewan



**Frequency**    Species not surveyed    0.1 to 10.0%    20.1 to 50.0%  
                    Absent                    10.1 to 20.0%                    More than 50.0%

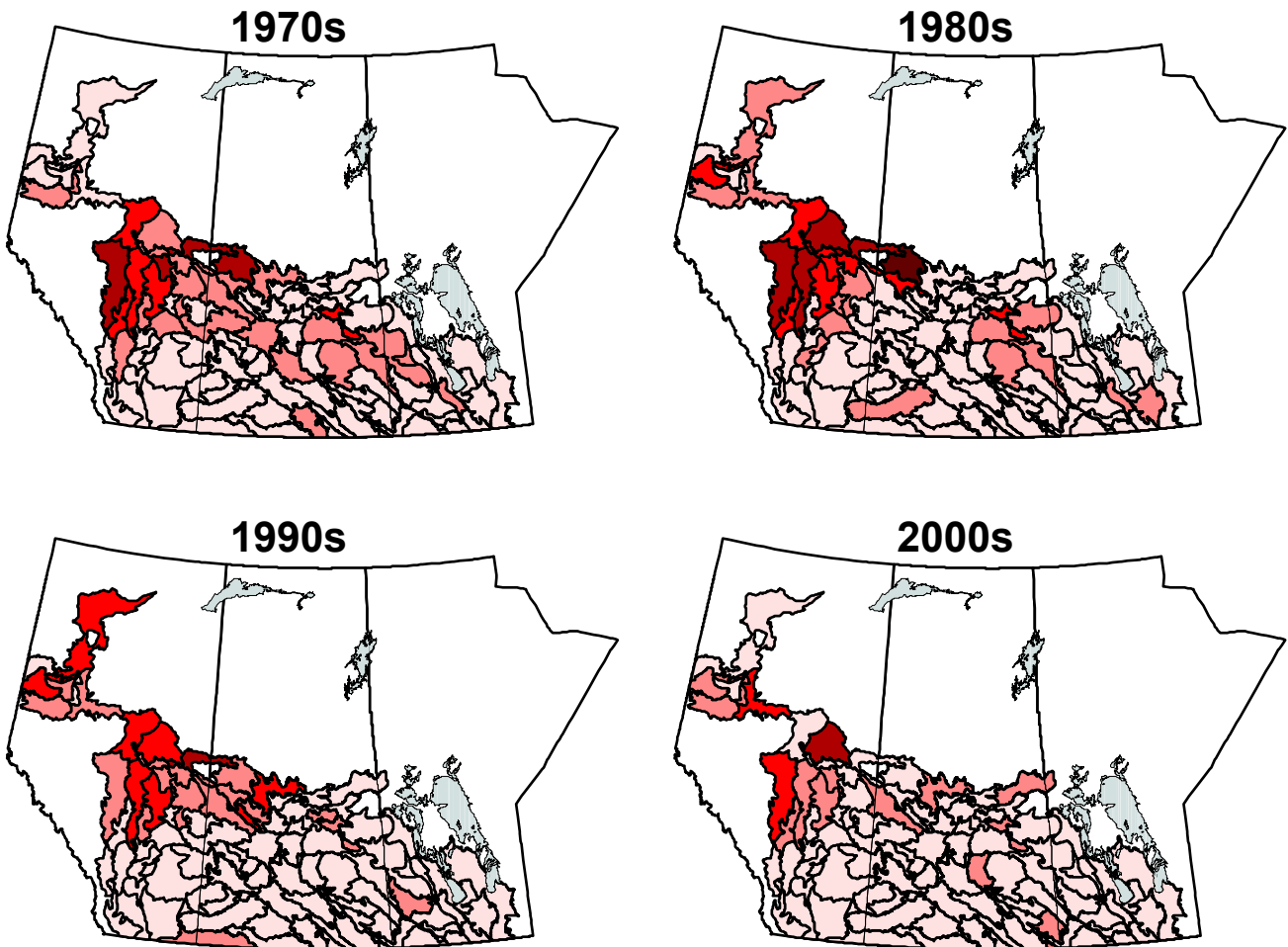
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	40	1.7	-	-	0.2	9.9	235.6	0.7
1980s	17	6.8	2.0	29.8	0.9	13.3	596.2	3.6
1990s	23	6.1	1.8	29.2	0.5	8.9	138.6	3.3
2000s	30	3.0	0.6	20.5	0.1	3.2	62.0	1.4

Field uniformity is not available for the 1970s



## Corn spurry, *Spergula arvensis*

- Annual; introduced from Eurasia
- Abundance has decreased since 1970s
- Relatively high occurrence field densities



**Frequency**     Species not surveyed     0.1 to 10.0%     20.1 to 50.0%  
 Absent     10.1 to 20.0%     More than 50.0%

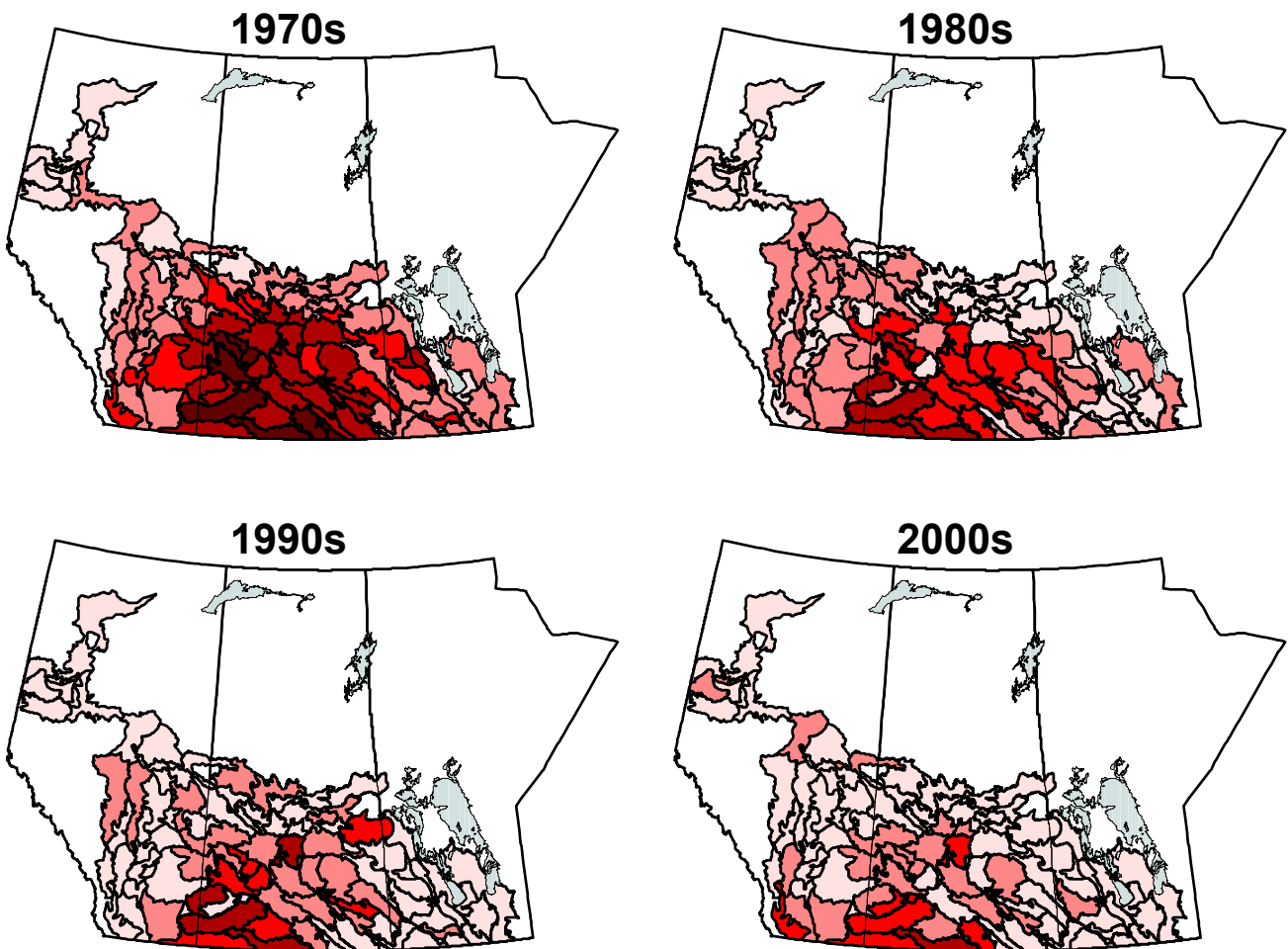
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	20	2.8	-	-	2.2	79.5	1188.8	3.1
1980s	32	3.1	0.9	29.8	0.4	13.7	950.8	1.7
1990s	34	2.4	0.6	23.0	0.3	11.8	161.8	1.4
2000s	41	0.7	0.3	37.4	0.1	14.6	182.4	0.7

Field uniformity is not available for the 1970s



## Cow cockle, *Vaccaria hispanica*

- Annual; introduced from Eurasia
- Abundance has decreased significantly since 1970s
- Most abundant in southwestern Saskatchewan



**Frequency**

	Species not surveyed		0.1 to 10.0%		20.1 to 50.0%
	Absent		10.1 to 20.0%		More than 50.0%

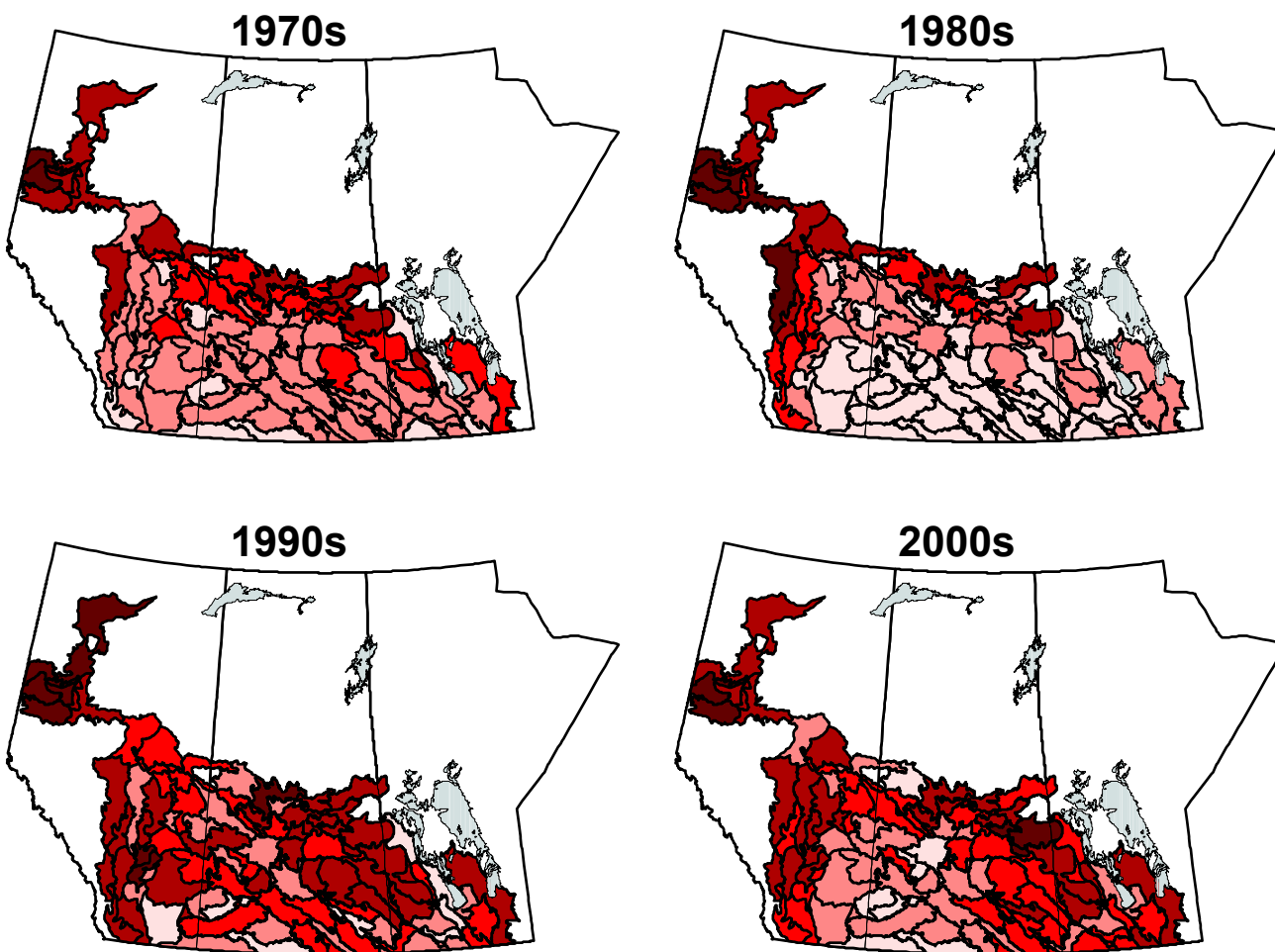
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	13	18.4	-	-	1.2	6.4	376.0	6.7
1980s	21	7.4	1.9	25.8	0.6	7.9	215.6	3.1
1990s	32	4.5	0.9	20.9	0.2	3.4	30.2	1.6
2000s	36	2.1	0.5	22.3	0.1	2.6	30.4	1.0

Field uniformity is not available for the 1970s



## Dandelion, *Taraxacum officinale*

- Perennial; introduced from Europe
- Includes red-seeded dandelion (*T. erythrospermum*)
- Increase in abundance since the 1980s



**Frequency**

	Species not surveyed		0.1 to 10.0%		20.1 to 50.0%
	Absent		10.1 to 20.0%		More than 50.0%

Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	22	8.9	-	-	0.3	3.4	76.2	3.0
1980s	28	7.3	1.4	18.9	0.1	2.0	36.8	2.1
1990s	14	21.7	3.5	16.3	0.3	1.3	76.4	6.1
2000s	11	16.7	3.0	18.0	0.3	1.7	43.8	6.9

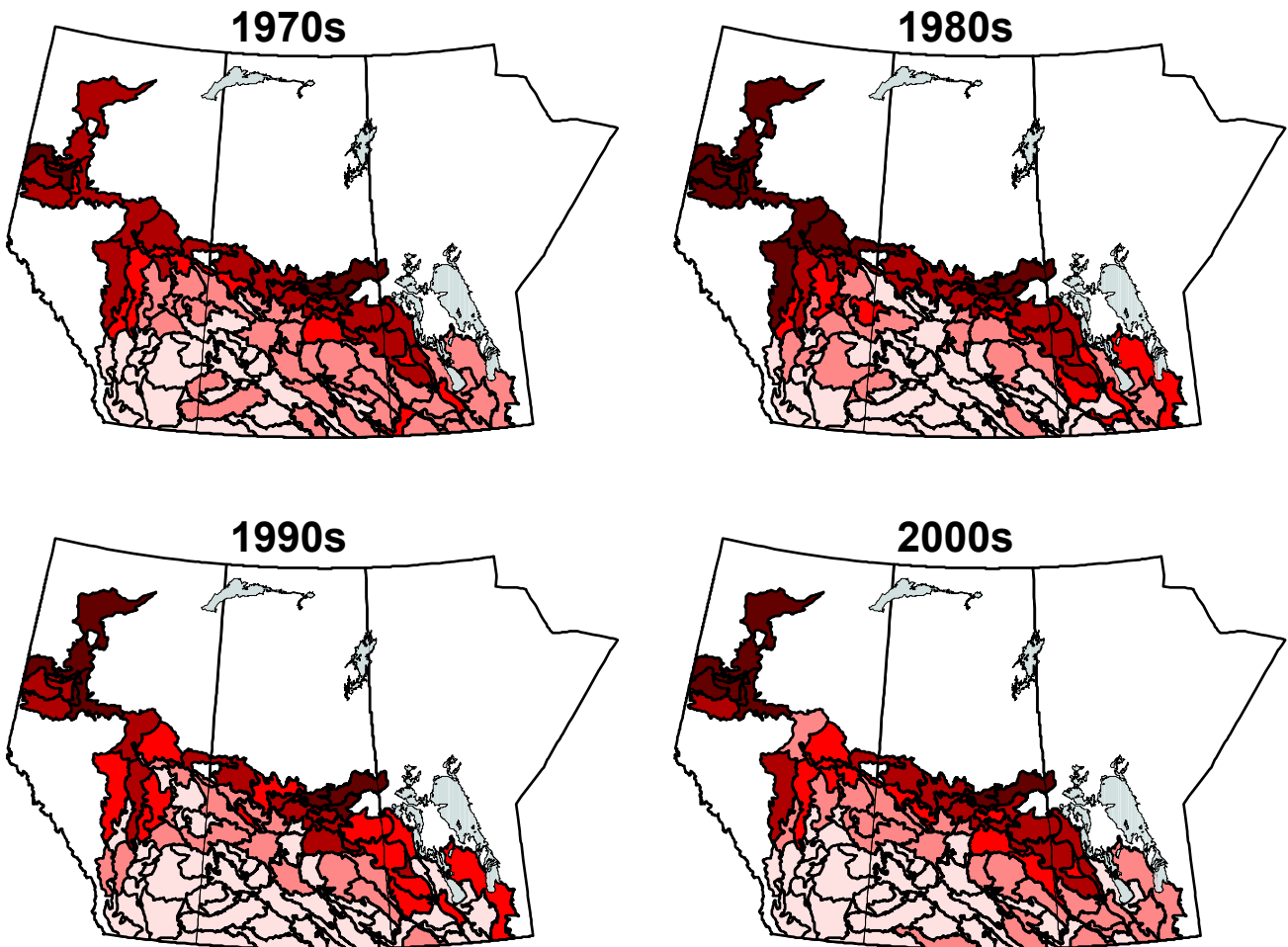
Field uniformity is not available for the 1970s





## Field horsetail, *Equisetum arvense*

- Perennial; native
- May include scouring rush (*E. hyemale*) in 1980s and 1990s
- No major changes in abundance or distribution



**Frequency**

	Species not surveyed		0.1 to 10.0%		10.1 to 20.0%		20.1 to 50.0%		More than 50.0%
	Absent								

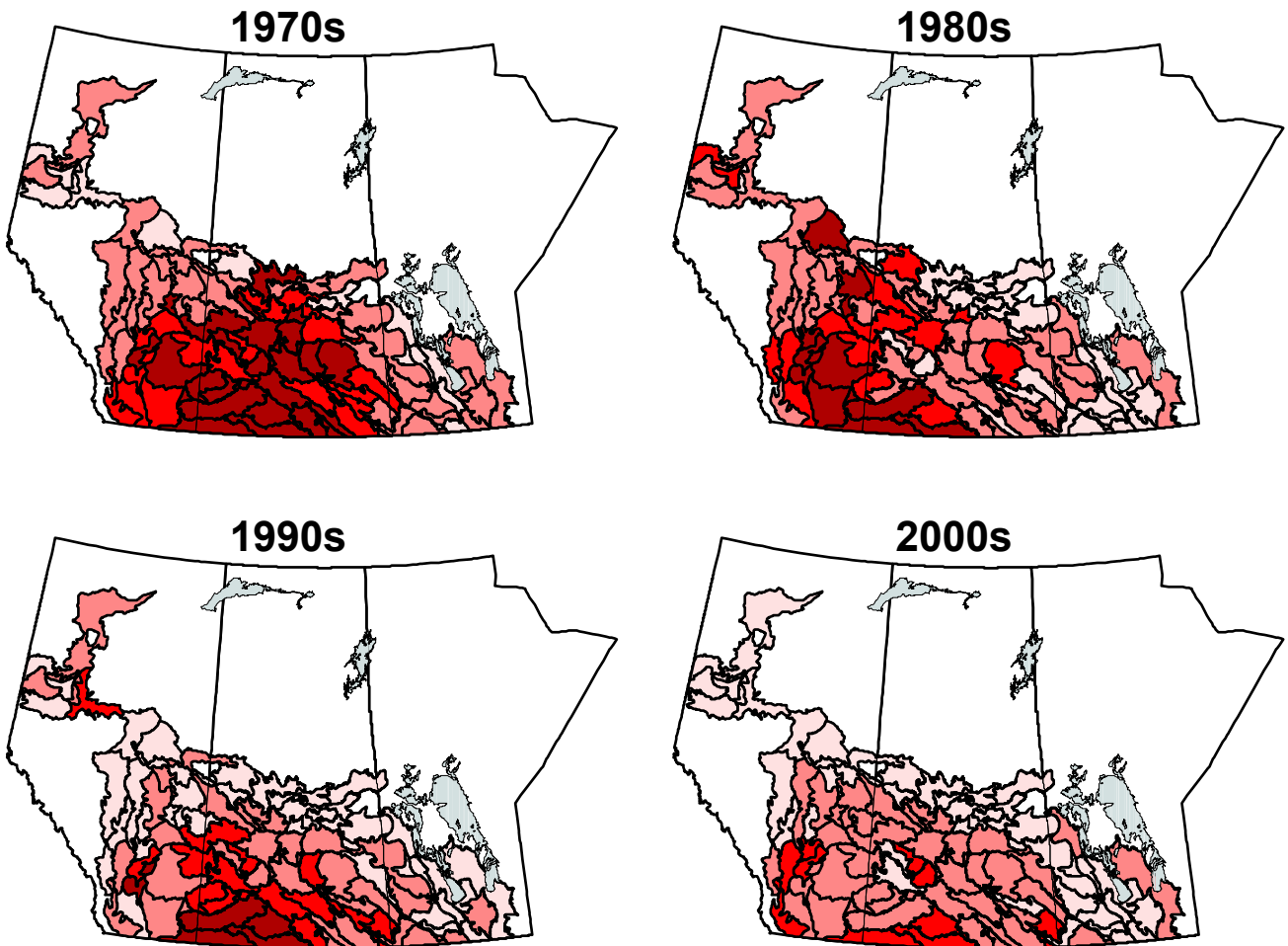
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	17	9.4	-	-	1.0	10.7	859.2	3.9
1980s	14	13.0	4.0	31.1	1.2	9.6	119.6	6.2
1990s	18	10.1	2.5	25.1	0.8	8.1	201.0	5.0
2000s	16	9.3	2.4	25.6	0.5	5.3	96.6	5.5

Field uniformity is not available for the 1970s



# Flixweed, *Descurainia sophia*

- Annual or winter annual or biennial; introduced from Eurasia
- Common species in Alberta and Saskatchewan; less common in Manitoba
- Abundance has decreased since the 1970s



**Frequency**     Species not surveyed     0.1 to 10.0%     20.1 to 50.0%  
 Absent     10.1 to 20.0%     More than 50.0%

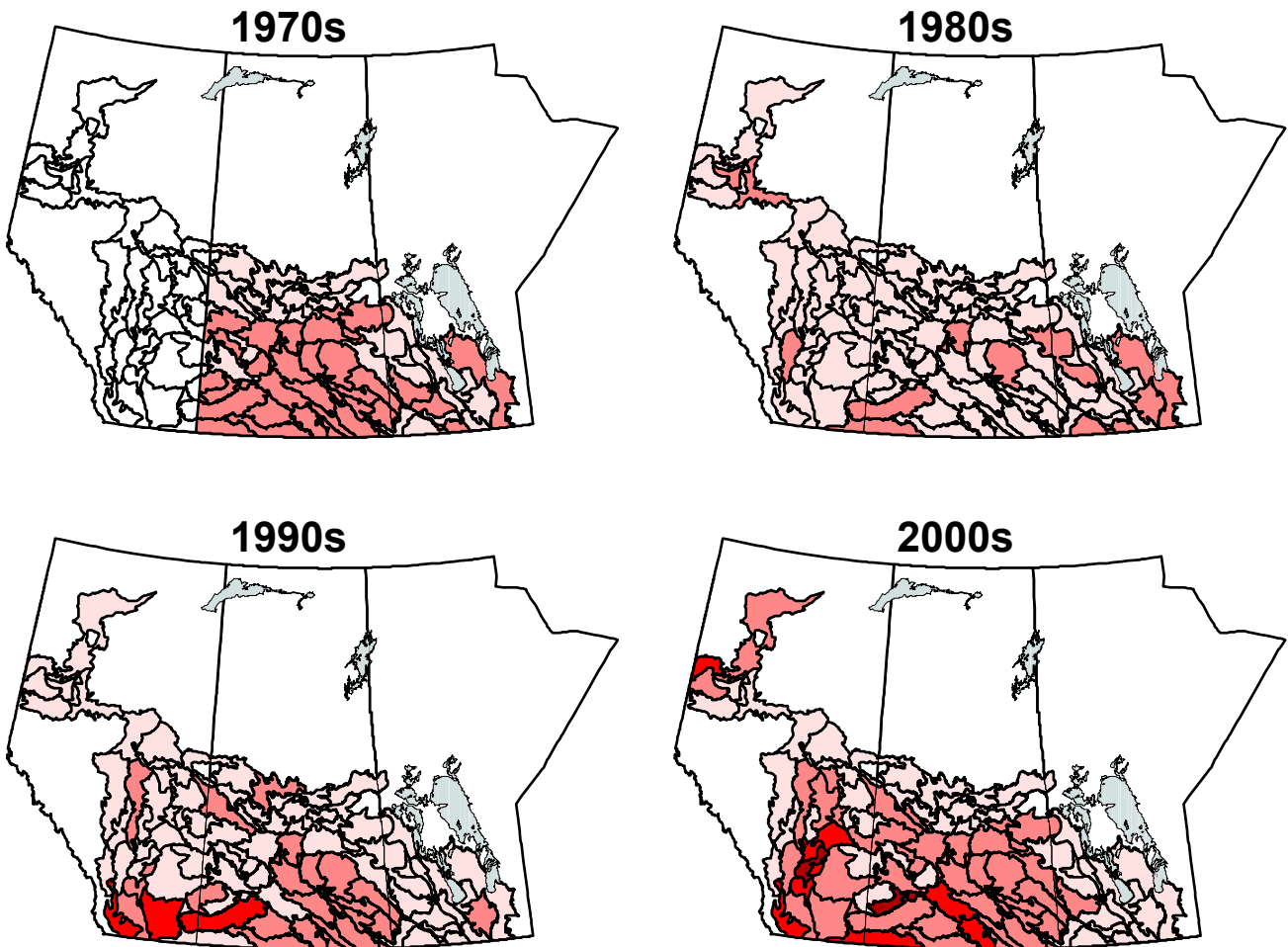
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	16	14.6	-	-	0.4	2.5	83.6	4.7
1980s	26	8.3	1.3	15.2	0.2	2.0	102.0	2.3
1990s	30	6.8	0.8	12.3	0.1	0.9	10.2	1.7
2000s	28	3.9	0.6	14.6	0.1	3.3	141.0	1.7

Field uniformity is not available for the 1970s



## Foxtail barley, *Hordeum jubatum*

- Perennial; native
- Low abundance in the 1980s but increased in 1990s and 2000s except in Manitoba
- Relatively low occurrence field densities



**Frequency**     Species not surveyed     0.1 to 10.0%     20.1 to 50.0%  
 Absent     10.1 to 20.0%     More than 50.0%

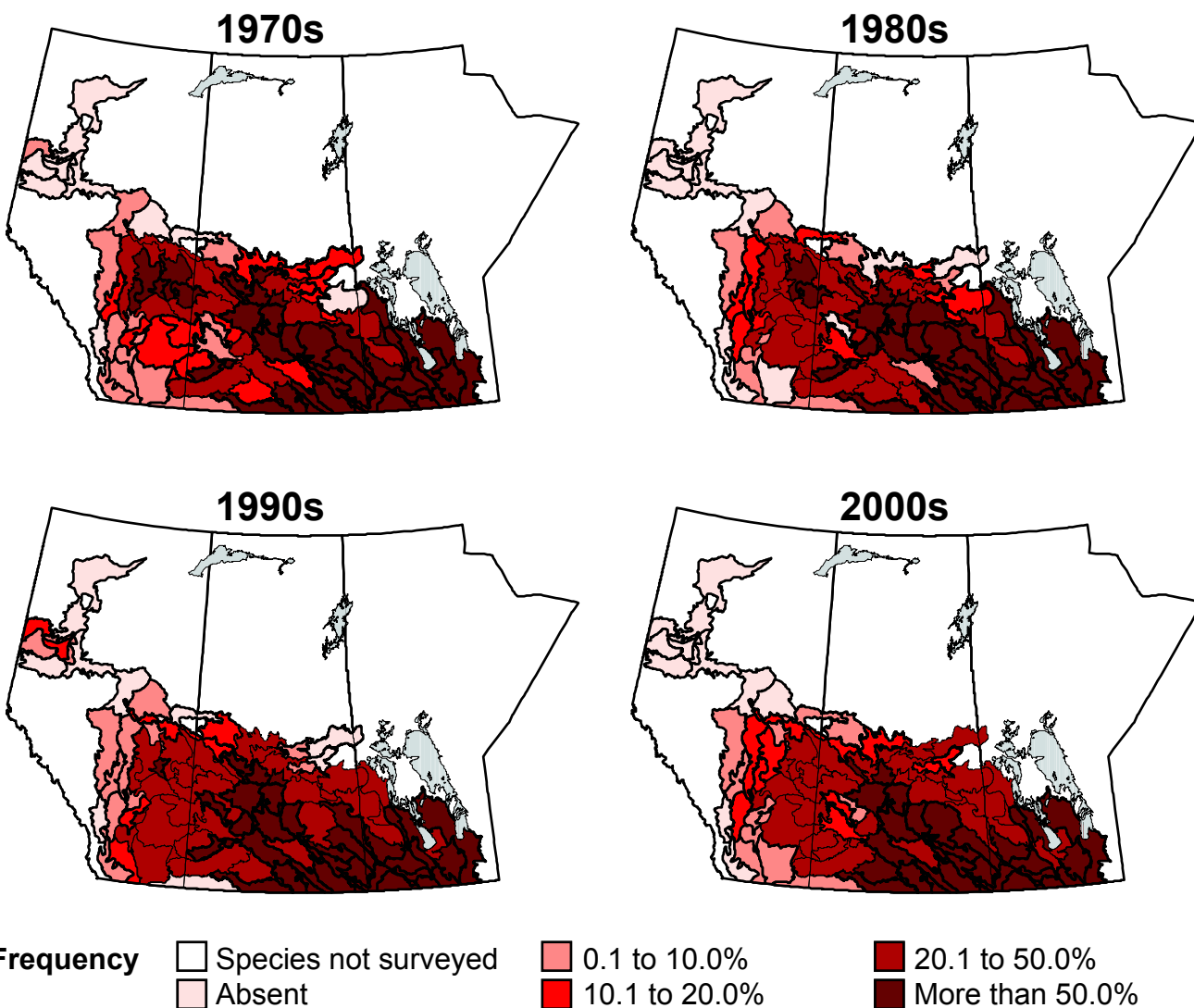
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	45	1.3	-	-	< 0.1	1.2	19.8	0.4
1980s	80	0.4	< 0.1	8.1	< 0.1	1.0	10.6	0.1
1990s	46	2.2	0.2	10.7	< 0.1	1.2	9.6	0.5
2000s	32	3.8	0.4	11.5	0.1	1.8	96.0	1.4

Field uniformity is not available for the 1970s



## Green foxtail, *Setaria viridis*

- Annual; introduced from Eurasia
- Most abundant species in each survey
- Frequency, uniformity and density reduced through time



Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	1	47.2	-	-	32.2	68.1	1459.8	46.4
1980s	1	49.3	27.3	55.4	19.1	38.8	1592.6	52.8
1990s	1	46.3	19.7	42.6	10.4	22.4	1693.2	44.1
2000s	1	37.3	15.2	40.8	8.8	23.6	1070.0	48.8

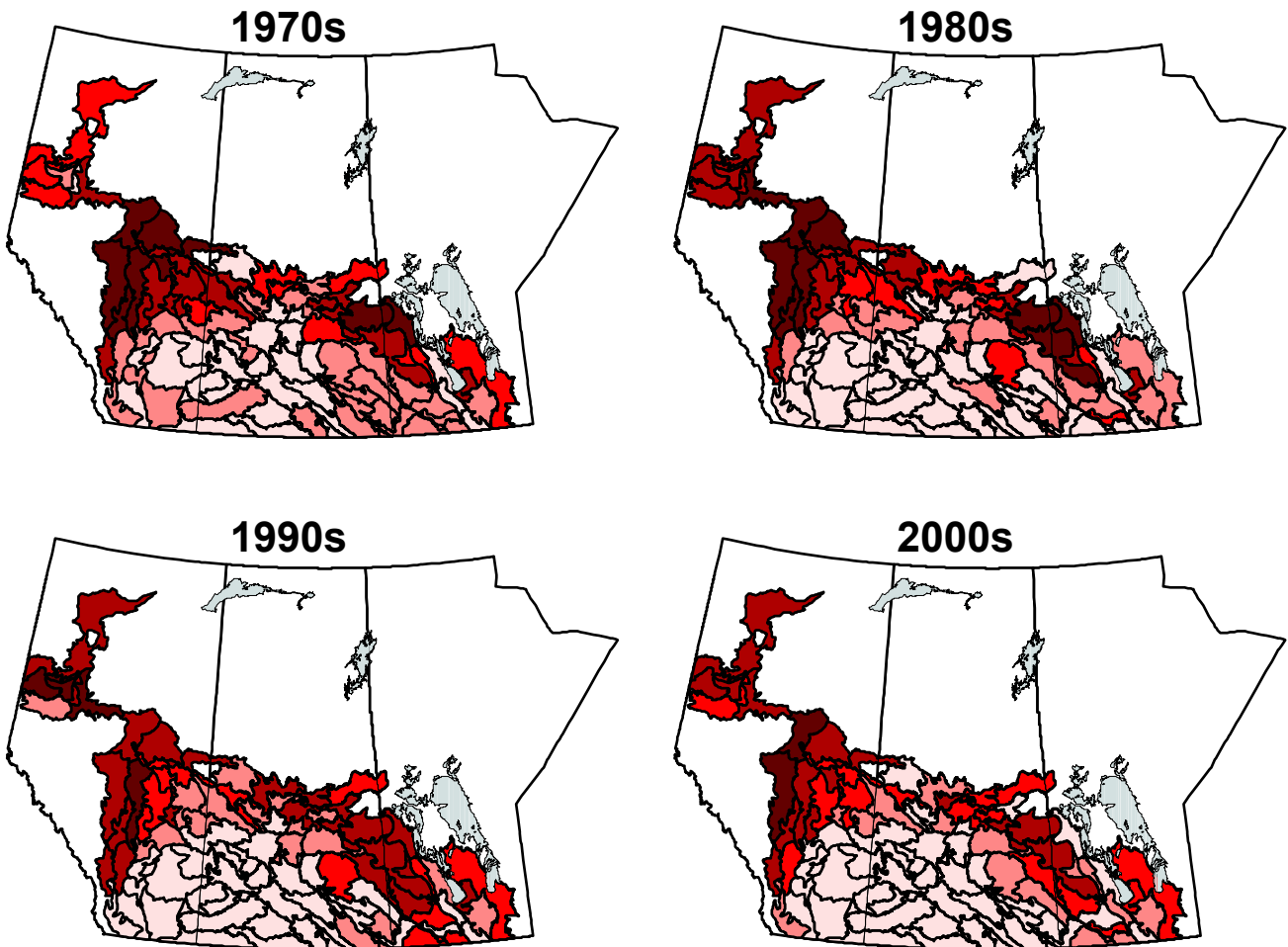
Field uniformity is not available for the 1970s





## Hemp-nettle, *Galeopsis tetrahit*

- Annual; introduced from Eurasia
- Slightly lower abundance in the 1990s and 2000s
- Distribution pattern across the prairies has not changed



**Frequency**

	Species not surveyed		0.1 to 10.0%		10.1 to 20.0%		20.1 to 50.0%		More than 50.0%
	Absent								

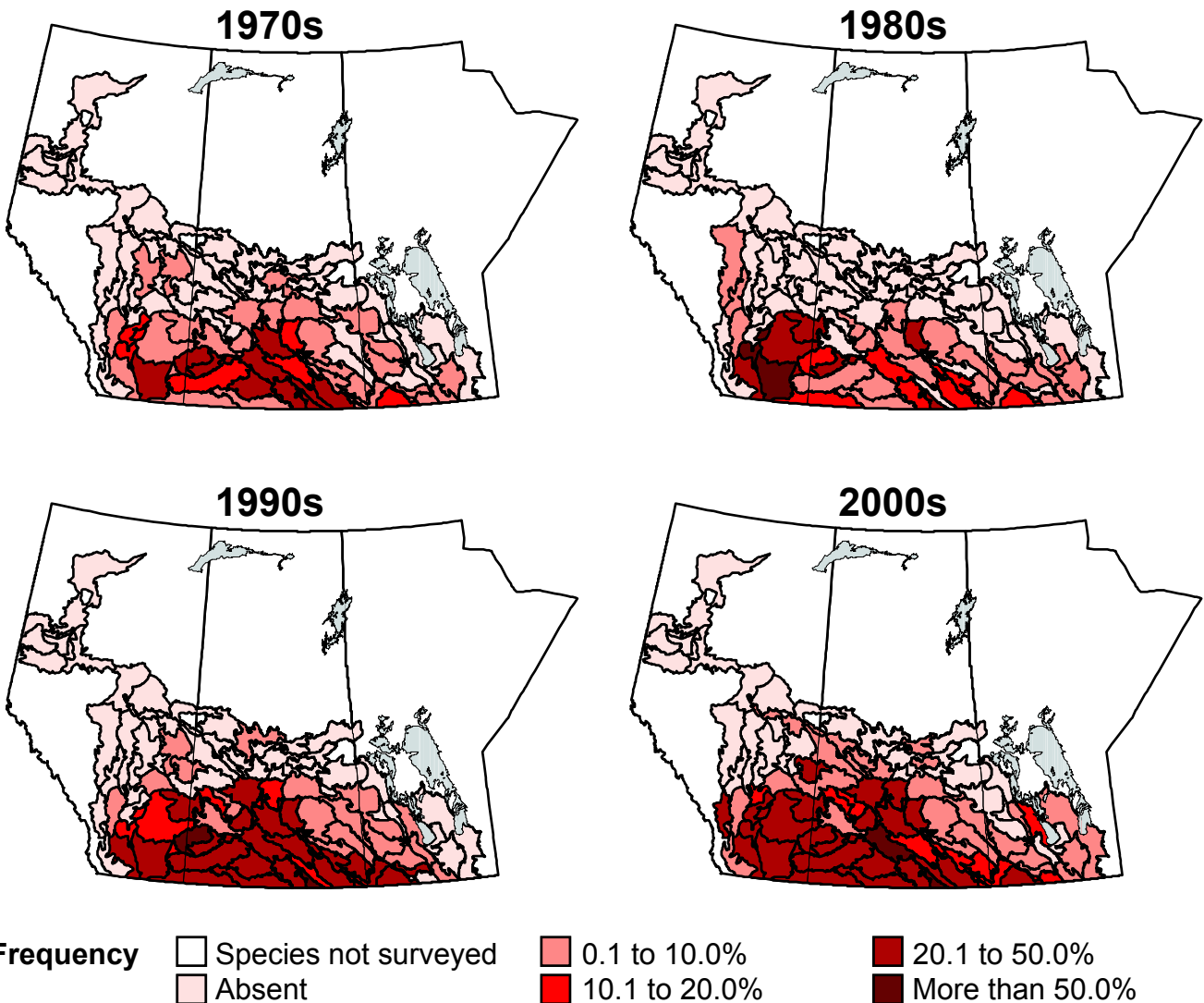
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	14	12.4	-	-	2.5	19.8	1003.2	6.2
1980s	12	13.3	4.3	32.3	1.4	10.2	272.0	6.6
1990s	19	11.3	3.1	27.5	0.5	4.4	55.6	4.8
2000s	17	9.3	2.2	24.0	0.5	4.9	199.2	5.2

Field uniformity is not available for the 1970s



## Kochia, *Kochia scoparia*

- Annual; introduced from Eurasia
- Increase in abundance and distribution in the 1990s and 2000s
- Absent from northern Alberta



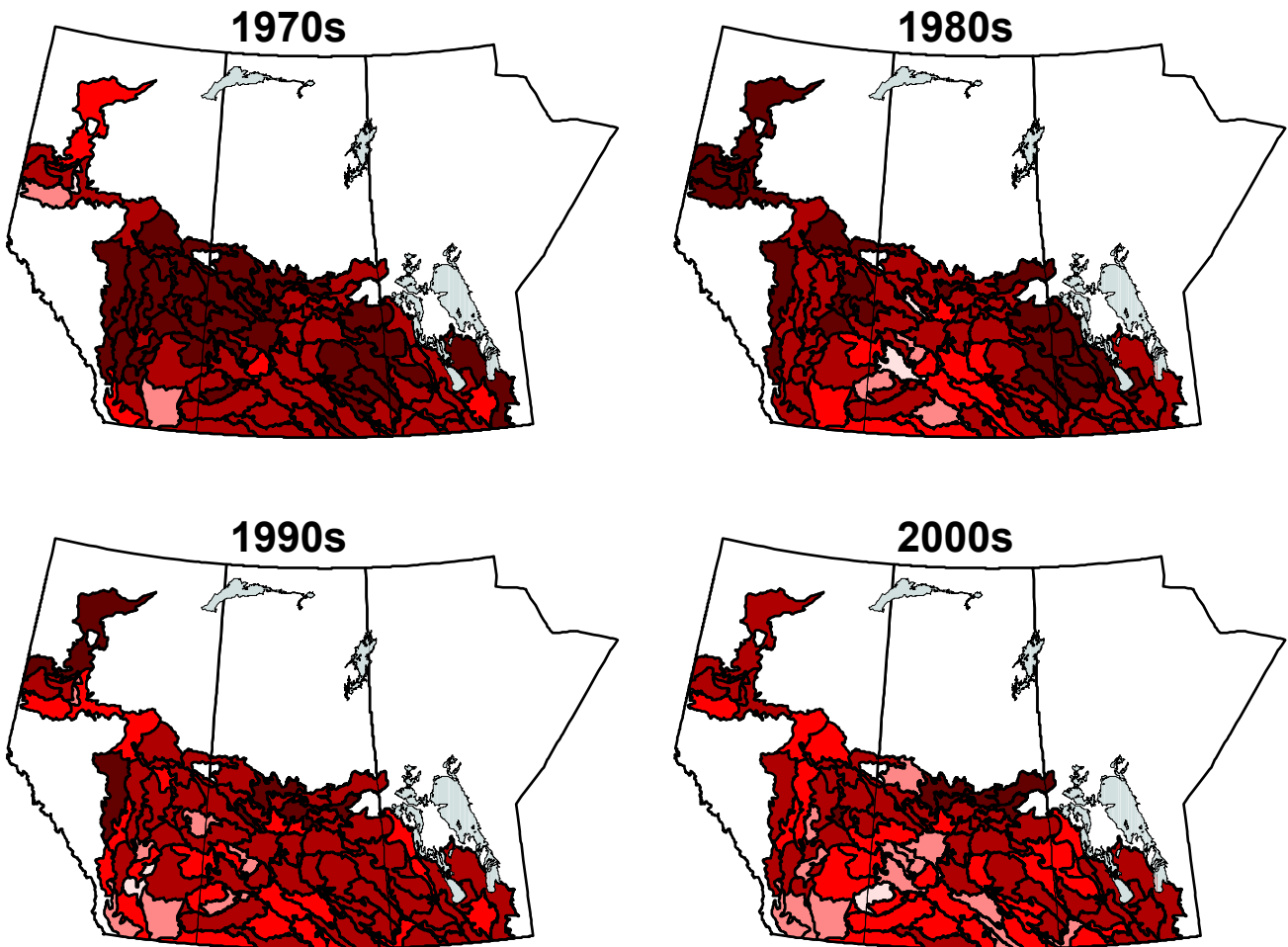
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	24	6.2	-	-	0.3	5.5	252.0	2.2
1980s	24	6.2	1.6	25.5	0.4	5.8	122.4	2.4
1990s	20	11.9	2.4	20.0	0.3	2.8	50.8	4.1
2000s	10	13.3	2.9	21.5	0.6	4.5	197.0	7.0

Field uniformity is not available for the 1970s



## Lamb's-quarters, *Chenopodium album*

- Annual; introduced from Eurasia
- Includes the native net-seeded lamb's-quarters (*C. berlandieri*)
- Abundance and frequency have decreased since the 1970s; rank has remained unchanged



**Frequency**

<input type="checkbox"/> Species not surveyed	<input type="checkbox"/> 0.1 to 10.0%	<input type="checkbox"/> 20.1 to 50.0%
<input type="checkbox"/> Absent	<input type="checkbox"/> 10.1 to 20.0%	<input type="checkbox"/> More than 50.0%

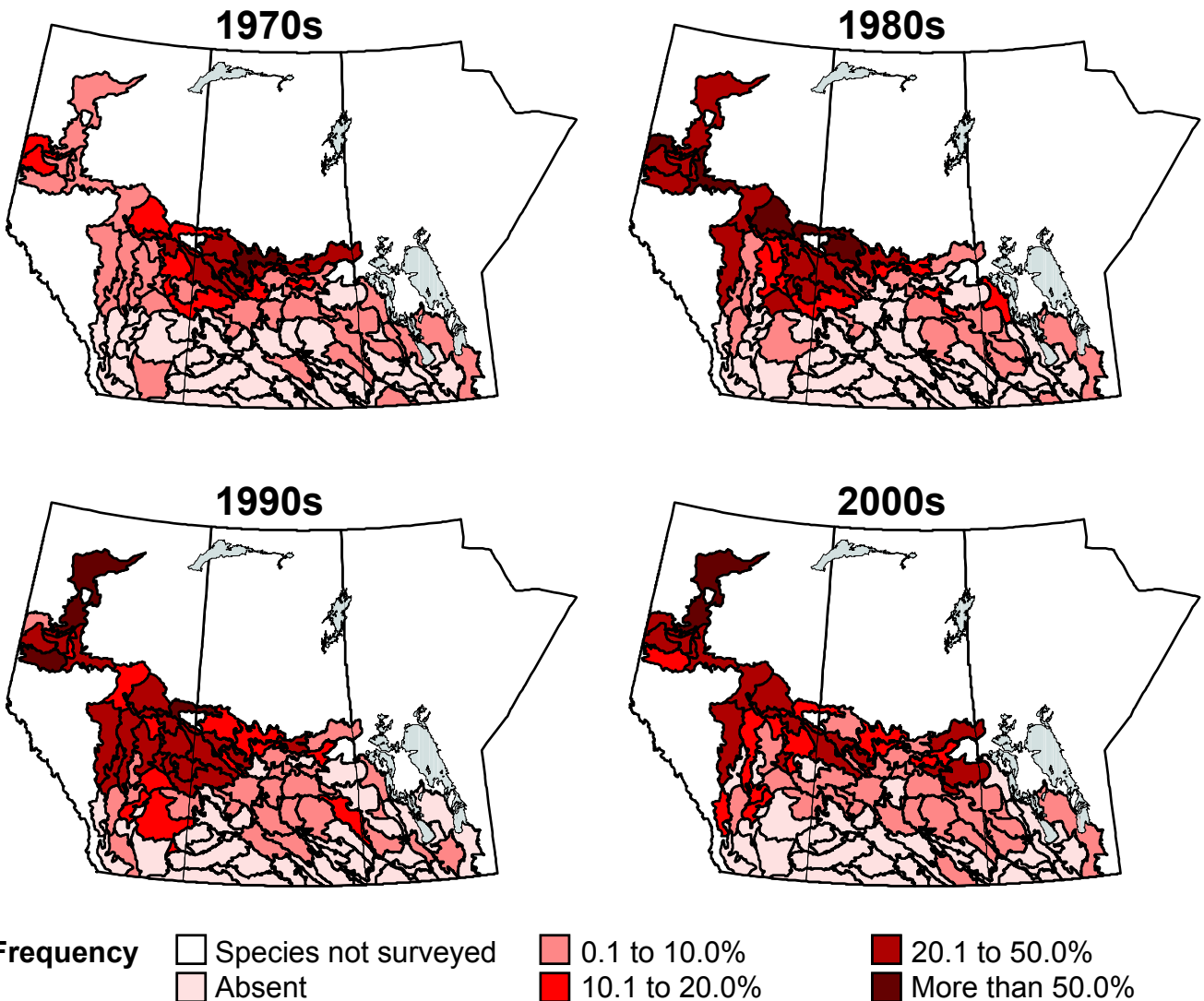
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	5	44.9	-	-	4.9	10.9	899.6	18.4
1980s	5	36.4	10.0	27.5	2.7	7.5	478.6	15.5
1990s	7	29.8	6.6	22.3	0.9	3.2	141.2	10.8
2000s	5	22.8	5.4	23.5	1.2	5.1	564.4	12.9

Field uniformity is not available for the 1970s



# Narrow-leaved hawk's-beard, *Crepis tectorum*

- Annual or winter annual; introduced from Eurasia
- No change in abundance
- Very common species in northern Alberta and northwestern Saskatchewan



Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	26	5.2	-	-	0.4	7.0	218.6	1.9
1980s	16	8.4	2.2	26.1	0.7	8.4	390.6	3.6
1990s	21	10.5	2.2	21.3	0.3	3.1	51.6	3.7
2000s	23	7.6	1.5	19.2	0.3	3.4	137.2	3.6

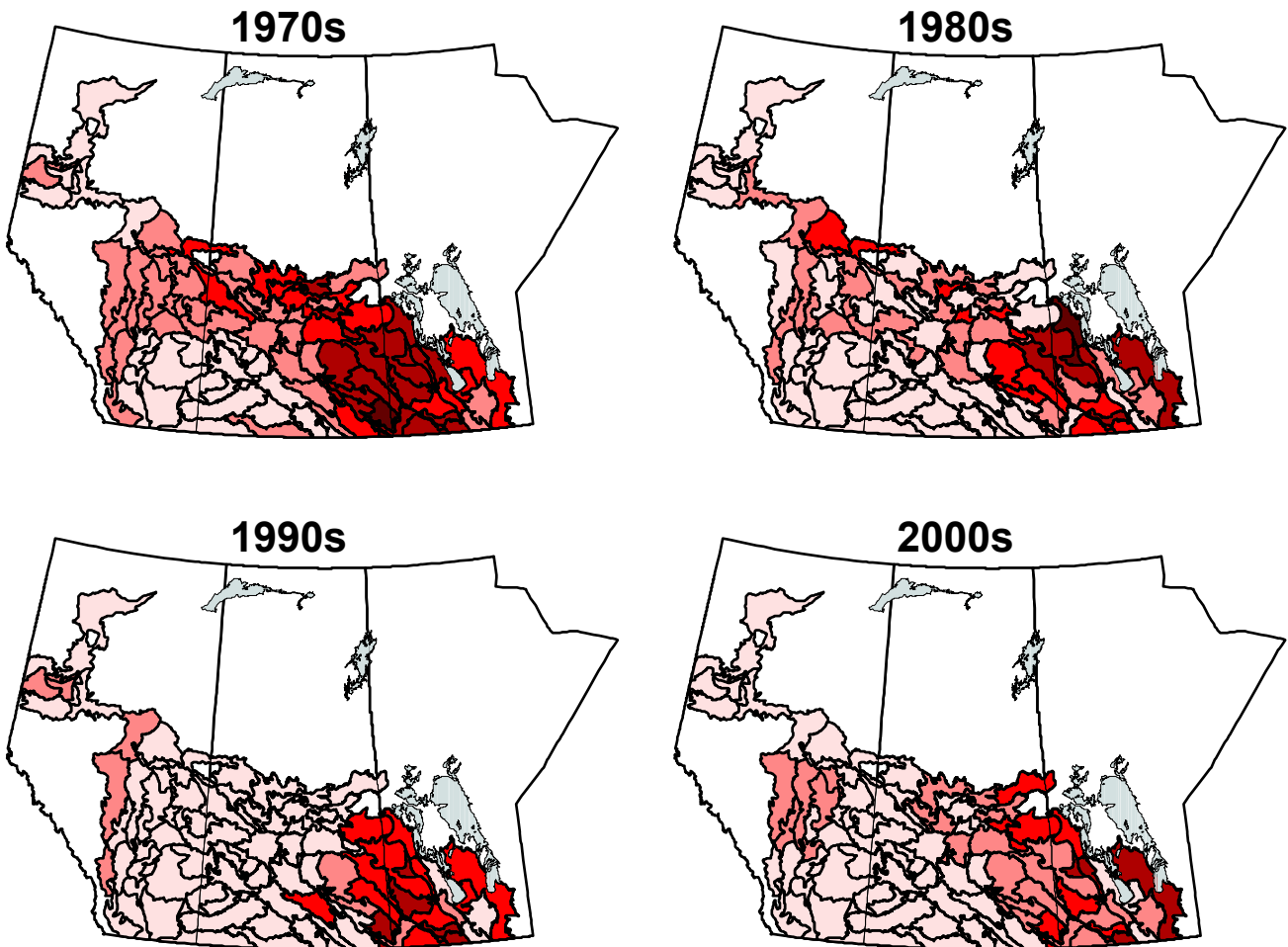
Field uniformity is not available for the 1970s





## Night-flowering catchfly, *Silene noctiflora*

- Annual; introduced from Europe
- Decrease in frequency, density and abundance since the 1970s
- Common species in Manitoba and eastern Saskatchewan



**Frequency**

	Species not surveyed		0.1 to 10.0%		20.1 to 50.0%
	Absent		10.1 to 20.0%		More than 50.0%

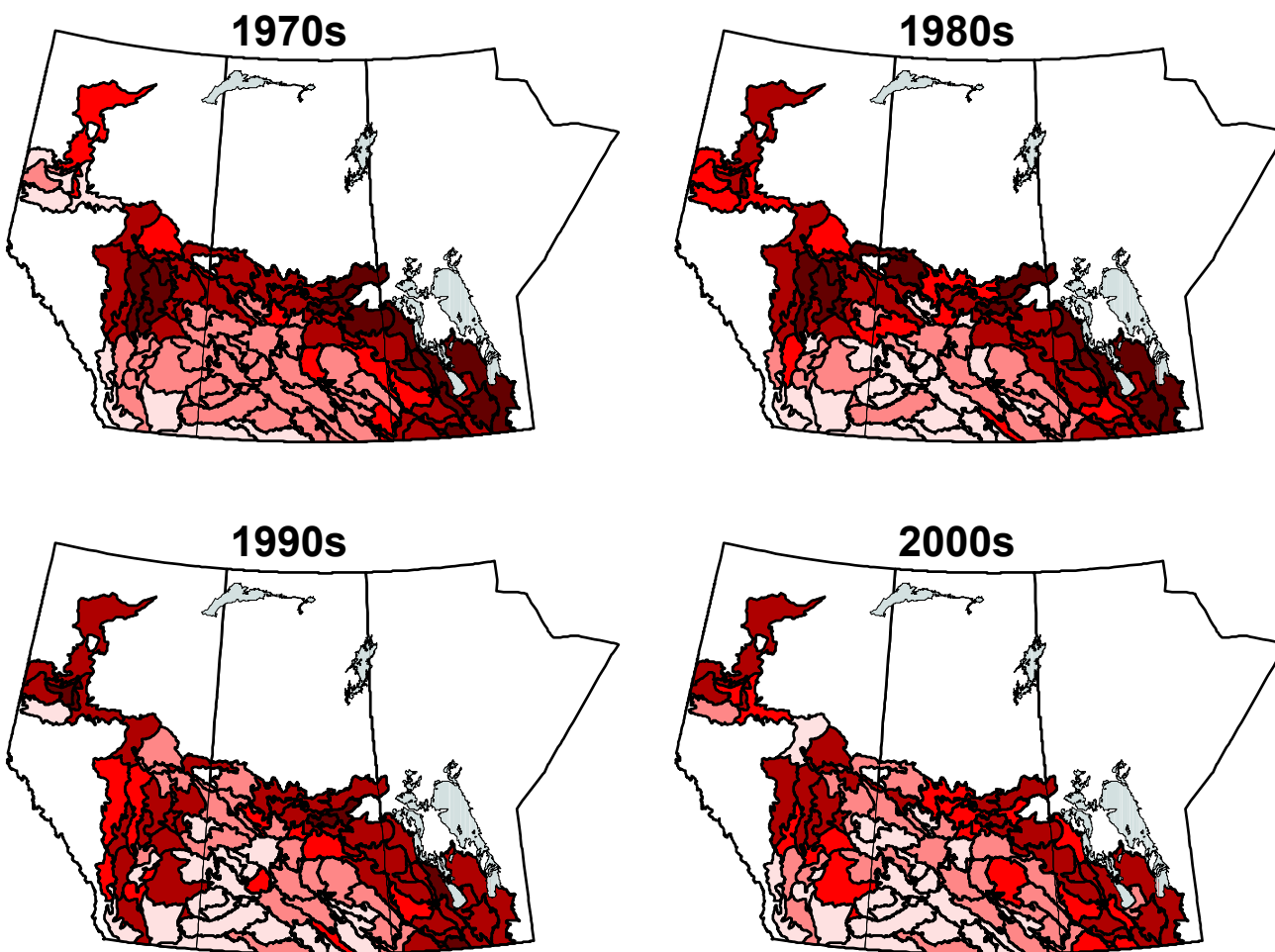
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	19	10.5	-	-	0.6	5.6	160.0	3.8
1980s	25	6.3	1.8	28.1	0.3	4.0	57.6	2.3
1990s	31	4.5	1.1	23.5	0.1	3.2	46.0	1.7
2000s	33	3.0	0.6	18.8	0.1	2.2	31.6	1.3

Field uniformity is not available for the 1970s



## Pale smartweed, *Polygonum lapathifolium*

- Annual; native
- Includes green smartweed (*P. scabrum*), introduced from Eurasia
- Decrease in frequency, density and abundance since the 1970s



**Frequency**

	Species not surveyed		0.1 to 10.0%		20.1 to 50.0%
	Absent		10.1 to 20.0%		More than 50.0%

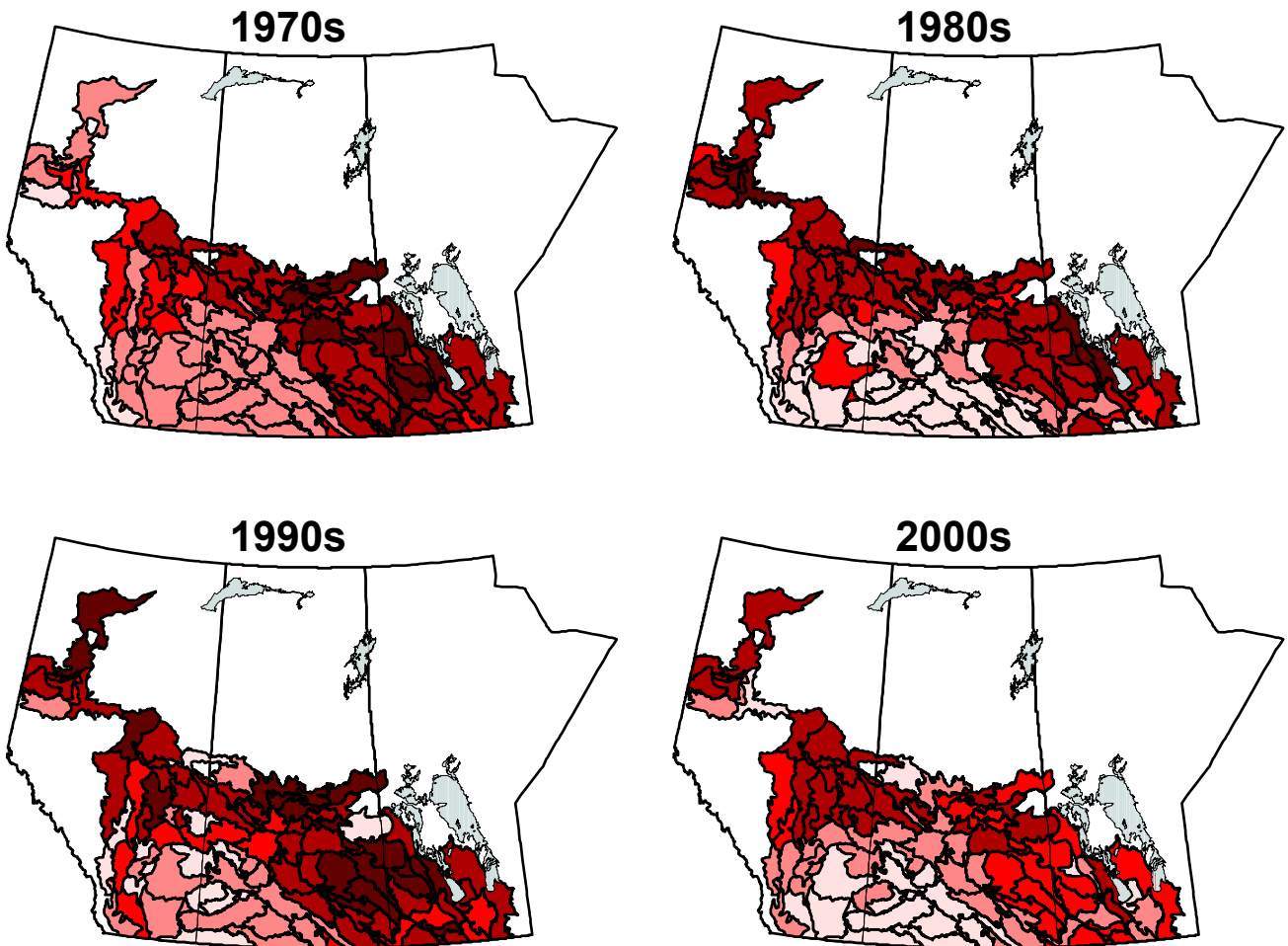
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	9	20.2	-	-	4.3	21.1	1188.8	10.4
1980s	9	22.7	6.3	27.7	1.2	5.2	96.4	8.9
1990s	15	17.7	3.5	19.8	0.5	2.8	133.0	6.0
2000s	13	11.8	2.4	20.5	0.4	3.5	145.2	5.8

Field uniformity is not available for the 1970s



# Perennial sow-thistle, *Sonchus arvensis*

- Perennial; introduced from Eurasia
- Includes a group called sow-thistle species in the 1970s
- Overall decrease in abundance but species was most frequent and abundant in the 1990s



**Frequency**    □ Species not surveyed    □ 0.1 to 10.0%    □ 20.1 to 50.0%  
                   □ Absent                            □ 10.1 to 20.0%    □ More than 50.0%

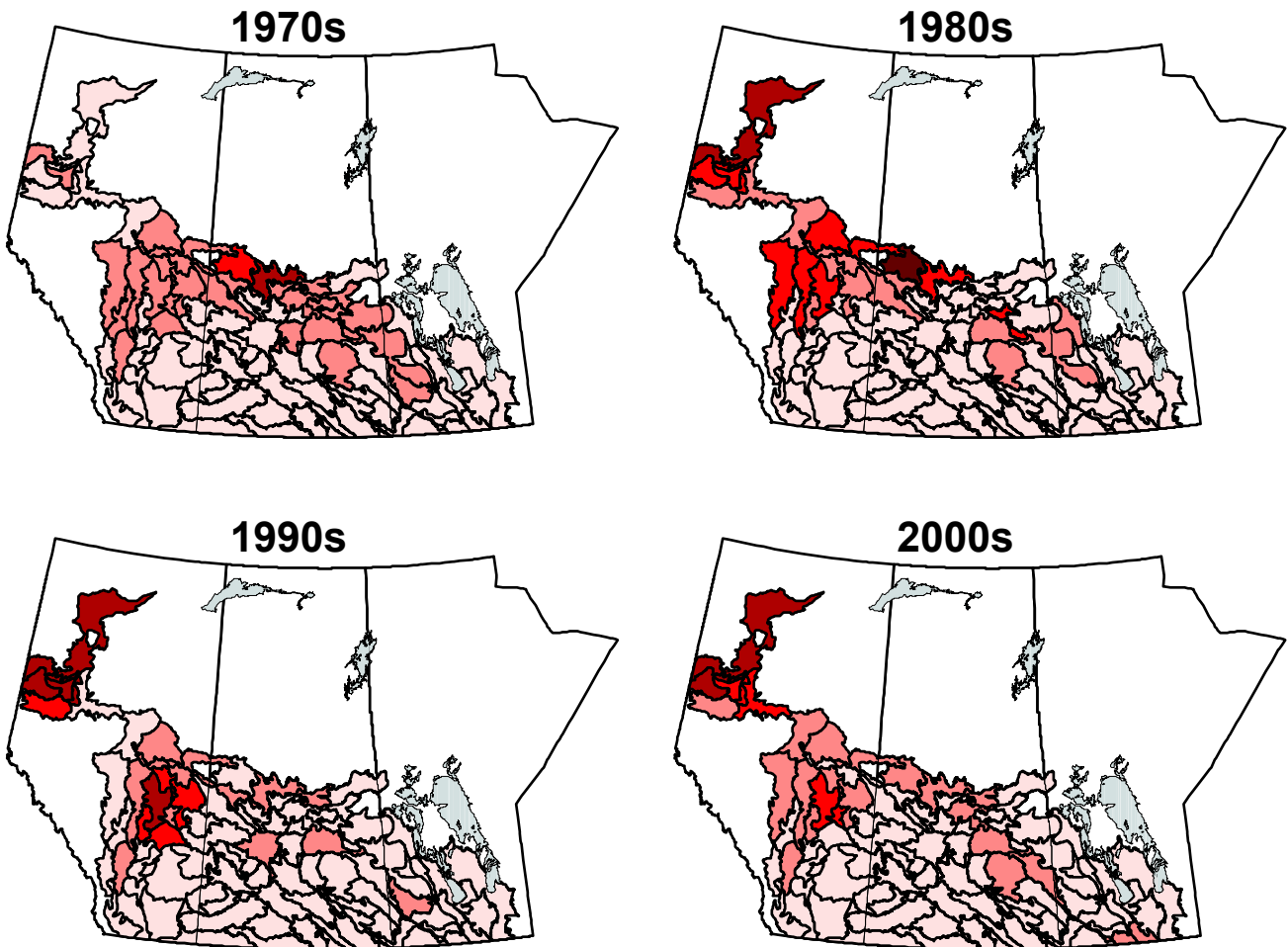
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	11	23.8	-	-	0.7	2.8	104.0	7.8
1980s	15	17.3	3.3	19.0	0.4	2.5	58.2	5.2
1990s	8	30.0	6.5	21.6	0.8	2.7	74.0	10.4
2000s	19	12.1	1.9	15.5	0.2	1.6	64.8	4.7

Field uniformity is not available for the 1970s



## Pineappleweed, *Matricaria discoidea*

- Annual; native
- Increase in relative abundance in the 1990s and 2000s
- Most abundant in the northern portion of Alberta



**Frequency**     Species not surveyed     0.1 to 10.0%     20.1 to 50.0%  
 Absent     10.1 to 20.0%     More than 50.0%

Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	51	1.0	-	-	0.1	5.6	94.0	0.3
1980s	37	2.8	0.5	17.3	0.1	4.5	145.2	0.9
1990s	27	3.7	0.8	22.2	0.4	10.6	258.6	2.0
2000s	29	2.5	0.6	23.3	0.2	6.7	172.4	1.6

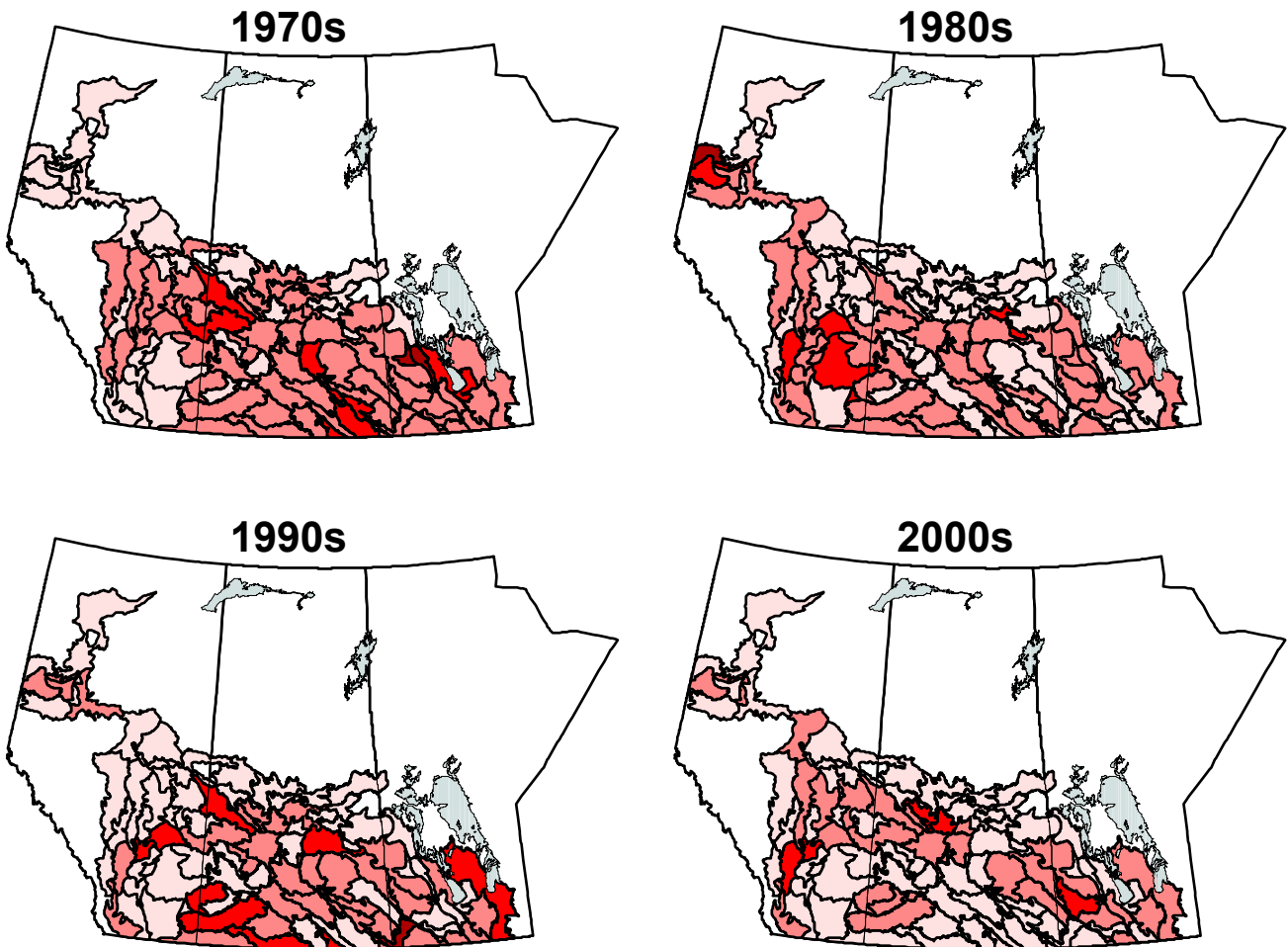
Field uniformity is not available for the 1970s





## Prostrate knotweed, *Polygonum aviculare*

- Annual; introduced from Eurasia
- Includes the native species, striate and erect knotweed (*P. achoreum* & *P. erectum*)
- Slightly higher abundance in the 1970s; found least frequently in the 2000s



**Frequency**

Species not surveyed	0.1 to 10.0%	20.1 to 50.0%
Absent	10.1 to 20.0%	More than 50.0%

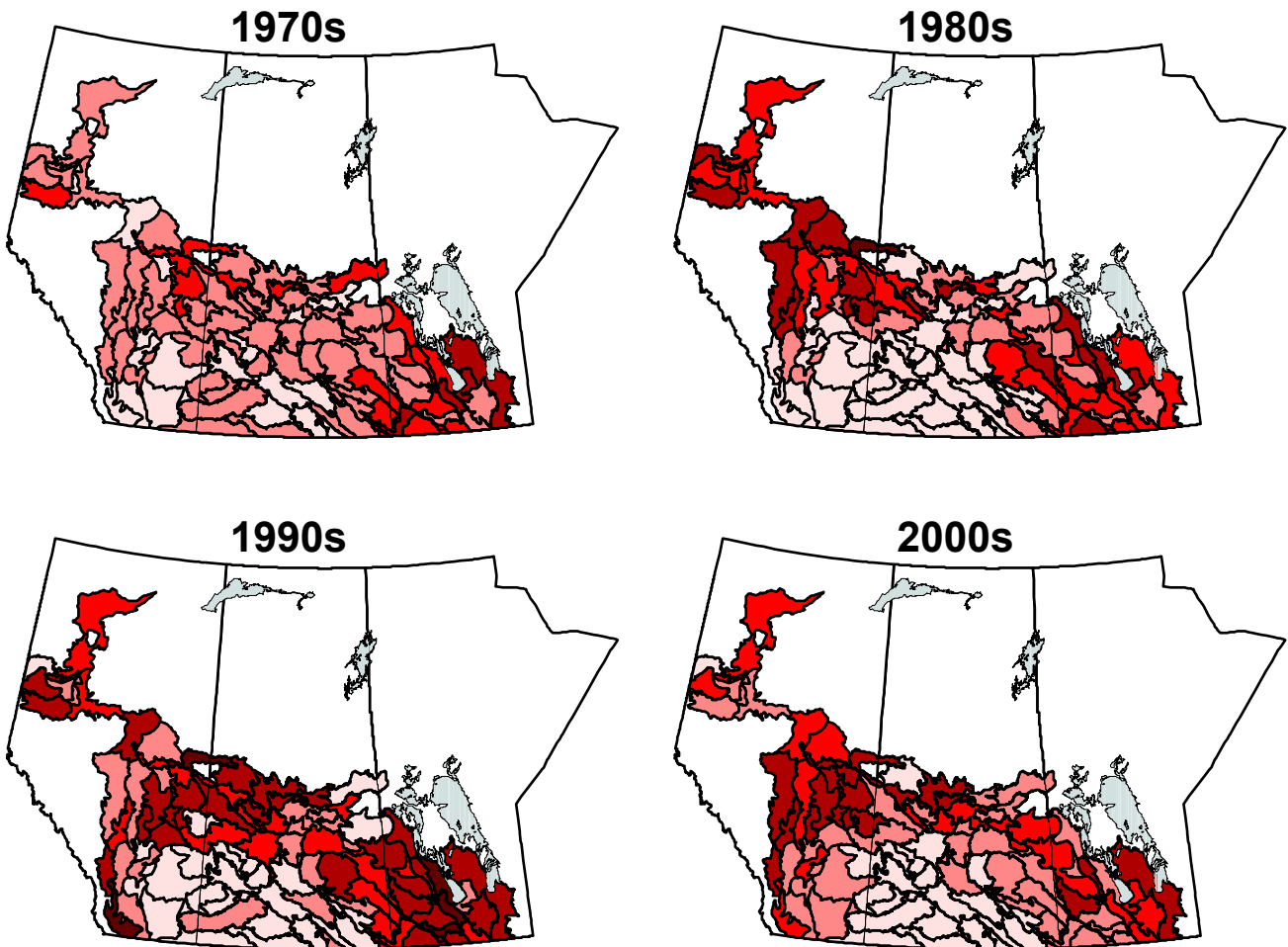
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	29	4.1	-	-	0.1	2.1	109.2	1.3
1980s	42	2.9	0.4	13.2	< 0.1	1.6	17.0	0.8
1990s	36	3.8	0.5	14.1	0.1	1.5	24.0	1.0
2000s	39	1.9	0.3	16.2	< 0.1	1.9	55.8	0.8

Field uniformity is not available for the 1970s



## Quack grass, *Elytrigia repens*

- Perennial; introduced from Eurasia
- Commonly occurring species; least abundant in the grassland regions
- Most abundant in the 1990s



**Frequency**

	Species not surveyed		0.1 to 10.0%		10.1 to 20.0%		20.1 to 50.0%		More than 50.0%
	Absent								

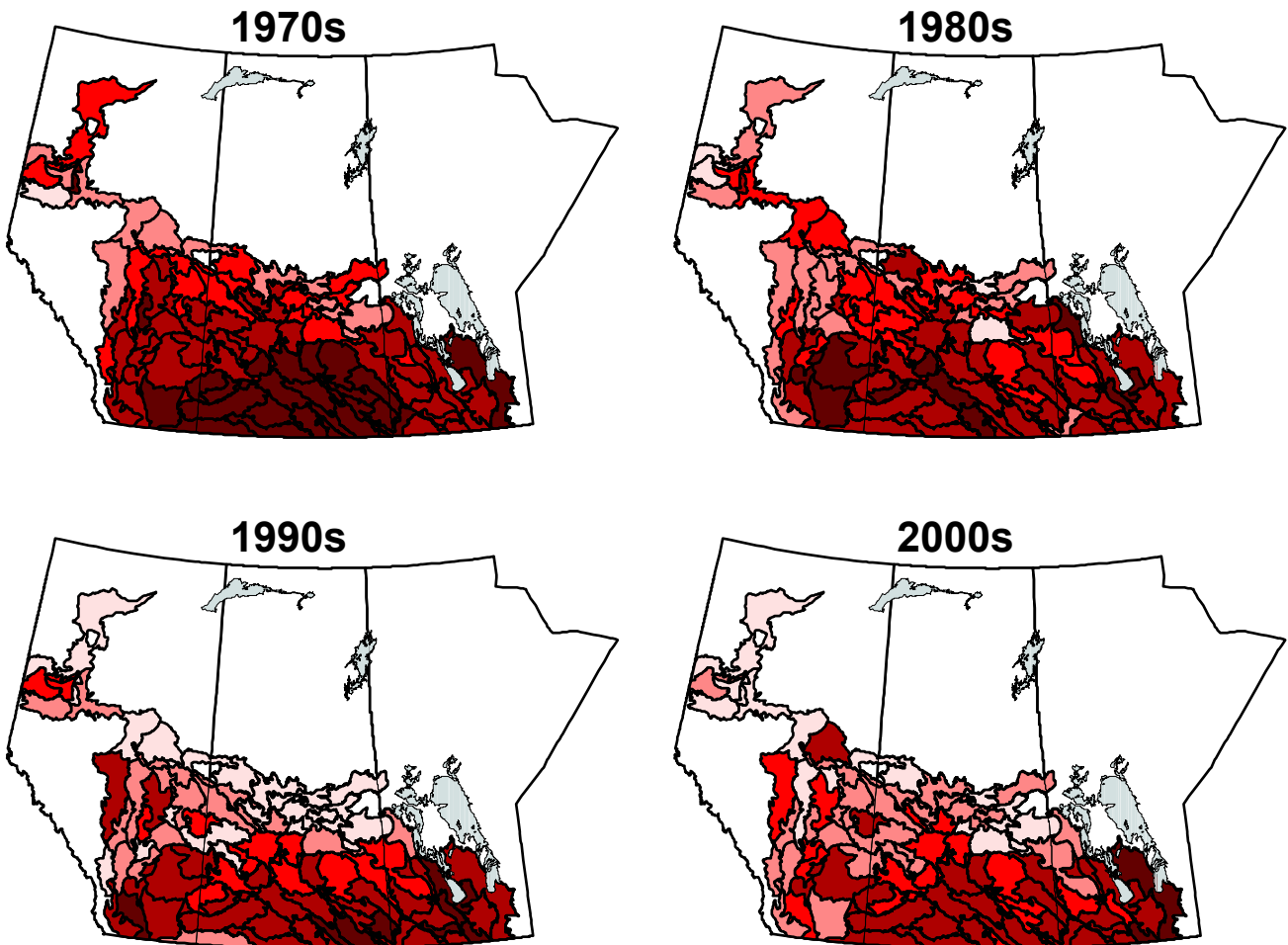
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	25	5.6	-	-	0.4	7.8	361.8	2.1
1980s	19	9.1	1.8	20.3	0.6	6.9	199.2	3.4
1990s	13	14.4	3.1	21.2	0.9	6.0	181.0	6.1
2000s	21	8.6	1.8	20.5	0.4	4.9	139.8	4.6

Field uniformity is not available for the 1970s



## Redroot pigweed, *Amaranthus retroflexus*

- Annual; introduced from tropical America
- Very common species throughout the prairies
- Most frequent and abundant in the 1970s; small decline in abundance since the 1970s



**Frequency**

□ Species not surveyed	□ 0.1 to 10.0%	■ 20.1 to 50.0%
□ Absent	■ 10.1 to 20.0%	■ More than 50.0%

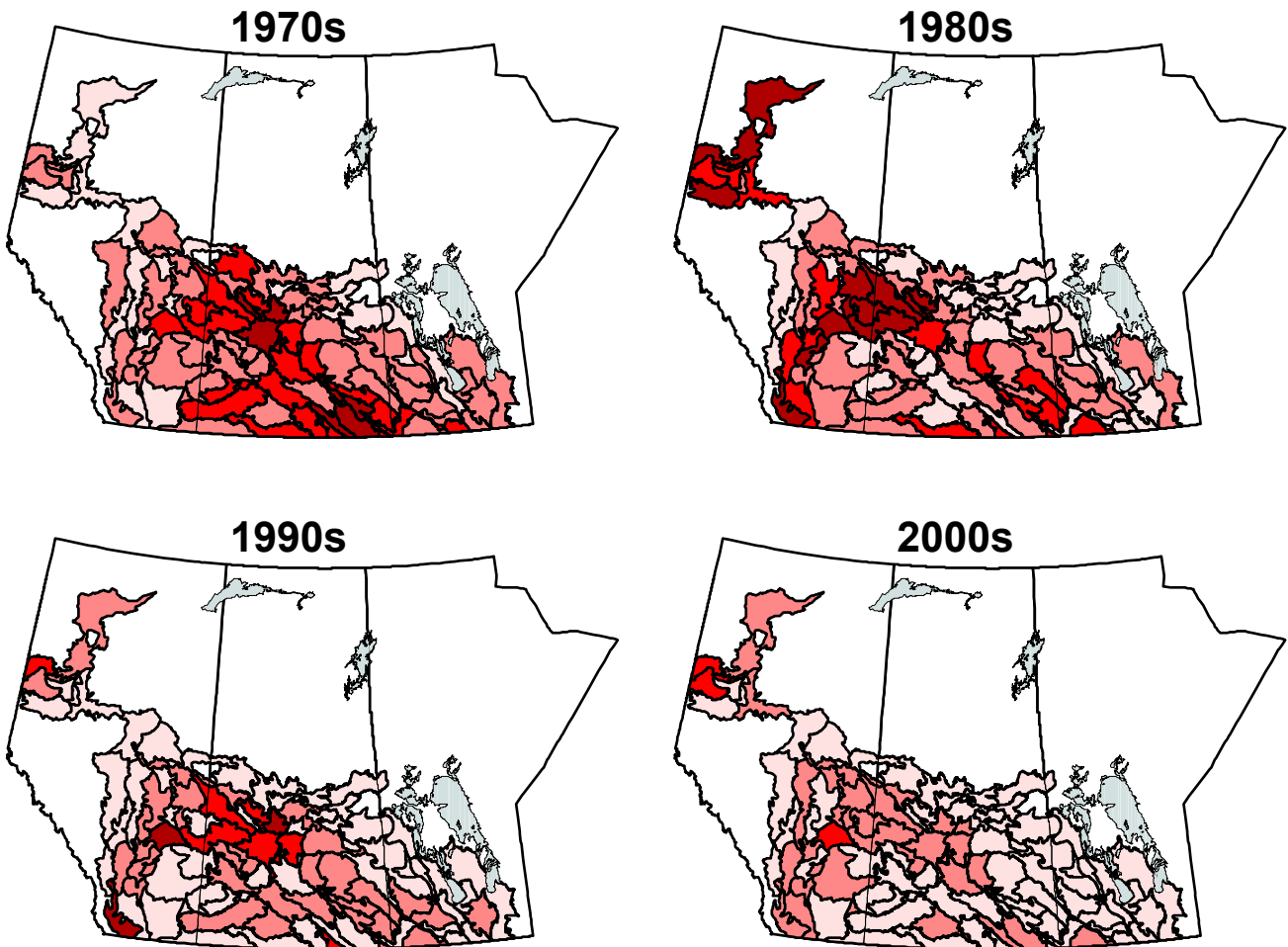
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	6	39.4	-	-	2.5	6.3	449.8	14.4
1980s	7	28.1	6.2	22.2	1.2	4.2	417.6	9.7
1990s	10	22.7	4.9	21.5	0.6	2.8	63.8	7.9
2000s	8	16.3	3.3	20.1	0.8	5.2	758.4	8.8

Field uniformity is not available for the 1970s



## Rose species, *Rosa spp.*

- Perennial; native
- Relatively common species throughout the prairies
- Significant decline in abundance since the 1970s



**Frequency**

Species not surveyed	0.1 to 10.0%	20.1 to 50.0%
Absent	10.1 to 20.0%	More than 50.0%

Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	23	7.6	-	-	0.1	1.6	37.8	2.4
1980s	29	8.9	0.9	10.0	0.1	1.0	10.6	2.1
1990s	38	3.9	0.4	9.8	< 0.1	1.0	9.8	0.9
2000s	44	1.4	0.1	9.5	< 0.1	1.1	9.0	0.5

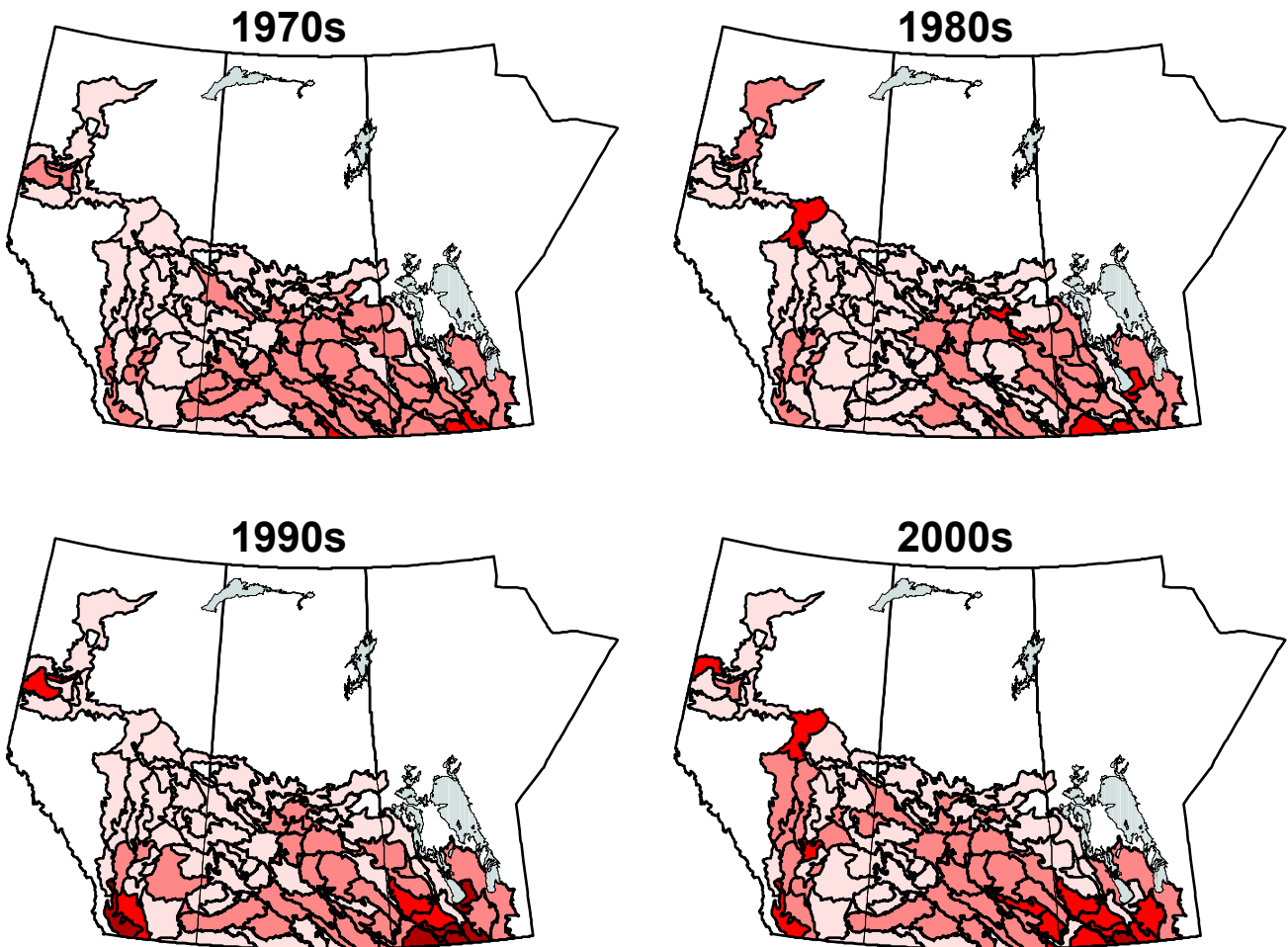
Field uniformity is not available for the 1970s





## Round-leaved mallow, *Malva pusilla*

- Annual or short-lived perennial; introduced from Europe
- Commonly occurring species throughout the prairies
- Increase in rank, frequency and relative abundance since the 1970s



**Frequency**

Species not surveyed	0.1 to 10.0%	20.1 to 50.0%
Absent	10.1 to 20.0%	More than 50.0%

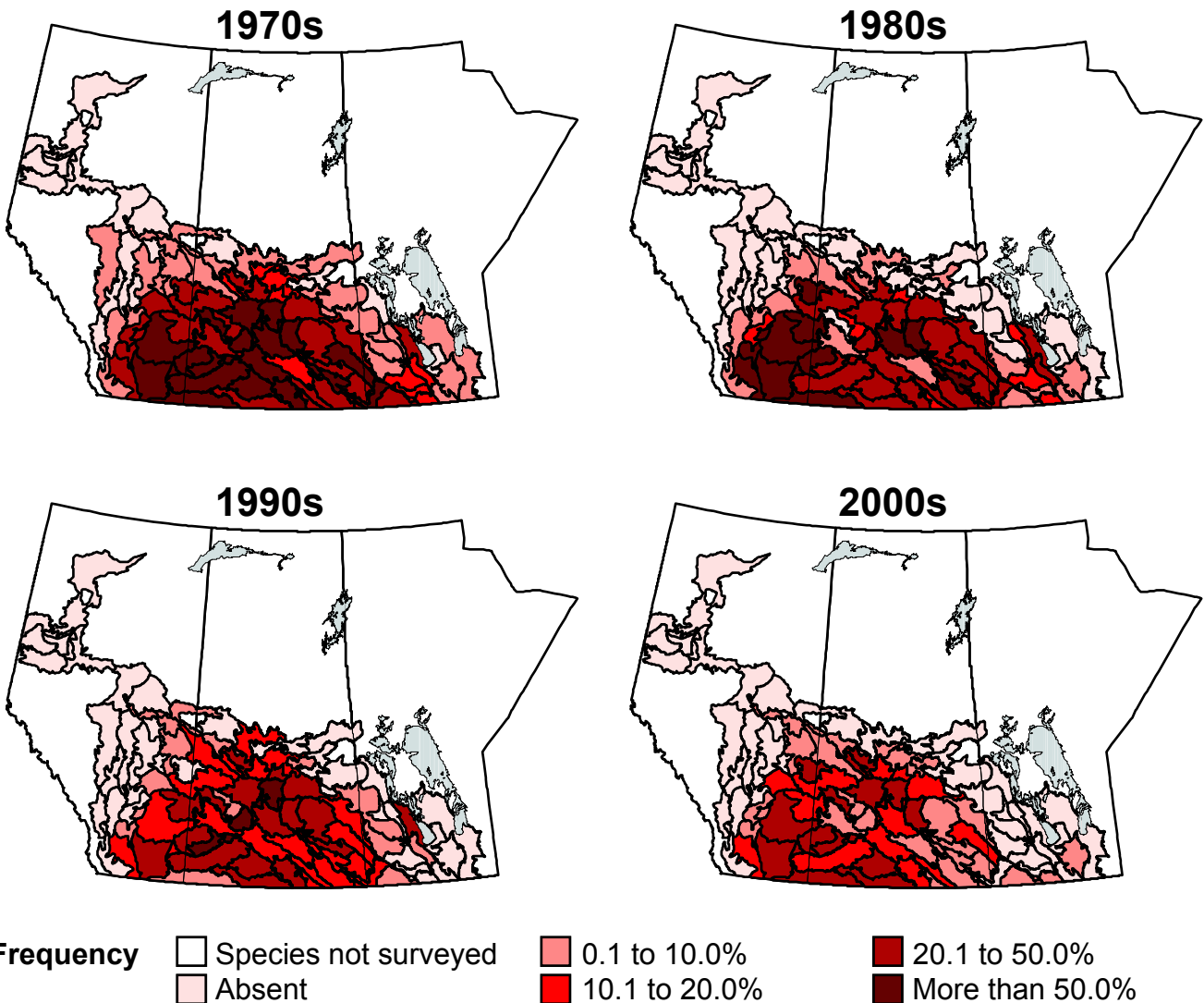
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )		Relative Abundance	
			All	Occurrence	All	High		
1970s	42	1.9	-	-	< 0.1	1.5	10.6	0.6
1980s	41	2.5	0.4	18.1	0.1	3.0	43.0	0.8
1990s	35	4.4	0.7	16.8	0.1	1.7	25.6	1.3
2000s	27	4.3	0.7	17.3	0.1	1.8	28.4	1.8

Field uniformity is not available for the 1970s



## Russian thistle, *Salsola kali*

- Annual; introduced from Eurasia
- Very common throughout the southern and central prairies; absent from northern Alberta
- Decrease in frequency, relative abundance and rank since the 1980s



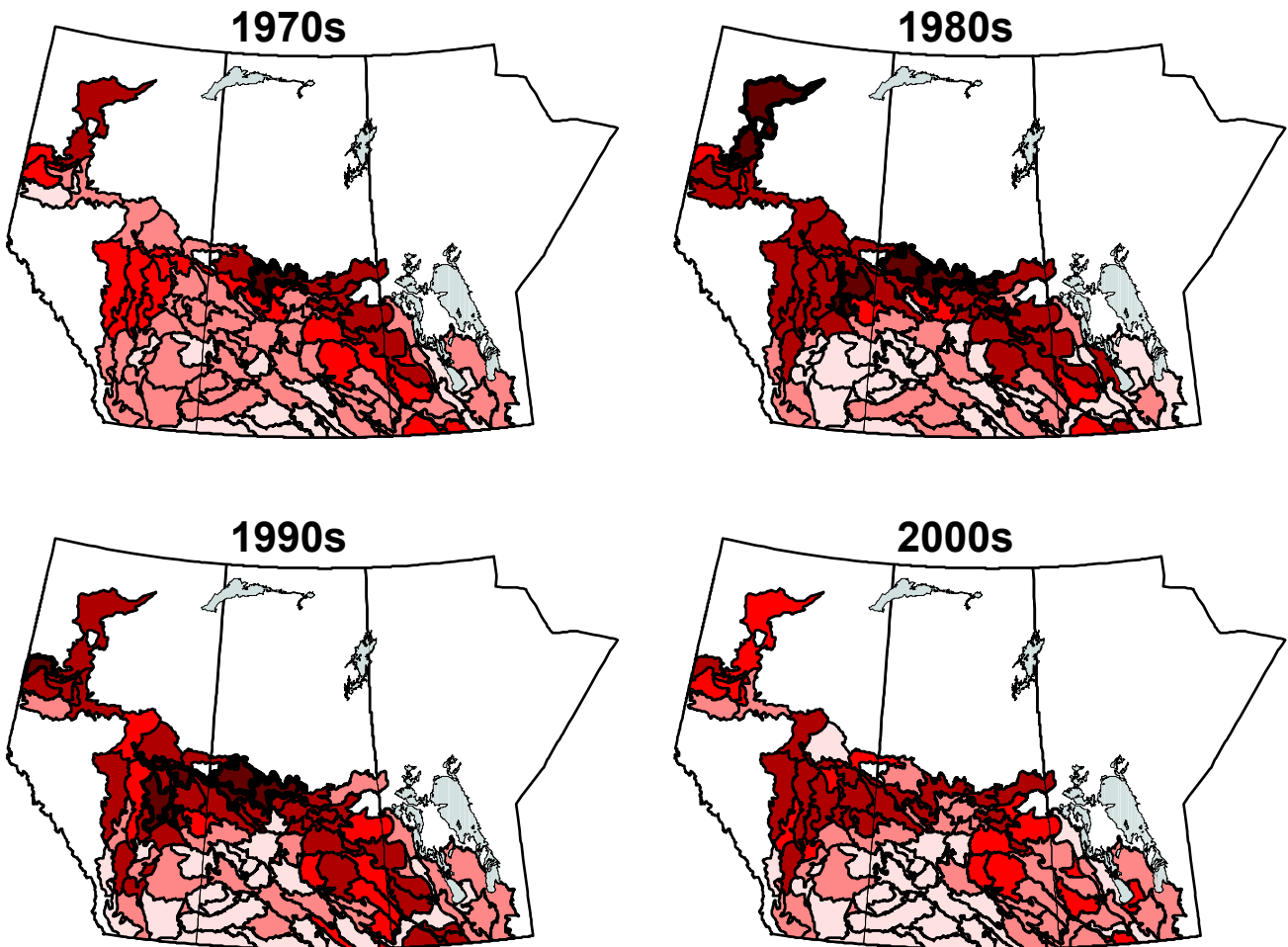
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	7	28.0	-	-	2.5	9.1	427.2	11.0
1980s	6	20.9	7.0	33.6	3.0	14.5	518.4	11.9
1990s	16	14.4	3.0	21.0	0.5	3.4	138.0	5.2
2000s	18	8.6	2.2	25.3	0.4	5.0	120.4	5.0

Field uniformity is not available for the 1970s




## Shepherd's-purse, *Capsella bursa-pastoris*

- Annual or winter annual or biennial; introduced from Europe
- Common species found throughout the prairies; least abundant in grassland ecoregions
- Variable abundance; high in the 1980s and 1990s and low in the 1970s and 2000s



**Frequency**

	Species not surveyed		0.1 to 10.0%		20.1 to 50.0%
	Absent		10.1 to 20.0%		More than 50.0%

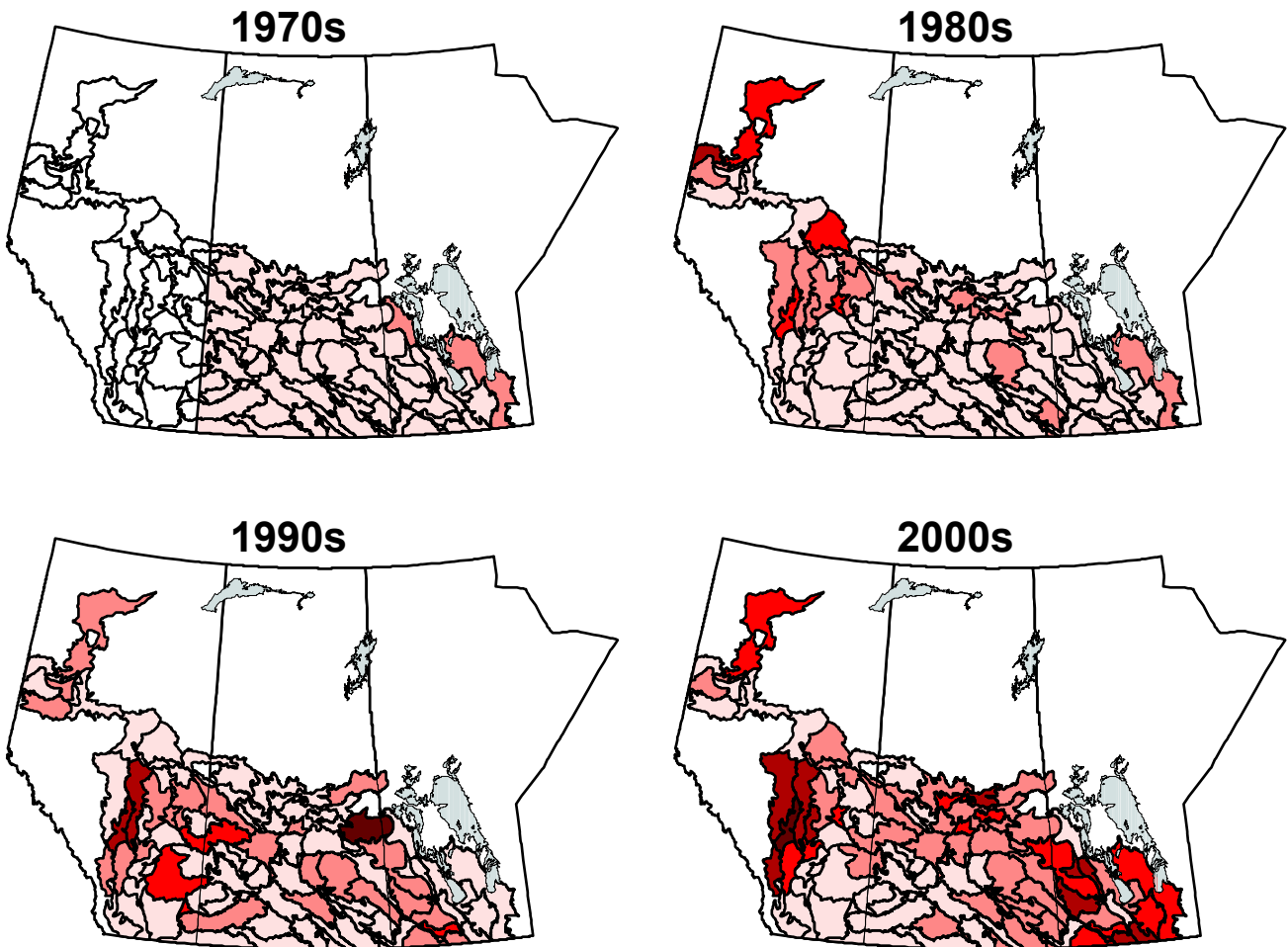
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	21	8.1	-	-	0.6	6.8	374.9	3.0
1980s	11	14.7	4.3	29.4	2.2	15.1	988.0	8.2
1990s	9	17.8	4.5	25.4	1.0	5.8	198.8	7.9
2000s	20	9.2	2.1	22.3	0.3	3.3	90.4	4.6

Field uniformity is not available for the 1970s



## Spiny annual sow-thistle, *Sonchus asper*

- Annual; introduced from Eurasia
- Includes annual sow-thistle (*S. oleraceus*); not always separated from perennial sow-thistle
- Significant increase in abundance; relatively high occurrence field density in 2000s



**Frequency**

Species not surveyed	0.1 to 10.0%	20.1 to 50.0%
Absent	10.1 to 20.0%	More than 50.0%

Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	132	< 0.1	-	-	< 0.1	5.0	6.8	< 0.1
1980s	56	1.2	0.2	18.8	< 0.1	1.8	20.4	0.4
1990s	39	2.8	0.5	19.1	0.1	2.1	29.4	0.9
2000s	22	7.3	1.6	22.6	0.4	5.7	275.2	4.2

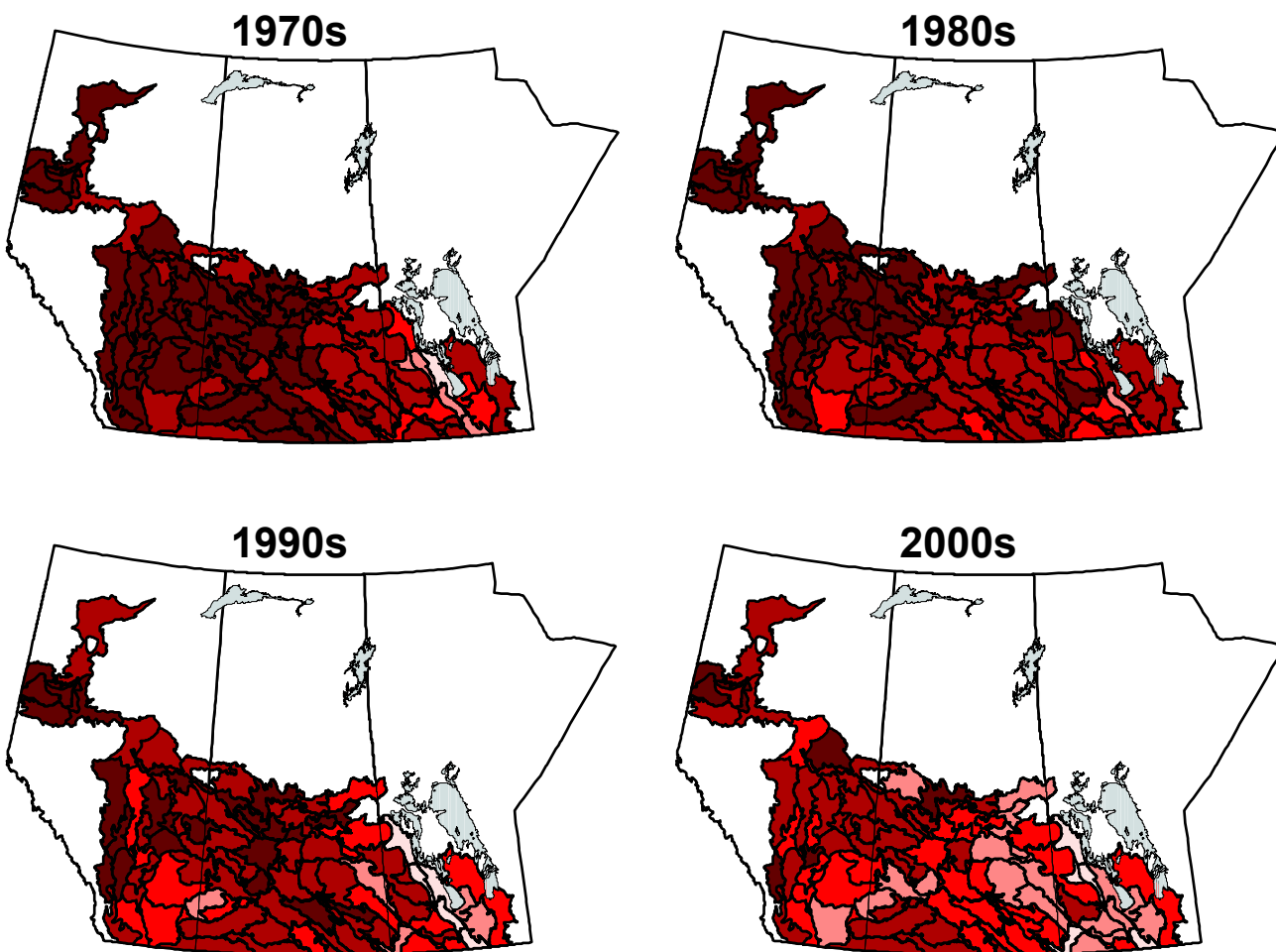
Field uniformity is not available for the 1970s





## Stinkweed, *Thlaspi arvense*

- Annual or winter annual; introduced from Eurasia
- Very abundant weed throughout the prairies; least abundant in Manitoba
- Decrease in frequency, occurrence field density and relative abundance since 1970s



**Frequency**

<input type="checkbox"/>	Species not surveyed	<input type="checkbox"/>	0.1 to 10.0%	<input type="checkbox"/>	20.1 to 50.0%
<input type="checkbox"/>	Absent	<input type="checkbox"/>	10.1 to 20.0%	<input type="checkbox"/>	More than 50.0%

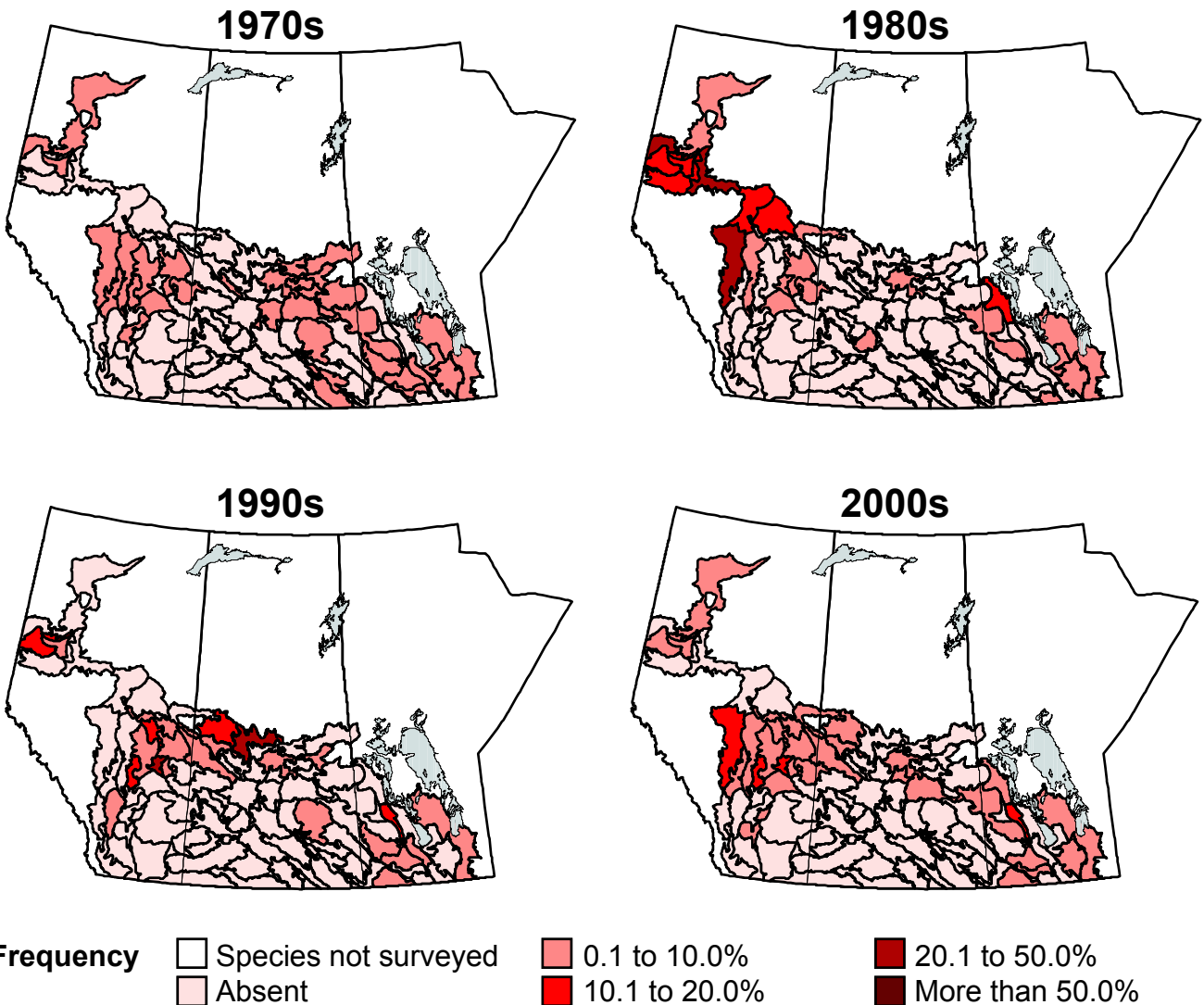
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	4	54.0	-	-	9.7	18.0	1188.8	26.0
1980s	4	44.2	14.0	31.6	5.0	11.2	1048.4	22.4
1990s	4	36.5	11.1	30.3	3.0	8.3	348.2	19.5
2000s	7	20.1	4.8	23.8	1.1	5.5	203.2	11.7

Field uniformity is not available for the 1970s



## Stork's-bill, *Erodium cicutarium*

- Winter annual or biennial; introduced from the Mediterranean
- Relatively common species; absent from the grassland ecoregions
- Small increase in abundance since the 1970s



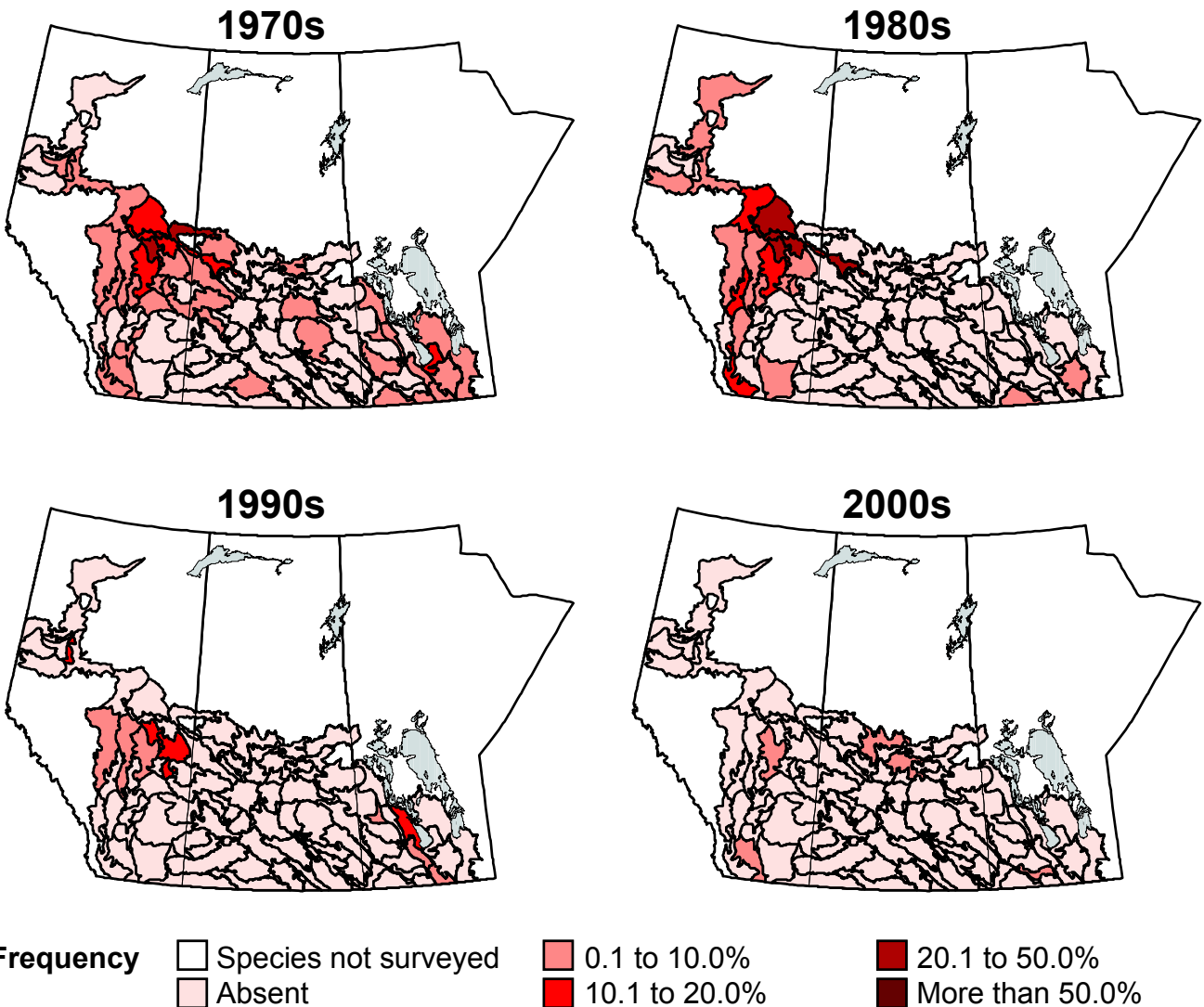
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	58	0.5	-	-	< 0.1	8.6	117.8	0.2
1980s	44	1.8	0.4	24.8	0.1	5.5	66.2	0.7
1990s	40	1.7	0.5	31.2	0.1	8.0	59.0	0.9
2000s	38	1.5	0.4	27.3	0.1	4.5	52.2	0.9

Field uniformity is not available for the 1970s



## Tartary buckwheat, *Fagopyrum tataricum*

- Annual; introduced from Asia
- Includes volunteer buckwheat (*F. esculentum*)
- Decrease in rank, frequency and relative abundance



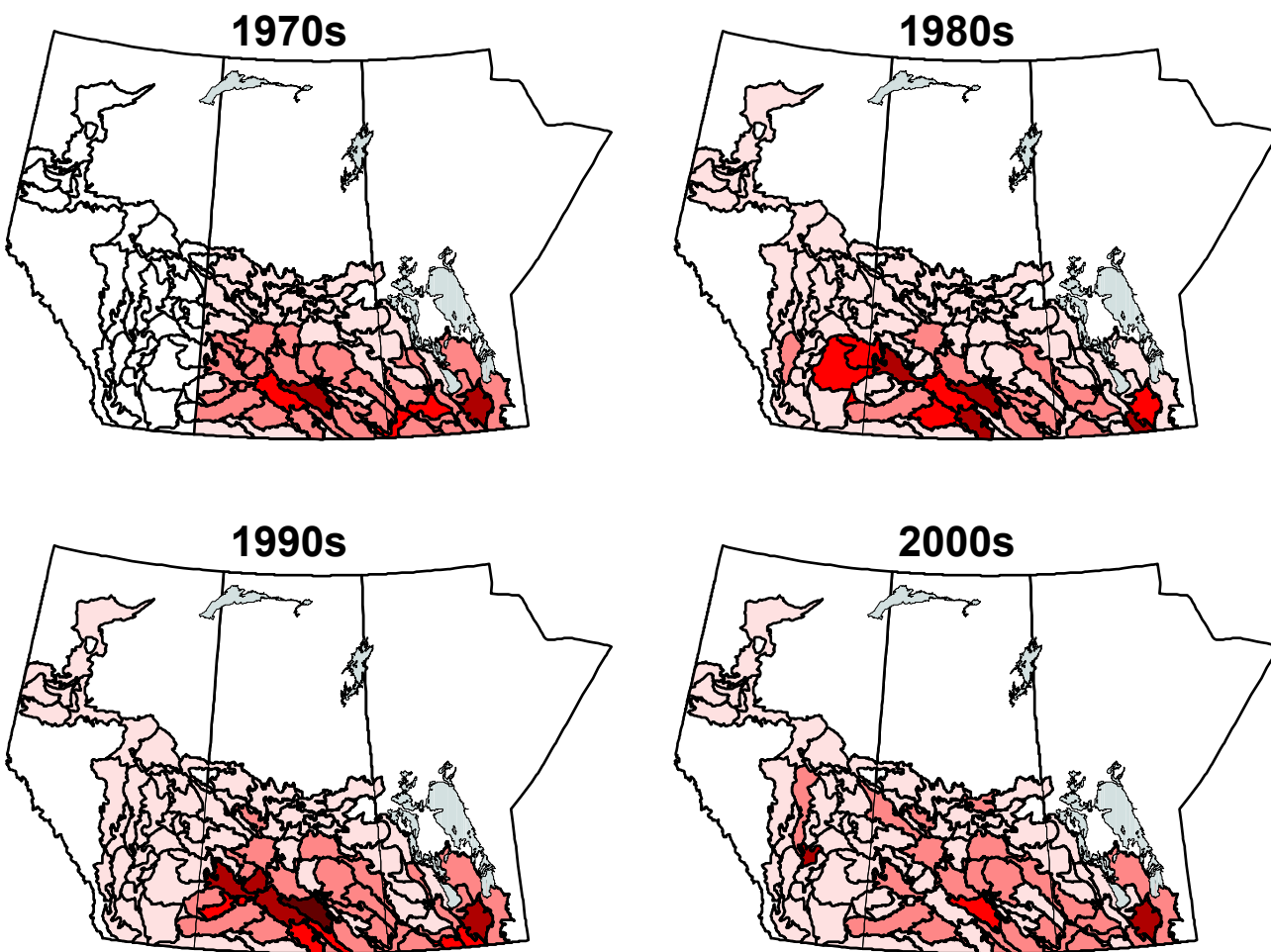
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	34	2.5	-	-	0.2	8.0	192.8	1.0
1980s	40	1.6	0.6	39.2	0.1	7.4	78.8	0.8
1990s	58	0.8	0.2	23.1	< 0.1	3.7	26.0	0.3
2000s	65	0.1	0.1	40.9	< 0.1	20.1	96.6	0.2

Field uniformity is not available for the 1970s



## Thyme-leaved spurge, *Euphorbia serpyllifolia*

- Annual; native
- Includes ridge-seeded spurge (*E. glyptosperma*)
- Common across the southern prairies; least abundant in Alberta



**Frequency**

	Species not surveyed		0.1 to 10.0%		20.1 to 50.0%		More than 50.0%
	Absent		10.1 to 20.0%		20.1 to 50.0%		More than 50.0%

Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	31	3.3	-	-	0.1	4.1	66.4	1.1
1980s	33	3.8	1.1	29.2	0.2	4.2	31.0	1.5
1990s	24	6.0	1.7	28.3	0.2	4.1	41.6	2.5
2000s	35	2.5	0.5	20.1	0.1	2.6	38.4	1.1

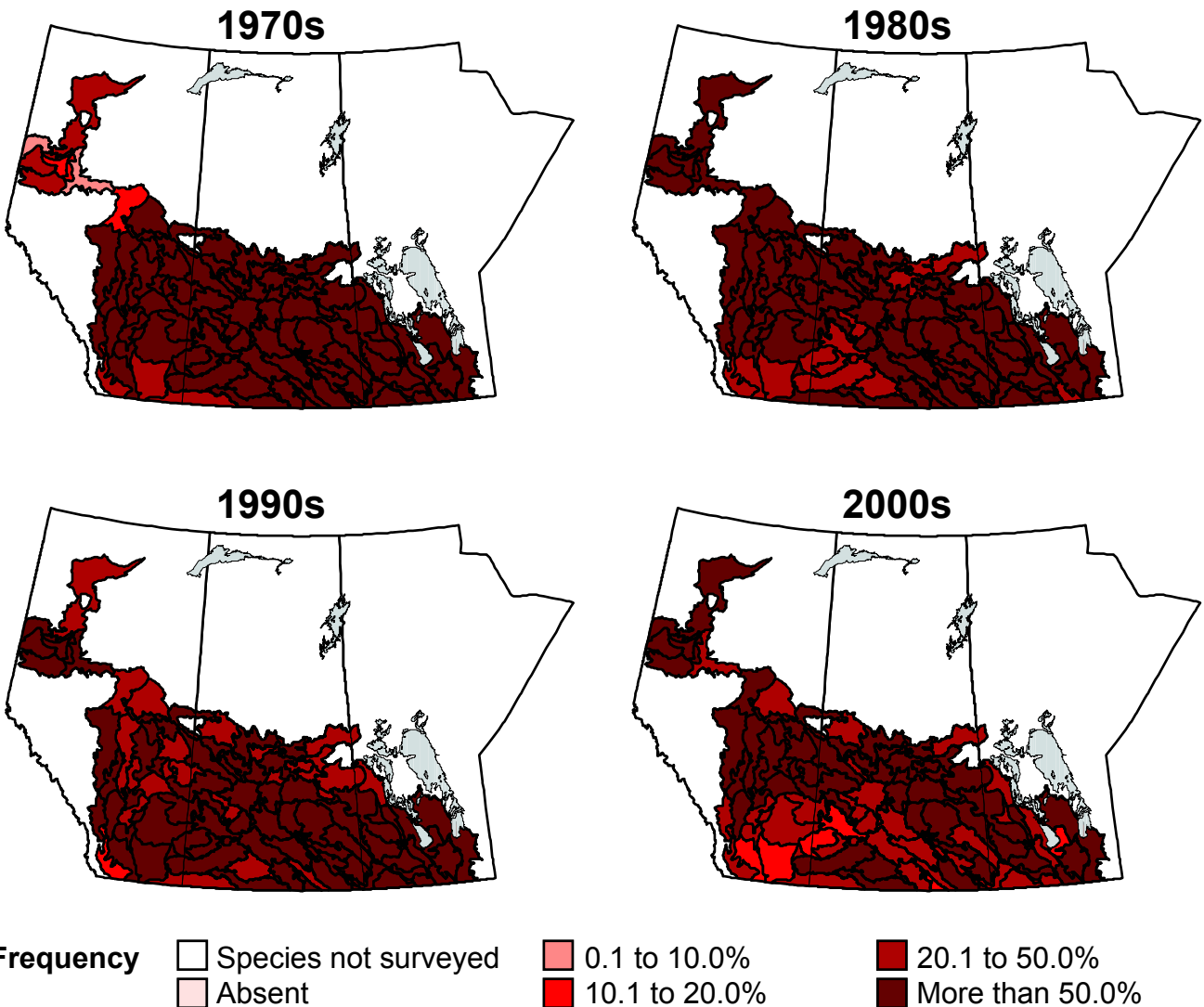
Field uniformity is not available for the 1970s





## Wild buckwheat, *Polygonum convolvulus*

- Annual; introduced from Eurasia
- Very abundant throughout the prairies; ranked 2 or 3 in all surveys
- No change in relative abundance but frequency and occurrence field density have declined



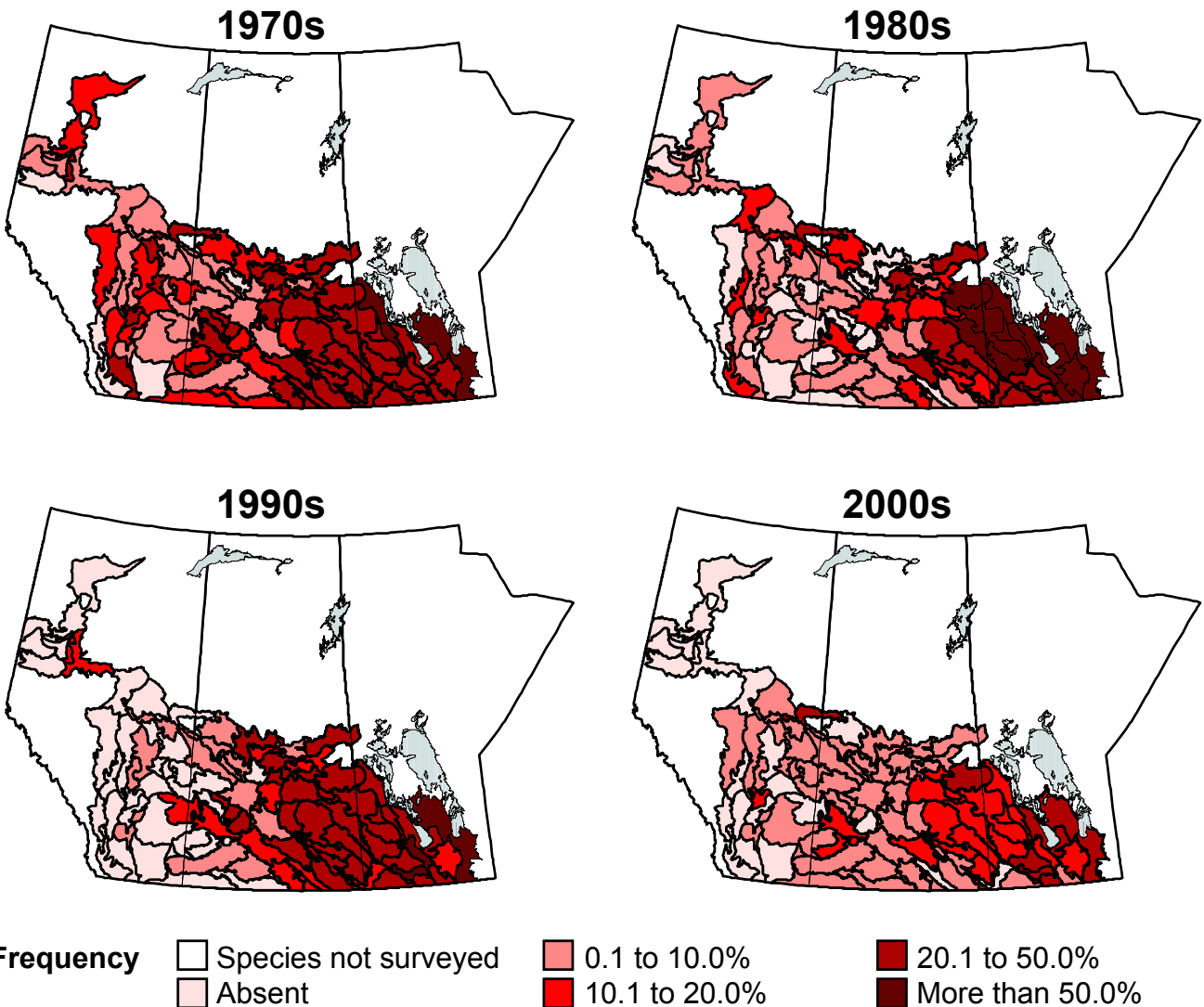
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	3	75.1	-	-	7.1	9.5	800.9	29.7
1980s	2	69.1	25.6	37.1	4.8	6.9	445.8	32.3
1990s	3	63.6	21.7	34.1	2.7	4.3	167.6	29.2
2000s	3	53.0	15.9	30.1	2.2	4.1	175.0	31.1

Field uniformity is not available for the 1970s



## Wild mustard, *Sinapis arvensis*

- Annual; introduced from Eurasia and North Africa
- Abundant species; less abundant in Alberta
- Decrease in rank, frequency, occurrence field density and relative abundance in the 2000s



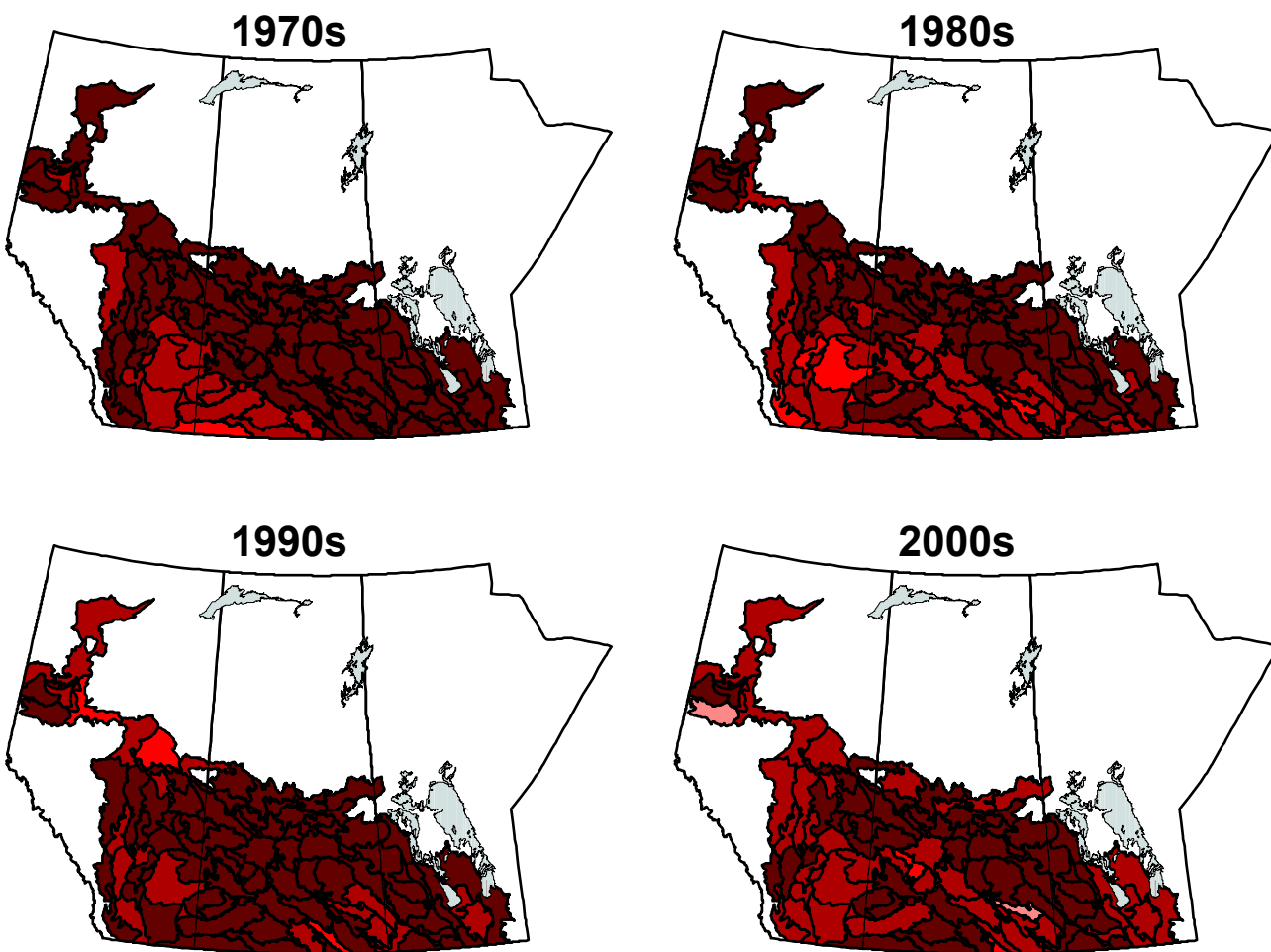
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	12	22.0	-	-	1.1	4.9	551.0	7.7
1980s	13	18.1	4.3	23.5	0.7	3.8	111.2	6.3
1990s	11	17.3	4.0	23.1	0.5	2.7	40.6	6.2
2000s	24	7.6	1.4	18.2	0.2	2.7	96.0	3.4

Field uniformity is not available for the 1970s



## Wild oats, *Avena fatua*

- Annual; introduced from Eurasia
- Very abundant species across the prairies; ranked second or third
- No change in relative abundance



**Frequency**     Species not surveyed     0.1 to 10.0%     20.1 to 50.0%  
 Absent     10.1 to 20.0%     More than 50.0%

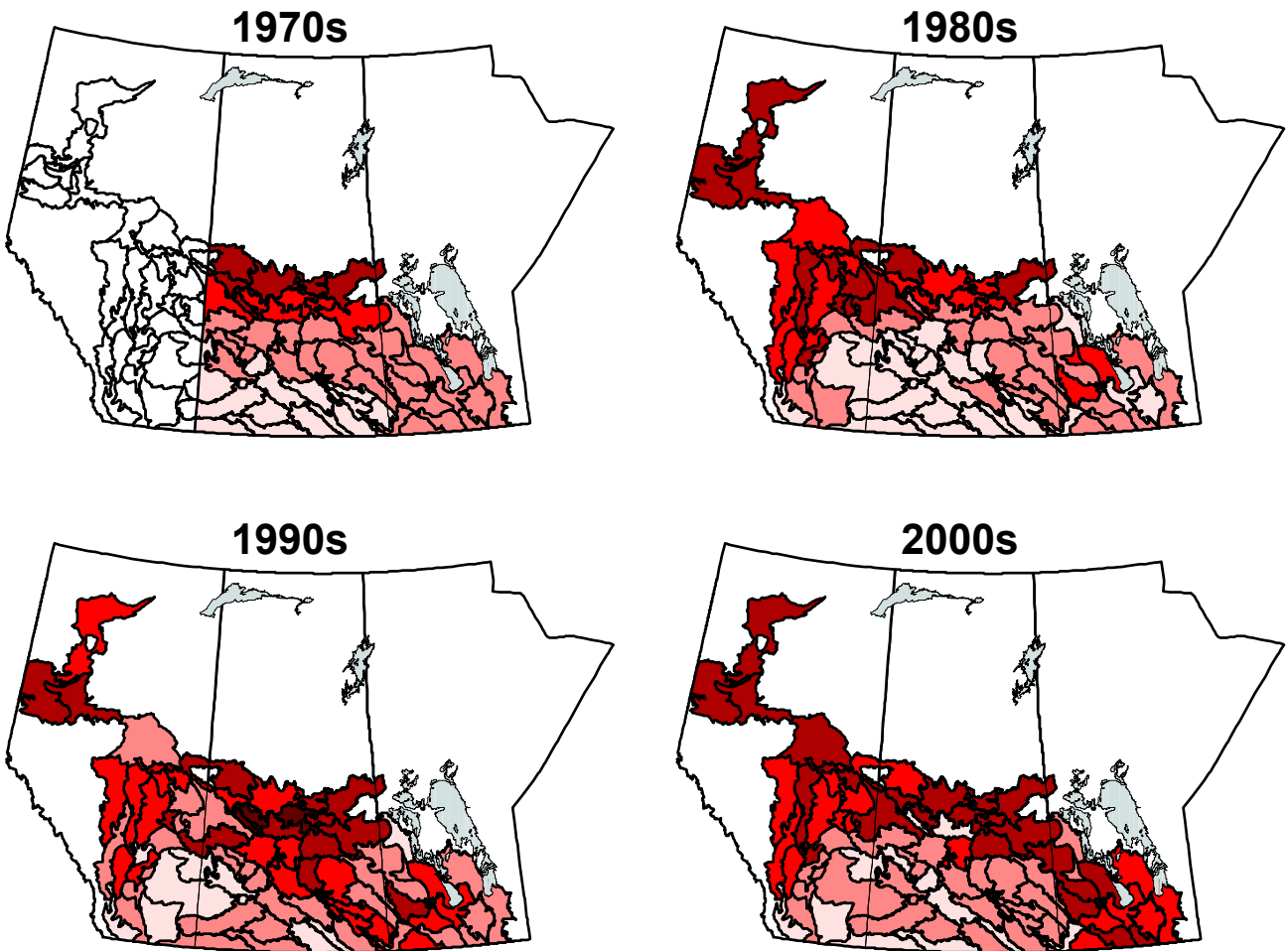
Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	2	69.3	-	-	12.2	17.6	1188.8	33.1
1980s	3	55.4	18.4	33.2	5.8	10.5	643.6	27.9
1990s	2	63.5	20.2	31.8	5.4	8.4	403.4	34.7
2000s	2	50.4	17.4	34.5	4.5	8.9	449.8	39.2

Field uniformity is not available for the 1970s



# Canola/rapeseed, *Brassica napus*

- Annual; volunteer cultivated species; includes *B. rapa*
- Represents volunteer canola abundance in crops other than canola
- Increase in abundance related to increased frequency of canola in the rotation



Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	28	5.1	1.3	25.2	0.2	3.3	52.0	1.5
1980s	19	8.5	2.3	27.2	0.4	4.6	74.2	3.3
1990s	10	13.7	4.1	29.8	0.7	5.3	95.2	6.5
2000s	12	11.8	2.8	23.3	0.5	4.5	143.2	6.6

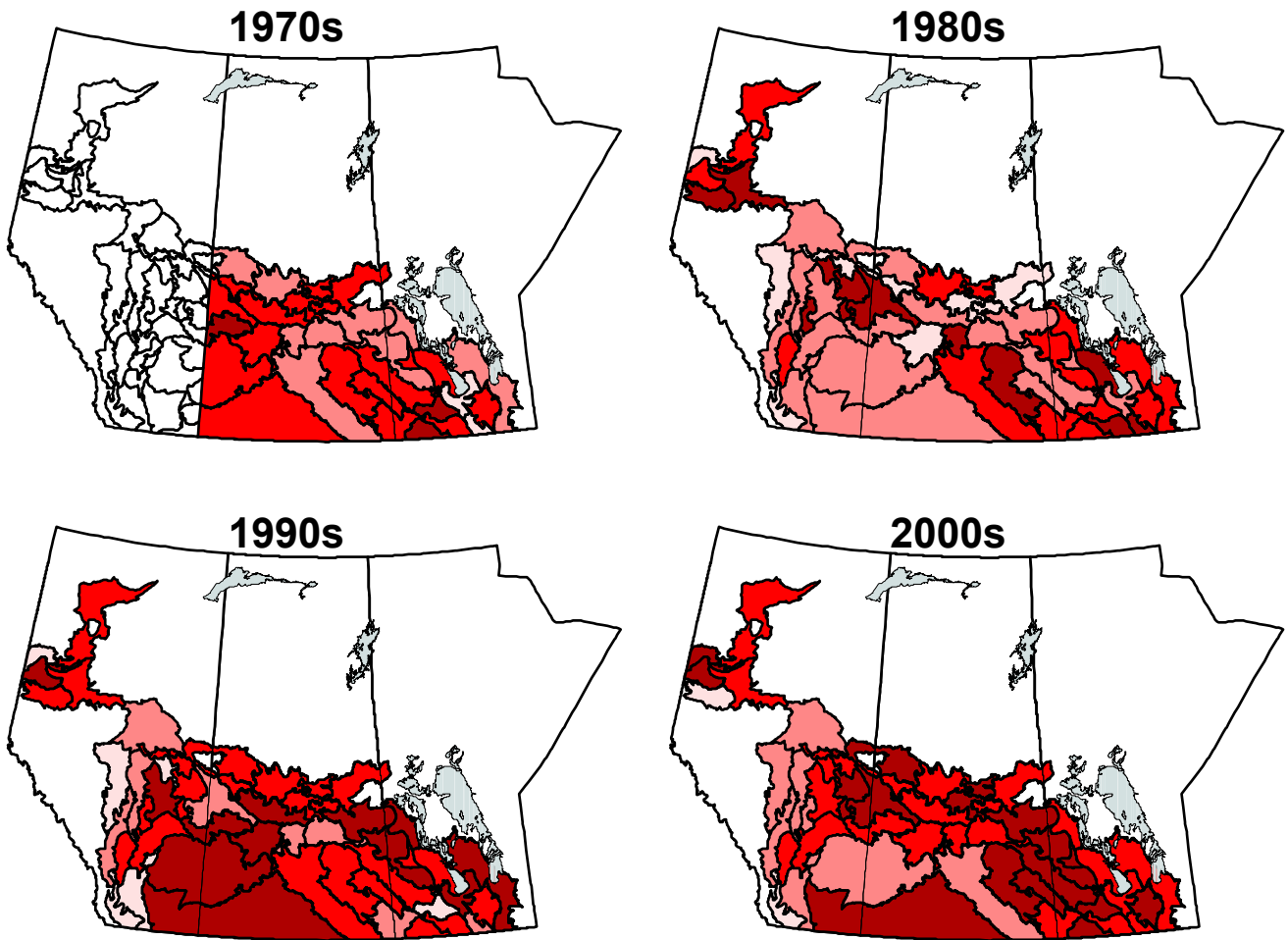
Crop is not available for Alberta in the 1970s; therefore, the 1970s data is from Saskatchewan and Manitoba only





# Wheat, *Triticum aestivum*

- Annual; volunteer cultivated species; includes durum (*T. durum*)
- Represents volunteer wheat abundance in crops other than wheat
- Significant increase in rank, frequency and relative abundance since the 1980s



Decade	Rank	Frequency (%)	Field Uniformity		Field Density (#/m <sup>2</sup> )			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1970s	16	13.7	3.8	27.7	0.6	4.2	61.4	4.1
1980s	21	10.5	2.8	27.0	0.5	4.7	43.8	3.3
1990s	18	15.5	3.4	21.8	0.6	4.1	137.0	5.5
2000s	8	17.9	5.0	27.8	1.1	6.0	280.8	10.1

Crop is not available for Alberta in the 1970s; therefore, the 1970s data is from Saskatchewan and Manitoba only