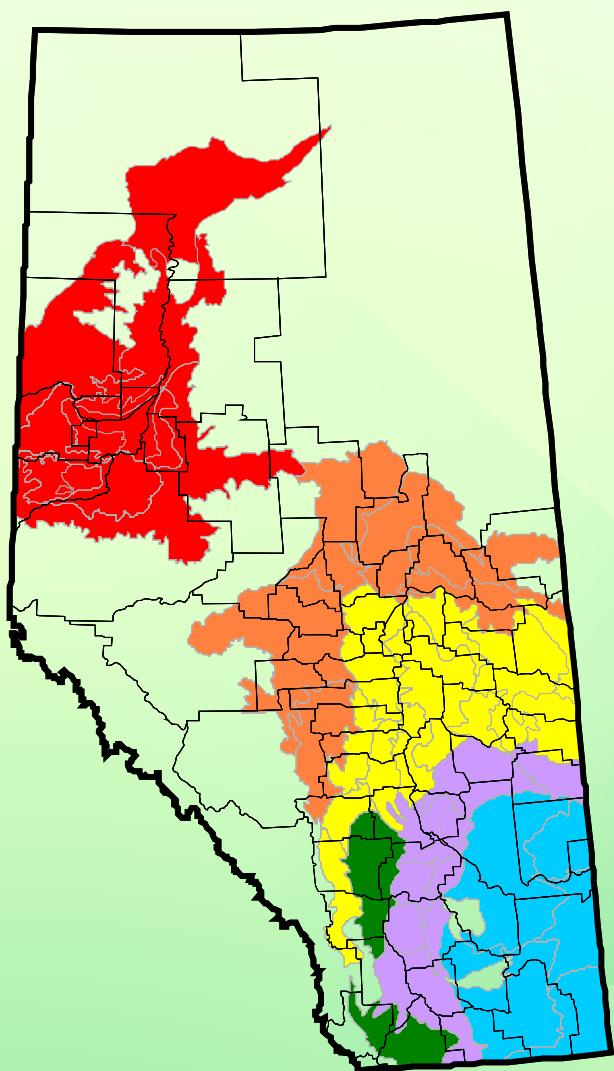




Alberta Weed Survey

Cereal, Oilseed and Pulse Crops
2001



Julia Y. Leeson
A. Gordon Thomas
Linda M. Hall



Weed Survey Series



Alberta Weed Survey

Cereal, Oilseed and Pulse Crops 2001

Julia Y. Leeson
A. Gordon Thomas
Linda M. Hall

Weed Survey Series

Canada

Alberta
AGRICULTURE, FOOD AND
RURAL DEVELOPMENT



Agriculture and
Agri-Food Canada
Research
Branch

Agriculture et
Agroalimentaire Canada
Direction générale
de la recherche

Alberta Weed Survey of Cereal, Oilseed and Pulse Crops in 2001

by

JULIA Y. LEESON and A. GORDON THOMAS
Agriculture and Agri-Food Canada

and

LINDA M. HALL
Alberta Agriculture, Food and Rural Development

in co-operation with the Alberta Weed Survey Regional Co-ordinators
John Huffman, Trevor Kloeck, Dorothy Stewart
Russel Horvey, Rob Dunn

Weed Survey Series
Publication 02-1

Published by
Agriculture and Agri-Food Canada, Saskatoon Research Centre
107 Science Place, Saskatoon, Saskatchewan, S7N 0X2, Canada
April 2002

Second Printing June 2004

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

(Table continued on next page)

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

Number	Title
98-5	Manitoba weed survey: herbicide-resistant wild oat 1997
99-3	Farm management practices in Manitoba - 1997 weed survey questionnaire results
99-4	Saskatchewan weed survey: herbicide-resistant wild oat 1997

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

Each of the Prairie Provinces was surveyed first in the 1970's and again in the 1980's and 1990's. The 2001 Alberta survey reported in this publication is part of the fourth survey in the series. Surveys are planned for Saskatchewan and Manitoba in 2002. After completion of the Alberta field survey, Alberta Agriculture, Food and Rural Development collected information on the 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 a separate report in the future. A detailed analysis of the correlations between weed communities and management practices will also be the subject of future publications.

The weed community database from periodic surveys in Alberta now contains information on the density of more than 200 weed species in approximately 6200 fields of cereal, oilseed and pulse crops. This is the only source of independent quantitative data on weed populations for these crops in Alberta. The size and time span of the database make it unique and valuable for tracking shifts in weed populations.

This report is part of a Weed Survey Series that presents the information accumulated during the past 28 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, and tomato besides 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, lentil, field pea, 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 Alberta. 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
Survey Project Leader
Agriculture and Agri-Food Canada
Saskatoon Research Centre

Saskatoon, SK
January 2002

ACKNOWLEDGEMENTS

Financial Support

Direct financial assistance to conduct the survey was provided by:

Matching Investment Initiative (MII) of Agriculture and Agri-Food Canada
Alberta Agriculture, Food and Rural Development Farming for the Future Program

and by the following herbicide manufacturers and distributors:

Aventis Crop Science Canada Co.
BASF Canada
Bayer Inc.
Dow AgroSciences Canada Inc.
Dupont Canada Inc.
Monsanto Canada Inc.
Nufarm Agriculture Inc.
Western Co-operative Fertilizers Limited

In-Kind Support

The 2001 weed survey in major cereal and oilseed crops in Alberta was a product of the hard work, support, and encouragement of many people. The project was a collaborative endeavour of Alberta Agriculture, Food and Rural Development (AAFRD) and Agriculture and Agri-Food Canada (AAFC). More than 170 people from these two organizations contributed to the project.

We want to thank each of the following people with Agriculture and Agri-Food Canada in Saskatoon for facilitating the expeditious summary of the survey results:

Scott Johanson, Brenda Bauml and Terri Sittler (data entry)
Donna Chen (editing)
Ralph Underwood (graphics)
Brian Galka (printing)

We are grateful to Henry deGooijer, Saskatchewan Land Resource Centre who provided access to a database facilitating the stratified selection of sites by ecodistrict and municipal district.

Five Crop Specialists served as Regional Coordinators for the weed survey. They arranged for site qualification in their respective regions, organized personnel to survey fields, and solved problems as they arose in their area. We would like to acknowledge the individual contribution of the coordinators to the overall success of the project:

John Huffman (Peace)
Trevor Klocek (North)
Russel Horvey (Central)
Dorothy Stewart (Central)
Rob Dunn (Southern)

Other key members of the Regional teams were:

Gayle Luca and Mary Remple (Southern),
Cammy Stewart (Central)
Stacey Anderson, Gary Berger, Heather Jones and Amber Kluthe (North)

Agricultural Fieldmen, Assistant Agricultural Fieldmen, Weed Inspectors and summer survey technicians with AAFRD were responsible for conducting the field survey. The Client Service Representatives (CSR) in AAFRD district offices spent many hours on the telephone contacting producers and qualifying fields before the start of the field survey. We thank the following people for their contribution to the success of this survey.

Southern Region:

<u>County/MD</u>	<u>Ag Fieldmen</u>	<u>Surveyors</u>	<u>CSRs</u>
Cardston	Rod Foggin	Kenny Kutsch	Christine Poss
Cypress	Doug Henderson	Linnsie Clark	Carol Willms
Foothills	Mark Stewart	Dwayne Rogness	
Forty Mile	Jon Hood	David Matz	Darlene Stovel
Lethbridge	John Vanden Broeke	Lorie Kneeshaw Don Townsend	Terry Sheen Mary Rempel Jean Kazala Anne McKenzie
Newell	Steve Wylie	Matt Matoba	
Pincher Creek	Kelly Cooley	Kelly Cooley	
Taber	Derrick Krizsan	Derrick Krizsan	Christine Reamsbottom Lynn Taylor
Vulcan	Kelly Malmberg	Jason Bullock Dwayne Rogness Bryan Machachek Kory Sholdice Kelly Oberholtzer Craig McKay Ryan Shearer Lorie Kneeshaw	Penny Rushfeldt
Warner	Jamie Meeks	Wayne Ulmer	
Wheatland	Jim Laslo	Dwayne Rogness Don Townsend	Pat Kelly
Willow Creek		Gordon Kitchen Holly Schmid Wendy Schatz	Paula Johnson Lorna Watson

Central Region:

<u>County/MD</u>	<u>Ag Fieldmen</u>	<u>Surveyors</u>	<u>CSRs</u>
Acadia	Gary Peers	Don Townsend	Jane Brown
Clearwater	Kim Nielsen	Ken Pattison	Dorothy Stewart
Kneehill	Bruce Sommerville	Glenn Smyth	Cammy Stewart
Lacombe	Keith Boras	Russel Horvey Neil Harker Patty Reid Jennifer Zuidhof Kathrin Falz	Penny Stephenson
Mountain View	Larry Rice	Doug Bruce Suzanne Atkinson Larry Armstrong Lavar Adams Larry Rice Neil Madson	Judy Nelson Pat Spenst Judy Jensen
Paintearth	Jeff Cosen	Jeff Cosen	Linda Pilsworth Jean Adair
Ponoka	Robert Simmer	Henk Wendels	Donna Wright
Red Deer	Jim Squire	Harold Smith	Gayle Chapiel
		Monica Bryan	Cathy Wallace
Rocky View	Tim Dietzler Kim Butler (Foreman)	Dana Forsyth Jeff Sznerch Shelly Connolley Jacqueline Vincent	Chris Edgar Victoria Heidt Russie Clark Maxine Hutt Betty Svingen

(Continued on the next page)

Central Region (continued):

<u>County/MD</u>	<u>Ag Fieldmen</u>	<u>Surveyors</u>	<u>CSRs</u>
Special Area 2	George Asrud	Ryan Mackenzie	Debra Bartman
Special Area 3	Bill Kolkman	Jonathan Ness	Sharon Dahl
Special Area 4	Jordon Christianson	Jordon Christianson Curtis Hoffmann Jim Murphy	Lucille Hertz
Starland	Alan Hampton	Vanessa Currie	Diane Luke
Stettler	Walt Saar	Don Peterson	Deborah Heidt
	Kevin MacDonald (AAF)	Wayne Edwards	Leonna Lind*
			Doon Pauly*

*Cereals and Oilseeds Call Centre Staff helped with entire Central Region

North Region:

<u>County/MD</u>	<u>Ag Fieldmen</u>	<u>Surveyors</u>	<u>CSRs</u>
Athabasca	Ron Jackson	Terry Barkley	
Barrhead	Marilyn Flock	Troy Renkema	Shirley Lynes
Beaver	Martin Baert	Richard Bratrud	
Bonnyville	George Vachon	Calvin Reum	
		Matt Janz	
Brazeau	Rola Hogan	Rene Palsat	Barbara Matheson Sherilyn Fleischhacker
Camrose	Paul King	Trevor Szott	
	Jody Watson	Mike Van Less	
Flagstaff	Brent Hoyland	Michael Van Petten	Vi Sloboda
		Neil Cameron	
		Jim Wright	
Lac Ste. Anne	Alan Deutsch	Raymond Arntzen	
Lamont	Rene Thibault	Geoff Thompson	Pat Yurchak
Leduc	Rick Thomas	Vance Webb	
Lesser Slave River	Russ Jassman	Lucinda Melnikel	
Minburn	Darwin Ullery	Russ Jassman	
Parkland	Mark Cardinal	Carman Wowdzia	Shelley Welk
Provost	Burt Forbes	Cheryl Macahonic	Cathi Hayduk
Smoky Lake	Jeff Warawa	Wesley Nail	Amber Kluthe
St. Paul	Dennis Bergheim	Burt Forbes	Donna Pilgaard
Strathcona	Ian Gray	Heather Jones	Joyce Baschuk
Sturgeon	Dave Sidlick	Jeremy Robinson	Audrey Katerenchuk
Thorhild	Rick Ennis	Beth White	
Two Hills	John Bidulock	Megan Martindale	Ann Fulton
Vermillion River	Dion Burlock	Darrel Soetaert	Susie Kluthe
Wainwright	James Schwindt	Jason Sauchuk	
Westlock	Dennis Mueller	Allan Ropchan	
		Heather Jones	
		Sommerlee Bennett	Marj Tunney
		Stacey Anderson	Kim Segec
Wetaskiwin	Steve Majek	Kurtis Fouquette	Stacey Anderson
Woodlands	Dale Kluin		Carol Sauchuk
Yellowhead	Daryl Switzer	Becky Boyer	Julie Balascak

Peace Region:

<u>County/MD</u>	<u>Ag Fieldmen</u>	<u>Surveyors</u>	<u>CSRs</u>
Big Lakes	Gary Braithwaite	Gary Braithwaite	
Birch Hills	Dean Cooper		
Clear Hills	Marilyn Ray	Marilyn Ray	
East Peace	Audrey Gall	Chad Schneider	
Fairview	Patricia O'Hara	Ken Coghill	Ordella Knopf
		Lana Higginson	
		Fred Sawchuk	
		Patricia O'Hara	
Grande Prairie	Tarolyn Peach	Dee Ann Chababa	Cindy Cuthbert
		Kate White	Pat MacAlister
		Steve Logan	
Greenview	Normand Boulet	Susan Kerekanich	
MacKenzie	Chris Kelland	Dave Driedger	Beverly Patmore
Northern Lights	Terry Schamehorn	Michelle Boychuk	May Dmitruk
Peace	Patricia O'Hara	Ken Coghill	
Saddle Hills	John Knoot	Lana Higginson	
		Lisa Shaykowski	
		Moira Boomgaarden	
		John Knoot	
Smoky River	Shelleen Gerbig	Raymond Rey	Irene Lemire
		Jean Lemire	Yvette Houle
		Gilbert Maisonneuve	
		Paul Chailler	
Spirit River		Donna Skoworodko	

Producer Support

It is with special pleasure that we acknowledge the contribution made by 1153 producers who agreed to co-operate in the project by permitting survey staff to count weeds in their fields.

A. Gordon Thomas, Julia Y. Leeson and Linda M. Hall

CONTENTS

<i>Part I</i>	INTRODUCTION	
	History of Weed Surveys in Alberta	1
	The 2001 Alberta Weed Survey Project.....	2
	Study Area	3
<i>Part II</i>	METHODOLOGY	
	Crop Selection.....	9
	Stratification of Sites.....	9
	Random Site Selection	13
	Field Survey Personnel and Orientation Sessions	13
	Timing of Weed Counts	15
	Weed Counts in Fields	15
	Data Analysis	19
	Guide to the Use of the Field Summary Tables	20
	Limitations, Constraints and Biases.....	21
<i>Part III</i>	FIELD SURVEY SUMMARY TABLES	
	List of Summary Tables in Part III	25
	Province	29
	Crop	32
	Ecoregion and Crop	44
	Ecodistrict.....	78
	Region and Crop	125
	Municipal Administrative Districts.....	149
	Province 1997	201
	Ecoregion 1997	205
<i>Part IV</i>	TRENDS DURING PAST 25 YEARS	213
<i>Part V</i>	DISTRIBUTION MAPS	
	List of Distribution Maps.....	217
	Maps for Selected Species	218

History of Weed Survey Activities in Alberta

The first indication of the relative importance of seven serious weeds in Alberta was obtained from reconnaissance surveys in 1930 and 1931¹. 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 Frankton² published the results of their reconnaissance survey in 1949. They listed the frequency of occurrence of weeds in various areas of the province. In a questionnaire survey conducted during the 1960's by Alex³, the extension staff was asked to estimate the density and area infested with 40 species of weeds based on their knowledge of their specific districts. 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 mid-1970's, a need for quantitative data based on weed counts in fields of producers.

In 1973, Dew initiated the first provincial survey in a series to identify the weeds occurring in annual cereal and oilseed crops. The survey was a co-operative endeavour between the Canadian Department of Agriculture (Lacombe Research Station) and the Agricultural Fieldmen of the Alberta Department of Agriculture. Fieldmen were asked to survey one site per township each year. If this goal had been met, the results from more than two thousand observations each year would have been obtained. Unfortunately, this goal was never achieved in any year but the combined results from the five years of surveying provided the first quantitative data on the kinds and numbers of weeds occurring in 3109 fields. These fields were distributed among 58 municipalities in the province but some areas were under represented in the survey. For example, only 17 fields were surveyed in the Fort Vermilion area. The major difference between Dew's survey and subsequent surveys in the series was the time at which weed counts were done. Counts were done after crop emergence and before postemergent herbicide application in fields seeded to wheat (spring or durum), barley, oats, rapeseed, and flax. Weeds were counted in 1.0 square yard quadrats at five representative locations in the field. The data collected from 1973 to 1977 were summarized in a Weed Survey Series Report by Thomas and Wise (1985)⁴.

An intensive weed survey was carried out in the Fort Vermilion area, identified as Improvement District #23, of northern Alberta in 1985 and the results were summarized in a Weed Survey Series Report by Thomas, Wise and Clayton (1986)⁵. The Improvement District was divided into two areas based on the common types of farming operations. One area was characterized by mixed farming where 72 fields were surveyed and the other area was dominated by the production of cereals and oilseeds where 61 fields were surveyed. This survey was meant to serve as an example of the type of project that could be initiated in the rest of the province. Three major changes were made to the survey protocol used previously by Dew. The Fort Vermilion survey applied a stratified random sampling design for determining the location of fields rather than the grid design of Dew. An approximately equal number of fields were randomly located in the two farming operation areas. Weed counts were done after postemergent herbicide application instead of before application. Instead of the five large quadrats used by Dew, 20 smaller quadrats, which were 0.25 m² in size, were located in an "inverted W-pattern" at a set location in the field.

¹ **Mason, J. M.** 1932. Weed survey of the prairie provinces. National Research Council of Canada. Rep. No. 26, Ottawa, ON. 34 pp.

² **Groh, H. and C. Frankton.** 1949. Canadian weed survey. 7th Report. Canada Department of Agriculture, Ottawa, ON. 144 pp.

³ **Alex, J. F.** 1965. Survey of weeds of cultivated land in the prairie provinces. Exp. Farm, Res. Branch, Canada Department of Agriculture, Regina, SK. 68 pp.

⁴ **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 pp.

⁵ **Thomas, A.G., R.F. Wise and G. Clayton.** 1986. Fort Vermilion area of Alberta weed survey in cereal and oilseed fields 1985. Weed Survey Series Publication 86-4, Agriculture Canada, Regina, Saskatchewan. 98 pp.

Updated information on the distribution and abundance of weeds occurring in Alberta annual crops was obtained by Maurice, O'Donovan and Pickle (1990)⁶ from 1987 to 1989, approximately 10 years after the survey organized by Dew. Different areas of the province were surveyed each year. This second provincial survey in the series incorporated the three major changes introduced in the Fort Vermilion survey. The provincial survey protocol used municipalities as the strata rather than farming operations as the strata. The number of randomly selected fields in a municipality was determined by the relative acreage of crops to be surveyed. Weed data were collected from 1113 fields seeded to spring wheat, winter wheat, barley, oats, fall rye and canola.

The third provincial survey in the series was conducted eight years later in 1997 and summarized in a Weed Survey Series Report by Thomas, Frick and Hall (1998)⁷. The survey protocol was similar to that used in the previous survey, with the exception that ecdistricts rather than municipalities were used as the strata in the sampling procedure. For the first time in the series, the whole province was surveyed in the same year but the target of 800 fields was not achieved. Only 684 fields were surveyed but all major ecoregions were represented. The survey was restricted to spring wheat, durum, barley, oats and canola in order to provide an adequate number of fields for reliable summaries of each crop.

The 2001 Alberta Weed Survey Project

Rationale

Four years have past since the third survey in Alberta was conducted in 1997. Numerous changes in the agricultural industry since the last survey have presented the need for a new survey with updated information. The last series of surveys were conducted before the widespread adoption of herbicide-resistant canola varieties and the weed abundance and management data have provided an important baseline on residual weed populations in herbicide-tolerant canola associated with farm management practices. The survey in 2001 will assess the impact of the adoption of this technology on weed communities in canola.

The weed survey data can be used to document the changes in the distribution and abundance of weeds that have occurred since the previous provincial surveys in 1997, 1987 to 1989 and 1973 to 1977. Changes in weed abundance can be identified because all the surveys since 1973 have used a similar method of summarization. Individual weeds or groups of species identified as increasing in abundance can be targeted for attention by various agencies involved in weed science. The trends identified by the weed surveys are important to the research, industry, and extension communities for developing weed management recommendations for producers.

Objective

The objective of the project was to conduct in 2001 the fourth weed survey in Alberta since the series of provincial surveys began in the mid 1970s. The survey would measure the species compositions and population densities of the weed communities in the major summer annual crops grown in Alberta.

Expected benefits of the provincial weed survey

1. Quantitative field surveys of weed populations are used to reveal the current size, extent, and order of importance of component species in the province, ecoregions, extension districts, and other spatially defined areas of interest.
2. The spatial distributions of the most common species are represented in maps that clearly illustrate areas of high and low abundance in relation to the physical landscape and jurisdictional areas of the province.
3. Tracking the increase or decrease in weed populations and the changes in the composition and structure of weed communities, using the database of survey information from the previous three surveys, will indicate the extent

⁶**Maurice, D.C., J.T. O'Donovan and D.J. Pickle.** 1990. Alberta cereals & oilseeds crop protection survey. Alberta Agriculture (Unpublished report).

⁷**Thomas, A.G., B.L. Frick and L.M. Hall.** 1998. Alberta weed survey of cereal and oilseed crops in 1997. Weed Survey Series Publication 98-2, Agriculture and Agri-Food Canada, Saskatoon, Saskatchewan. 241 pp. 41 maps.

by which various weeds are spreading or being controlled and thus the effectiveness of weed management programs.

4. Crop yield losses due to specific weeds can be estimated and these loss estimates can be used to establish the economic costs.
5. Weed survey data can provide an objective basis for developing ecologically and economically sustainable strategies to manage agricultural weeds. The data are used to set research and education priorities, develop recommendations, and design weed management strategies in the research, extension, and agri-business communities.
6. Targeting of increasingly scarce scientific resources requires objective information on the species compositions and population densities of the weed communities that occur locally, regionally or provincially. Individual species or groups of species can be targeted for attention by various agricultural agencies.
7. Additional benefits of the weed survey will be realized when the results are combined with the information gathered in the farm management questionnaire survey. The questionnaire survey will provide detailed information on what farmers are doing to produce a crop. By combining the field and questionnaire survey data, particular weed management practices that are important determinants of distinctive weed communities can be determined.
8. Relating trends in weed populations and communities to the use of specific agronomic and weed control practices or to cropping systems will identify possible reasons that certain weeds have become more or less of a problem on an ecoregion, crop, or provincial basis.
9. Predicting shifts in weed populations and communities that might occur because of anticipated changes in agronomic practices, weed control management, and agricultural policy will allow agricultural agencies to develop weed management strategies that meet the future needs of farmers.

Study Area

The survey covered 11.1 million hectares of cultivated land of the province of Alberta. Two areas were considered. The first area extended from the border with the United States in the south to approximately 54° N in the north, and from the Saskatchewan border in the east to the foothills of the Rocky Mountains on the west side of the province. The second area included the agricultural region of the Peace River Valley in the northwest quarter of the province (between 115 and 120°W and between 55 and 59° N).

Ecoregions

The majority of the fields surveyed (98%) are located in six ecoregions⁸ (Figure 1). Ecoregions are areas of similar landforms, climate, natural vegetation, soils and land use. The other surveyed fields were distributed amongst five ecoregions in areas adjacent to the more intensively farmed ecoregions.

The **Peace Lowland** is a unique area 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. Sites located in adjacent areas in the Clear Hills Upland, Western Boreal and Western Alberta Upland were combined with the sites in the Peace Lowland in the summary tables.

⁸**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 5000 000 scale.

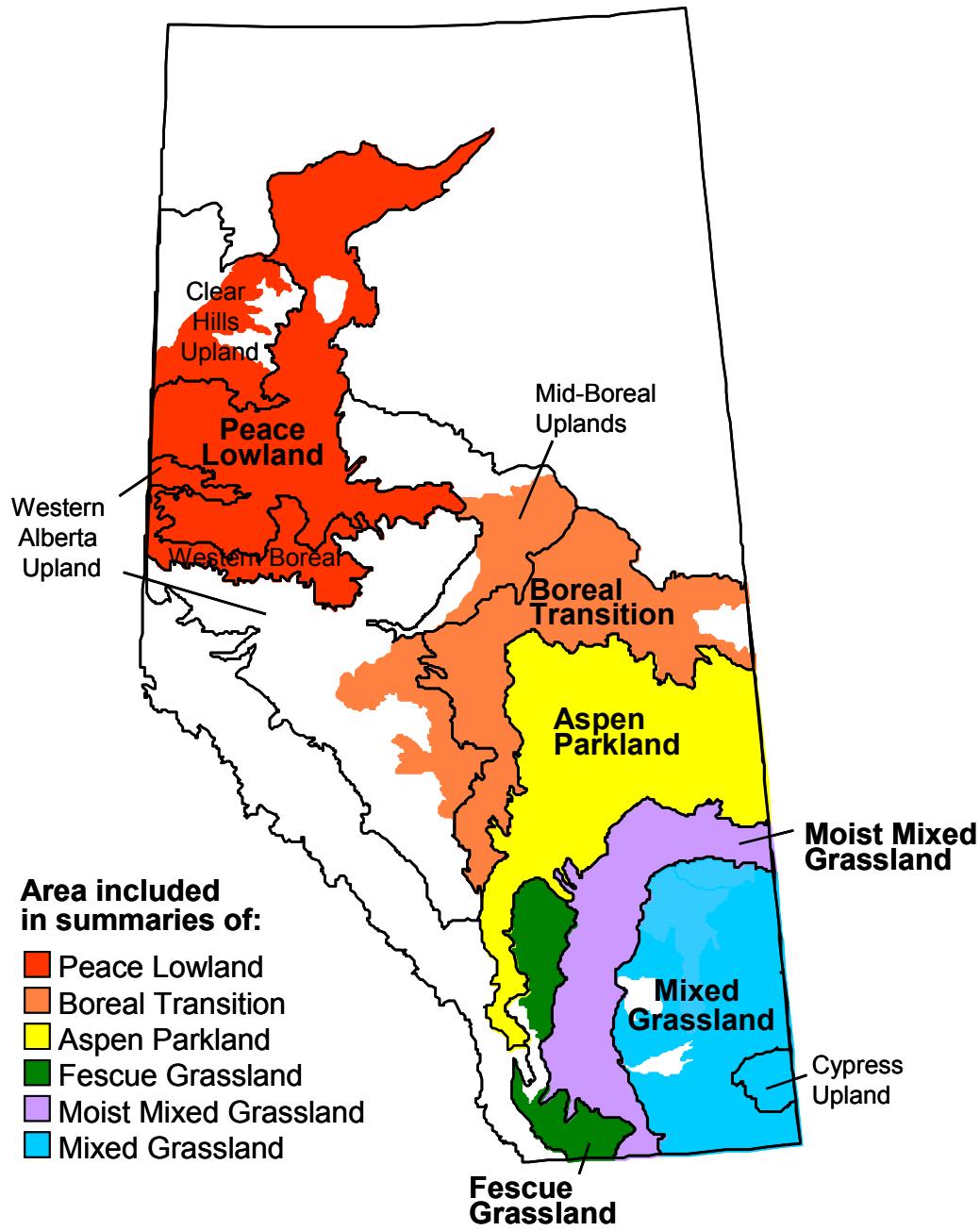


Figure 1. Area surveyed in ecoregions included in the weed survey. Major ecoregions are indicated by larger font. Ecoregions that are grouped in summaries are shaded with the same pattern.

The **Boreal Transition Ecoregion** also has native vegetation dominated by aspen poplar and balsam poplar. The ecoregion is a hummocky to kettled plain, with glacial till and lacustrine deposits underlain by Cretaceous shale. Predominant soils are Gray Luvisols and Dark Gray Chernozems, with local areas of Black Chernozems, peaty Gleysols and Mesisols. More than 70% of the ecoregion is in farmland. Sites located in adjacent areas in the Western Alberta Upland and Mid-Boreal Uplands were combined with the sites in the Boreal Transition Ecoregion in the summary tables.

The **Aspen Parkland Ecoregion** is a transitional area between the grasslands in the south and the forest ecosystems in the north and has a transitional grassland ecoclimate. Native vegetation is mostly gone, but would have been dominated by aspen poplar and fescue grasslands. The ecoregion is underlain by Cretaceous shale, and is undulating to kettled to hummocky to ridged with glacial till, lacustrine and fluvioglacial deposits. The dominant soil is a Black Chernozem, with pockets of Gleysols. This ecoregion is a highly productive agricultural area.

The **Moist Mixed Grassland Ecoregion** is the most northern area of open grassland in the prairies. Native vegetation, where it remains, is dominated by spear grass, wheat grass and deciduous shrubs such as chokecherry and wolf willow. The ecoregion is composed of hummocky to kettled glacial till and level to very gently undulating lacustrine deposits. Dark Brown Chernozemic soils predominate, with significant areas of Solonetzic soils in eastern Alberta. Much of the ecoregion is in agricultural production.

The **Fescue Grassland Ecoregion** lies in the 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 **Mixed Grassland Ecoregion** is part of the semiarid shortgrass prairie. Native vegetation is dominated by spear grass, blue grama grass, and wheat 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. Sites located in the Cypress Upland were combined with the sites in the Mixed Grassland Ecoregion in the summary tables.

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 sites were combined with adjacent ecodistricts in the summaries. Climate information for major ecodistricts included in the survey is given in Table 1.

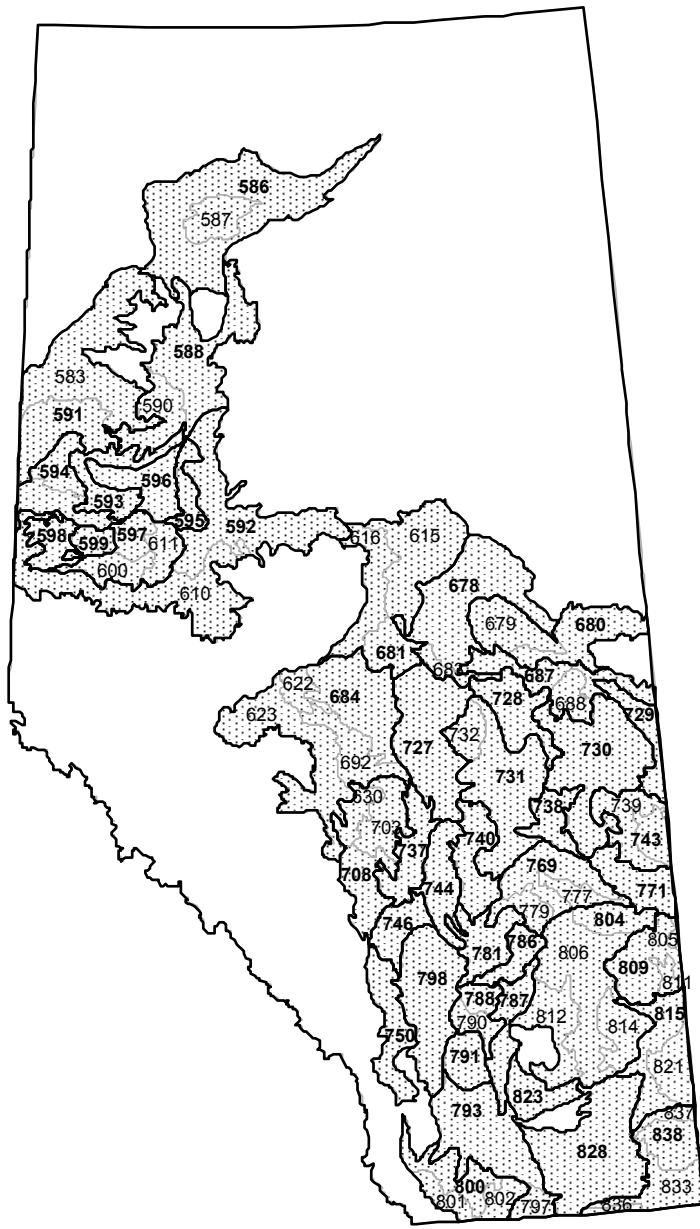


Figure 2. Ecodistricts included in the weed survey. Major ecodistricts are indicated by bold font. Ecodistricts that are surrounded by a thick black line on the map are grouped in summaries. Ecodistrict names are found in Table 1.

Table 1. Climate normals for the ecodistricts included in the Alberta survey^{1,2}

Ecoregion and Ecodistrict ³ (days)	Average Daily Temperature (°C) January	Average Daily Temperature (°C) July	Annual Precipitation (mm)	Precipitation Surplus/ Deficit (mm)	Growing Season Length
Peace Lowland including Clear Hills Upland (583), Western Boreal (610, 611) and Western Alberta Upland (618)					
High Level Plain (586)	-21.8	16.2	381	-144	167
Boyer Plain (587)	-21.9	16.4	379	-141	165
Manning Plain (588)	-20.4	15.5	386	-128	167
Grimshaw Plain (590)	-17.5	15.7	406	-116	172
Worsley Plain (591)	-15.9	15.2	468	-46	170
Clear Hills Upland (583)	-18.6	14.7	431	-73	165
McLennan Plain (592)	-16.5	15.7	456	-66	174
Iosegun Plain (610)	-13.8	15.0	507	-11	177
Rycroft Plain (593)	-15.6	16.3	451	-86	177
Blueberry Upland (594)	-17.0	15.3	445	-70	171
Saddle Upland (618)	-14.2	15.3	506	-12	175
Falher Plain (595)	-17.5	15.9	388	-133	172
Dunvegan Plain (596)	-16.6	16.2	428	-103	175
Debolt Plain (597)	-15.7	16.2	472	-60	177
Smoky Plain (600)	-14.9	15.3	474	-46	177
Puskwaska Upland (611)	-13.4	15.3	519	-9	181
Beaverlodge Plain (598)	-13.7	15.3	471	-48	175
Grande Prairie Plain (599)	-15.3	15.9	456	-70	176
Boreal Transition including Mid-Boreal Uplands (612, 615, 616) and Western Alberta Upland (619, 622, 623, 630)					
Athabasca Plain (678)	-16.1	16.1	475	-48	175
Redwater Plain (683)	-14.3	16.7	432	-107	180
Beaver River Plain (680)	-16.9	16.3	441	-81	175
Whitefish Upland (679)	-16.2	15.9	464	-57	175
Westlock Plain (681)	-13.8	16.0	492	-33	178
Cross Lake Upland (615)	-17.0	15.8	484	-32	173
Hondo Plain (616)	-16.1	15.5	490	-24	173
Lac Ste Anne Upland (684)	-13.9	16.0	532	9	177
Breton Upland (692)	-12.9	15.9	561	38	178
Blueridge Upland (622)	-13.4	14.8	561	57	170
Edson Plain (623)	-13.0	14.8	568	65	173
Onion Lake Plain (687)	-17.4	16.4	422	-101	174
Myrnam Upland (688)	-17.0	16.5	431	-94	176
Caroline Plain (708)	-13.0	14.8	510	13	173
Rimbey Upland (703)	-13.2	15.6	532	17	178
Winfield Upland (630)	-13.2	15.1	586	77	179
Aspen Parkland					
Leduc Plain (727)	-13.6	16.5	471	-61	181
Andrew Plain (728)	-16.1	16.3	416	-112	178
Lloydminster Plain (729)	-17.4	17.1	414	-119	177
Vermilion Upland (730)	-16.7	16.6	429	-99	178
Daysland Plain (731)	-13.9	17.1	433	-108	183
Cooking Lake Upland (732)	-14.2	16.8	435	-102	181
Red Deer Plain (737)	-13.3	15.8	488	-29	178
Sedgewick Plain (738)	-15.1	17.0	449	-87	182
Bashaw Upland (740)	-13.5	16.8	429	-102	181

(Table continued on next page)

Table 1. Climate normals for the ecodistricts included in the Alberta survey^{1,2} (*continued*)

Ecoregion and Ecodistrict ³ (days)	Average Daily Temperature (°C) January	Average Daily Temperature (°C) July	Annual Precipitation (mm)	Precipitation Surplus/ Deficit (mm)	Growing Season Length
Aspen Parkland (continued)					
Provost Plain (743)	-17.5	17.6	408	-127	178
Ribstone Plain (739)	-17.1	17.3	413	-119	178
Pine Lake Upland (744)	-13.8	16.1	471	-48	178
Olds Plain (746)	-11.7	15.5	483	-25	177
Black Diamond Upland (750)	-9.3	15.7	460	-48	181
Fescue Grassland					
Delacour Plain (798)	-11.2	16.6	416	-108	183
Cardston Plain (800)	-7.3	17.1	518	-9	189
Twin Butte Foothills (801)	-7.3	16.2	656	148	184
Del Bonita Plateau (802)	-7.9	16.4	432	-79	182
Moist Mixed Grassland					
Castor Plain (769)	-14.3	17.2	400	-135	182
Endiang Upland (779)	-13.8	17.2	394	-140	181
Sullivan Lake Plain (777)	-15.2	17.2	367	-162	179
Neutral Hills (771)	-15.7	17.7	367	-169	179
Drumheller Plain (781)	-12.9	17.0	380	-153	182
Wintering Hills (786)	-13.3	17.2	384	-149	182
Majorville Upland (787)	-11.2	17.7	393	-148	186
Standard Plain (788)	-11.9	17.1	374	-159	183
Blackfoot Plain (790)	-11.2	17.3	382	-154	186
Vulcan Plain (791)	-10.0	17.7	406	-137	188
Lethbridge Plain (793)	-8.5	18.1	403	-148	195
Milk River Upland (797)	-8.7	17.1	396	-127	186
Mixed Grassland including Cypress Upland (837, 838)					
Sounding Creek Plain (804)	-15.8	17.6	308	-225	180
Berry Creek Plain (806)	-14.4	18.2	334	-211	184
Brooks Plain (812)	-13.3	18.4	336	-213	187
Rainy Hills Upland (814)	-12.1	19.1	329	-241	193
Oyen Upland (809)	-14.4	18.5	312	-237	184
Acadia Valley Plain (811)	-13.0	19.3	282	-286	189
Sibbald Plain (805)	-14.6	18.5	302	-249	184
Bindloss Plain (815)	-11.6	19.7	300	-277	194
Schuler Upland (821)	-11.9	19.2	327	-229	190
Vauxhall Plain (823)	-10.8	18.4	331	-223	192
Foremost Plain (828)	-10.1	19.0	341	-221	195
Cypress Hills (838)	-12.8	18.2	365	-165	179
Cypress Slope (837)	-11.3	19.2	352	-207	192
Wild Horse Plain (833)	-12.9	18.8	333	-205	180
Sweetgrass Upland (836)	-8.3	19.0	359	-198	197

¹ Agriculture and Agri-Food Canada. 1997. Canadian ecodistrict climate normals 1961-1990. [Online] Available: <http://sas.agr.gc.ca/cansis/nsdb/ecostrat/district/climate.html> [14 January 2002]

² Ecodistrict names provided by Tony Brierley, Land Resource Unit, Agriculture and Agri-Food Canada, Edmonton, Alberta

³ Indented ecodistricts are combined with preceding ecodistricts in summaries

Crop Selection

The selection of cereal and oilseed crops to be included in the 2001 survey was based on the 2000 harvested area in the province (Table 2). It was assumed that a similar proportion of crops would be grown in 2001. A minimum of 20 fields was set as the limit for inclusion of a crop in the survey. Based on a survey target of 1203 fields in Alberta (4000 fields distributed proportionally amongst Alberta, Saskatchewan and Manitoba), four cereal crops, one oilseed crop and one pulse crop were selected.

Table 2. Area of the six crops selected for the survey and the number of fields allocated to each crop

Crop	Harvested area ¹ (1,000 ha)	Proportion of area (%)	Expected number of fields
Cereal			
Spring wheat	2,488.7	33.6	404
Durum	404.7	5.5	66
Barley	2185.3	29.5	355
Oat	526.1	7.1	85
Oilseed			
Canola	1537.8	20.8	250
Pulse			
Dry peas	267.1	3.6	43
Total	7409.7	100.0	1203

¹ **Statistics Canada.** 2000. Preliminary Estimates of Principal Field Crop Areas, Canada 2000. Field Crop Reporting Series, Vol. 79, No. 4. Ottawa, Canada.

Stratification of Sites

Ecodistricts were used as the strata in a stratified random-sampling procedure. The number of fields 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 selected crops in all ecodistricts (Table 3). Hectarage of field crops derived from the 1996 census data of Statistics Canada for each soil landscape complex (a subunit of ecodistrict) was obtained from the Soil Landscapes of Canada Database⁷ and summed to obtain hectarage per ecodistrict. To facilitate the organization of the survey, fields allocated to ecodistricts were subsequently allocated to municipalities or counties based on proportion of each ecodistrict's area cultivated in each municipality or county (Figure 3).

Table 3. Allocation of sites based on ecodistrict area and number of sites actually surveyed in each ecodistrict.

Ecoregion and Ecodistrict	Allocated	Surveyed
Clear Hills Upland	1	1
Clear Hills Upland (583)	1	1
Peace Lowland	170	165
High Level Plain (586)	13	11
Boyer Plain (587)	2	2
Manning Plain (588)	16	14
Grimshaw Plain (590)	8	7
Worsley Plain (591)	17	17
McLennan Plain (592)	12	13
Rycroft Plain (593)	21	22
Blueberry Upland (594)	13	12
Falher Plain (595)	17	16
Dunvegan Plain (596)	19	18
Debolt Plain (597)	6	7
Beaverlodge Plain (598)	11	10
Grande Prairie Plain (599)	14	14
Smoky Plain (600)	1	2
Western Boreal	4	4
Iosegun Plain (610)	2	2
Puskwaska Upland (611)	2	2
Mid-Boreal Uplands	7	5
Heart River Upland (612)	1	0
Cross Lake Upland (615)	4	3
Hondo Plain (616)	2	2
Western Alberta Upland	9	6
Saddle Upland (618)	3	3
Driftpile Upland (619)	1	0
Blueridge Upland (622)	2	1
Edson Plain (623)	1	1
Winfield Upland (630)	2	1
Boreal Transition	118	108
Athabasca Plain (678)	20	19
Whitefish Upland (679)	1	1
Beaver River Plain (680)	13	11
Westlock Plain (681)	20	20
Redwater Plain (683)	3	3
Lac Ste Anne Upland (684)	10	10
Frog Lake Upland (686)	1	0
Onion Lake Plain (687)	24	22
Myrnam Upland (688)	8	7
Breton Upland (692)	5	2
Rimbey Upland (703)	6	6
Caroline Plain (708)	7	7
Aspen Parkland	428	418
Leduc Plain (727)	66	64
Andrew Plain (728)	31	32
Lloydminster Plain (729)	25	25
Vermilion Upland (730)	72	67
Daysland Plain (731)	81	79
Cooking Lake Upland (732)	2	2
Red Deer Plain (737)	24	24
Sedgewick Plain (738)	17	18

(Table continued on next page)

Table 3. Allocation of sites based on ecodistrict area and number of sites actually surveyed in each ecodistrict
(continued)

Ecoregion and Ecodistrict	Allocated	Surveyed
Aspen Parkland (continued)		
Ribstone Plain (739)	7	7
Bashaw Upland (740)	23	23
Provost Plain (743)	14	13
Pine Lake Upland (744)	30	30
Olds Plain (746)	23	22
Black Diamond Upland (750)	13	12
Moist Mixed Grassland	233	230
Castor Plain (769)	26	27
Neutral Hills (771)	11	11
Sullivan Lake Plain (777)	3	2
Endiang Upland (779)	6	6
Drumheller Plain (781)	37	38
Wintering Hills (786)	17	16
Majorville Upland (787)	13	12
Standard Plain (788)	12	12
Blackfoot Plain (790)	5	4
Vulcan Plain (791)	32	32
Lethbridge Plain (793)	68	67
Milk River Upland (797)	3	3
Fescue Grassland	82	76
Delacour Plain (798)	52	49
Willow Creek Upland (799)	1	0
Cardston Plain (800)	21	19
Twin Butte Foothills (801)	4	4
Del Bonita Plateau (802)	4	4
Mixed Grassland	143	133
Sounding Creek Plain (804)	6	6
Sibbald Plain (805)	1	1
Berry Creek Plain (806)	6	6
Oyen Upland (809)	10	10
Acadia Valley Plain (811)	3	2
Brooks Plain (812)	9	6
Rainy Hills Upland (814)	1	1
Bindloss Plain (815)	12	10
Bow City Plain (818)	2	0
Schuler Upland (821)	7	8
Vauxhall Plain (823)	15	13
Foremost Plain (828)	68	67
Purple Springs Plain (829)	1	0
Wild Horse Plain (833)	1	2
Sweetgrass Upland (836)	1	1
Cypress Upland	8	7
Cypress Slope (837)	3	3
Cypress Hills (838)	5	4
Alberta	1203	1153

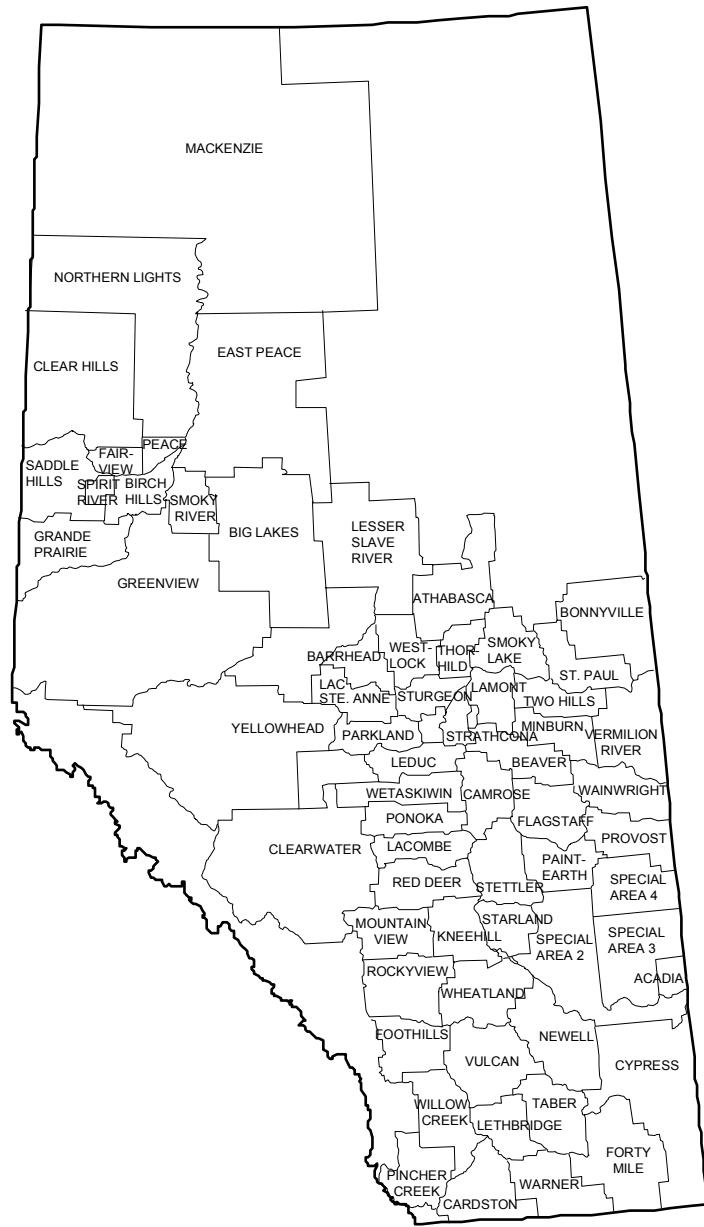


Figure 3. Counties and municipalities included in the weed survey.

Random Site Selection

The random selection of sites used the grid established by the Dominion Land Survey System⁸ in western Canada. A random sample was selected from all quarter sections (65 ha) that had greater than 16 cultivated hectares within each target ecodistrict and municipality or county. A list that contained four times the allocated number of sites was developed for each ecodistrict.

Sites were grouped by Region (Figure 4). Lists of sites were sent to each of the four Regional Coordinators. Client Services Representatives (CSR) in each region were responsible for determining ownership of the land and for qualifying sites. 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 a selected crop (and not underseeded)?
3. Is the field at least 20 hectares in size?
4. Have you farmed the identified field for a minimum of five years (including 2001)?
5. Is the identified field accessible by road?
6. Is the field under dryland production (not irrigated)?
7. Do you agree to complete a questionnaire on management practices used on the identified field in the fall?
8. Do you agree to allow a resistant weed survey to be conducted on same quarter in August?

If a field in a quarter section did not qualify, the CSR attempted 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 preselected quarter section. Each CSR was provided with a form in Microsoft ® Access on which they recorded the following:

- (a) the name, mailing address, and telephone number of the farm operator for the qualified fields,
- (b) a new quarter section if it had been changed from the preselected site,
- (c) the crop seeded in the selected field,
- (d) the number of acres in the selected field.

If the CSRs exhausted the list without qualifying the required number of fields, they requested an additional list of randomly selected sites.

Field Survey Personnel and Orientation Sessions

The fields were allocated to survey personnel based on the regional and district organization of Alberta Agriculture, Food and Rural Development. Most of the fields were surveyed by summer survey technicians and weed inspectors. The rest of the fields were surveyed by Agricultural Fieldmen, Assistant Agricultural Fieldmen, and Crop Specialists. A total 103 people contributed to the weed counts.

An orientation session was held in each Region prior to the start of the field survey. Regional Coordinators, Agricultural Fieldmen and survey technicians attended the session. The purpose of the session was to explain reasons for conducting a weed survey, how to implement the protocol, how to handle unknown weeds, and how to record the weed data on the field sheets.

⁸ **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.

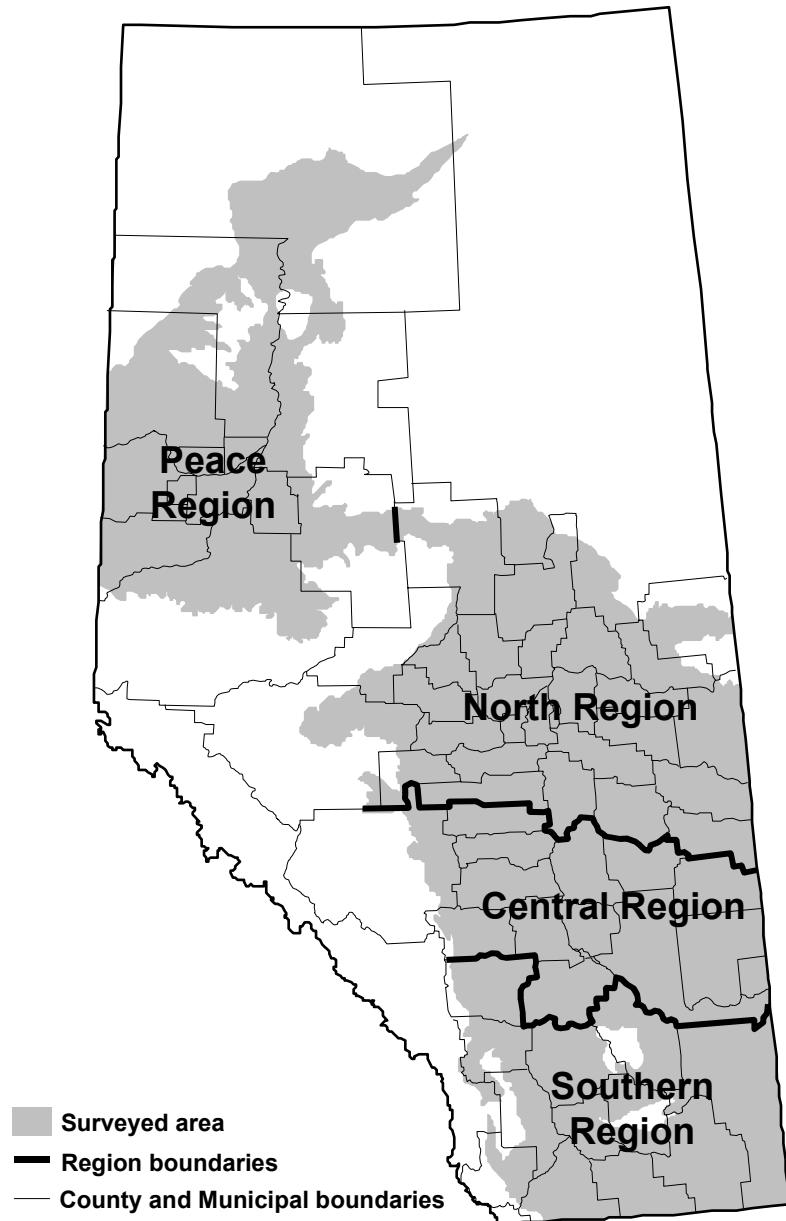


Figure 4. Surveyed area in Extension Regions.

Timing of Weed Counts

Weeds that had not been controlled in the fields were counted in the summer survey. This time was chosen for several reasons. The weeds in the field were, in part, a result of the agronomic management decisions (e.g., crop rotation; time and type of tillage; rate and placement of fertilizer; selection, rate and effectiveness of herbicide used) 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 most of the weeds were mature. In particular, wild oats and other grassy weeds had flowered or produced fruit and were easily recognized. Also, the field crew had more time to work on the survey during the summer than during the period immediately after crop seeding.

Weed Counts in Fields

Once a surveyor arrived at a qualified field, the 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 5). Five locations were sampled along each arm of the pattern, giving a total of 20 locations. Locations were 20 paces apart. The number of individuals of each weed species was determined in a 0.25 m^2 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.

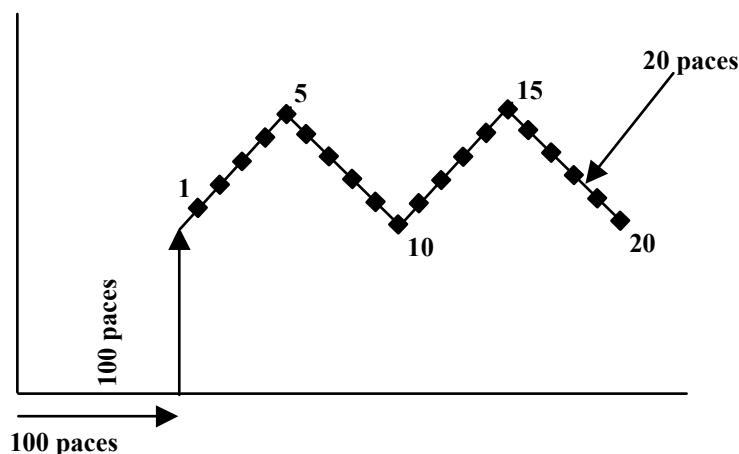


Figure 5. W pattern used for field counts.

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.

Any plant found in the field that could not be identified, or that the surveyor was unsure of, was tagged, pressed, and submitted for identification. Infrequently occurring species were identified in this way. The common and botanical names of 117 weeds found in 2001 are listed in Table 4.

Table 4. Common and scientific names of plants that appear in this report¹

Common Name	Scientific Name
Absinth	<i>Artemisia absinthium</i> L.
Alsike clover	<i>Trifolium hybridum</i> L.
American dragonhead	<i>Dracocephalum parviflorum</i> Nutt.
Annual sow-thistle	<i>Sonchus oleraceus</i> L.
Aspen poplar	<i>Populus tremuloides</i> Michx.
Baby's breath	<i>Gypsophila paniculata</i> L.
Ball mustard	<i>Neslia paniculata</i> (L.) Desv.
Barnyard grass	<i>Echinochloa crusgalli</i> (L.) P. Beauv.
Bicknell's geranium	<i>Geranium bicknellii</i> Britton
Biennial wormwood	<i>Artemisia biennis</i> Willd.
Black nightshade	<i>Solanum nigrum</i> L.
Bladder campion	<i>Silene vulgaris</i> (Moench) Garcke
Blue lettuce	<i>Lactuca tatarica</i> (L.) C.A. Mey. Subsp. <i>Pulchella</i> (Pursh) Stebbins
Bluebur	<i>Lappula squarrosa</i> (Retz.) Dumort.
Broad-leaved plantain	<i>Plantago major</i> L.
Canada thistle	<i>Cirsium arvense</i> (L.) Scop.
Chickweed	<i>Stellaria media</i> (L.) Vill.
Cleavers	<i>Galium aparine</i> L.
Common groundsel	<i>Senecio vulgaris</i> L.
Common pepper-grass	<i>Lepidium densiflorum</i> Schrad.
Common yarrow	<i>Achillea millefolium</i> L.
Corn spurry	<i>Spergula arvensis</i> L.
Cow cockle	<i>Vaccaria hispanica</i> (Mill.) Rauschert
Cream-colored vetchling	<i>Lathyrus ochroleucus</i> Hook.
Curled dock	<i>Rumex crispus</i> L.
Dandelion	<i>Taraxacum officinale</i> G. H. Weber ex Wiggers
Dog mustard	<i>Erucastrum gallicum</i> (Willd.) O.E. Schultz
Downy brome	<i>Bromus tectorum</i> L.
Erect knotweed	<i>Polygonum erectum</i> L.
Field bindweed	<i>Convolvulus arvensis</i> L.
Field horsetail	<i>Equisetum arvense</i> L.
Field mint	<i>Mentha arvensis</i> L.
Fireweed	<i>Epilobium angustifolium</i> L.
Flixweed	<i>Descurainia sophia</i> (L.) Webb ex Prantl
Foxtail barley	<i>Hordeum jubatum</i> L.
Goat's-beard	<i>Tragopogon dubius</i> Scop.
Gray tansy mustard	<i>Descurainia incana</i> (Bernh. Ex Fisch. & C.A. Mey.) Dorn
Green foxtail	<i>Setaria viridis</i> (L.) P. Beauv.
Green tansy mustard	<i>Descurainia pinnata</i> (Walter) Britton subsp. <i>Brachycarpa</i> (Richardson) Detling
Ground-ivy	<i>Glechoma hederacea</i> L.
Hairy nightshade	<i>Solanum sarbatoides</i> Sendtn.
Hemp-nettle	<i>Galeopsis tetrahit</i> L.
Henbit	<i>Lamium amplexicaule</i> L.
Knawel	<i>Scleranthus annuus</i> L.
Kochia	<i>Kochia scoparia</i> (L.) Schrad.
Lamb's-quarters	<i>Chenopodium album</i> L.
Leafy spurge	<i>Euphorbia esula</i> L.
Low cudweed	<i>Gnaphalium uliginosum</i> L.
Meadow brome	<i>Bromus riparius</i> Rehmann

(Table continued on next page)

Table 4. Common and scientific names of plants that appear in this report¹ (continued)

Common Name	Scientific Name
Meadow fescue	<i>Festuca pratensis</i> Huds.
Meadow foxtail	<i>Alopecurus pratensis</i> L.
Milk-vetch species	<i>Astragalus</i> spp.
Mouse-eared chickweed	<i>Cerastium fontanum</i> Baumg. subsp. <i>vulgare</i> (Hartm.) Greuter & Burdet
Narrow-leaved hawk's-beard	<i>Crepis tectorum</i> L.
Narrow-leaved vetch	<i>Vicia sativa</i> L. subsp. <i>nigra</i> (L.) Ehrh.
Night-flowering catchfly	<i>Silene noctiflora</i> L.
Pale smartweed	<i>Polygonum lapathifolium</i> L.
Pasture sage	<i>Artemisia frigida</i> Willd.
Perennial 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.
Prickly lettuce	<i>Lactuca serriola</i> L.
Prostrate knotweed	<i>Polygonum aviculare</i> L.
Prostrate pigweed	<i>Amaranthus blitoides</i> S. Watson
Purslane	<i>Portulaca oleracea</i> L.
Pygmyflower	<i>Androsace septentrionalis</i> L.
Quack grass	<i>Elytrigia repens</i> (L.) Desv. ex B. D. Jacks
Red clover	<i>Trifolium pratense</i> L.
Redroot pigweed	<i>Amaranthus retroflexus</i> L.
Redtop	<i>Agrostis gigantea</i> Roth
Rose species	<i>Rosa</i> spp.
Rough cinquefoil	<i>Potentilla norvegica</i> L.
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
Scentless chamomile	<i>Matricaria perforata</i> Merat
Scouring-rush	<i>Equisetum hyemale</i> L.
Sedge species	<i>Carex</i> spp.
Shepherd's-purse	<i>Capsella bursa-pastoris</i> (L.) Medik.
Showy milkweed	<i>Asclepias speciosa</i> Torr.
Silverweed	<i>Potentilla anserina</i> L.
Skeletonweed	<i>Lygodesmia juncea</i> (Pursh) D. Don ex Hook.
Slender wheat grass	<i>Elymus trachycaulus</i> (Link) Gould ex. Shinners
Small-seeded false flax	<i>Camelina microcarpa</i> DC.
Smooth brome	<i>Bromus inermis</i> Leyss.
Spear-leaved goosefoot	<i>Monolepis nuttalliana</i> (Schult.) Greene
Spiny annual sow-thistle	<i>Sonchus asper</i> (L.) Hill
Stinkweed	<i>Thlaspi arvense</i> L.
Stork's-bill	<i>Erodium cicutarium</i> (L.) L'Her.ex Aiton
Striate knotweed	<i>Polygonum achoreum</i> S.F. Blake
Sulfur cinquefoil	<i>Potentilla recta</i> L.
Tall blue lettuce	<i>Lactuca biennis</i> (Moench) Fernald
Tall buttercup	<i>Ranunculus acris</i> L.
Tall fescue	<i>Festuca arundinacea</i> Schreb.
Tansy	<i>Tanacetum vulgare</i> L.
Tartary buckwheat	<i>Fagopyrum tataricum</i> (L.) Gaertn.

(Table continued on next page)

Table 4. Common and scientific names of plants that appear in this report¹ (continued)

Common Name	Scientific Name
Thyme-leaved spurge	<i>Euphorbia serpyllifolia</i> Pers.
Timothy	<i>Phleum pratense</i> L.
Toad rush	<i>Juncus bufonius</i> L.
Two-grooved milk-vetch	<i>Astragalus bisulcatus</i> (Hook.) A. Gray
Vetch species	<i>Vicia</i> spp.
Volunteer alfalfa	<i>Medicago sativa</i> L.
Volunteer barley	<i>Hordeum vulgare</i> L.
Volunteer canola	<i>Brassica napus</i> L. and <i>B. rapa</i> L.
Volunteer chickpea	<i>Cicer arietinum</i> L.
Volunteer flax	<i>Linum usitatissimum</i> L.
Volunteer oats	<i>Avena sativa</i> L.
Volunteer peas	<i>Pisum arvense</i> L.
Volunteer rye	<i>Secale cereale</i> L.
Volunteer wheat	<i>Triticum aestivum</i> L.
Volunteer white mustard	<i>Sinapis alba</i> L.
Western marsh cudweed	<i>Gnaphalium palustre</i> Nutt.
White clover	<i>Trifolium repens</i> L.
White cockle	<i>Silene pratensis</i> (Raf.) Godr. & Gren.
Wild buckwheat	<i>Polygonum convolvulus</i> L.
Wild chamomile	<i>Matricaria recutita</i> L.
Wild mustard	<i>Sinapis arvensis</i> L.
Wild oats	<i>Avena fatua</i> L.
Wild radish	<i>Raphanus raphanistrum</i> L.
Wild rye species	<i>Elymus</i> spp.
Wild strawberry	<i>Fragaria virginiana</i> Mill.
Wild tomato	<i>Solanum triflorum</i> Nutt.
Wood whitlow-grass	<i>Draba nemorosa</i> L.
Wormseed mustard	<i>Erysimum cheiranthoides</i> L.
Yellow alyssum	<i>Alyssum desertorum</i> Stapf
Yellow foxtail	<i>Setaria pumila</i> (Poir.) Roem. & Schult.
Yellow sweet-clover	<i>Melilotus officinalis</i> (L.) Pall.
Yellow toadflax	<i>Linaria vulgaris</i> Mill.

¹Common and botanical names used in this report are those listed in:

Darbyshire, S. J., M. Favreau and M. Murray. 2000. Common and Scientific Names of Weeds in Canada. Publication 1397/B, Agriculture and Agri-Food Canada, Ottawa, ON. 132 pp.

Data Analysis

Weed count data on field sheets were numerically coded, entered into computer files, and verified. Data were processed in Microsoft® Excel and summary tables were produced following the standard format used in previous Weed Survey Series Reports.

Weed data were summarized in tables using ecological, agronomic, and jurisdictional variables including ecoregion, ecodistrict, crop and Alberta Agriculture, Food and Rural Development Regions. A minimum of ten sites per ecodistrict was set to allow meaningful summarization. Where these minima were not reached, a summary table was not provided, but data were retained in other appropriate summaries. For example, a separate summary table for field pea in the south was not provided, however, the fields were included in the overall summary for Alberta field peas. Geographic areas (ecoregions, ecodistricts and municipalities) with fewer fields than required were combined with adjacent areas.

The geographic distribution of 46 frequently occurring species is presented in maps based on ecodistricts. Relative abundance is used as the mapping variable. Distribution maps were produced with ArcView GIS 3.2 from Environmental Systems Research Institute, Inc..

Data were summarized using seven quantitative variables. Details for the calculation of these variables are described elsewhere¹¹.

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, or ecodistricts, and in the province.

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, or ecodistricts, and in the province (20 per field multiplied by the number of fields).

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, or ecodistricts, and in the province for the occurrence fields only (20 per field multiplied by the number of fields in which the species occurred).

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, or ecodistrict, and in the province.

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, or ecodistrict, and in the province.

Relative abundance. A combination of the frequency, field uniformity (all fields) and mean 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 mean field density (all fields) for a species (RD) is the mean field density value for a species divided by the sum of mean field density values for all species, expressed as a percentage.

¹¹ Thomas, A.G. 1985. Weed survey system used in Saskatchewan for cereal and oilseed crops. *Weed Science* 33: 34-43.

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.

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 wild buckwheat in the provincial summary table (Table 5). A **frequency** of 54.3% shows that wild buckwheat occurred at least once in 626 of the 1153 cereal, oilseed and pulse 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 wild buckwheat occurred in 21.4% 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 wild buckwheat was present in 39.3% of the quadrats when considering only the 626 occurrence fields.

Three density variables are included in the tables. Wild buckwheat had an **occurrence field density** of 6.9 plants per square metre and an **all field density** of 3.8 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 175 wild buckwheat 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 such as wild buckwheat and wild oats. Because the frequency and all field uniformity value of wild buckwheat is larger than that for wild oats, wild buckwheat is ranked higher, even though wild oats has a higher all field density. The relative abundance value of 35.4 for wild buckwheat is higher than the value of 33.1 for wild oats.

Limitations, Constraints and Biases

The survey 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 farmer. 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 in the province. Reserve land was omitted. Only the major agricultural crops were considered. Other crops may have different weed floras. Fields were limited to those with an area greater than 20 ha. Fields were only surveyed if producers had used the field for a minimum of five years, if they were accessible by road, and if the producers were willing to cooperate. These constraints will have altered the spectrum of fields slightly from a completely random sample.

Occasionally, when the surveyor went to the field the crop did not match the qualified crop for the site. If the farmer was not available to resolve the discrepancy with the surveyor, the field was generally surveyed. Fields that were not planted to the selected crops were excluded from the summaries. The exclusion of fields may have slightly altered the weed spectrum, as areas with excluded fields are underrepresented (Table 3). In twelve cases, the field was planted to mixture of the selected crops. These fields were included in overall summaries, but a separate summary was not made for mixed crops.

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 distinction between spiny annual sow-thistle, annual sow-thistle and perennial sow-thistle may have been difficult for some surveyors as the annual sow-thistles are often not distinguished from each other. 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 shows what was there, not its effect on the crop. In the survey analysis, all species are considered separately. The complex interrelationships among species have not been considered. These 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 agricultural ecoregions of Alberta in 2001. It might be argued that 2001 is not indicative of a typical year as most of the province received much lower than normal precipitation during the 2001 agricultural year (Figure 6). The drought was particularly severe in the southern area of the province where precipitation was at record low levels. Only two areas in the Peace region had average or above average precipitation. Differences in precipitation and temperature may favour some weeds over others, or may result in higher or lower weed numbers in some areas than usual for the period as a whole. Consequently, only dramatic or consistent trends in the weed data are considered as important. Minor fluctuations may result from simple year-to-year variation.



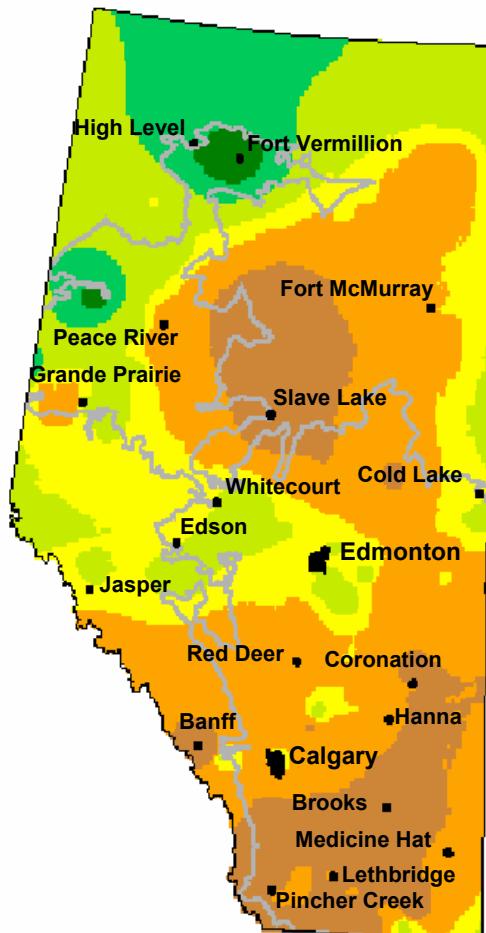
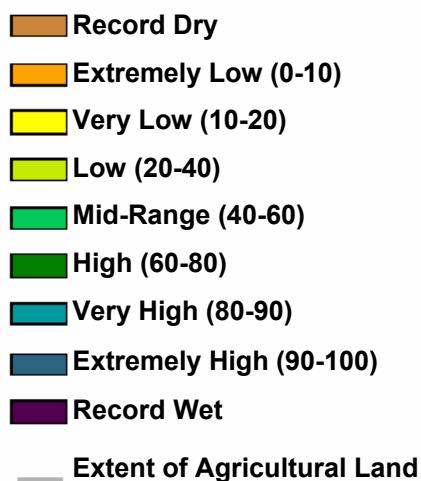
Agriculture and
Agri-Food Canada

Agriculture et
Agroalimentaire Canada



Precipitation Percentiles

September 1, 2000 to August 31, 2001 (A.M.)



Prepared by PFRA (Prairie Farm Rehabilitation Organization) using data from the Timely Monitoring Network and the many federal and provincial agencies and volunteers that support it

Canada

Figure 6. Precipitation percentiles. A percentile is a value on a scale of one hundred that indicates the percent of a distribution that is equal to or below it. For example, extremely low precipitation (0 to 10th percentile) indicates the precipitation accumulation in 2001 equals the lowest or is equal to or less than the lowest 10% of the values in the historical record. The precipitation for 2001 matches the lowest precipitation conditions or the lowest that occur on average 10 times in every 100 years.

List of Summary Tables in Part III

Table No.

Province

5. Provincial summary	29
-----------------------------	----

Crop

6. Number of fields surveyed, density, species richness and weed-free quadrats in the surveyed crops	32
7. Spring wheat	33
8. Durum	35
9. Barley	36
10. Oats	38
11. Canola	40
12. Field pea	42

Ecoregion and Crop

13. Number of fields surveyed, density, species richness and weed-free quadrats in the surveyed ecoregions	44
14. Number of fields surveyed for each crop in each ecoregion	44
15. All fields in the Peace Lowland	45
16. Spring wheat fields in the Peace Lowland Ecoregion	47
17. Barley fields in the Peace Lowland Ecoregion	48
18. Oat fields in the Peace Lowland Ecoregion	49
19. Canola fields in the Peace Lowland Ecoregion	50
20. All fields in the Boreal Transition Ecoregion	51
21. Spring wheat fields in the Boreal Transition Ecoregion	52
22. Barley fields in the Boreal Transition Ecoregion	53
23. Oat fields in the Boreal Transition Ecoregion	54
24. Canola fields in the Boreal Transition Ecoregion	55
25. All fields in the Aspen Parkland Ecoregion	56
26. Spring wheat fields in the Aspen Parkland Ecoregion	58
27. Barley fields in the Aspen Parkland Ecoregion	59
28. Oat fields in the Aspen Parkland Ecoregion	61
29. Canola fields in the Aspen Parkland Ecoregion	62
30. Field pea fields in the Aspen Parkland Ecoregion	63
31. All fields in the Moist Mixed Grassland Ecoregion	64
32. Spring wheat fields in the Moist Mixed Grassland Ecoregion	66
33. Durum fields in the Moist Mixed Grassland Ecoregion	67
34. Barley fields in the Moist Mixed Grassland Ecoregion	68
35. Oat fields in the Moist Mixed Grassland Ecoregion	69
36. Canola fields in the Moist Mixed Grassland Ecoregion	70
37. All fields in the Fescue Grassland Ecoregion	71
38. Spring wheat fields in the Fescue Grassland Ecoregion	72
39. Barley fields in the Fescue Grassland Ecoregion	73
40. All fields in the Mixed Grassland Ecoregion	74
41. Spring wheat fields in the Mixed Grassland Ecoregion	75
42. Durum fields in the Mixed Grassland Ecoregion	76
43. Barley fields in the Mixed Grassland Ecoregion	77

Ecodistrict

44. Number of fields surveyed in each ecodistrict	78
45. High Level Plain Ecodistrict (586 & 587) in the Peace Lowland Ecoregion	80
46. Manning Plain Ecodistrict (588 & 590) in the Peace Lowland Ecoregion	81
47. Worsley Plain Ecodistrict (591 & 583) in the Peace Lowland Ecoregion	82

48.	McLennan Plain Ecodistrict (592 & 610) in the Peace Lowland Ecoregion	83
49.	Rycroft Plain Ecodistrict (593) in the Peace Lowland Ecoregion	84
50.	Blueberry Upland Ecodistrict (594 & 618) in the Peace Lowland Ecoregion	85
51.	Falher Plain Ecodistrict (595) in the Peace Lowland Ecoregion	86
52.	Dunvegan Plain Ecodistrict (596) in the Peace Lowland Ecoregion	87
53.	Debolt Plain Ecodistrict (597, 600 & 611) in the Peace Lowland Ecoregion	88
54.	Beaverlodge Plain Ecodistrict (598) in the Peace Lowland Ecoregion	89
55.	Grande Prairie Plain Ecodistrict (599) in the Peace Lowland Ecoregion	90
56.	Athabasca Plain Ecodistrict (678 & 683) in the Boreal Transition Ecoregion	91
57.	Beaver River Plain Ecodistrict (680 & 679) in the Boreal Transition Ecoregion	92
58.	Westlock Plain Ecodistrict (681, 615 & 616) in the Boreal Transition Ecoregion	93
59.	Lac Ste Anne Upland Ecodistrict (684, 692, 622 & 623) in the Boreal Transition Ecoregion	94
60.	Onion Lake Plain Ecodistrict (687 & 688) in the Boreal Transition Ecoregion	95
61.	Caroline Plain Ecodistrict (708, 703 & 630) in the Boreal Transition Ecoregion	96
62.	Leduc Plain Ecodistrict (727) in the Aspen Parkland Ecoregion	97
63.	Andrew Plain Ecodistrict (728) in the Aspen Parkland Ecoregion	98
64.	Lloydminster Plain Ecodistrict (729) in the Aspen Parkland Ecoregion	99
65.	Vermilion Upland Ecodistrict (730) in the Aspen Parkland Ecoregion	100
66.	Daysland Plain Ecodistrict (731 & 732) in the Aspen Parkland Ecoregion	101
67.	Red Deer Plain Ecodistrict (737) in the Aspen Parkland Ecoregion	102
68.	Sedgewick Plain Ecodistrict (738) in the Aspen Parkland Ecoregion	103
69.	Bashaw Upland Ecodistrict (740) in the Aspen Parkland Ecoregion	104
70.	Provost Plain Ecodistrict (743 & 739) in the Aspen Parkland Ecoregion	105
71.	Pine Lake Upland Ecodistrict (744) in the Aspen Parkland Ecoregion	106
72.	Olds Plain Ecodistrict (746) in the Aspen Parkland Ecoregion	107
73.	Black Diamond Upland Ecodistrict (750) in the Aspen Parkland Ecoregion	108
74.	Castor Plain Ecodistrict (769, 779 & 777) in the Moist Mixed Grassland Ecoregion	109
75.	Neutral Hills Ecodistrict (771) in the Moist Mixed Grassland Ecoregion	110
76.	Drumheller Plain Ecodistrict (781) in the Moist Mixed Grassland Ecoregion	111
77.	Wintering Hills Ecodistrict (786) in the Moist Mixed Grassland Ecoregion	112
78.	Majorville Upland Ecodistrict (787) in the Moist Mixed Grassland Ecoregion	113
79.	Standard Plain Ecodistrict (788 & 790) in the Moist Mixed Grassland Ecoregion	114
80.	Vulcan Plain Ecodistrict (791) in the Moist Mixed Grassland Ecoregion	115
81.	Lethbridge Plain Ecodistrict (793 & 797) in the Moist Mixed Grassland Ecoregion	116
82.	Delacour Plain Ecodistrict (798) in the Fescue Grassland Ecoregion	117
83.	Cardston Plain Ecodistrict (800, 801 & 802) in the Fescue Grassland Ecoregion	118
84.	Sounding Creek Plain Ecodistrict (804, 806, 812 & 814) in the Mixed Grassland Ecoregion	119
85.	Oyen Upland Ecodistrict (809, 811 & 805) in the Mixed Grassland Ecoregion	120
86.	Bindloss Plain Ecodistrict (815 & 821) in the Mixed Grassland Ecoregion	121
87.	Vauxhall Plain Ecodistrict (823) in the Mixed Grassland Ecoregion	122
88.	Foremost Plain Ecodistrict (828) in the Mixed Grassland Ecoregion	123
89.	Cypress Hills Ecodistrict (838, 837, 833 & 836) in the Mixed Grassland Ecoregion	123

Region and Crop

90.	Number of fields surveyed, density, species richness and weed-free quadrats in the four regions	124
91.	Number of fields surveyed for each crop in each region	124
92.	All fields in the Peace Region	125
93.	Spring wheat fields in the Peace	127
94.	Barley fields in the Peace Region	128
95.	Oat fields in the Peace Region	129
96.	Canola fields in the Peace Region	130
97.	All fields in the North Region	131
98.	Spring wheat fields in the North Region	133
99.	Barley fields in the North Region	134
100.	Oat fields in the North Region	135
101.	Canola fields in the North Region	136

102.	Field pea fields in the North Region	137
103.	All fields in the Central Region	138
104.	Spring wheat fields in the Central Region	140
105.	Barley fields in the Central Region	141
106.	Oat fields in the Central Region	142
107.	Canola fields in the Central Region	143
108.	Field pea fields in the Central Region	144
109.	All fields in the Southern Region	145
110.	Spring wheat fields in the Southern Region	146
111.	Durum fields in the Southern Region	147
112.	Barley fields in the Southern Region	148

Municipal Administrative Districts

113.	Number of fields surveyed in each municipal administrative district	149
114.	Birch Hills & Spirit River in the Peace Region	151
115.	Clear Hills in the Peace Region	152
116.	East Peace & Big Lakes in the Peace Region	153
117.	Fairview & Peace in the Peace Region	154
118.	Grande Prairie in the Peace Region	155
119.	Greenview in the Peace Region	156
120.	Mackenzie in the Peace Region	157
121.	Northern Lights in the Peace Region	158
122.	Saddle Hills in the Peace Region	159
123.	Smoky River in the Peace Region	160
124.	Athabasca & Lesser Slave River in the North Region	161
125.	Barrhead & Lac Ste. Anne in the North Region	162
126.	Beaver in the North Region	163
127.	Camrose in the North Region	164
128.	Flagstaff in the North Region	165
129.	Lamont in the North Region	166
130.	Leduc in the North Region	167
131.	Minburn in the North Region	168
132.	Parkland & Yellowhead in the North Region	169
133.	Provost in the North Region	170
134.	Smoky Lake in the North Region	171
135.	St. Paul & Bonnyville in the North Region	172
136.	Sturgeon & Strathcona in the North Region	173
137.	Two Hills in the North Region	174
138.	Vermilion River in the North Region	175
139.	Wainwright in the North Region	176
140.	Westlock & Thorhild in the North Region	177
141.	Wetaskiwin in the North Region	178
142.	Kneehill in the Central Region	179
143.	Lacombe & Clearwater in the Central Region	180
144.	Mountain View in the Central Region	181
145.	Paintearth in the Central Region	182
146.	Ponoka in the Central Region	183
147.	Red Deer in the Central Region	184
148.	Rocky View in the Central Region	185
149.	Special Area 2 in the Central Region	186
150.	Special Area 3 & Acadia in the Central Region	187
151.	Special Area 4 in the Central Region	188
152.	Starland in the Central Region	189
153.	Stettler in the Central Region	190
154.	Cardston & Pincher Creek in the Southern Region	191
155.	Cypress & Newell in the Southern Region	192

156.	Foothills in the Southern Region	193
157.	Forty Mile in the Southern Region	194
158.	Lethbridge in the Southern Region	195
159.	Taber in the Southern Region	196
160.	Vulcan in the Southern Region	197
161.	Warner in the Southern Region	198
162.	Wheatland in the Southern Region	199
163.	Willow Creek in the Southern Region	200

Province 1997

164.	Provincial summary in 1997	201
165.	Number of fields surveyed, density, species richness and weed-free quadrats in the surveyed ecoregions in 1997	204
166.	All fields in the Peace Lowland Ecoregion in 1997	205
167.	All fields in the Boreal Transition Ecoregion in 1997	207
168.	All fields in the Aspen Parkland Ecoregion in 1997	208
169.	All fields in the Moist Mixed Grassland Ecoregion in 1997	210
170.	All fields in the Fescue Grassland Ecoregion in 1997	211
171.	All fields in the Mixed Grassland Ecoregion in 1997	212

Table 5. Provincial summary

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild buckwheat	54.3	21.4	39.3	3.8	6.9	175.0	35.4
2	Wild oats	45.6	17.0	37.3	4.6	10.1	379.6	33.1
3	Chickweed	21.2	10.4	49.1	6.6	31.0	1727.2	29.4
4	Canada thistle	40.7	9.4	23.1	1.1	2.6	41.6	17.2
5	Stinkweed	30.6	8.9	28.9	1.9	6.1	203.2	17.1
6	Cleavers	18.4	6.7	36.3	1.5	8.0	180.8	12.1
7	Lamb's-quarters	23.7	5.9	24.7	1.2	4.8	268.8	11.8
8	Hemp-nettle	18.8	5.5	29.2	1.2	6.5	199.2	10.7
9	Green foxtail	11.4	3.7	32.6	2.0	17.6	469.9	10.3
10	Dandelion	22.7	4.9	21.4	0.5	2.4	43.8	9.2
11	Pale smartweed	15.2	4.2	27.5	1.0	6.6	145.2	8.6
12	Field horsetail	13.5	4.3	31.7	0.9	7.0	76.8	8.1
13	Shepherd's-purse	16.1	4.3	26.9	0.7	4.3	90.4	8.0
14	Quack grass	14.8	3.3	22.2	0.8	5.2	114.0	7.2
15	Annual sow-thistle	8.2	3.2	38.9	1.1	13.2	275.2	6.7
16	Volunteer canola	13.1	3.5	26.7	0.6	4.7	143.2	6.6
17	Narrow-leaved hawk's-beard	14.2	3.0	20.9	0.6	4.5	137.2	6.5
18	Perennial sow-thistle	16.5	3.3	20.2	0.4	2.2	64.8	6.4
19	Volunteer wheat	8.7	2.7	31.6	0.5	5.4	128.2	4.8
20	Kochia	8.8	1.9	21.5	0.4	4.6	145.0	4.2
21	Pineappleweed	6.9	1.8	25.3	0.5	7.6	172.4	4.0
22	Redroot pigweed	8.6	1.7	19.8	0.3	3.9	111.6	3.8
23	Common groundsel	8.0	1.8	22.4	0.3	3.5	62.0	3.5
24	Russian thistle	6.5	1.8	27.6	0.4	5.5	120.4	3.5
25	Volunteer barley	4.8	1.7	35.1	0.4	7.4	71.4	3.0
26	Corn spurry	2.1	0.9	44.4	0.4	20.4	182.4	2.2
27	Bluebur	3.9	0.8	20.0	0.2	5.2	112.0	1.8
28	Stork's-bill	3.5	1.0	29.6	0.2	4.9	52.2	1.8
29	Flixweed	3.8	0.7	18.5	0.1	2.5	37.6	1.5
30	White clover	2.2	0.7	33.2	0.2	9.3	96.6	1.5
31	Foxtail barley	4.1	0.6	13.9	0.1	1.8	19.8	1.4
32	Alsike clover	2.2	0.7	33.2	0.2	7.0	70.4	1.3
33	Volunteer alfalfa	1.4	0.6	46.6	0.2	13.5	78.4	1.2
34	Round-leaved mallow	2.6	0.5	19.8	< 0.1	1.6	9.6	1.0
35	Prostrate knotweed	1.7	0.5	28.3	0.1	4.8	55.8	0.9
36	Rose species	3.0	0.3	9.7	< 0.1	1.0	5.6	0.9
37	Wild mustard	2.3	0.4	16.7	< 0.1	1.8	30.0	0.8
38	Broad-leaved plantain	2.2	0.4	18.0	< 0.1	1.9	14.4	0.8
39	Low cudweed	1.0	0.2	23.2	0.1	14.6	121.2	0.7
40	Rough cinquefoil	1.0	0.3	30.0	0.1	8.0	38.6	0.6
41	Spiny annual sow-thistle	0.9	0.2	27.0	0.1	11.9	83.6	0.6
42	Yellow sweet-clover	1.0	0.3	32.5	0.1	5.0	16.8	0.6
43	Prostrate pigweed	1.0	0.4	39.1	< 0.1	4.0	15.6	0.5
44	Thyme-leaved spurge	0.8	0.3	36.1	0.1	7.0	31.8	0.5
45	Ball mustard	1.0	0.2	25.0	< 0.1	4.6	28.8	0.5
46	Cow cockle	1.1	0.2	20.8	< 0.1	1.9	8.0	0.4
47	Night-flowering catchfly	0.7	0.2	31.3	< 0.1	6.5	31.6	0.4
48	White cockle	1.3	0.1	11.3	< 0.1	0.9	6.2	0.4
49	Yellow toadflax	1.0	0.2	14.6	< 0.1	1.9	4.6	0.4
50	Scentless chamomile	0.9	0.1	16.5	< 0.1	2.2	9.6	0.3
51	Biennial wormwood	0.7	0.1	18.1	< 0.1	4.0	26.6	0.3
52	American dragonhead	0.8	0.1	13.9	< 0.1	0.9	3.0	0.2

(Table continued on next page)

Table 5. Provincial summary (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Downy brome	0.5	0.1	20.0	< 0.1	4.4	21.0	0.2
54	Volunteer oats	0.3	0.1	50.0	< 0.1	11.6	22.0	0.2
55	Knawel	0.3	0.1	32.5	< 0.1	7.1	22.4	0.2
56	Volunteer flax	0.2	0.1	62.5	< 0.1	19.6	25.2	0.2
57	Meadow fescue	0.2	0.1	57.5	< 0.1	16.6	32.4	0.2
58	Field bindweed	0.5	0.1	15.8	< 0.1	1.3	6.2	0.2
59	Aspen poplar	0.4	0.1	13.0	< 0.1	1.8	7.6	0.1
60	Bicknell's geranium	0.4	0.1	17.0	< 0.1	0.8	1.8	0.1
61	Skeletonweed	0.1	< 0.1	40.0	< 0.1	39.2	39.2	0.1
62	Volunteer chickpea	0.1	< 0.1	40.0	< 0.1	39.2	39.2	0.1
63	Wormseed mustard	0.1	0.1	90.0	< 0.1	25.6	25.6	0.1
64	Wild tomato	0.5	< 0.1	6.7	< 0.1	0.3	0.6	0.1
65	Common yarrow	0.4	0.1	12.0	< 0.1	0.8	1.2	0.1
66	Common pepper-grass	0.4	< 0.1	10.3	< 0.1	0.6	1.0	0.1
67	Yellow foxtail	0.1	0.1	65.0	< 0.1	25.6	25.6	0.1
68	Vetch species	0.3	0.1	25.0	< 0.1	2.7	5.4	0.1
69	Barnyard grass	0.1	< 0.1	40.0	< 0.1	27.4	27.4	0.1
70	Wild chamomile	0.3	0.1	20.0	< 0.1	2.4	4.4	0.1
71	Redtop	0.3	< 0.1	8.8	< 0.1	1.4	4.2	0.1
72	Volunteer peas	0.3	0.1	20.0	< 0.1	2.1	6.0	0.1
73	Tartary buckwheat	0.2	0.1	40.0	< 0.1	4.3	6.2	0.1
74	Persian darnel	0.1	0.1	60.0	< 0.1	20.4	20.4	0.1
75	Narrow-leaved vetch	0.3	< 0.1	8.8	< 0.1	0.5	0.6	0.1
76	Two-grooved milk-vetch	0.3	< 0.1	8.8	< 0.1	0.4	0.6	0.1
77	Fireweed	0.3	< 0.1	18.3	< 0.1	1.3	3.4	0.1
78	Mouse-eared chickweed	0.3	< 0.1	13.3	< 0.1	1.5	2.8	0.1
79	Goat's-beard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Western marsh cudweed	0.1	< 0.1	25.0	< 0.1	17.2	17.2	0.1
81	Pasture sage	0.3	< 0.1	8.3	< 0.1	0.7	1.0	0.1
82	Wood whitlow-grass	0.3	< 0.1	6.7	< 0.1	0.3	0.4	0.1
83	Ground-ivy	0.2	< 0.1	10.0	< 0.1	3.8	7.4	0.1
84	Russian pigweed	0.2	< 0.1	17.5	< 0.1	1.3	2.4	0.1
85	Scouring-rush	0.1	< 0.1	55.0	< 0.1	4.8	4.8	0.1
86	Wild radish	0.2	< 0.1	10.0	< 0.1	0.8	1.4	< 0.1
87	Meadow brome	0.2	< 0.1	7.5	< 0.1	1.1	1.2	< 0.1
88	Tall blue lettuce	0.1	< 0.1	30.0	< 0.1	5.4	5.4	< 0.1
89	Red clover	0.2	< 0.1	7.5	< 0.1	0.7	1.0	< 0.1
90	Showy milkweed	0.2	< 0.1	7.5	< 0.1	0.5	0.8	< 0.1
91	Dog mustard	0.2	< 0.1	5.0	< 0.1	0.6	1.0	< 0.1
92	Spear-leaved goosefoot	0.1	< 0.1	15.0	< 0.1	6.6	6.6	< 0.1
93	Cream-colored vetchling	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
94	Milk-vetch species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
95	Henbit	0.1	< 0.1	25.0	< 0.1	3.4	3.4	< 0.1
96	Toad rush	0.1	< 0.1	10.0	< 0.1	6.0	6.0	< 0.1
97	Pygmyflower	0.1	< 0.1	15.0	< 0.1	4.6	4.6	< 0.1
98	Smooth brome	0.1	< 0.1	15.0	< 0.1	1.2	1.2	< 0.1
99	Volunteer fall rye	0.1	< 0.1	10.0	< 0.1	2.2	2.2	< 0.1
100	Absinth	0.1	< 0.1	10.0	< 0.1	2.0	2.0	< 0.1
101	Leafy spurge	0.1	< 0.1	10.0	< 0.1	2.0	2.0	< 0.1
102	Purslane	0.1	< 0.1	15.0	< 0.1	0.6	0.6	< 0.1
103	Tall fescue	0.1	< 0.1	10.0	< 0.1	1.8	1.8	< 0.1
104	Timothy	0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1

(Table continued on next page)

Table 5. Provincial summary (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
105	Curled dock	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
106	Tansy	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
107	Slender wheat grass	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
108	Blue lettuce	0.1	< 0.1	8.8	< 0.1	0.6	0.6	< 0.1
109	Small-seeded false flax	0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
110	Field mint	0.1	< 0.1	5.0	< 0.1	0.8	0.8	< 0.1
111	Tall buttercup	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
112	Sulfur cinquefoil	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
113	Striate knotweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
114	Prickly lettuce	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
115	Gray tansy mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
116	Green tansy mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
117	Volunteer white mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 6. Number of fields surveyed, density, species richness and weed-free quadrats in the surveyed crops

Crop	Number of Fields surveyed	Density (number/m ²)	Species (number/field)	Weed-free Quadrats (%)
Spring wheat	418	26.5	5	39.1
Durum	71	14.2	2	61.9
Barley	349	42.8	5	31.5
Oats	86	60.1	6	15.5
Canola	177	35.6	6	22.8
Peas	40	55.9	8	12.4
Mixed crops	12	71.9	8	19.2
All crops	1153	36.1	5	32.8

Table 7. Spring wheat

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	52.8	21.0	39.7	3.2	6.1	77.4	40.7
2	Wild oats	41.0	13.8	33.6	3.8	9.1	167.0	34.5
3	Chickweed	15.1	7.4	49.0	3.7	24.8	238.6	23.5
4	Canada thistle	40.1	8.5	21.1	0.9	2.3	41.6	19.2
5	Stinkweed	26.4	6.5	24.5	1.3	4.8	104.2	15.9
6	Cleavers	17.5	6.2	35.7	1.4	7.7	180.8	14.0
7	Hemp-nettle	15.6	4.5	29.0	1.1	6.8	90.8	11.0
8	Dandelion	23.2	4.4	19.0	0.4	1.9	43.8	10.3
9	Field horsetail	14.6	4.0	27.5	1.0	7.0	76.8	10.3
10	Volunteer canola	16.0	4.1	25.7	0.8	5.2	143.2	10.0
11	Pale smartweed	14.6	3.6	25.0	0.8	5.6	98.4	9.2
12	Green foxtail	9.8	3.5	36.0	1.1	11.1	100.4	9.1
13	Perennial sow-thistle	15.8	3.7	23.6	0.5	3.4	64.8	8.5
14	Shepherd's-purse	13.9	3.5	25.0	0.5	3.3	31.2	7.6
15	Lamb's-quarters	16.4	2.8	17.0	0.3	1.8	25.2	7.0
16	Annual sow-thistle	6.5	2.4	36.9	0.7	11.4	159.8	6.1
17	Narrow-leaved hawk's-beard	12.6	2.2	17.4	0.4	3.0	78.8	6.0
18	Russian thistle	7.3	1.9	25.6	0.6	7.7	120.4	5.3
19	Redroot pigweed	8.6	1.6	17.9	0.4	4.9	111.6	4.8
20	Quack grass	11.0	1.8	16.3	0.2	2.2	20.0	4.8
21	Kochia	8.2	1.7	20.8	0.2	2.9	48.4	4.1
22	Common groundsel	6.7	1.7	24.8	0.3	4.4	37.6	3.9
23	Pineappleweed	6.0	1.3	22.2	0.3	4.2	51.4	3.3
24	Bluebur	3.1	0.9	30.4	0.5	14.9	112.0	3.2
25	Stork's-bill	3.1	1.3	43.1	0.3	9.8	52.2	2.9
26	Volunteer barley	5.0	1.3	25.0	0.2	4.1	28.6	2.9
27	Corn spurry	2.2	0.7	32.2	0.4	17.2	118.2	2.4
28	Foxtail barley	5.3	0.8	14.8	0.1	1.6	14.4	2.1
29	Flixweed	4.1	0.6	15.0	< 0.1	0.9	3.2	1.5
30	Prostrate knotweed	2.2	0.6	27.1	0.1	2.8	12.0	1.3
31	Thyme-leaved spurge	1.0	0.4	43.8	0.1	9.1	31.8	0.9
32	Rose species	2.5	0.2	6.9	< 0.1	0.6	2.8	0.7
33	Round-leaved mallow	1.7	0.3	20.0	< 0.1	1.7	5.2	0.7
34	Prostrate pigweed	1.0	0.5	47.5	< 0.1	3.3	4.8	0.7
35	Alsike clover	1.4	0.3	20.8	< 0.1	1.7	4.6	0.6
36	Broad-leaved plantain	1.4	0.3	20.0	< 0.1	1.8	5.2	0.6
37	Ball mustard	1.2	0.3	23.0	< 0.1	2.8	12.4	0.6
38	Meadow fescue	0.2	0.2	100.0	0.1	32.4	32.4	0.5
39	Yellow toadflax	1.2	0.2	18.0	< 0.1	2.2	4.6	0.5
40	White clover	1.4	0.2	15.0	< 0.1	0.9	3.0	0.5
41	Skeletonweed	0.2	0.1	40.0	0.1	39.2	39.2	0.5
42	Wild mustard	1.4	0.1	6.7	< 0.1	0.3	0.6	0.4
43	Yellow foxtail	0.2	0.2	65.0	0.1	25.6	25.6	0.4
44	Volunteer wheat	0.7	0.2	25.0	< 0.1	3.9	10.8	0.4
45	Yellow sweet-clover	1.0	0.2	17.5	< 0.1	1.4	3.4	0.4
46	Low cudweed	0.7	0.1	18.3	< 0.1	4.5	8.2	0.4
47	Rough cinquefoil	0.7	0.1	16.7	< 0.1	2.1	6.0	0.3
48	Bicknell's geranium	0.7	0.1	20.0	< 0.1	1.1	1.8	0.3
49	Field bindweed	0.5	0.2	32.5	< 0.1	3.3	6.2	0.3
50	Night-flowering catchfly	0.7	0.1	16.7	< 0.1	1.2	2.0	0.3
51	White cockle	1.0	0.1	7.5	< 0.1	0.5	1.2	0.3
52	Scentless chamomile	0.5	0.1	22.5	< 0.1	3.8	6.2	0.3

(Table continued on next page)

Table 7. Spring wheat (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
53	Volunteer oats	0.2	0.1	45.0	< 0.1	12.6	12.6	0.3
54	American dragonhead	0.5	0.1	22.5	< 0.1	1.6	3.0	0.2
55	Scouring-rush	0.2	0.1	55.0	< 0.1	4.8	4.8	0.2
56	Volunteer alfalfa	0.5	0.1	17.5	< 0.1	1.4	2.4	0.2
57	Redtop	0.5	< 0.1	7.5	< 0.1	2.2	4.2	0.2
58	Tall blue lettuce	0.2	0.1	30.0	< 0.1	5.4	5.4	0.2
59	Spiny annual sow-thistle	0.5	< 0.1	10.0	< 0.1	0.4	0.4	0.2
60	Wild tomato	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
61	Toad rush	0.2	< 0.1	10.0	< 0.1	6.0	6.0	0.1
62	Knawel	0.2	< 0.1	20.0	< 0.1	3.4	3.4	0.1
63	Tartary buckwheat	0.2	< 0.1	20.0	< 0.1	2.4	2.4	0.1
64	Cow cockle	0.2	< 0.1	20.0	< 0.1	1.4	1.4	0.1
65	Wild chamomile	0.2	< 0.1	20.0	< 0.1	0.8	0.8	0.1
66	Leafy spurge	0.2	< 0.1	10.0	< 0.1	2.0	2.0	0.1
67	Purslane	0.2	< 0.1	15.0	< 0.1	0.6	0.6	0.1
68	Common yarrow	0.2	< 0.1	10.0	< 0.1	1.2	1.2	0.1
69	Timothy	0.2	< 0.1	10.0	< 0.1	0.8	0.8	0.1
70	Downy brome	0.2	< 0.1	5.0	< 0.1	1.8	1.8	0.1
71	Two-grooved milk-vetch	0.2	< 0.1	10.0	< 0.1	0.6	0.6	0.1
72	Mouse-eared chickweed	0.2	< 0.1	5.0	< 0.1	1.6	1.6	0.1
73	Wood whitlow-grass	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
74	Common pepper-grass	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
75	Narrow-leaved vetch	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
76	Biennial wormwood	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
77	Red clover	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
78	Goat's-beard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
79	Green tansy mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Russian pigweed	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
81	Aspen poplar	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
82	Pasture sage	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
83	Cream-colored vetchling	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
84	Milk-vetch species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
85	Volunteer peas	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 8. Durum

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	11.3	4.6	40.6	7.3	65.2	469.9	66.3
2	Wild oats	43.7	11.0	25.2	2.1	4.7	77.0	57.5
3	Kochia	33.8	6.5	19.2	1.0	2.9	28.0	36.0
4	Russian thistle	22.9	5.8	24.2	0.6	2.6	9.6	27.0
5	Canada thistle	21.1	4.4	20.7	0.6	3.0	12.4	23.2
6	Wild buckwheat	20.1	4.2	19.8	0.3	1.6	9.0	20.3
7	Redroot pigweed	15.5	3.8	24.5	0.4	2.8	12.4	18.1
8	Lamb's-quarters	7.4	1.3	15.4	0.5	5.9	33.5	9.6
9	Stinkweed	8.5	1.1	13.3	0.2	2.2	7.4	7.6
10	Volunteer chickpea	1.4	0.6	40.0	0.6	39.2	39.2	5.7
11	Dandelion	1.4	1.3	95.0	0.3	19.0	19.0	5.3
12	Perennial sow-thistle	5.3	0.6	10.6	< 0.1	0.5	1.0	3.9
13	Downy brome	4.2	0.6	13.3	< 0.1	0.9	1.4	3.4
14	Flixweed	4.2	0.5	10.8	< 0.1	0.9	2.3	3.2
15	Foxtail barley	4.2	0.4	8.3	< 0.1	0.8	2.0	2.9
16	Cow cockle	2.8	0.4	15.0	< 0.1	1.0	1.8	2.4
17	Volunteer wheat	1.4	0.4	25.0	< 0.1	2.4	2.4	1.6
18	Rose species	1.4	0.4	25.0	< 0.1	2.0	2.0	1.6
19	Quack grass	1.4	0.1	5.0	0.1	4.3	4.3	1.2
20	Volunteer canola	1.4	0.1	5.0	< 0.1	0.4	0.4	0.8
21	Narrow-leaved hawk's-beard	1.4	0.1	5.0	< 0.1	0.2	0.2	0.8
22	Round-leaved mallow	1.4	0.1	5.0	< 0.1	0.2	0.2	0.8
23	Gray tansy mustard	1.4	0.1	5.0	< 0.1	0.2	0.2	0.8

Table 9. Barley

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Chickweed	26.6	13.6	51.0	13.1	49.1	1727.2	45.0
2	Wild oats	53.6	20.3	37.9	6.0	11.3	379.6	38.4
3	Wild buckwheat	54.2	19.9	36.8	3.2	5.8	175.0	31.6
4	Canada thistle	40.7	9.9	24.3	1.2	2.9	24.2	17.5
5	Lamb's-quarters	22.3	6.2	27.6	1.9	8.6	268.8	13.1
6	Cleavers	18.1	7.0	38.7	2.0	10.8	108.4	12.9
7	Stinkweed	27.5	7.0	25.4	0.9	3.1	37.4	12.2
8	Annual sow-thistle	12.6	4.9	38.9	2.1	16.4	275.2	10.6
9	Hemp-nettle	21.8	5.6	25.8	0.9	4.0	56.0	10.1
10	Green foxtail	10.9	3.4	31.6	2.1	19.0	222.0	9.3
11	Quack grass	18.9	4.2	22.1	1.1	5.9	63.2	9.2
12	Dandelion	21.5	4.6	21.3	0.5	2.3	32.0	8.5
13	Pale smartweed	13.8	3.6	26.1	1.1	7.8	145.2	7.6
14	Shepherd's-purse	14.3	3.7	25.6	0.4	3.0	25.0	6.3
15	Volunteer canola	12.9	3.3	25.6	0.6	4.5	86.4	6.1
16	Perennial sow-thistle	14.0	2.6	18.3	0.2	1.6	10.0	5.0
17	Volunteer wheat	10.9	2.8	25.9	0.3	3.0	25.4	4.8
18	Narrow-leaved hawk's-beard	12.9	2.3	18.0	0.3	2.1	18.4	4.7
19	Kochia	7.7	2.0	26.1	0.7	9.2	145.0	4.6
20	Field horsetail	8.6	2.5	28.7	0.4	4.8	26.0	4.3
21	Common groundsel	8.0	1.5	19.1	0.4	4.6	62.0	3.5
22	Redroot pigweed	9.2	1.6	17.9	0.2	2.3	30.2	3.4
23	Pineappleweed	5.7	1.1	20.0	0.3	5.5	37.6	2.6
24	Russian thistle	4.0	1.5	37.4	0.3	6.8	40.0	2.4
25	White clover	2.3	1.2	50.6	0.5	21.5	96.6	2.4
26	Volunteer alfalfa	2.0	0.9	47.1	0.4	18.7	78.4	1.9
27	Wild mustard	3.7	1.0	25.8	0.1	3.4	30.0	1.7
28	Flixweed	3.7	0.6	15.8	0.1	3.6	37.6	1.5
29	Foxtail barley	4.3	0.6	14.0	0.1	1.4	6.8	1.4
30	Stork's-bill	3.2	0.6	20.5	0.1	2.2	14.6	1.2
31	Low cudweed	0.6	0.3	55.0	0.3	61.0	121.2	1.1
32	Round-leaved mallow	3.2	0.6	17.7	< 0.1	1.4	4.4	1.1
33	Corn spurry	1.7	0.7	40.0	0.1	6.6	19.6	1.1
34	Bluebur	2.9	0.5	16.5	< 0.1	1.3	5.0	1.0
35	Rose species	2.9	0.3	12.0	< 0.1	1.3	5.6	0.9
36	Cow cockle	1.7	0.4	25.8	< 0.1	2.9	8.0	0.8
37	Yellow sweet-clover	1.4	0.4	29.0	0.1	5.6	16.8	0.8
38	White cockle	2.3	0.3	14.4	< 0.1	1.3	6.2	0.7
39	Prostrate knotweed	0.6	0.3	50.0	0.2	28.3	55.8	0.7
40	Broad-leaved plantain	2.0	0.3	15.0	< 0.1	1.3	5.8	0.7
41	Spiny annual sow-thistle	0.6	0.3	57.5	0.1	16.2	29.0	0.6
42	Biennial wormwood	0.6	0.2	40.0	0.1	14.1	26.6	0.5
43	Night-flowering catchfly	0.9	0.3	31.7	< 0.1	4.5	10.0	0.4
44	Downy brome	0.6	0.2	37.5	0.1	10.9	21.0	0.4
45	Scentless chamomile	1.4	0.1	10.0	< 0.1	0.7	1.6	0.4
46	Thyme-leaved spurge	0.3	0.2	75.0	0.1	22.8	22.8	0.4
47	Barnyard grass	0.3	0.1	40.0	0.1	27.4	27.4	0.3
48	Persian darnel	0.3	0.2	60.0	0.1	20.4	20.4	0.3
49	Field bindweed	1.1	0.1	7.5	< 0.1	0.3	0.4	0.3
50	Yellow toadflax	0.9	0.1	11.7	< 0.1	1.3	3.0	0.3
51	Volunteer peas	0.6	0.2	27.5	< 0.1	3.1	6.0	0.3
52	Aspen poplar	0.6	0.1	20.0	< 0.1	4.0	7.6	0.2

(Table continued on next page)

Table 9. Barley (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
53	Prostrate pigweed	0.6	0.1	22.5	< 0.1	1.5	2.8	0.2
54	Tartary buckwheat	0.3	0.2	60.0	< 0.1	6.2	6.2	0.2
55	Mouse-eared chickweed	0.6	0.1	17.5	< 0.1	1.5	2.8	0.2
56	Meadow brome	0.6	< 0.1	7.5	< 0.1	1.1	1.2	0.2
57	Volunteer barley	0.3	0.1	40.0	< 0.1	2.2	2.2	0.1
58	Alsike clover	0.6	< 0.1	5.0	< 0.1	0.4	0.6	0.1
59	Goat's-beard	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
60	Henbit	0.3	0.1	25.0	< 0.1	3.4	3.4	0.1
61	Wild radish	0.3	< 0.1	15.0	< 0.1	1.4	1.4	0.1
62	Smooth brome	0.3	< 0.1	15.0	< 0.1	1.2	1.2	0.1
63	Meadow fescue	0.3	< 0.1	15.0	< 0.1	0.8	0.8	0.1
64	Wild tomato	0.3	< 0.1	15.0	< 0.1	0.6	0.6	0.1
65	American dragonhead	0.3	< 0.1	10.0	< 0.1	1.2	1.2	0.1
66	Showy milkweed	0.3	< 0.1	10.0	< 0.1	0.8	0.8	0.1
67	Narrow-leaved vetch	0.3	< 0.1	10.0	< 0.1	0.6	0.6	0.1
68	Wild chamomile	0.3	< 0.1	5.0	< 0.1	2.0	2.0	0.1
69	Ball mustard	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
70	Slender wheat grass	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
71	Field mint	0.3	< 0.1	5.0	< 0.1	0.8	0.8	0.1
72	Tall buttercup	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
73	Rough cinquefoil	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
74	Bicknell's geranium	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
75	Striate knotweed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
76	Prickly lettuce	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
77	Two-grooved milk-vetch	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
78	Redtop	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
79	Wood whitlow-grass	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Volunteer white mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
81	Volunteer oats	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 10. Oats

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild buckwheat	69.8	35.9	51.4	10.3	14.8	112.2	43.6
2	Chickweed	29.1	15.8	54.2	7.4	25.3	150.8	23.6
3	Green foxtail	27.9	10.6	37.8	6.3	22.4	271.2	19.3
4	Stinkweed	37.2	14.7	39.5	3.7	10.0	134.6	18.4
5	Lamb's-quarters	39.5	14.4	36.4	3.3	8.3	118.2	17.8
6	Wild oats	30.2	12.4	41.1	3.5	11.6	77.4	15.9
7	Hemp-nettle	26.7	11.6	43.3	3.0	11.3	75.4	14.2
8	Dandelion	31.4	12.0	38.2	1.8	5.6	42.4	13.0
9	Canada thistle	39.5	8.7	21.9	1.0	2.5	14.6	11.5
10	Quack grass	22.1	6.6	30.0	2.4	10.7	114.0	10.2
11	Volunteer barley	17.4	7.7	44.3	2.0	11.6	71.4	9.4
12	Field horsetail	18.6	8.3	44.4	1.6	8.6	17.0	9.1
13	Pale smartweed	21.2	6.9	31.4	1.1	4.8	20.6	8.1
14	Volunteer canola	14.0	6.0	42.9	1.0	7.0	32.2	6.4
15	Corn spurry	4.7	3.4	73.8	2.4	51.4	182.4	6.2
16	Narrow-leaved hawk's-beard	19.8	3.7	18.8	0.8	4.1	54.0	6.0
17	Cleavers	15.1	5.1	33.5	0.7	4.4	25.4	5.6
18	Shepherd's-purse	15.1	4.1	27.3	0.8	5.6	41.4	5.5
19	Redroot pigweed	9.3	3.8	41.3	0.9	9.6	54.2	4.6
20	Volunteer wheat	11.6	2.6	22.0	0.5	3.9	21.4	3.7
21	Pineappleweed	9.3	2.5	26.9	0.6	6.1	35.6	3.5
22	Russian thistle	9.3	2.8	30.0	0.3	3.4	13.8	3.2
23	Perennial sow-thistle	11.6	2.0	17.3	0.2	1.8	6.8	3.0
24	Volunteer alfalfa	4.7	2.6	56.3	0.5	10.1	27.2	2.6
25	White clover	4.7	2.3	50.0	0.5	10.3	24.0	2.5
26	Rose species	11.9	1.1	8.3	0.1	0.8	3.6	2.5
27	Kochia	7.0	1.3	19.2	0.4	5.5	24.2	2.3
28	Flixweed	5.8	1.8	31.0	0.3	5.8	19.4	2.2
29	Common groundsel	5.8	1.5	26.0	0.2	3.7	12.4	1.9
30	Stork's-bill	4.7	1.5	32.5	0.3	7.0	23.8	1.9
31	Bluebur	6.7	1.4	19.8	0.1	1.3	5.0	1.8
32	Broad-leaved plantain	4.7	1.5	32.5	0.2	4.4	14.4	1.7
33	Rough cinquefoil	2.3	1.3	57.5	0.5	19.6	38.6	1.7
34	Round-leaved mallow	4.7	1.6	35.0	0.2	3.4	9.6	1.7
35	Annual sow-thistle	5.8	1.4	24.0	0.1	1.4	3.4	1.6
36	Knawel	3.5	1.3	36.7	0.3	8.3	22.4	1.6
37	Alsike clover	3.5	1.0	28.3	0.1	2.0	3.0	1.1
38	Vetch species	3.5	0.9	25.0	0.1	2.7	5.4	1.1
39	Yellow sweet-clover	1.2	1.2	100.0	0.2	16.6	16.6	1.0
40	Cow cockle	3.5	0.7	20.0	< 0.1	1.1	1.2	0.9
41	Volunteer flax	1.2	0.6	50.0	0.2	14.0	14.0	0.7
42	White cockle	3.5	0.3	8.3	< 0.1	0.5	0.8	0.7
43	Fireweed	2.3	0.6	25.0	< 0.1	1.8	3.4	0.7
44	Western marsh cudweed	1.2	0.3	25.0	0.2	17.2	17.2	0.6
45	Common yarrow	2.3	0.3	12.5	< 0.1	0.6	0.8	0.5
46	Night-flowering catchfly	1.2	0.4	35.0	< 0.1	3.6	3.6	0.4
47	Foxtail barley	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4
48	Russian pigweed	1.2	0.3	30.0	< 0.1	2.4	2.4	0.4
49	Low cudweed	1.2	0.1	10.0	0.1	6.2	6.2	0.4
50	Scentless chamomile	1.2	0.2	15.0	< 0.1	1.0	1.0	0.3
51	Redtop	1.2	0.2	15.0	< 0.1	1.0	1.0	0.3
52	Volunteer fall rye	1.2	0.1	10.0	< 0.1	2.2	2.2	0.3

(Table continued on next page)

Table 10. Oats (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Two-grooved milk-vetch	1.2	0.2	15.0	< 0.1	0.6	0.6	0.3
54	Red clover	1.2	0.1	10.0	< 0.1	1.0	1.0	0.3
55	Prostrate knotweed	1.2	0.1	10.0	< 0.1	0.6	0.6	0.2
56	Prostrate pigweed	1.2	0.1	10.0	< 0.1	0.4	0.4	0.2
57	Blue lettuce	1.2	0.1	8.8	< 0.1	0.6	0.6	0.2
58	Common pepper-grass	1.2	0.1	7.5	< 0.1	0.7	0.7	0.2
59	Sulfur cinquefoil	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
60	Dog mustard	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
61	Cream-colored vetchling	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2

Table 11. Canola

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild buckwheat	61.9	23.9	38.5	4.0	6.4	97.8	34.0
2	Wild oats	45.1	19.5	43.2	4.6	10.1	201.2	30.5
3	Stinkweed	48.6	15.7	32.3	3.0	6.3	75.0	24.8
4	Chickweed	28.8	13.3	46.1	3.9	13.6	136.8	22.7
5	Canada thistle	46.9	11.4	24.3	1.0	2.1	12.6	16.5
6	Cleavers	28.8	10.8	37.5	1.9	6.7	51.0	15.9
7	Lamb's-quarters	39.0	9.9	25.4	1.0	2.5	24.4	14.3
8	Field horsetail	24.3	8.7	35.8	2.0	8.3	49.8	14.2
9	Shepherd's-purse	27.1	8.4	31.0	1.3	4.9	42.4	12.6
10	Volunteer wheat	20.3	7.6	37.4	1.6	7.9	128.2	11.9
11	Hemp-nettle	21.5	5.6	26.3	1.7	7.9	199.2	11.2
12	Pale smartweed	19.8	5.3	26.6	1.3	6.5	93.2	9.6
13	Narrow-leaved hawk's-beard	16.9	4.3	25.5	1.5	8.6	137.2	9.1
14	Quack grass	17.5	4.6	26.3	0.8	4.3	44.6	7.4
15	Perennial sow-thistle	22.6	3.8	17.0	0.3	1.1	5.6	6.4
16	Dandelion	23.7	3.5	14.7	0.2	0.9	3.8	6.3
17	Annual sow-thistle	7.3	3.9	53.5	1.1	14.5	48.0	6.3
18	Pineappleweed	10.7	3.0	27.9	0.7	6.2	32.0	5.2
19	Alsike clover	6.2	2.7	43.2	0.8	12.8	70.4	4.7
20	Common groundsel	12.4	2.9	23.6	0.2	1.9	7.2	4.2
21	Green foxtail	9.5	1.9	19.3	0.5	5.0	40.0	3.9
22	Volunteer barley	6.8	2.0	30.0	0.4	5.8	42.6	3.3
23	Bluebur	6.8	1.0	15.0	0.1	1.5	9.6	1.9
24	Kochia	5.5	1.1	20.1	0.1	1.9	8.8	1.8
25	Ball mustard	2.8	0.8	30.0	0.2	7.2	28.8	1.5
26	Redroot pigweed	4.5	0.6	12.5	0.1	2.6	15.4	1.4
27	Prostrate pigweed	2.3	1.0	46.3	0.2	6.9	15.6	1.4
28	Prostrate knotweed	3.2	0.9	27.3	0.1	2.0	4.8	1.2
29	Rough cinquefoil	1.7	0.6	38.3	0.2	11.3	30.0	1.2
30	White clover	3.4	0.6	17.5	0.1	2.2	9.2	1.1
31	Volunteer alfalfa	1.1	0.6	52.5	0.2	18.0	35.8	1.1
32	Corn spurry	1.7	0.7	43.3	0.1	5.8	11.4	0.9
33	Flixweed	2.3	0.7	31.3	0.1	2.4	5.4	0.9
34	Round-leaved mallow	2.8	0.6	20.0	< 0.1	1.2	4.2	0.9
35	Volunteer oats	0.6	0.6	100.0	0.1	22.0	22.0	0.7
36	Stork's-bill	3.4	0.3	7.5	< 0.1	0.4	1.0	0.7
37	Broad-leaved plantain	2.8	0.2	7.0	< 0.1	0.5	1.6	0.6
38	Russian thistle	1.7	0.3	19.2	< 0.1	2.2	6.0	0.5
39	Thyme-leaved spurge	1.7	0.4	21.7	< 0.1	1.2	2.2	0.5
40	American dragonhead	2.3	0.2	10.0	< 0.1	0.6	1.0	0.5
41	Spiny annual sow-thistle	2.3	0.2	10.0	< 0.1	0.6	1.2	0.5
42	Rose species	1.7	0.2	11.7	< 0.1	1.8	4.6	0.5
43	Wild mustard	2.3	0.1	6.3	< 0.1	0.3	0.4	0.5
44	Volunteer canola	1.7	0.2	10.0	< 0.1	0.9	2.0	0.4
45	Common pepper-grass	1.6	0.2	12.9	< 0.1	0.7	1.0	0.4
46	Foxtail barley	1.1	0.3	22.5	< 0.1	2.5	3.6	0.4
47	Yellow toadflax	1.1	0.1	10.0	< 0.1	1.3	1.6	0.3
48	Wild chamomile	0.6	0.2	35.0	< 0.1	4.4	4.4	0.3
49	Biennial wormwood	1.1	0.1	10.0	< 0.1	0.4	0.6	0.3
50	Low cudweed	1.1	0.1	7.5	< 0.1	0.7	0.8	0.2
51	Spear-leaved goosefoot	0.6	0.1	15.0	< 0.1	6.6	6.6	0.2
52	Wild tomato	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2

(Table continued on next page)

Table 11. Canola (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Pygmyflower	0.6	0.1	15.0	< 0.1	4.6	4.6	0.2
54	Tall fescue	0.6	0.1	10.0	< 0.1	1.8	1.8	0.1
55	Aspen poplar	0.6	0.1	15.0	< 0.1	0.6	0.6	0.1
56	Common yarrow	0.6	0.1	15.0	< 0.1	0.6	0.6	0.1
57	Pasture sage	0.6	0.1	10.0	< 0.1	0.8	0.8	0.1
58	Curled dock	0.6	0.1	10.0	< 0.1	0.6	0.6	0.1
59	Tansy	0.6	0.1	10.0	< 0.1	0.4	0.4	0.1
60	Dog mustard	0.6	< 0.1	5.0	< 0.1	1.0	1.0	0.1
61	Scentless chamomile	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
62	Cow cockle	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
63	Fireweed	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
64	Two-grooved milk-vetch	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Showy milkweed	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Wild radish	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Narrow-leaved vetch	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
68	Wood whitlow-grass	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Milk-vetch species	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 12. Field pea

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	65.0	27.1	41.7	6.9	10.6	50.6	31.9
2	Stinkweed	40.0	15.6	39.1	9.5	23.8	203.2	28.6
3	Wild buckwheat	60.0	21.6	36.0	3.3	5.5	31.4	22.4
4	Narrow-leaved hawk's-beard	42.5	13.5	31.8	3.3	7.8	55.6	16.9
5	Canada thistle	55.0	13.8	25.0	2.0	3.7	29.4	16.3
6	Pineappleweed	17.5	8.0	45.7	5.8	33.1	172.4	15.9
7	Volunteer canola	50.0	13.5	27.0	1.7	3.4	17.2	15.0
8	Shepherd's-purse	30.0	8.6	28.8	3.5	11.5	90.4	13.6
9	Volunteer wheat	27.5	12.0	43.6	2.1	7.8	27.6	12.3
10	Perennial sow-thistle	45.0	11.1	24.7	1.1	2.5	11.6	12.3
11	Dandelion	37.5	7.9	21.0	1.0	2.7	21.4	9.8
12	Pale smartweed	17.5	7.0	40.0	1.9	10.9	53.4	8.5
13	Lamb's-quarters	32.5	6.8	20.8	0.8	2.5	17.0	8.3
14	Chickweed	17.5	5.4	30.7	1.4	8.0	31.2	6.9
15	Cleavers	17.5	5.5	31.4	1.1	6.0	13.2	6.4
16	Volunteer barley	12.5	6.1	49.0	0.9	7.0	13.2	5.7
17	Spiny annual sow-thistle	5.0	2.4	47.5	2.1	41.9	83.6	5.4
18	Stork's-bill	12.5	5.4	43.0	0.4	3.1	8.8	4.5
19	Quack grass	17.5	3.9	22.1	0.4	2.2	7.4	4.5
20	Hemp-nettle	20.0	3.0	15.0	0.4	1.8	8.8	4.4
21	Common groundsel	20.0	3.3	16.3	0.2	1.2	4.6	4.3
22	Annual sow-thistle	10.0	3.4	33.8	0.4	3.9	13.0	3.4
23	Field horsetail	10.0	2.8	27.5	0.5	5.2	11.4	3.3
24	Night-flowering catchfly	2.5	1.8	70.0	0.8	31.6	31.6	2.5
25	Low cudweed	7.5	1.6	21.7	0.4	5.9	15.0	2.4
26	Foxtail barley	7.5	1.0	13.3	0.5	6.9	19.8	2.3
27	Green foxtail	10.0	1.8	17.5	0.2	1.6	3.0	2.3
28	Volunteer flax	2.5	1.9	75.0	0.6	25.2	25.2	2.2
29	Russian thistle	7.5	1.8	23.3	0.2	3.0	7.4	2.1
30	Rough cinquefoil	5.0	1.8	35.0	0.4	7.8	15.0	2.1
31	Broad-leaved plantain	7.5	1.5	20.0	0.2	2.7	7.4	1.9
32	Wild mustard	10.0	1.3	12.5	0.1	0.6	0.8	1.9
33	Alsike clover	5.0	1.8	35.0	0.2	4.8	6.8	1.8
34	Redroot pigweed	7.5	1.0	13.3	0.1	0.9	1.4	1.5
35	Yellow sweet-clover	2.5	1.8	70.0	0.2	9.2	9.2	1.5
36	Scentless chamomile	2.5	1.3	50.0	0.2	9.6	9.6	1.3
37	Flixweed	5.0	1.0	20.0	0.1	2.0	2.4	1.2
38	Ground-ivy	5.0	0.5	10.0	0.2	3.8	7.4	1.2
39	Yellow toadflax	5.0	0.8	15.0	0.1	2.5	4.4	1.2
40	Biennial wormwood	5.0	0.8	15.0	0.1	1.0	1.2	1.0
41	American dragonhead	5.0	0.8	15.0	< 0.1	0.6	1.0	1.0
42	Prostrate knotweed	2.5	1.1	45.0	0.1	4.0	4.0	1.0
43	Bluebur	5.0	0.6	12.5	< 0.1	0.7	0.8	0.9
44	Round-leaved mallow	5.0	0.4	7.5	< 0.1	0.5	0.8	0.8
45	White clover	2.5	0.8	30.0	< 0.1	1.2	1.2	0.7
46	Bicknell's geranium	2.5	0.5	20.0	< 0.1	0.8	0.8	0.6
47	Absinth	2.5	0.3	10.0	0.1	2.0	2.0	0.5
48	Narrow-leaved vetch	2.5	0.4	15.0	< 0.1	0.6	0.6	0.5
49	Pasture sage	2.5	0.3	10.0	< 0.1	1.0	1.0	0.5
50	Common yarrow	2.5	0.3	10.0	< 0.1	0.8	0.8	0.5
51	Kochia	2.5	0.3	10.0	< 0.1	0.6	0.6	0.4
52	Thyme-leaved spurge	2.5	0.3	10.0	< 0.1	0.6	0.6	0.4

(Table continued on next page)

Table 12. Field pea (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Small-seeded false flax	2.5	0.1	5.0	< 0.1	0.8	0.8	0.4
54	Aspen poplar	2.5	0.1	5.0	< 0.1	0.4	0.4	0.4
55	Goat's-beard	2.5	0.1	5.0	< 0.1	0.2	0.2	0.4
56	Wild tomato	2.5	0.1	5.0	< 0.1	0.2	0.2	0.4

Table 13. Number of fields surveyed, density, species richness and weed-free quadrats in the surveyed ecoregions

Ecoregion	Number of Fields surveyed	Density (number/m ²)	Species (number/field)	Weed-free Quadrats (%)
Peace Lowland	173	53.4	7	18.6
Boreal Transition	116	49.4	6	19.4
Aspen Parkland	418	45.3	6	19.5
Moist Mixed Grassland	230	20.0	3	53.7
Fescue Grassland	76	19.5	4	46.6
Mixed Grassland	140	11.5	2	59.5

Table 14. Number of fields surveyed for each crop in each ecoregion

Ecoregion	Spring wheat	Durum	Barley	Oat	Canola	Field pea	Mixed crops
Peace Lowland	70	0	33	17	44	7	2
Boreal Transition	31	0	49	15	19	2	0
Aspen Parkland	130	0	137	31	91	20	9
Moist Mixed Grassland	89	27	75	13	19	6	1
Fescue Grassland	31	1	40	1	3	0	0
Mixed Grassland	67	43	15	9	1	5	0

Table 15. All fields in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Field horsetail	57.8	22.4	38.8	5.4	9.3	76.8	28.3
2	Wild buckwheat	64.7	23.7	36.6	4.2	6.5	61.0	27.6
3	Stinkweed	49.1	19.3	39.3	5.2	10.6	104.2	25.4
4	Cleavers	45.1	17.8	39.4	4.8	10.6	180.8	23.3
5	Hemp-nettle	37.6	13.0	34.7	4.6	12.2	199.2	19.8
6	Chickweed	25.4	10.7	42.2	5.1	20.0	238.6	18.0
7	Narrow-leaved hawk's-beard	37.6	9.8	26.2	3.1	8.3	137.2	15.5
8	Dandelion	46.2	12.7	27.5	1.5	3.3	42.4	15.0
9	Wild oats	35.8	10.7	29.8	2.2	6.0	64.0	13.9
10	Pineappleweed	23.7	7.3	30.6	2.7	11.4	172.4	11.7
11	Canada thistle	37.6	7.7	20.6	1.2	3.1	41.6	10.9
12	Lamb's-quarters	27.2	7.7	28.2	1.3	4.6	75.4	9.6
13	Common groundsel	19.1	5.5	28.8	1.0	5.4	37.6	7.1
14	Volunteer canola	20.8	5.5	26.4	0.9	4.2	32.2	7.0
15	Perennial sow-thistle	20.8	4.7	22.5	0.8	3.9	64.8	6.5
16	Pale smartweed	23.1	4.7	20.3	0.6	2.7	14.6	6.5
17	Bluebur	15.6	3.2	20.6	1.2	7.5	112.0	5.8
18	Alsike clover	13.3	4.4	33.0	1.0	7.3	70.4	5.7
19	Volunteer wheat	12.1	3.0	25.0	1.1	9.3	128.2	5.2
20	Shepherd's-purse	13.9	3.5	25.0	0.6	4.5	41.4	4.7
21	Quack grass	9.8	1.4	13.8	0.7	7.5	63.2	3.4
22	Broad-leaved plantain	9.8	2.0	20.6	0.2	2.5	14.4	2.7
23	Corn spurry	3.5	1.2	35.0	0.8	21.9	118.2	2.5
24	Prostrate pigweed	5.2	2.3	43.3	0.2	4.5	15.6	2.2
25	Volunteer barley	4.6	1.6	34.4	0.4	9.1	41.0	2.2
26	Rough cinquefoil	5.2	1.2	23.9	0.3	5.5	30.0	1.8
27	Low cudweed	5.8	0.9	16.0	0.2	4.0	15.0	1.6
28	Stork's-bill	2.3	0.9	38.8	0.3	14.3	52.2	1.4
29	Biennial wormwood	4.0	0.8	20.0	0.2	4.5	26.6	1.3
30	Yellow sweet-clover	3.5	0.9	25.8	0.1	2.6	9.2	1.1
31	American dragonhead	4.0	0.5	12.9	< 0.1	0.9	3.0	0.9
32	Volunteer alfalfa	1.7	0.7	38.3	0.2	9.4	27.2	0.9
33	Rose species	4.6	0.3	7.5	< 0.1	0.6	1.4	0.8
34	Meadow fescue	1.2	0.7	57.5	0.2	16.6	32.4	0.8
35	Bicknell's geranium	2.9	0.5	17.0	< 0.1	0.8	1.8	0.7
36	Foxtail barley	2.9	0.4	14.0	< 0.1	1.2	3.4	0.6
37	Common yarrow	2.9	0.3	12.0	< 0.1	0.8	1.2	0.6
38	Prostrate knotweed	2.3	0.3	15.0	< 0.1	1.9	6.4	0.6
39	Spiny annual sow-thistle	2.9	0.3	10.0	< 0.1	0.5	1.2	0.6
40	Yellow toadflax	1.7	0.4	21.7	< 0.1	2.2	4.4	0.5
41	Redtop	2.3	0.2	8.8	< 0.1	1.4	4.2	0.5
42	Fireweed	1.7	0.3	18.3	< 0.1	1.3	3.4	0.4
43	Field bindweed	1.2	0.4	32.5	< 0.1	3.2	6.2	0.4
44	Mouse-eared chickweed	1.7	0.2	13.3	< 0.1	1.5	2.8	0.4
45	Western marsh cudweed	0.6	0.1	25.0	0.1	17.2	17.2	0.3
46	Round-leaved mallow	1.7	0.1	8.3	< 0.1	0.3	0.6	0.3
47	Volunteer peas	0.6	0.3	50.0	< 0.1	6.0	6.0	0.3
48	Redroot pigweed	1.2	0.2	15.0	< 0.1	1.5	2.8	0.3
49	Common pepper-grass	1.2	0.1	12.5	< 0.1	0.6	0.8	0.2
50	Wild radish	1.2	0.1	10.0	< 0.1	0.8	1.4	0.2
51	Two-grooved milk-vetch	1.2	0.1	10.0	< 0.1	0.4	0.6	0.2
52	Ball mustard	1.2	0.1	10.0	< 0.1	0.4	0.6	0.2

(Table continued on next page)

Table 15. All fields in the Peace Lowland Ecoregion (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
53	Ground-ivy	0.6	0.1	15.0	< 0.1	7.4	7.4	0.2
54	Cream-colored vetchling	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
55	Milk-vetch species	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
56	Pygmyflower	0.6	0.1	15.0	< 0.1	4.6	4.6	0.2
57	Cow cockle	0.6	0.1	20.0	< 0.1	1.4	1.4	0.1
58	Tall fescue	0.6	0.1	10.0	< 0.1	1.8	1.8	0.1
59	Pasture sage	0.6	0.1	10.0	< 0.1	1.0	1.0	0.1
60	Timothy	0.6	0.1	10.0	< 0.1	0.8	0.8	0.1
61	Slender wheat grass	0.6	0.1	10.0	< 0.1	0.4	0.4	0.1
62	Red clover	0.6	< 0.1	5.0	< 0.1	0.4	0.4	0.1
63	White clover	0.6	< 0.1	5.0	< 0.1	0.4	0.4	0.1
64	Tall buttercup	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Scentless chamomile	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Sulfur cinquefoil	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 16. Spring wheat fields in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	64.3	28.3	44.0	5.3	8.3	59.2	34.0
2	Field horsetail	58.6	18.5	31.6	5.2	8.9	76.8	28.1
3	Cleavers	42.9	17.6	41.0	4.9	11.4	180.8	24.6
4	Stinkweed	44.3	16.6	37.6	5.0	11.2	104.2	24.5
5	Hemp-nettle	40.0	15.4	38.4	5.1	12.7	90.8	23.4
6	Chickweed	18.6	7.4	39.6	6.8	36.6	238.6	19.5
7	Wild oats	31.4	11.9	37.7	2.1	6.7	46.8	14.7
8	Canada thistle	38.6	10.6	27.6	1.8	4.5	41.6	14.5
9	Dandelion	44.3	10.8	24.4	1.0	2.2	14.8	13.9
10	Narrow-leaved hawk's-beard	32.9	6.2	18.9	1.6	4.9	78.8	11.2
11	Perennial sow-thistle	22.9	6.8	29.7	1.6	7.0	64.8	9.9
12	Volunteer canola	32.9	6.9	21.1	0.7	2.3	11.4	9.8
13	Bluebur	15.7	4.5	28.6	2.6	16.7	112.0	9.7
14	Common groundsel	17.1	5.5	32.1	1.3	7.6	37.6	7.8
15	Pineappleweed	15.7	4.8	30.5	1.2	7.7	51.4	7.1
16	Lamb's-quarters	17.1	5.1	29.6	0.7	4.4	25.2	6.5
17	Pale smartweed	21.4	4.3	20.0	0.5	2.3	10.4	6.3
18	Corn spurry	5.7	2.1	36.3	1.8	31.4	118.2	5.3
19	Alsike clover	8.6	1.8	20.8	0.1	1.7	4.6	2.5
20	Broad-leaved plantain	8.6	1.7	20.0	0.2	1.8	5.2	2.4
21	Stork's-bill	1.4	1.4	100.0	0.7	52.2	52.2	2.4
22	Prostrate pigweed	4.3	2.2	51.7	0.1	3.4	4.8	2.0
23	Shepherd's-purse	7.1	1.1	16.0	0.1	1.7	5.2	1.9
24	Meadow fescue	1.4	1.4	100.0	0.5	32.4	32.4	1.8
25	Quack grass	8.6	0.6	6.7	0.1	1.1	3.4	1.8
26	Low cudweed	4.3	0.8	18.3	0.2	4.5	8.2	1.4
27	Yellow sweet-clover	4.3	0.9	21.7	0.1	1.7	3.4	1.3
28	Bicknell's geranium	4.3	0.9	20.0	< 0.1	1.1	1.8	1.2
29	Yellow toadflax	2.9	0.7	25.0	0.1	2.8	4.4	0.9
30	Prostrate knotweed	2.9	0.6	22.5	0.1	3.4	6.4	0.9
31	American dragonhead	2.9	0.6	22.5	< 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	2.9	0.2	7.5	0.1	2.2	4.2	0.7
34	Ball mustard	2.9	0.3	10.0	< 0.1	0.4	0.6	0.6
35	Rose species	2.9	0.1	5.0	< 0.1	0.4	0.4	0.5
36	Rough cinquefoil	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5
37	Redroot pigweed	1.4	0.4	25.0	< 0.1	2.8	2.8	0.5
38	Cow cockle	1.4	0.3	20.0	< 0.1	1.4	1.4	0.4
39	Common yarrow	1.4	0.1	10.0	< 0.1	1.2	1.2	0.3
40	Timothy	1.4	0.1	10.0	< 0.1	0.8	0.8	0.3
41	Spiny annual sow-thistle	1.4	0.1	10.0	< 0.1	0.4	0.4	0.3
42	Volunteer barley	1.4	0.1	10.0	< 0.1	0.4	0.4	0.3
43	Mouse-eared chickweed	1.4	0.1	5.0	< 0.1	1.6	1.6	0.3
44	Common pepper-grass	1.4	0.1	5.0	< 0.1	0.4	0.4	0.3
45	Biennial wormwood	1.4	0.1	5.0	< 0.1	0.4	0.4	0.3
46	Volunteer alfalfa	1.4	0.1	5.0	< 0.1	0.4	0.4	0.3
47	Red clover	1.4	0.1	5.0	< 0.1	0.4	0.4	0.3
48	White clover	1.4	0.1	5.0	< 0.1	0.4	0.4	0.3
49	Volunteer wheat	1.4	0.1	5.0	< 0.1	0.4	0.4	0.3
50	Round-leaved mallow	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3
51	Cream-colored vetchling	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3
52	Milk-vetch species	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3

Table 17. Barley fields in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Cleavers	48.5	20.8	42.8	7.6	15.6	108.4	35.2
2	Wild buckwheat	63.6	20.2	31.7	2.4	3.8	16.8	25.2
3	Field horsetail	48.5	19.4	40.0	3.5	7.3	26.0	25.1
4	Stinkweed	48.5	16.5	34.1	2.8	5.9	37.4	22.1
5	Chickweed	27.3	11.1	40.6	4.4	16.0	93.2	19.7
6	Hemp-nettle	36.4	11.4	31.3	3.4	9.4	56.0	19.0
7	Wild oats	51.5	10.9	21.2	1.9	3.6	25.6	17.4
8	Dandelion	42.4	13.9	32.9	1.6	3.9	11.8	17.1
9	Lamb's-quarters	18.2	10.8	59.2	3.4	18.7	75.4	16.0
10	Narrow-leaved hawk's-beard	39.4	7.6	19.2	1.2	3.1	17.6	12.5
11	Pineappleweed	27.3	6.1	22.2	1.9	6.9	37.6	11.4
12	Common groundsel	24.2	6.2	25.6	1.4	5.9	21.4	10.0
13	Pale smartweed	24.2	6.2	25.6	1.0	3.9	13.2	8.9
14	Quack grass	15.2	2.3	15.0	2.0	13.2	63.2	8.0
15	Canada thistle	27.3	4.2	15.6	0.8	2.8	10.2	7.9
16	Volunteer canola	15.2	3.9	26.0	1.1	7.3	21.2	6.8
17	Perennial sow-thistle	15.2	2.7	18.0	0.2	1.5	4.8	4.1
18	Biennial wormwood	6.1	2.4	40.0	0.9	14.1	26.6	4.1
19	Bluebur	12.1	3.2	26.3	0.3	2.5	5.0	4.1
20	Shepherd's-purse	9.1	3.2	35.0	0.4	4.3	10.2	3.9
21	Broad-leaved plantain	9.1	1.4	15.0	0.2	2.1	5.8	2.5
22	Volunteer wheat	9.1	0.6	6.7	< 0.1	0.5	0.8	1.7
23	Volunteer peas	3.0	1.5	50.0	0.2	6.0	6.0	1.6
24	Mouse-eared chickweed	6.1	1.1	17.5	0.1	1.5	2.8	1.6
25	Prostrate pigweed	3.0	1.2	40.0	0.1	2.8	2.8	1.3
26	Stork's-bill	3.0	1.1	35.0	0.1	3.6	3.6	1.2
27	Rose species	6.1	0.5	7.5	< 0.1	0.7	1.0	1.2
28	Foxtail barley	3.0	0.9	30.0	0.1	3.4	3.4	1.1
29	Wild radish	3.0	0.5	15.0	< 0.1	1.4	1.4	0.8
30	Low cudweed	3.0	0.5	15.0	< 0.1	0.8	0.8	0.7
31	Yellow sweet-clover	3.0	0.5	15.0	< 0.1	0.8	0.8	0.7
32	Meadow fescue	3.0	0.5	15.0	< 0.1	0.8	0.8	0.7
33	American dragonhead	3.0	0.3	10.0	< 0.1	1.2	1.2	0.7
34	Volunteer alfalfa	3.0	0.3	10.0	< 0.1	0.6	0.6	0.6
35	Slender wheat grass	3.0	0.3	10.0	< 0.1	0.4	0.4	0.6
36	Alsike clover	3.0	0.2	5.0	< 0.1	0.6	0.6	0.6
37	Field bindweed	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
38	Tall buttercup	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
39	Scentless chamomile	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
40	Rough cinquefoil	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
41	Bicknell's geranium	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
42	Redroot pigweed	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
43	Redtop	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5

Table 18. Oat fields in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	58.8	30.6	52.0	11.2	19.1	66.8	36.4
2	Dandelion	76.5	28.5	37.3	5.1	6.7	42.4	27.7
3	Field horsetail	58.8	28.2	48.0	5.6	9.6	17.0	26.4
4	Stinkweed	47.1	23.8	50.6	5.7	12.2	53.4	23.5
5	Wild buckwheat	52.9	20.6	38.9	2.8	5.2	25.6	18.2
6	Hemp-nettle	41.2	14.1	34.3	3.5	8.4	34.6	15.6
7	Narrow-leaved hawk's-beard	41.2	12.1	29.3	3.7	8.9	54.0	15.2
8	Pineappleweed	41.2	11.5	27.9	2.8	6.7	35.6	13.5
9	Shepherd's-purse	29.4	10.6	36.0	3.3	11.2	41.4	12.7
10	Canada thistle	47.1	8.5	18.1	1.4	3.0	9.8	11.0
11	Cleavers	35.3	10.3	29.2	1.8	5.1	25.4	10.8
12	Wild oats	29.4	8.2	28.0	2.6	8.8	39.2	10.7
13	Volunteer canola	17.6	11.2	63.3	2.8	15.6	32.2	10.6
14	Lamb's-quarters	29.4	8.8	30.0	1.1	3.8	8.2	8.5
15	Common groundsel	17.6	7.1	40.0	1.1	6.1	12.4	6.4
16	Pale smartweed	29.4	5.0	17.0	0.5	1.6	5.6	6.1
17	Volunteer alfalfa	5.9	5.9	100.0	1.6	27.2	27.2	5.4
18	Broad-leaved plantain	11.8	5.9	50.0	0.9	7.7	14.4	5.0
19	Alsike clover	17.6	5.0	28.3	0.4	2.0	3.0	4.5
20	Volunteer barley	11.8	3.8	32.5	0.7	5.9	11.2	3.9
21	Rose species	17.6	1.8	10.0	0.1	0.8	1.4	3.0
22	Western marsh cudweed	5.9	1.5	25.0	1.0	17.2	17.2	2.9
23	Fireweed	11.8	2.9	25.0	0.2	1.8	3.4	2.8
24	Volunteer wheat	17.6	0.9	5.0	0.1	0.3	0.6	2.5
25	Perennial sow-thistle	5.9	2.9	50.0	0.4	6.8	6.8	2.4
26	Common yarrow	11.8	1.5	12.5	0.1	0.6	0.8	2.0
27	Bluebur	11.8	0.9	7.5	< 0.1	0.3	0.4	1.8
28	Low cudweed	5.9	0.6	10.0	0.4	6.2	6.2	1.5
29	Quack grass	5.9	1.2	20.0	0.1	1.2	1.2	1.2
30	Redtop	5.9	0.9	15.0	0.1	1.0	1.0	1.1
31	Rough cinquefoil	5.9	0.9	15.0	< 0.1	0.6	0.6	1.1
32	Two-grooved milk-vetch	5.9	0.9	15.0	< 0.1	0.6	0.6	1.1
33	Prostrate knotweed	5.9	0.6	10.0	< 0.1	0.6	0.6	1.0
34	Prostrate pigweed	5.9	0.6	10.0	< 0.1	0.4	0.4	0.9
35	Foxtail barley	5.9	0.3	5.0	< 0.1	0.2	0.2	0.8
36	Sulfur cinquefoil	5.9	0.3	5.0	< 0.1	0.2	0.2	0.8
37	Cream-colored vetchling	5.9	0.3	5.0	< 0.1	0.2	0.2	0.8

Table 19. Canola fields in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Field horsetail	68.2	30.6	44.8	7.4	10.8	49.8	38.9
2	Stinkweed	50.0	20.0	40.0	6.0	12.0	75.0	28.7
3	Wild buckwheat	65.9	18.8	28.4	3.9	5.9	61.0	25.8
4	Cleavers	50.0	19.8	39.5	4.3	8.6	51.0	25.0
5	Hemp-nettle	31.8	11.1	35.0	5.8	18.1	199.2	21.4
6	Narrow-leaved hawk's-beard	34.1	11.3	33.0	5.4	15.9	137.2	21.1
7	Volunteer wheat	27.3	8.3	30.4	3.7	13.4	128.2	15.1
8	Alsike clover	25.0	10.8	43.2	3.2	12.8	70.4	15.1
9	Lamb's-quarters	47.7	9.4	19.8	0.7	1.4	4.0	12.4
10	Chickweed	27.3	10.3	37.9	1.6	6.0	24.6	12.0
11	Canada thistle	40.9	6.4	15.6	0.6	1.4	4.2	9.7
12	Dandelion	38.6	6.9	17.9	0.5	1.2	3.8	9.5
13	Wild oats	29.5	7.2	24.2	0.9	3.0	13.6	9.3
14	Pineappleweed	20.5	6.5	31.7	1.5	7.2	32.0	8.9
15	Perennial sow-thistle	25.0	3.5	14.1	0.3	1.1	3.2	5.6
16	Pale smartweed	20.5	3.3	16.1	0.4	1.8	5.8	5.1
17	Prostrate pigweed	9.1	4.2	46.3	0.6	6.9	15.6	4.5
18	Shepherd's-purse	15.9	3.1	19.3	0.3	1.9	8.0	4.2
19	Common groundsel	13.6	3.2	23.3	0.3	1.8	6.0	3.9
20	Bluebur	15.9	2.0	12.9	0.1	0.7	2.4	3.4
21	Rough cinquefoil	4.5	2.5	55.0	0.7	16.4	30.0	3.3
22	Quack grass	6.8	1.1	16.7	0.4	6.2	18.0	2.3
23	Corn spurry	4.5	1.5	32.5	0.1	3.0	4.8	1.6
24	Spiny annual sow-thistle	6.8	0.8	11.7	< 0.1	0.7	1.2	1.4
25	American dragonhead	6.8	0.7	10.0	< 0.1	0.7	1.0	1.3
26	Broad-leaved plantain	6.8	0.6	8.3	0.1	0.7	1.6	1.3
27	Round-leaved mallow	4.5	0.5	10.0	< 0.1	0.4	0.6	0.9
28	Low cudweed	4.5	0.3	7.5	< 0.1	0.7	0.8	0.8
29	Volunteer barley	4.5	0.2	5.0	< 0.1	0.5	0.8	0.8
30	Pygmyflower	2.3	0.3	15.0	0.1	4.6	4.6	0.7
31	Foxtail barley	2.3	0.5	20.0	< 0.1	1.4	1.4	0.6
32	Common pepper-grass	2.3	0.5	20.0	< 0.1	0.8	0.8	0.6
33	Yellow toadflax	2.3	0.3	15.0	< 0.1	1.0	1.0	0.5
34	Tall fescue	2.3	0.2	10.0	< 0.1	1.8	1.8	0.5
35	Biennial wormwood	2.3	0.3	15.0	< 0.1	0.6	0.6	0.5
36	Common yarrow	2.3	0.3	15.0	< 0.1	0.6	0.6	0.5
37	Volunteer canola	2.3	0.1	5.0	< 0.1	0.4	0.4	0.4
38	Fireweed	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Two-grooved milk-vetch	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4
40	Wild radish	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4
41	Rose species	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4
42	Stork's-bill	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4
43	Milk-vetch species	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4

Table 20. All fields in the Boreal Transition Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All High	Occurrence		
1	Chickweed	55.2	28.7	52.0	13.9	25.2	416.0	50.8
2	Wild buckwheat	67.2	29.3	43.6	5.8	8.6	102.4	36.6
3	Wild oats	50.0	20.4	40.8	4.6	9.2	77.4	27.1
4	Hemp-nettle	41.4	11.0	26.7	2.0	4.8	75.4	15.9
5	Lamb's-quarters	29.3	7.8	26.5	3.1	10.7	268.8	14.7
6	Stinkweed	31.9	10.1	31.8	2.3	7.1	134.6	14.5
7	Quack grass	30.2	8.1	27.0	2.2	7.3	114.0	13.2
8	Canada thistle	43.1	8.1	18.8	0.8	1.8	14.6	12.3
9	Pale smartweed	25.0	7.9	31.7	1.5	5.9	65.2	10.8
10	Dandelion	25.9	7.6	29.5	1.3	4.8	43.8	10.3
11	Shepherd's-purse	22.4	6.2	27.5	0.7	3.2	20.6	8.0
12	Volunteer canola	17.2	5.0	29.0	1.3	7.3	86.4	7.7
13	White clover	9.5	4.8	50.9	1.8	18.7	96.6	7.4
14	Narrow-leaved hawk's-beard	23.3	4.7	20.0	0.4	1.9	18.4	6.8
15	Field horsetail	18.1	4.5	24.8	0.8	4.5	26.0	6.7
16	Perennial sow-thistle	25.9	4.2	16.2	0.3	1.1	4.2	6.7
17	Redroot pigweed	9.5	3.5	36.8	1.6	16.5	111.6	6.4
18	Cleavers	13.8	4.5	32.8	0.8	6.0	27.6	6.1
19	Corn spurry	8.6	4.4	50.5	0.7	7.6	22.2	4.8
20	Volunteer alfalfa	5.2	2.0	39.2	0.8	15.5	78.4	3.4
21	Volunteer wheat	6.0	2.9	48.6	0.5	7.6	16.4	3.3
22	Green foxtail	9.5	2.2	23.2	0.3	2.9	17.8	3.1
23	Wild mustard	6.0	1.9	30.7	0.3	5.3	30.0	2.5
24	Annual sow-thistle	5.2	1.6	30.0	0.3	5.1	18.4	2.1
25	Stork's-bill	6.0	1.2	19.3	0.1	1.3	5.4	1.7
26	Round-leaved mallow	4.3	1.5	34.0	0.1	3.0	9.6	1.7
27	Bluebur	4.3	1.3	29.0	0.1	3.3	9.6	1.6
28	Common groundsel	6.0	0.9	14.3	0.1	0.9	1.8	1.5
29	Volunteer barley	2.6	1.3	48.3	0.2	7.9	18.6	1.4
30	Rough cinquefoil	0.9	0.9	100.0	0.3	38.6	38.6	1.2
31	White cockle	6.0	0.4	6.4	< 0.1	0.4	0.8	1.2
32	Pineappleweed	5.2	0.4	8.3	< 0.1	0.5	1.4	1.1
33	Broad-leaved plantain	3.4	0.6	17.5	< 0.1	1.0	1.8	0.9
34	Vetch species	2.6	0.6	25.0	0.1	2.7	5.4	0.9
35	Yellow sweet-clover	0.9	0.9	100.0	0.1	16.6	16.6	0.8
36	Knawel	0.9	0.6	75.0	0.2	22.4	22.4	0.8
37	Ball mustard	1.7	0.5	27.5	0.1	3.0	5.6	0.6
38	Cow cockle	2.6	0.3	11.7	< 0.1	0.5	0.8	0.6
39	Night-flowering catchfly	1.7	0.4	25.0	< 0.1	2.4	3.6	0.6
40	Spiny annual sow-thistle	1.7	0.2	12.5	< 0.1	1.8	3.4	0.4
41	Aspen poplar	1.7	0.1	5.0	< 0.1	0.3	0.4	0.3
42	Kochia	0.9	0.2	25.0	< 0.1	2.8	2.8	0.3
43	Purslane	0.9	0.1	15.0	< 0.1	0.6	0.6	0.2
44	Red clover	0.9	0.1	10.0	< 0.1	1.0	1.0	0.2
45	Pasture sage	0.9	0.1	10.0	< 0.1	0.8	0.8	0.2
46	Prostrate knotweed	0.9	0.1	10.0	< 0.1	0.4	0.4	0.2
47	Downy brome	0.9	< 0.1	5.0	< 0.1	0.8	0.8	0.2
48	Russian pigweed	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 21. Spring wheat fields in the Boreal Transition Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Chickweed	48.4	21.6	44.7	7.5	15.6	96.2	49.3
2	Wild buckwheat	64.5	22.6	35.0	2.2	3.4	22.4	33.0
3	Wild oats	48.4	13.9	28.7	2.4	5.0	35.8	25.7
4	Redroot pigweed	12.9	4.8	37.5	3.7	28.9	111.6	18.8
5	Stinkweed	38.7	9.4	24.2	1.4	3.6	26.2	17.4
6	Dandelion	32.3	6.5	20.0	1.6	4.9	43.8	15.2
7	Canada thistle	51.6	7.3	14.1	0.6	1.1	6.0	15.2
8	Shepherd's-purse	29.0	8.4	28.9	1.0	3.5	11.8	13.8
9	Field horsetail	25.8	5.5	21.3	1.1	4.4	26.0	11.8
10	Pale smartweed	22.6	6.0	26.4	1.0	4.5	21.2	11.3
11	Hemp-nettle	35.5	6.0	16.8	0.4	1.0	4.0	11.0
12	Volunteer canola	25.8	5.6	21.9	0.7	2.9	9.4	10.5
13	Quack grass	25.8	5.0	19.4	0.4	1.4	3.0	8.8
14	Perennial sow-thistle	29.0	4.0	13.9	0.2	0.8	2.0	8.1
15	Narrow-leaved hawk's-beard	19.4	4.7	24.2	0.5	2.5	6.8	7.9
16	Lamb's-quarters	19.4	3.7	19.2	0.5	2.4	7.0	7.3
17	Corn spurry	9.7	3.5	36.7	0.7	7.5	22.2	6.5
18	Green foxtail	6.5	3.7	57.5	0.6	9.8	17.8	5.8
19	Cleavers	9.7	3.1	31.7	0.2	2.5	5.8	4.4
20	White clover	6.5	1.8	27.5	0.1	1.8	3.0	2.6
21	Stork's-bill	3.2	1.8	55.0	0.2	5.4	5.4	2.3
22	Annual sow-thistle	6.5	0.6	10.0	0.2	2.7	5.2	2.1
23	Common groundsel	6.5	0.5	7.5	< 0.1	0.5	0.8	1.5
24	Kochia	3.2	0.8	25.0	0.1	2.8	2.8	1.4
25	Pineappleweed	6.5	0.3	5.0	< 0.1	0.2	0.2	1.3
26	Night-flowering catchfly	3.2	0.5	15.0	< 0.1	1.2	1.2	1.0
27	Purslane	3.2	0.5	15.0	< 0.1	0.6	0.6	0.9
28	Prostrate knotweed	3.2	0.3	10.0	< 0.1	0.4	0.4	0.8
29	Round-leaved mallow	3.2	0.3	10.0	< 0.1	0.4	0.4	0.8
30	Ball mustard	3.2	0.3	10.0	< 0.1	0.4	0.4	0.8
31	White cockle	3.2	0.2	5.0	< 0.1	0.2	0.2	0.7
32	Wild mustard	3.2	0.2	5.0	< 0.1	0.2	0.2	0.7
33	Russian pigweed	3.2	0.2	5.0	< 0.1	0.2	0.2	0.7
34	Aspen poplar	3.2	0.2	5.0	< 0.1	0.2	0.2	0.7

Table 22. Barley fields in the Boreal Transition Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Chickweed	59.2	33.5	56.6	23.3	39.4	416.0	66.2
2	Wild oats	61.2	25.1	41.0	5.5	9.0	77.2	31.6
3	Wild buckwheat	71.4	27.4	38.4	3.8	5.3	25.4	31.4
4	Lamb's-quarters	32.7	11.1	34.1	6.7	20.6	268.8	22.2
5	Hemp-nettle	42.9	9.2	21.4	0.7	1.6	10.4	12.4
6	Pale smartweed	24.5	7.6	30.8	1.8	7.5	65.2	10.8
7	Canada thistle	38.8	7.1	18.4	0.6	1.7	8.8	10.7
8	White clover	10.2	6.5	64.0	3.3	32.4	96.6	10.6
9	Dandelion	28.6	6.3	22.1	0.9	3.3	32.0	9.2
10	Quack grass	22.4	6.6	29.5	1.4	6.1	28.6	9.2
11	Narrow-leaved hawk's-beard	30.6	6.4	21.0	0.7	2.2	18.4	9.1
12	Stinkweed	26.5	6.8	25.8	0.5	1.9	9.2	8.4
13	Volunteer canola	14.3	4.3	30.0	1.9	13.4	86.4	7.7
14	Perennial sow-thistle	26.5	4.0	15.0	0.3	1.2	3.8	6.7
15	Cleavers	14.3	4.9	34.3	1.0	7.0	25.6	6.4
16	Field horsetail	18.4	3.3	17.8	0.4	2.4	9.6	5.2
17	Shepherd's-purse	18.4	3.4	18.3	0.3	1.5	6.6	5.0
18	Volunteer alfalfa	6.1	2.2	36.7	1.6	26.7	78.4	4.9
19	Wild mustard	8.2	4.1	50.0	0.7	9.1	30.0	4.6
20	Corn spurry	8.2	4.0	48.8	0.6	7.6	19.6	4.3
21	Green foxtail	14.3	2.4	17.1	0.2	1.5	3.4	3.8
22	Annual sow-thistle	6.1	2.3	38.3	0.4	7.2	18.4	2.9
23	Redroot pigweed	10.2	1.6	16.0	0.1	1.3	4.6	2.6
24	Volunteer wheat	6.1	1.9	31.7	0.3	5.7	16.4	2.5
25	Stork's-bill	10.2	1.1	11.0	0.1	0.5	1.0	2.2
26	White cockle	8.2	0.5	6.3	< 0.1	0.4	0.4	1.6
27	Round-leaved mallow	4.1	1.5	37.5	0.1	2.3	4.4	1.6
28	Common groundsel	6.1	0.9	15.0	0.1	1.1	1.6	1.5
29	Pineappleweed	6.1	0.7	11.7	< 0.1	0.7	1.4	1.4
30	Broad-leaved plantain	4.1	0.8	20.0	< 0.1	1.0	1.8	1.1
31	Spiny annual sow-thistle	2.0	0.4	20.0	0.1	3.4	3.4	0.6
32	Cow cockle	2.0	0.2	10.0	< 0.1	0.6	0.6	0.4
33	Downy brome	2.0	0.1	5.0	< 0.1	0.8	0.8	0.4
34	Aspen poplar	2.0	0.1	5.0	< 0.1	0.4	0.4	0.4
35	Bluebur	2.0	0.1	5.0	< 0.1	0.2	0.2	0.4

Table 23. Oat fields in the Boreal Transition Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	80.0	64.0	80.0	25.9	32.4	102.4	49.2
2	Hemp-nettle	60.0	31.3	52.2	10.7	17.8	75.4	24.8
3	Chickweed	53.3	26.7	50.0	10.3	19.4	75.6	22.5
4	Quack grass	53.3	22.0	41.3	10.8	20.3	114.0	21.8
5	Wild oats	40.0	30.3	75.8	9.7	24.3	77.4	21.3
6	Stinkweed	40.0	24.0	60.0	11.4	28.6	134.6	21.2
7	Dandelion	40.0	25.0	62.5	3.3	8.2	21.6	14.1
8	Pale smartweed	40.0	18.7	46.7	2.4	6.0	13.4	11.6
9	Canada thistle	40.0	14.7	36.7	1.8	4.5	14.6	10.1
10	Redroot pigweed	13.3	11.7	87.5	4.0	29.8	54.2	8.1
11	Volunteer canola	26.7	12.3	46.3	1.8	6.9	20.6	8.0
12	White clover	20.0	12.0	60.0	2.6	13.2	24.0	7.8
13	Lamb's-quarters	33.3	11.3	34.0	1.0	2.9	7.4	7.7
14	Corn spurry	20.0	13.3	66.7	1.5	7.7	16.8	7.1
15	Volunteer barley	20.0	9.7	48.3	1.6	7.9	18.6	6.3
16	Narrow-leaved hawk's-beard	33.3	4.7	14.0	0.2	0.6	1.2	5.3
17	Field horsetail	20.0	7.3	36.7	1.2	6.0	14.4	5.3
18	Volunteer alfalfa	20.0	8.3	41.7	0.9	4.3	10.0	5.3
19	Rough cinquefoil	6.7	6.7	100.0	2.6	38.6	38.6	4.8
20	Bluebur	20.0	6.7	33.3	0.5	2.3	5.0	4.5
21	Vetch species	20.0	5.0	25.0	0.5	2.7	5.4	4.1
22	Round-leaved mallow	13.3	5.7	42.5	0.7	5.1	9.6	3.6
23	Yellow sweet-clover	6.7	6.7	100.0	1.1	16.6	16.6	3.5
24	Knawel	6.7	5.0	75.0	1.5	22.4	22.4	3.4
25	Shepherd's-purse	13.3	4.0	30.0	0.5	3.7	6.8	3.1
26	Broad-leaved plantain	13.3	2.0	15.0	0.1	1.0	1.0	2.2
27	Green foxtail	13.3	1.3	10.0	0.1	0.7	1.0	2.0
28	White cockle	13.3	1.0	7.5	0.1	0.5	0.8	1.9
29	Perennial sow-thistle	13.3	0.7	5.0	0.1	0.4	0.4	1.8
30	Annual sow-thistle	6.7	3.0	45.0	0.2	3.4	3.4	1.8
31	Night-flowering catchfly	6.7	2.3	35.0	0.2	3.6	3.6	1.6
32	Cow cockle	6.7	1.3	20.0	0.1	0.8	0.8	1.2
33	Red clover	6.7	0.7	10.0	0.1	1.0	1.0	1.0
34	Cleavers	6.7	0.3	5.0	0.1	1.0	1.0	0.9
35	Common groundsel	6.7	0.3	5.0	<0.1	0.2	0.2	0.9

Table 24. Canola fields in the Boreal Transition Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	57.9	28.9	50.0	3.9	6.8	18.8	52.5
2	Wild buckwheat	52.6	18.9	36.0	1.3	2.6	9.2	30.7
3	Wild oats	36.8	13.2	35.7	2.0	5.5	14.0	27.3
4	Shepherd's-purse	31.6	12.1	38.3	1.7	5.3	20.6	23.5
5	Cleavers	26.3	9.7	37.0	2.1	7.8	27.6	23.0
6	Stinkweed	31.6	10.0	31.7	1.2	3.9	16.2	19.8
7	Volunteer wheat	15.8	11.1	70.0	1.4	9.1	12.4	18.4
8	Hemp-nettle	31.6	6.8	21.7	0.8	2.7	7.4	15.5
9	Quack grass	36.8	6.1	16.4	0.7	2.0	9.2	15.5
10	Canada thistle	42.1	6.3	15.0	0.4	0.9	3.6	14.8
11	Perennial sow-thistle	26.3	7.9	30.0	0.4	1.7	4.2	13.0
12	Field horsetail	5.3	4.2	80.0	1.1	20.6	20.6	9.7
13	Lamb's-quarters	26.3	2.6	10.0	0.2	0.6	1.2	7.9
14	Bluebur	5.3	2.1	40.0	0.5	9.6	9.6	5.2
15	Pale smartweed	15.8	1.6	10.0	0.1	0.8	2.0	4.9
16	Ball mustard	5.3	2.4	45.0	0.3	5.6	5.6	4.2
17	Common groundsel	5.3	1.8	35.0	0.1	1.8	1.8	2.8
18	Wild mustard	10.5	0.5	5.0	< 0.1	0.2	0.2	2.6
19	Pasture sage	5.3	0.5	10.0	< 0.1	0.8	0.8	1.6
20	Narrow-leaved hawk's-beard	5.3	0.5	10.0	< 0.1	0.6	0.6	1.6
21	Cow cockle	5.3	0.3	5.0	< 0.1	0.2	0.2	1.3
22	Pineappleweed	5.3	0.3	5.0	< 0.1	0.2	0.2	1.3
23	Spiny annual sow-thistle	5.3	0.3	5.0	< 0.1	0.2	0.2	1.3
24	White clover	5.3	0.3	5.0	< 0.1	0.2	0.2	1.3

Table 25. All fields in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Chickweed	31.1	16.0	51.5	12.1	38.8	1727.2	40.6
2	Wild buckwheat	66.0	30.0	45.4	5.5	8.3	175.0	39.4
3	Wild oats	52.6	22.1	41.9	6.1	11.5	379.6	34.2
4	Canada thistle	54.3	14.4	26.4	1.5	2.8	29.4	20.2
5	Stinkweed	33.7	8.4	24.9	1.5	4.4	203.2	13.5
6	Cleavers	25.4	8.7	34.3	1.4	5.4	95.0	12.0
7	Pale smartweed	21.3	6.9	32.2	2.0	9.6	145.2	11.8
8	Green foxtail	15.8	6.1	38.5	2.6	16.5	271.2	11.7
9	Annual sow-thistle	17.5	7.0	40.1	2.2	12.7	275.2	11.6
10	Shepherd's-purse	27.3	7.1	26.1	1.3	4.6	90.4	11.2
11	Lamb's-quarters	28.9	6.4	22.2	0.8	2.7	26.8	10.0
12	Hemp-nettle	23.4	6.4	27.1	0.9	3.7	37.0	9.3
13	Quack grass	23.9	5.3	22.4	1.0	4.2	55.0	9.1
14	Perennial sow-thistle	25.4	5.6	22.3	0.5	2.2	24.4	8.5
15	Volunteer canola	15.6	4.2	26.9	0.8	5.1	143.2	6.6
16	Volunteer wheat	12.4	4.5	36.1	0.6	4.9	32.2	5.9
17	Dandelion	19.1	3.2	16.8	0.3	1.3	16.6	5.5
18	Volunteer barley	7.9	2.8	35.0	0.6	7.5	71.4	4.1
19	Narrow-leaved hawk's-beard	12.9	2.3	17.8	0.3	2.3	55.6	4.1
20	Common groundsel	11.0	1.9	17.7	0.2	1.4	14.2	3.2
21	Stork's-bill	6.5	1.9	30.0	0.3	4.3	40.0	2.7
22	Pineappleweed	7.2	1.5	21.5	0.3	4.4	32.6	2.7
23	Field horsetail	8.4	1.3	15.7	0.2	2.1	16.2	2.5
24	Corn spurry	1.9	0.8	43.8	0.7	35.3	182.4	2.3
25	Redroot pigweed	6.2	1.0	16.7	0.2	3.9	30.2	2.1
26	White clover	3.1	0.6	20.4	0.1	2.1	9.2	1.0
27	Spiny annual sow-thistle	0.7	0.5	65.0	0.3	37.7	83.6	1.0
28	Volunteer alfalfa	1.2	0.7	55.0	0.1	12.0	35.8	0.9
29	Low cudweed	0.2	0.2	95.0	0.3	121.2	121.2	0.8
30	Ball mustard	1.7	0.5	28.6	0.1	6.3	28.8	0.8
31	Wild mustard	3.1	0.3	9.6	< 0.1	0.4	1.2	0.7
32	Flixweed	2.4	0.4	15.0	< 0.1	1.4	8.0	0.7
33	Scentless chamomile	1.9	0.4	19.4	0.1	2.7	9.6	0.6
34	Yellow toadflax	2.2	0.3	12.2	< 0.1	1.8	4.6	0.6
35	Rose species	2.2	0.2	11.1	< 0.1	1.1	5.6	0.5
36	Russian thistle	1.4	0.3	24.2	< 0.1	2.9	12.8	0.5
37	Volunteer oats	0.7	0.4	50.0	0.1	11.6	22.0	0.5
38	Bluebur	1.7	0.3	16.4	< 0.1	1.7	9.2	0.5
39	White cockle	1.7	0.3	17.1	< 0.1	1.5	6.2	0.5
40	Kochia	1.9	0.2	9.4	< 0.1	0.8	2.8	0.5
41	Round-leaved mallow	1.4	0.2	15.0	< 0.1	1.4	3.4	0.4
42	Foxtail barley	1.2	0.1	11.0	0.1	4.3	19.8	0.4
43	Night-flowering catchfly	1.0	0.2	25.0	< 0.1	3.2	10.0	0.4
44	Prostrate knotweed	1.0	0.2	22.5	< 0.1	1.4	2.4	0.3
45	Wormseed mustard	0.2	0.2	90.0	0.1	25.6	25.6	0.3
46	Aspen poplar	0.7	0.1	18.3	< 0.1	2.9	7.6	0.2
47	Wild chamomile	0.7	0.1	20.0	< 0.1	2.4	4.4	0.2
48	Knawel	0.7	0.1	18.3	< 0.1	1.9	3.4	0.2
49	Field bindweed	1.0	0.1	7.5	< 0.1	0.4	0.4	0.2
50	Broad-leaved plantain	1.0	0.1	7.5	< 0.1	0.3	0.4	0.2
51	Alsike clover	0.5	0.2	35.0	< 0.1	3.1	6.0	0.2
52	Volunteer flax	0.2	0.1	50.0	< 0.1	14.0	14.0	0.2

(Table continued on next page)

Table 25. All fields in the Aspen Parkland Ecoregion (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
53	Rough cinquefoil	0.5	0.1	22.5	< 0.1	3.5	6.0	0.2
54	Tartary buckwheat	0.2	0.1	60.0	< 0.1	6.2	6.2	0.2
55	Wild tomato	0.5	< 0.1	10.0	< 0.1	0.4	0.6	0.1
56	Showy milkweed	0.5	< 0.1	7.5	< 0.1	0.5	0.8	0.1
57	Wood whitlow-grass	0.5	< 0.1	7.5	< 0.1	0.3	0.4	0.1
58	Dog mustard	0.5	< 0.1	5.0	< 0.1	0.6	1.0	0.1
59	Volunteer peas	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
60	Russian pigweed	0.2	0.1	30.0	< 0.1	2.4	2.4	0.1
61	Henbit	0.2	0.1	25.0	< 0.1	3.4	3.4	0.1
62	Smooth brome	0.2	< 0.1	15.0	< 0.1	1.2	1.2	0.1
63	Volunteer fall rye	0.2	< 0.1	10.0	< 0.1	2.2	2.2	0.1
64	Absinth	0.2	< 0.1	10.0	< 0.1	2.0	2.0	0.1
65	Leafy spurge	0.2	< 0.1	10.0	< 0.1	2.0	2.0	0.1
66	Downy brome	0.2	< 0.1	5.0	< 0.1	1.8	1.8	0.1
67	American dragonhead	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
68	Tansy	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
69	Small-seeded false flax	0.2	< 0.1	5.0	< 0.1	0.8	0.8	0.1
70	Ground-ivy	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	Two-grooved milk-vetch	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
73	Thyme-leaved spurge	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
74	Biennial wormwood	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
75	Yellow sweet-clover	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 26. Spring wheat fields in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Wild buckwheat	70.8	35.2	49.7	6.1	8.6	77.4	53.6
2	Wild oats	52.3	18.3	35.1	5.3	10.1	167.0	37.5
3	Chickweed	26.2	14.5	55.6	6.5	25.0	124.8	34.5
4	Canada thistle	56.9	13.4	23.5	1.2	2.2	16.2	22.3
5	Pale smartweed	22.3	6.7	30.2	2.0	8.8	98.4	14.3
6	Cleavers	26.9	8.4	31.1	1.0	3.7	23.6	13.1
7	Shepherd's-purse	27.7	6.7	24.0	0.9	3.4	31.2	12.0
8	Volunteer canola	16.2	5.1	31.4	1.7	10.4	143.2	11.4
9	Perennial sow-thistle	26.9	6.7	24.7	0.7	2.7	24.4	11.2
10	Green foxtail	15.4	6.2	40.5	1.2	7.9	30.2	10.5
11	Annual sow-thistle	14.6	5.2	35.5	0.8	5.3	33.8	8.3
12	Hemp-nettle	19.2	4.8	24.8	0.6	2.9	23.2	8.1
13	Stinkweed	27.7	2.9	10.6	0.2	0.8	3.4	7.4
14	Quack grass	20.0	3.0	15.2	0.3	1.7	7.6	6.5
15	Lamb's-quarters	22.3	2.5	11.4	0.2	0.9	6.2	6.2
16	Dandelion	18.5	2.9	15.6	0.3	1.4	16.6	5.9
17	Stork's-bill	8.5	3.1	36.8	0.5	6.3	40.0	5.1
18	Narrow-leaved hawk's-beard	13.8	2.3	16.4	0.2	1.6	8.2	4.6
19	Common groundsel	9.2	1.9	20.4	0.2	2.1	14.2	3.4
20	Volunteer barley	8.5	1.8	20.9	0.2	2.3	15.0	3.2
21	Field horsetail	9.2	1.6	17.5	0.2	2.0	16.2	3.2
22	Redroot pigweed	6.2	1.4	22.5	0.3	5.1	18.2	2.9
23	Pineappleweed	7.7	1.2	15.5	0.1	1.0	4.6	2.4
24	Ball mustard	1.5	0.7	42.5	0.1	6.5	12.4	1.0
25	Yellow toadflax	2.3	0.3	13.3	< 0.1	1.9	4.6	0.7
26	Volunteer wheat	0.8	0.5	65.0	0.1	10.8	10.8	0.7
27	Bluebur	0.8	0.5	70.0	0.1	9.2	9.2	0.7
28	Wild mustard	3.1	0.2	6.3	< 0.1	0.3	0.6	0.7
29	Scentless chamomile	1.5	0.3	22.5	0.1	3.8	6.2	0.7
30	Volunteer oats	0.8	0.3	45.0	0.1	12.6	12.6	0.7
31	Flixweed	2.3	0.3	11.7	< 0.1	0.5	0.8	0.6
32	Corn spurry	1.5	0.3	17.5	< 0.1	3.1	4.8	0.6
33	White clover	2.3	0.2	10.0	< 0.1	0.5	0.8	0.6
34	White cockle	2.3	0.2	8.3	< 0.1	0.6	1.2	0.6
35	Foxtail barley	2.3	0.2	6.7	< 0.1	0.4	0.6	0.5
36	Rose species	2.3	0.2	6.7	< 0.1	0.4	0.6	0.5
37	Night-flowering catchfly	1.5	0.3	17.5	< 0.1	1.2	2.0	0.5
38	Rough cinquefoil	0.8	0.3	40.0	< 0.1	6.0	6.0	0.5
39	Round-leaved mallow	1.5	0.1	5.0	< 0.1	0.2	0.2	0.3
40	Knawel	0.8	0.2	20.0	< 0.1	3.4	3.4	0.3
41	Prostrate knotweed	0.8	0.2	25.0	< 0.1	1.6	1.6	0.3
42	Wild chamomile	0.8	0.2	20.0	< 0.1	0.8	0.8	0.3
43	Leafy spurge	0.8	0.1	10.0	< 0.1	2.0	2.0	0.2
44	Downy brome	0.8	< 0.1	5.0	< 0.1	1.8	1.8	0.2
45	Spiny annual sow-thistle	0.8	0.1	10.0	< 0.1	0.4	0.4	0.2
46	Wood whitlow-grass	0.8	0.1	10.0	< 0.1	0.4	0.4	0.2
47	Field bindweed	0.8	< 0.1	5.0	< 0.1	0.4	0.4	0.2
48	Kochia	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
49	Thyme-leaved spurge	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
50	Wild tomato	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
51	Volunteer peas	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 27. Barley fields in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Chickweed	37.2	19.1	51.3	23.5	63.2	1727.2	56.8
2	Wild oats	59.1	25.2	42.6	8.7	14.7	379.6	38.8
3	Wild buckwheat	62.0	25.9	41.8	5.0	8.1	175.0	33.6
4	Canada thistle	52.6	13.8	26.2	1.6	3.0	24.2	19.4
5	Annual sow-thistle	27.7	10.7	38.4	4.6	16.4	275.2	18.4
6	Cleavers	27.0	9.6	35.4	2.0	7.6	95.0	13.4
7	Quack grass	29.9	6.6	22.1	1.7	5.7	55.0	11.7
8	Hemp-nettle	29.2	7.6	25.9	1.1	3.7	26.8	11.0
9	Stinkweed	26.3	7.3	27.8	0.8	3.1	17.8	10.0
10	Green foxtail	14.6	5.3	36.0	2.5	17.5	172.6	9.7
11	Pale smartweed	18.2	4.8	26.4	1.8	9.9	145.2	8.9
12	Lamb's-quarters	24.8	5.0	20.0	0.7	3.0	20.4	8.3
13	Shepherd's-purse	20.4	5.2	25.4	0.6	3.1	25.0	7.5
14	Perennial sow-thistle	20.4	4.3	21.3	0.4	1.9	10.0	6.6
15	Volunteer canola	18.2	4.8	26.2	0.4	2.4	19.2	6.5
16	Volunteer wheat	16.1	4.9	30.2	0.6	3.6	25.4	6.4
17	Dandelion	17.5	3.4	19.4	0.3	1.4	9.0	5.3
18	Narrow-leaved hawk's-beard	9.5	1.5	15.4	0.1	1.1	5.8	2.6
19	Common groundsel	10.2	1.1	10.7	0.1	0.7	3.0	2.5
20	Pineappleweed	5.8	1.2	20.6	0.3	5.6	32.6	2.2
21	Redroot pigweed	5.8	1.0	16.9	0.3	4.7	30.2	2.0
22	Low cudweed	0.7	0.7	95.0	0.9	121.2	121.2	2.0
23	Wild mustard	4.4	0.5	11.7	< 0.1	0.5	1.2	1.1
24	Volunteer alfalfa	1.5	0.9	60.0	0.1	9.5	18.0	1.0
25	Russian thistle	2.2	0.7	33.3	0.1	4.9	12.8	1.0
26	Field horsetail	3.6	0.4	12.0	< 0.1	1.1	2.4	0.9
27	Round-leaved mallow	2.9	0.6	20.0	0.1	2.0	3.4	0.9
28	Spiny annual sow-thistle	0.7	0.7	95.0	0.2	29.0	29.0	0.9
29	Rose species	2.9	0.5	16.3	0.1	1.9	5.6	0.9
30	White clover	2.2	0.6	28.3	0.1	3.3	8.6	0.8
31	White cockle	2.2	0.6	28.3	0.1	2.7	6.2	0.8
32	Night-flowering catchfly	1.5	0.5	32.5	0.1	5.2	10.0	0.6
33	Stork's-bill	2.2	0.4	16.7	< 0.1	1.1	1.6	0.6
34	Scentless chamomile	2.2	0.3	13.3	< 0.1	1.1	1.6	0.6
35	Yellow toadflax	2.2	0.3	11.7	< 0.1	1.3	3.0	0.6
36	Kochia	2.2	0.3	11.7	< 0.1	1.2	2.8	0.6
37	Corn spurry	1.5	0.3	22.5	0.1	4.7	8.6	0.5
38	Field bindweed	2.2	0.2	8.3	< 0.1	0.3	0.4	0.5
39	Tartary buckwheat	0.7	0.4	60.0	< 0.1	6.2	6.2	0.4
40	Aspen poplar	0.7	0.3	35.0	0.1	7.6	7.6	0.4
41	Bluebur	1.5	0.1	10.0	< 0.1	0.7	1.0	0.3
42	Broad-leaved plantain	1.5	0.1	10.0	< 0.1	0.4	0.4	0.3
43	Flixweed	1.5	0.1	7.5	< 0.1	0.3	0.4	0.3
44	Henbit	0.7	0.2	25.0	< 0.1	3.4	3.4	0.3
45	Smooth brome	0.7	0.1	15.0	< 0.1	1.2	1.2	0.2
46	Wild tomato	0.7	0.1	15.0	< 0.1	0.6	0.6	0.2
47	Showy milkweed	0.7	0.1	10.0	< 0.1	0.8	0.8	0.2
48	Foxtail barley	0.7	0.1	10.0	< 0.1	0.6	0.6	0.2
49	Ball mustard	0.7	0.1	10.0	< 0.1	0.4	0.4	0.2
50	Wild chamomile	0.7	< 0.1	5.0	< 0.1	2.0	2.0	0.2
51	Prickly lettuce	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
52	Two-grooved milk-vetch	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1

(Table continued on next page)

Table 27. Barley fields in the Aspen Parkland Ecoregion (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
53	Alsike clover	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
54	Yellow sweet-clover	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
55	Volunteer oats	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1
56	Volunteer peas	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 28. Oat fields in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	High		
1	Green foxtail	48.4	23.7	49.0	16.2	33.4	271.2	47.1
2	Wild buckwheat	80.6	36.1	44.8	8.4	10.4	112.2	45.4
3	Chickweed	22.6	14.0	62.1	9.3	41.1	150.8	26.4
4	Volunteer barley	29.0	13.7	47.2	4.4	15.2	71.4	19.1
5	Lamb's-quarters	41.9	11.6	27.7	2.0	4.8	26.8	16.0
6	Canada thistle	41.9	10.5	25.0	0.9	2.3	8.6	13.7
7	Stinkweed	35.5	10.0	28.2	1.2	3.3	15.4	12.8
8	Corn spurry	3.2	3.1	95.0	5.9	182.4	182.4	12.0
9	Hemp-nettle	22.6	9.2	40.7	1.3	5.8	20.0	10.5
10	Quack grass	25.8	6.1	23.8	1.0	4.0	12.8	9.0
11	Wild oats	25.8	6.8	26.3	0.8	3.2	8.2	9.0
12	Pale smartweed	19.4	6.6	34.2	1.4	7.4	20.6	8.9
13	Cleavers	16.1	8.1	50.0	0.8	5.0	7.2	8.0
14	Volunteer wheat	12.9	4.7	36.3	1.0	7.4	21.4	6.1
15	Stork's-bill	12.9	4.2	32.5	0.9	7.0	23.8	5.7
16	Shepherd's-purse	19.4	3.7	19.2	0.3	1.6	3.8	5.6
17	Dandelion	16.1	4.2	26.0	0.4	2.5	9.0	5.4
18	Perennial sow-thistle	16.1	3.2	20.0	0.3	2.0	4.0	4.8
19	Field horsetail	9.7	3.9	40.0	0.7	7.7	16.0	4.8
20	Volunteer canola	12.9	2.3	17.5	0.2	1.3	2.8	3.5
21	Flixweed	9.7	2.4	25.0	0.3	3.1	8.0	3.3
22	Narrow-leaved hawk's-beard	12.9	1.1	8.8	0.1	0.8	2.2	2.9
23	Redroot pigweed	9.7	1.9	20.0	0.1	1.3	3.4	2.8
24	Annual sow-thistle	6.5	2.1	32.5	0.1	1.7	2.6	2.3
25	Volunteer flax	3.2	1.6	50.0	0.5	14.0	14.0	2.1
26	Russian thistle	6.5	1.3	20.0	0.1	1.3	2.2	1.8
27	Knawel	6.5	1.1	17.5	0.1	1.2	2.2	1.8
28	Kochia	6.5	0.5	7.5	0.1	0.9	1.6	1.4
29	Rose species	6.5	0.5	7.5	< 0.1	0.5	0.8	1.4
30	Russian pigweed	3.2	1.0	30.0	0.1	2.4	2.4	1.1
31	White clover	3.2	0.6	20.0	0.1	1.6	1.6	0.9
32	Pineappleweed	3.2	0.6	20.0	< 0.1	1.4	1.4	0.9
33	Scentless chamomile	3.2	0.5	15.0	< 0.1	1.0	1.0	0.8
34	Volunteer fall rye	3.2	0.3	10.0	0.1	2.2	2.2	0.8
35	White cockle	3.2	0.3	10.0	< 0.1	0.4	0.4	0.7
36	Common groundsel	3.2	0.2	5.0	< 0.1	0.2	0.2	0.6
37	Dog mustard	3.2	0.2	5.0	< 0.1	0.2	0.2	0.6

Table 29. Canola fields in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Wild oats	51.6	25.8	50.0	4.8	9.2	74.8	35.7
2	Wild buckwheat	60.4	27.0	44.6	3.9	6.5	33.8	35.4
3	Chickweed	29.7	14.7	49.4	6.0	20.2	136.8	30.0
4	Stinkweed	50.5	14.8	29.3	2.1	4.1	33.4	22.1
5	Canada thistle	52.7	15.3	29.0	1.4	2.6	12.6	20.6
6	Shepherd's-purse	35.2	10.9	31.1	2.0	5.7	42.4	17.2
7	Lamb's-quarters	37.4	11.2	30.0	1.1	2.9	11.4	15.1
8	Pale smartweed	23.1	8.1	35.2	2.3	9.9	93.2	14.6
9	Cleavers	25.3	9.4	37.2	1.3	5.1	26.6	12.7
10	Annual sow-thistle	11.0	6.6	60.0	2.0	18.2	48.0	11.0
11	Quack grass	23.1	7.1	31.0	1.1	4.8	44.6	10.7
12	Volunteer wheat	19.8	8.0	40.3	1.0	5.2	32.2	10.3
13	Perennial sow-thistle	24.2	4.0	16.4	0.3	1.1	5.6	6.8
14	Volunteer barley	11.0	3.8	35.0	0.7	6.8	42.6	6.0
15	Green foxtail	11.0	3.0	27.0	0.9	8.1	40.0	5.9
16	Hemp-nettle	17.6	3.7	21.3	0.3	1.5	5.6	5.6
17	Common groundsel	15.4	3.7	23.9	0.3	2.0	7.2	5.3
18	Dandelion	18.7	2.4	12.9	0.1	0.7	2.6	4.7
19	Narrow-leaved hawk's-beard	14.3	2.7	19.2	0.2	1.4	7.2	4.4
20	Pineappleweed	8.8	2.4	27.5	0.6	6.3	23.8	4.3
21	Field horsetail	13.2	1.3	9.6	0.1	1.1	3.4	3.3
22	Ball mustard	4.4	1.2	26.3	0.3	7.7	28.8	2.3
23	Volunteer alfalfa	2.2	1.2	52.5	0.4	18.0	35.8	2.1
24	White clover	5.5	1.1	20.0	0.1	2.6	9.2	1.9
25	Redroot pigweed	5.5	0.4	7.0	0.2	3.4	15.4	1.6
26	Volunteer oats	1.1	1.1	100.0	0.2	22.0	22.0	1.5
27	Stork's-bill	5.5	0.4	8.0	< 0.1	0.4	1.0	1.2
28	Prostrate knotweed	3.3	0.7	21.7	< 0.1	1.3	2.4	1.0
29	Corn spurry	1.1	0.7	65.0	0.1	11.4	11.4	0.9
30	Bluebur	3.3	0.2	5.0	< 0.1	0.2	0.2	0.6
31	Volunteer canola	2.2	0.3	12.5	< 0.1	1.1	2.0	0.6
32	Wild chamomile	1.1	0.4	35.0	< 0.1	4.4	4.4	0.5
33	Kochia	2.2	0.2	10.0	< 0.1	0.5	0.8	0.5
34	Broad-leaved plantain	2.2	0.1	5.0	< 0.1	0.2	0.2	0.4
35	Aspen poplar	1.1	0.2	15.0	< 0.1	0.6	0.6	0.3
36	Yellow toadflax	1.1	0.1	5.0	< 0.1	1.6	1.6	0.3
37	Flixweed	1.1	0.1	10.0	< 0.1	0.6	0.6	0.3
38	American dragonhead	1.1	0.1	10.0	< 0.1	0.4	0.4	0.3
39	Wild mustard	1.1	0.1	10.0	< 0.1	0.4	0.4	0.3
40	Tansy	1.1	0.1	10.0	< 0.1	0.4	0.4	0.3
41	Rough cinquefoil	1.1	0.1	5.0	< 0.1	1.0	1.0	0.2
42	Dog mustard	1.1	0.1	5.0	< 0.1	1.0	1.0	0.2
43	Scentless chamomile	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
44	Showy milkweed	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
45	Russian thistle	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
46	Wood whitlow-grass	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
47	Biennial wormwood	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2

Table 30. Field pea fields in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild oats	70.0	31.8	45.4	7.7	11.0	31.0	33.6
2	Stinkweed	40.0	13.8	34.4	11.0	27.4	203.2	28.2
3	Wild buckwheat	65.0	25.8	39.6	4.5	6.9	31.4	25.4
4	Canada thistle	80.0	23.0	28.8	3.4	4.3	29.4	24.3
5	Shepherd's-purse	45.0	12.8	28.3	6.3	14.0	90.4	20.7
6	Perennial sow-thistle	65.0	19.8	30.4	2.1	3.2	11.6	19.0
7	Volunteer canola	55.0	13.8	25.0	2.0	3.7	17.2	15.3
8	Volunteer wheat	35.0	13.8	39.3	2.2	6.3	16.4	13.2
9	Narrow-leaved hawk's-beard	30.0	9.0	30.0	3.0	10.0	55.6	12.1
10	Lamb's-quarters	40.0	10.3	25.6	1.4	3.4	17.0	11.1
11	Pale smartweed	20.0	9.0	45.0	3.0	14.9	53.4	10.8
12	Chickweed	25.0	7.0	28.0	2.4	9.7	31.2	9.7
13	Spiny annual sow-thistle	5.0	4.5	90.0	4.2	83.6	83.6	9.2
14	Stork's-bill	15.0	8.8	58.3	0.7	4.4	8.8	6.3
15	Volunteer barley	15.0	7.5	50.0	0.8	5.5	8.8	6.1
16	Pineappleweed	15.0	4.3	28.3	1.3	8.5	23.4	5.6
17	Dandelion	35.0	2.8	7.9	0.2	0.5	1.4	5.5
18	Annual sow-thistle	15.0	6.3	41.7	0.8	5.1	13.0	5.5
19	Cleavers	15.0	5.0	33.3	1.0	6.6	13.0	5.4
20	Common groundsel	25.0	4.0	16.0	0.2	0.9	3.4	4.9
21	Quack grass	20.0	4.8	23.8	0.3	1.3	4.2	4.7
22	Hemp-nettle	25.0	3.0	12.0	0.2	0.9	1.2	4.5
23	Foxtail barley	5.0	1.3	25.0	1.0	19.8	19.8	2.7
24	Scentless chamomile	5.0	2.5	50.0	0.5	9.6	9.6	2.4
25	Field horsetail	10.0	1.8	17.5	0.3	2.9	4.2	2.4
26	Yellow toadflax	10.0	1.5	15.0	0.3	2.5	4.4	2.2
27	Wild mustard	10.0	1.0	10.0	0.1	0.5	0.6	1.7
28	White clover	5.0	1.5	30.0	0.1	1.2	1.2	1.3
29	Redroot pigweed	5.0	1.0	20.0	0.1	1.4	1.4	1.1
30	Flixweed	5.0	0.8	15.0	0.1	2.4	2.4	1.1
31	Absinth	5.0	0.5	10.0	0.1	2.0	2.0	1.0
32	Small-seeded false flax	5.0	0.3	5.0	< 0.1	0.8	0.8	0.8
33	Green foxtail	5.0	0.3	5.0	< 0.1	0.6	0.6	0.7
34	Aspen poplar	5.0	0.3	5.0	< 0.1	0.4	0.4	0.7
35	Ground-ivy	5.0	0.3	5.0	< 0.1	0.2	0.2	0.7

Table 31. All fields in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All High	Occurrence		
1	Wild oats	38.8	13.4	34.3	5.3	13.5	201.2	54.1
2	Wild buckwheat	38.8	11.8	29.8	2.1	5.4	100.0	36.4
3	Green foxtail	13.8	4.3	30.7	4.3	31.0	469.9	30.8
4	Canada thistle	33.7	7.4	21.9	0.8	2.3	16.6	22.9
5	Stinkweed	23.6	6.8	28.6	1.3	5.3	89.0	21.7
6	Kochia	23.0	4.6	19.8	1.3	5.4	145.0	18.8
7	Lamb's-quarters	18.2	4.5	24.0	1.0	5.1	79.2	15.6
8	Dandelion	22.2	3.2	14.2	0.2	1.1	13.4	11.6
9	Redroot pigweed	16.1	2.9	17.4	0.2	1.4	9.6	9.4
10	Russian thistle	11.2	2.6	22.5	0.5	4.0	40.0	8.8
11	Volunteer canola	8.7	2.1	24.6	0.3	3.0	24.6	6.4
12	Foxtail barley	10.9	1.4	13.2	0.1	1.2	6.8	5.6
13	Flixweed	7.8	1.4	18.5	0.1	1.4	5.4	4.6
14	Thyme-leaved spurge	3.5	1.4	40.0	0.3	7.9	31.8	4.1
15	Annual sow-thistle	2.2	1.0	45.0	0.4	19.8	73.8	4.0
16	Prostrate knotweed	2.6	1.2	37.9	0.3	10.9	55.8	3.8
17	Volunteer wheat	6.1	1.2	19.6	0.1	1.4	4.0	3.7
18	Quack grass	4.8	0.8	17.3	0.2	3.8	20.0	3.3
19	Narrow-leaved hawk's-beard	5.5	0.8	14.4	0.1	1.2	6.8	3.0
20	Pale smartweed	5.2	0.8	15.0	0.1	1.5	3.2	2.9
21	Rose species	5.9	0.6	9.5	0.1	1.0	4.6	2.8
22	Shepherd's-purse	3.9	0.9	23.3	0.1	2.4	8.6	2.7
23	Round-leaved mallow	4.8	0.8	16.4	0.1	1.1	4.4	2.6
24	Volunteer barley	3.0	0.8	26.4	0.1	4.7	28.6	2.6
25	Perennial sow-thistle	4.2	0.4	9.1	< 0.1	0.8	2.0	1.9
26	Night-flowering catchfly	0.9	0.4	50.0	0.2	17.3	31.6	1.5
27	Wild mustard	2.6	0.4	16.7	< 0.1	1.0	3.6	1.4
28	Cleavers	2.2	0.3	12.0	0.1	2.8	13.2	1.3
29	Volunteer flax	0.4	0.3	75.0	0.1	25.2	25.2	1.1
30	Stork's-bill	0.9	0.4	42.5	0.1	7.4	14.6	1.0
31	Barnyard grass	0.4	0.2	40.0	0.1	27.4	27.4	0.9
32	Cow cockle	0.9	0.3	37.5	< 0.1	4.6	8.0	0.9
33	Narrow-leaved vetch	1.7	0.2	8.8	< 0.1	0.5	0.6	0.7
34	Common groundsel	0.9	0.2	25.0	< 0.1	4.2	8.0	0.7
35	Bluebur	0.9	0.2	25.0	< 0.1	1.4	2.2	0.6
36	Chickweed	1.3	0.1	8.3	< 0.1	0.7	1.0	0.6
37	Prostrate pigweed	0.9	0.2	20.0	< 0.1	1.6	3.0	0.5
38	Scouring-rush	0.4	0.2	55.0	< 0.1	4.8	4.8	0.5
39	Tall blue lettuce	0.4	0.1	30.0	< 0.1	5.4	5.4	0.4
40	Spear-leaved goosefoot	0.4	0.1	15.0	< 0.1	6.6	6.6	0.4
41	Common pepper-grass	0.8	0.1	9.4	< 0.1	0.6	1.0	0.3
42	Volunteer alfalfa	0.4	0.1	30.0	< 0.1	2.4	2.4	0.3
43	Goat's-beard	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
44	Wild tomato	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
45	Tartary buckwheat	0.4	0.1	20.0	< 0.1	2.4	2.4	0.3
46	American dragonhead	0.4	0.1	25.0	< 0.1	1.0	1.0	0.3
47	Meadow brome	0.4	< 0.1	10.0	< 0.1	1.2	1.2	0.2
48	Curled dock	0.4	< 0.1	10.0	< 0.1	0.6	0.6	0.2
49	Two-grooved milk-vetch	0.4	< 0.1	10.0	< 0.1	0.6	0.6	0.2
50	Field mint	0.4	< 0.1	5.0	< 0.1	0.8	0.8	0.2
51	Downy brome	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.2
52	Scentless chamomile	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.2

(Table continued on next page)

Table 31. All fields in the Moist Mixed Grassland Ecoregion (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	High	All Occurrence	High		
53	Green tansy mustard	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.2
54	Yellow sweet-clover	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 32. Spring wheat fields in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	29.8	9.2	30.2	3.0	10.0	112.2	53.2
2	Wild buckwheat	36.5	8.8	23.9	0.7	1.8	10.2	31.6
3	Canada thistle	34.3	7.0	20.0	0.7	2.1	16.6	28.6
4	Stinkweed	19.4	6.7	33.3	0.8	4.1	10.3	24.4
5	Dandelion	28.1	4.0	14.4	0.3	0.9	5.0	17.5
6	Kochia	21.6	3.3	14.6	0.3	1.2	4.4	14.4
7	Green foxtail	7.9	1.8	23.2	0.9	11.3	73.1	14.0
8	Russian thistle	15.2	2.9	18.1	0.4	2.4	21.5	12.9
9	Lamb's-quarters	12.9	3.0	22.5	0.3	2.4	15.2	11.8
10	Volunteer canola	10.1	2.4	24.0	0.4	3.8	24.6	10.6
11	Foxtail barley	14.6	1.8	12.3	0.1	0.9	3.0	8.6
12	Redroot pigweed	15.7	1.8	10.5	0.1	0.5	2.8	8.6
13	Flixweed	11.2	2.1	18.5	0.1	1.2	3.2	8.0
14	Thyme-leaved spurge	3.4	1.9	56.7	0.4	12.0	31.8	7.9
15	Volunteer barley	5.6	1.3	23.0	0.3	5.9	28.6	7.0
16	Quack grass	3.4	1.0	30.0	0.3	7.7	20.0	5.2
17	Pale smartweed	6.7	1.1	16.7	0.1	1.6	3.2	4.9
18	Annual sow-thistle	1.1	1.1	100.0	0.3	24.0	24.0	4.7
19	Prostrate knotweed	2.5	1.3	38.8	0.2	5.1	12.0	4.4
20	Perennial sow-thistle	4.5	0.6	12.5	< 0.1	1.1	2.0	2.8
21	Rose species	4.8	0.5	8.3	0.1	0.9	2.8	2.7
22	Round-leaved mallow	2.2	0.8	35.0	0.1	2.7	4.4	2.5
23	Narrow-leaved hawk's-beard	4.2	0.4	9.7	< 0.1	0.4	1.0	2.2
24	Scouring-rush	1.1	0.6	55.0	0.1	4.8	4.8	1.8
25	Tall blue lettuce	1.1	0.3	30.0	0.1	5.4	5.4	1.5
26	Prostrate pigweed	1.1	0.4	35.0	< 0.1	3.0	3.0	1.3
27	Volunteer alfalfa	1.1	0.3	30.0	< 0.1	2.4	2.4	1.1
28	Tartary buckwheat	1.1	0.2	20.0	< 0.1	2.4	2.4	1.0
29	Shepherd's-purse	2.2	0.1	5.0	< 0.1	0.2	0.2	0.9
30	Chickweed	1.1	0.1	10.0	< 0.1	1.0	1.0	0.6
31	Two-grooved milk-vetch	1.1	0.1	10.0	< 0.1	0.6	0.6	0.6
32	Wild mustard	1.1	0.1	10.0	< 0.1	0.6	0.6	0.6
33	Narrow-leaved vetch	1.1	0.1	5.0	< 0.1	0.4	0.4	0.5
34	Cleavers	1.1	0.1	5.0	< 0.1	0.2	0.2	0.5
35	Goat's-beard	1.1	0.1	5.0	< 0.1	0.2	0.2	0.5
36	Green tansy mustard	1.1	0.1	5.0	< 0.1	0.2	0.2	0.5

Table 33. Durum fields in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Green foxtail	14.8	9.3	62.5	18.9	127.6	469.9	94.3
2	Wild oats	40.7	11.7	28.6	3.7	9.1	77.0	54.2
3	Canada thistle	33.3	8.1	24.4	1.2	3.5	12.4	34.6
4	Stinkweed	22.2	3.0	13.3	0.5	2.2	7.4	17.1
5	Kochia	25.9	2.5	9.5	0.1	0.6	1.4	16.3
6	Redroot pigweed	14.8	4.1	27.5	0.4	2.8	4.6	15.9
7	Lamb's-quarters	12.0	2.9	19.4	1.3	8.6	33.5	15.5
8	Wild buckwheat	15.7	2.5	13.3	0.4	2.2	9.0	13.0
9	Russian thistle	15.7	1.7	9.3	0.2	1.3	4.4	10.9
10	Flixweed	7.4	1.0	13.8	0.1	1.2	2.3	5.5
11	Foxtail barley	7.4	0.7	10.0	0.1	1.1	2.0	4.9
12	Perennial sow-thistle	6.5	0.5	6.3	< 0.1	0.5	0.8	3.8
13	Rose species	3.7	0.9	25.0	0.1	2.0	2.0	3.7
14	Quack grass	3.7	0.2	5.0	0.2	4.3	4.3	2.5
15	Downy brome	3.7	0.2	5.0	< 0.1	0.4	0.4	2.0
16	Volunteer canola	3.7	0.2	5.0	< 0.1	0.4	0.4	2.0
17	Narrow-leaved hawk's-beard	3.7	0.2	5.0	< 0.1	0.2	0.2	2.0
18	Round-leaved mallow	3.7	0.2	5.0	< 0.1	0.2	0.2	2.0

Table 34. Barley fields in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All High	Occurrence		
1	Wild oats	45.3	15.2	33.5	5.4	11.8	197.0	57.6
2	Green foxtail	12.0	4.5	37.2	4.8	40.1	222.0	31.0
3	Wild buckwheat	34.7	11.1	32.1	1.3	3.8	16.2	31.0
4	Kochia	24.0	6.7	28.1	3.0	12.5	145.0	29.6
5	Canada thistle	28.0	7.5	26.7	0.8	2.9	15.6	21.9
6	Stinkweed	21.3	5.1	24.0	0.7	3.4	15.9	16.5
7	Lamb's-quarters	16.0	3.5	21.7	1.2	7.6	79.2	14.9
8	Dandelion	18.7	2.9	15.4	0.3	1.8	13.4	11.1
9	Redroot pigweed	17.3	3.2	18.3	0.2	1.3	4.6	10.5
10	Russian thistle	5.3	2.2	40.9	0.6	11.4	40.0	7.2
11	Annual sow-thistle	1.3	1.3	100.0	1.0	73.8	73.8	6.5
12	Foxtail barley	10.7	1.6	15.0	0.2	1.7	6.8	6.3
13	Shepherd's-purse	8.0	2.2	27.5	0.2	2.5	8.6	6.2
14	Volunteer wheat	9.3	1.9	20.0	0.2	1.6	3.2	6.0
15	Prostrate knotweed	2.7	1.3	50.0	0.8	28.3	55.8	5.9
16	Volunteer canola	5.3	1.1	20.0	0.1	2.4	8.6	3.6
17	Quack grass	6.7	0.7	11.0	0.1	1.2	3.8	3.4
18	Stork's-bill	2.7	1.1	42.5	0.2	7.4	14.6	3.2
19	Thyme-leaved spurge	1.3	1.0	75.0	0.3	22.8	22.8	3.0
20	Barnyard grass	1.3	0.5	40.0	0.4	27.4	27.4	2.7
21	Narrow-leaved hawk's-beard	5.3	0.6	10.9	0.1	1.2	3.0	2.7
22	Flixweed	4.0	0.5	11.7	< 0.1	0.9	2.2	2.0
23	Wild mustard	2.7	0.7	27.5	0.1	1.9	3.6	2.0
24	Cow cockle	1.3	0.7	55.0	0.1	8.0	8.0	1.8
25	Round-leaved mallow	4.0	0.2	5.0	< 0.1	0.3	0.4	1.6
26	Common groundsel	1.3	0.5	40.0	0.1	8.0	8.0	1.6
27	Rose species	2.7	0.3	10.0	< 0.1	0.7	1.0	1.3
28	Volunteer barley	1.3	0.5	40.0	< 0.1	2.2	2.2	1.2
29	Pale smartweed	2.7	0.2	7.5	< 0.1	0.9	1.4	1.2
30	Night-flowering catchfly	1.3	0.4	30.0	< 0.1	3.0	3.0	1.1
31	Bluebur	1.3	0.2	15.0	< 0.1	0.6	0.6	0.7
32	Meadow brome	1.3	0.1	10.0	< 0.1	1.2	1.2	0.7
33	Narrow-leaved vetch	1.3	0.1	10.0	< 0.1	0.6	0.6	0.6
34	Perennial sow-thistle	1.3	0.1	5.0	< 0.1	1.0	1.0	0.6
35	Field mint	1.3	0.1	5.0	< 0.1	0.8	0.8	0.6
36	Scentless chamomile	1.3	0.1	5.0	< 0.1	0.2	0.2	0.5
37	Goat's-beard	1.3	0.1	5.0	< 0.1	0.2	0.2	0.5
38	Prostrate pigweed	1.3	0.1	5.0	< 0.1	0.2	0.2	0.5
39	Yellow sweet-clover	1.3	0.1	5.0	< 0.1	0.2	0.2	0.5

Table 35. Oat fields in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	61.5	24.6	40.0	11.0	17.9	100.0	77.8
2	Wild oats	38.5	15.8	41.0	5.7	14.8	51.4	44.6
3	Lamb's-quarters	38.5	14.6	38.0	2.2	5.6	19.8	30.5
4	Green foxtail	30.8	10.2	33.1	2.6	8.5	16.8	26.3
5	Russian thistle	15.4	6.9	45.0	1.2	7.6	13.8	14.3
6	Kochia	15.4	3.8	25.0	1.9	12.2	24.2	14.2
7	Redroot pigweed	15.4	6.9	45.0	1.0	6.4	9.6	13.6
8	Stinkweed	23.1	4.2	18.3	0.3	1.2	1.6	10.5
9	Rose species	32.7	2.0	5.3	0.1	0.3	0.4	10.2
10	Canada thistle	30.8	2.3	7.5	0.1	0.4	0.6	10.0
11	Round-leaved mallow	15.4	4.2	27.5	0.3	1.7	3.2	8.5
12	Volunteer canola	7.7	5.4	70.0	0.3	4.0	4.0	7.9
13	Volunteer wheat	15.4	1.2	7.5	< 0.1	0.3	0.4	5.0
14	Volunteer barley	7.7	2.3	30.0	0.1	1.2	1.2	4.3
15	Pale smartweed	7.7	1.9	25.0	0.2	2.2	2.2	4.2
16	Cow cockle	7.7	1.5	20.0	0.1	1.2	1.2	3.6
17	Quack grass	7.7	0.8	10.0	< 0.1	0.4	0.4	2.7
18	Perennial sow-thistle	7.7	0.6	7.5	< 0.1	0.4	0.4	2.5
19	Foxtail barley	7.7	0.4	5.0	< 0.1	0.2	0.2	2.3
20	Cleavers	7.7	0.4	5.0	< 0.1	0.2	0.2	2.3
21	Dandelion	7.7	0.4	5.0	< 0.1	0.2	0.2	2.3
22	Annual sow-thistle	7.7	0.4	5.0	< 0.1	0.2	0.2	2.3

Table 36. Canola fields in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild oats	46.1	20.5	43.2	14.8	31.2	201.2	71.0
2	Wild buckwheat	71.1	25.9	35.2	7.7	10.4	97.8	57.9
3	Stinkweed	47.4	16.6	35.0	3.0	6.4	36.0	31.5
4	Canada thistle	47.4	11.8	25.0	1.1	2.3	9.6	21.8
5	Lamb's-quarters	36.8	11.1	30.0	1.9	5.2	24.4	21.7
6	Kochia	35.5	8.2	22.3	0.9	2.4	8.8	16.0
7	Dandelion	36.8	3.5	9.5	0.2	0.5	1.8	10.4
8	Green foxtail	30.3	2.6	8.1	0.2	0.5	1.2	8.3
9	Thyme-leaved spurge	15.8	3.4	21.7	0.2	1.2	2.2	6.3
10	Flixweed	10.5	3.2	30.0	0.3	2.8	5.4	5.4
11	Volunteer wheat	15.8	2.4	15.0	0.2	1.0	1.4	5.4
12	Russian thistle	10.5	2.8	26.3	0.3	3.1	6.0	5.2
13	Redroot pigweed	10.5	2.4	22.5	0.1	1.4	2.6	4.3
14	Rose species	10.5	1.6	15.0	0.3	2.6	4.6	4.1
15	Perennial sow-thistle	10.5	0.9	8.1	0.1	0.6	1.0	2.9
16	Pale smartweed	10.5	0.8	7.5	0.1	0.7	1.1	2.9
17	Bluebur	5.3	1.8	35.0	0.1	2.2	2.2	2.8
18	Common pepper-grass	9.2	1.0	9.4	0.1	0.6	1.0	2.7
19	Spear-leaved goosefoot	5.3	0.8	15.0	0.3	6.6	6.6	2.7
20	Foxtail barley	5.3	1.3	25.0	0.2	3.6	3.6	2.6
21	Round-leaved mallow	5.3	1.1	20.0	0.1	1.0	1.0	2.0
22	Curled dock	5.3	0.5	10.0	< 0.1	0.6	0.6	1.5
23	Chickweed	5.3	0.5	10.0	< 0.1	0.4	0.4	1.5
24	Common groundsel	5.3	0.5	10.0	< 0.1	0.4	0.4	1.5
25	Annual sow-thistle	5.3	0.5	10.0	< 0.1	0.4	0.4	1.5
26	Cleavers	5.3	0.3	5.0	< 0.1	0.2	0.2	1.2
27	Wild mustard	5.3	0.3	5.0	< 0.1	0.2	0.2	1.2
28	Wild tomato	5.3	0.3	5.0	< 0.1	0.2	0.2	1.2
29	Narrow-leaved vetch	5.3	0.3	5.0	< 0.1	0.2	0.2	1.2
30	Prostrate knotweed	3.9	0.2	3.8	< 0.1	0.2	0.2	0.9

Table 37. All fields in the Fescue Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	50.0	17.8	35.5	3.3	6.5	50.8	46.4
2	Wild buckwheat	47.4	13.5	28.5	1.1	2.3	12.8	30.4
3	Canada thistle	47.4	9.1	19.3	1.2	2.5	12.6	26.8
4	Cleavers	9.2	5.1	55.7	2.5	27.1	81.4	20.1
5	Annual sow-thistle	11.8	4.2	35.6	2.5	20.8	159.8	19.7
6	Stinkweed	32.9	4.8	14.6	0.5	1.4	6.2	15.2
7	Shepherd's-purse	15.8	6.5	41.3	0.8	5.4	16.2	14.6
8	Lamb's-quarters	19.7	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	21.1	3.5	16.6	0.2	0.9	3.4	9.6
11	Flixweed	13.2	3.0	22.5	0.6	4.8	37.6	9.4
12	Common groundsel	5.3	1.9	36.3	0.9	16.8	62.0	7.7
13	Chickweed	5.3	1.6	31.3	0.7	13.3	44.2	6.5
14	Volunteer canola	10.5	2.4	22.5	0.2	1.5	4.2	5.7
15	Volunteer barley	5.3	2.2	42.5	0.4	7.6	18.6	5.5
16	Hemp-nettle	7.9	1.9	24.2	0.3	3.3	11.6	5.2
17	Quack grass	7.9	1.7	21.7	0.3	3.5	11.2	5.0
18	Prostrate knotweed	6.6	2.2	34.0	0.2	2.4	4.8	4.6
19	Yellow sweet-clover	3.9	1.6	41.7	0.4	9.0	16.8	4.4
20	Foxtail barley	9.2	1.5	16.4	0.1	1.2	5.0	4.3
21	Round-leaved mallow	6.6	1.7	26.0	0.2	2.3	5.2	4.1
22	Volunteer alfalfa	1.3	1.2	90.0	0.4	31.4	31.4	3.6
23	Redroot pigweed	6.6	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	6.6	0.9	13.0	0.1	0.8	2.0	2.7
26	Pineappleweed	3.9	1.0	25.0	0.1	3.6	8.8	2.7
27	Downy brome	1.3	0.9	70.0	0.3	21.0	21.0	2.6
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	13.8	0.1	1.5	4.6	2.4
30	Volunteer wheat	3.9	0.9	21.7	0.1	1.9	3.8	2.2
31	Rose species	3.9	0.3	8.3	< 0.1	0.9	2.4	1.5
32	Bluebur	3.9	0.4	10.0	< 0.1	0.5	0.6	1.5
33	Narrow-leaved hawk's-beard	3.9	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	Meadow brome	1.3	0.1	5.0	< 0.1	1.0	1.0	0.5
37	White cockle	1.3	0.1	5.0	< 0.1	0.4	0.4	0.4
38	Goat's-beard	1.3	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Striate knotweed	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
42	Wood whitlow-grass	1.3	0.1	5.0	< 0.1	0.2	0.2	0.4

Table 38. Spring wheat fields in the Fescue Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild oats	41.9	16.6	39.6	3.6	8.5	50.8	45.2
2	Annual sow-thistle	16.1	6.5	40.0	5.7	35.5	159.8	37.5
3	Wild buckwheat	48.4	13.4	27.7	1.0	2.1	5.2	31.8
4	Canada thistle	51.6	6.3	12.2	0.6	1.1	5.6	23.1
5	Cleavers	12.9	6.0	46.3	2.8	21.6	78.6	22.6
6	Green foxtail	6.5	3.5	55.0	3.3	50.4	100.4	20.4
7	Shepherd's-purse	16.1	7.4	46.0	1.1	6.6	11.4	17.0
8	Stinkweed	29.0	5.6	19.4	0.5	1.8	6.0	16.2
9	Volunteer barley	12.9	5.5	42.5	1.0	7.6	18.6	13.7
10	Dandelion	22.6	5.0	22.1	0.3	1.3	3.4	12.7
11	Volunteer canola	12.9	3.4	26.3	0.3	2.1	4.2	8.2
12	Lamb's-quarters	16.1	1.9	12.0	0.1	0.7	1.6	6.9
13	Prostrate knotweed	9.7	2.4	25.0	0.1	1.3	1.6	5.7
14	Pineappleweed	6.5	1.8	27.5	0.3	4.7	8.8	5.0
15	Foxtail barley	6.5	2.1	32.5	0.2	2.7	5.0	4.7
16	Common groundsel	6.5	1.6	25.0	0.2	2.4	4.2	4.1
17	Perennial sow-thistle	6.5	1.5	22.5	0.2	2.6	4.6	4.0
18	Round-leaved mallow	3.2	1.5	45.0	0.2	5.2	5.2	3.2
19	Quack grass	6.5	1.0	15.0	< 0.1	0.7	1.0	3.0
20	Narrow-leaved hawk's-beard	6.5	0.3	5.0	< 0.1	0.2	0.2	2.1
21	Toad rush	3.2	0.3	10.0	0.2	6.0	6.0	2.1
22	Flixweed	3.2	0.5	15.0	< 0.1	0.8	0.8	1.5
23	Pale smartweed	3.2	0.2	5.0	0.1	2.4	2.4	1.4
24	Bluebur	3.2	0.3	10.0	< 0.1	0.6	0.6	1.3
25	Yellow sweet-clover	3.2	0.2	5.0	< 0.1	0.4	0.4	1.1
26	Hemp-nettle	3.2	0.2	5.0	< 0.1	0.2	0.2	1.1
27	Kochia	3.2	0.2	5.0	< 0.1	0.2	0.2	1.1
28	Redroot pigweed	3.2	0.2	5.0	< 0.1	0.2	0.2	1.1
29	Rose species	3.2	0.2	5.0	< 0.1	0.2	0.2	1.1
30	Pasture sage	3.2	0.2	5.0	< 0.1	0.2	0.2	1.1

Table 39. Barley fields in the Fescue Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild oats	52.5	17.0	32.4	3.1	5.8	49.4	46.9
2	Canada thistle	50.0	12.5	25.0	1.8	3.7	12.6	35.1
3	Wild buckwheat	47.5	12.6	26.6	1.1	2.3	12.8	30.4
4	Cleavers	7.5	5.1	68.3	2.6	34.4	81.4	21.0
5	Flixweed	20.0	3.9	19.4	1.1	5.5	37.6	14.9
6	Stinkweed	32.5	3.6	11.2	0.4	1.2	6.2	13.9
7	Chickweed	10.0	3.1	31.3	1.3	13.3	44.2	12.8
8	Lamb's-quarters	20.0	4.4	21.9	0.5	2.5	10.0	12.1
9	Common groundsel	5.0	2.4	47.5	1.6	31.1	62.0	12.1
10	Shepherd's-purse	10.0	3.4	33.8	0.5	5.3	16.2	8.8
11	Yellow sweet-clover	5.0	3.0	60.0	0.7	13.3	16.8	7.9
12	Quack grass	10.0	2.5	25.0	0.5	4.9	11.2	7.7
13	Dandelion	20.0	2.1	10.6	0.1	0.5	1.0	7.7
14	Volunteer alfalfa	2.5	2.3	90.0	0.8	31.4	31.4	7.2
15	Hemp-nettle	7.5	2.5	33.3	0.3	4.3	11.6	6.1
16	Cow cockle	10.0	2.3	22.5	0.2	2.2	6.2	6.0
17	Redroot pigweed	10.0	1.6	16.3	0.2	2.1	7.0	5.3
18	Downy brome	2.5	1.8	70.0	0.5	21.0	21.0	5.2
19	Volunteer canola	10.0	1.9	18.8	0.1	1.0	2.0	4.9
20	Persian darnel	2.5	1.5	60.0	0.5	20.4	20.4	4.9
21	Foxtail barley	12.5	1.3	10.0	0.1	0.6	1.6	4.8
22	Volunteer wheat	7.5	1.6	21.7	0.1	1.9	3.8	4.3
23	Kochia	7.5	0.9	11.7	0.1	0.9	2.0	3.1
24	Annual sow-thistle	5.0	0.9	17.5	0.1	1.9	3.4	2.6
25	Round-leaved mallow	5.0	0.6	12.5	< 0.1	0.9	1.2	2.1
26	Rose species	5.0	0.5	10.0	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	1.8
29	Perennial sow-thistle	5.0	0.3	5.0	< 0.1	0.4	0.6	1.6
30	Meadow brome	2.5	0.1	5.0	< 0.1	1.0	1.0	0.9
31	White cockle	2.5	0.1	5.0	< 0.1	0.4	0.4	0.8
32	Goat's-beard	2.5	0.1	5.0	< 0.1	0.2	0.2	0.8
33	Striate knotweed	2.5	0.1	5.0	< 0.1	0.2	0.2	0.8
34	Pale smartweed	2.5	0.1	5.0	< 0.1	0.2	0.2	0.8
35	Wood whitlow-grass	2.5	0.1	5.0	< 0.1	0.2	0.2	0.8

Table 40. All fields in the Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild oats	41.4	12.3	29.8	3.0	7.3	102.4	68.0
2	Russian thistle	30.7	9.6	31.3	2.1	6.9	120.4	50.1
3	Kochia	25.0	7.0	28.1	1.2	4.7	48.4	34.7
4	Wild buckwheat	25.0	6.7	26.6	0.7	2.9	19.8	29.9
5	Lamb's-quarters	10.7	4.0	37.4	1.3	11.9	118.2	23.3
6	Green foxtail	12.9	2.8	21.4	0.8	6.1	49.6	17.9
7	Redroot pigweed	12.9	2.7	21.0	0.3	2.1	12.4	13.3
8	Stinkweed	7.9	1.9	24.5	0.3	3.6	21.0	9.6
9	Canada thistle	10.0	1.1	11.4	0.1	1.4	7.6	8.0
10	Dandelion	3.6	1.4	39.3	0.2	5.8	19.0	6.0
11	Flixweed	4.3	0.8	17.5	0.1	3.5	19.4	4.7
12	Foxtail barley	3.6	0.6	17.0	0.1	3.4	14.4	3.8
13	Skeletonweed	0.7	0.3	40.0	0.3	39.2	39.2	3.3
14	Volunteer chickpea	0.7	0.3	40.0	0.3	39.2	39.2	3.3
15	Yellow foxtail	0.7	0.5	65.0	0.2	25.6	25.6	2.8
16	Quack grass	1.4	0.4	30.0	0.1	10.1	13.2	2.7
17	Volunteer wheat	2.1	0.5	25.0	0.1	3.5	7.6	2.6
18	Pale smartweed	2.3	0.4	15.3	0.1	2.1	6.2	2.4
19	Volunteer canola	1.4	0.6	40.0	0.1	5.6	8.8	2.4
20	Perennial sow-thistle	2.9	0.3	10.0	< 0.1	0.5	1.0	2.0
21	Cow cockle	2.1	0.4	16.7	< 0.1	1.1	1.8	1.8
22	Downy brome	1.4	0.3	17.5	< 0.1	1.2	1.4	1.3
23	Narrow-leaved hawk's-beard	1.4	0.1	10.0	< 0.1	0.6	0.7	1.0
24	Rose species	0.7	0.1	20.0	< 0.1	3.6	3.6	0.8
25	Wild mustard	0.7	0.1	10.0	< 0.1	0.4	0.4	0.5
26	Blue lettuce	0.7	0.1	8.8	< 0.1	0.6	0.6	0.5
27	Common pepper-grass	0.7	0.1	7.5	< 0.1	0.7	0.7	0.5
28	Goat's-beard	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.4
29	Gray tansy mustard	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.4
30	Shepherd's-purse	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.4
31	Annual sow-thistle	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.4
32	Wild tomato	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.4
33	Volunteer white mustard	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.4
34	Bluebur	0.5	< 0.1	3.8	< 0.1	0.2	0.2	0.3

Table 41. Spring wheat fields in the Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	40.3	12.1	30.0	4.1	10.2	102.4	81.5
2	Russian thistle	25.4	8.1	31.8	3.1	12.0	120.4	55.9
3	Kochia	17.9	6.0	33.3	1.1	6.3	48.4	31.8
4	Green foxtail	14.9	4.2	28.0	1.4	9.7	49.6	28.8
5	Wild buckwheat	23.9	4.6	19.3	0.4	1.8	9.8	26.5
6	Redroot pigweed	11.9	2.1	18.0	0.2	1.7	4.9	12.8
7	Stinkweed	7.5	1.6	22.0	0.4	5.3	21.0	10.8
8	Foxtail barley	6.0	1.2	20.0	0.3	4.3	14.4	7.9
9	Skeletonweed	1.5	0.6	40.0	0.6	39.2	39.2	6.8
10	Yellow foxtail	1.5	1.0	65.0	0.4	25.6	25.6	6.0
11	Lamb's-quarters	7.5	0.6	8.0	< 0.1	0.4	0.6	5.6
12	Volunteer canola	3.0	1.2	40.0	0.2	5.6	8.8	5.6
13	Pale smartweed	4.5	0.9	20.0	0.1	2.8	6.2	5.4
14	Canada thistle	6.0	0.4	6.3	< 0.1	0.7	1.4	4.4
15	Quack grass	1.5	0.6	40.0	0.2	13.2	13.2	3.7
16	Flixweed	4.5	0.3	6.7	< 0.1	0.3	0.4	3.2
17	Volunteer wheat	1.5	0.1	5.0	< 0.1	0.4	0.4	1.0
18	Shepherd's-purse	1.5	0.1	5.0	< 0.1	0.2	0.2	1.0
19	Wild tomato	1.5	0.1	5.0	< 0.1	0.2	0.2	1.0

Table 42. Durum fields in the Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High	Occurrence		
1	Kochia	39.5	9.2	23.2	1.5	3.9	28.0	62.5
2	Wild oats	44.2	10.6	23.9	1.1	2.4	8.8	60.2
3	Russian thistle	27.9	8.5	30.4	0.9	3.2	9.6	45.1
4	Wild buckwheat	23.3	5.3	23.0	0.3	1.3	3.8	27.2
5	Redroot pigweed	16.3	3.7	22.9	0.5	2.8	12.4	22.8
6	Volunteer chickpea	2.3	0.9	40.0	0.9	39.2	39.2	17.3
7	Canada thistle	14.0	2.1	15.0	0.3	2.2	7.6	16.0
8	Dandelion	2.3	2.2	95.0	0.4	19.0	19.0	12.7
9	Green foxtail	9.3	1.7	18.8	0.3	2.8	7.6	12.1
10	Downy brome	4.7	0.8	17.5	0.1	1.2	1.4	4.8
11	Cow cockle	4.7	0.7	15.0	< 0.1	1.0	1.8	4.4
12	Perennial sow-thistle	4.7	0.7	15.0	< 0.1	0.6	1.0	4.1
13	Volunteer wheat	2.3	0.6	25.0	0.1	2.4	2.4	3.2
14	Lamb's-quarters	4.7	0.3	7.5	< 0.1	0.3	0.4	3.2
15	Foxtail barley	2.3	0.1	5.0	< 0.1	0.2	0.2	1.4
16	Flixweed	2.3	0.1	5.0	< 0.1	0.2	0.2	1.4
17	Gray tansy mustard	2.3	0.1	5.0	< 0.1	0.2	0.2	1.4

Table 43. Barley fields in the Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Wild oats	26.7	15.7	58.8	4.2	15.8	33.8	80.1
2	Russian thistle	46.7	17.3	37.1	2.3	5.0	14.8	75.8
3	Kochia	20.0	8.7	43.3	1.1	5.7	9.6	35.7
4	Lamb's-quarters	13.3	9.3	70.0	1.1	8.4	11.0	32.7
5	Wild buckwheat	20.0	4.0	20.0	0.5	2.3	5.8	22.1
6	Dandelion	6.7	4.0	60.0	0.5	7.0	7.0	14.4
7	Redroot pigweed	6.7	3.3	50.0	0.3	4.4	4.4	11.7
8	Stinkweed	13.3	1.7	12.5	0.1	0.5	0.6	10.9
9	Canada thistle	6.7	1.3	20.0	0.1	1.6	1.6	6.9
10	Wild mustard	6.7	0.7	10.0	< 0.1	0.4	0.4	5.1
11	Volunteer white mustard	6.7	0.3	5.0	< 0.1	0.2	0.2	4.5

Table 44. Number of fields surveyed in each ecodistrict

Ecoregion and Ecodistrict Group	Ecodistrict	Number of Fields Surveyed
Peace Lowland		
High Level Plain (586 & 587)	586 High Level Plain	11
	587 Boyer Plain	2
Manning Plain (588 & 590)	588 Manning Plain	14
	590 Grimshaw Plain	7
Worsley Plain (591 & 583)	591 Worsley Plain	17
	583 Clear Hills Upland	1
McLennan Plain (592 & 610)	592 McLennan Plain	13
	610 Iosegun Plain	2
Rycroft Plain (593)	593 Rycroft Plain	22
Blueberry Upland (594 & 618)	594 Blueberry Upland	12
	618 Saddle Upland	3
Falher Plain (595)	595 Falher Plain	16
Dunvegan Plain (596)	596 Dunvegan Plain	18
Debolt Plain (597, 600 & 611)	597 Debolt Plain	7
	600 Smoky Plain	2
	611 Puskwaska Upland	2
Beaverlodge Plain (598)	598 Beaverlodge Plain	10
Grande Prairie Plain (599)	599 Grande Prairie Plain	14
Boreal Transition		
Athabasca Plain (678 & 683)	678 Athabasca Plain	19
	683 Redwater Plain	3
Beaver River Plain (680 & 679)	680 Beaver River Plain	11
	679 Whitefish Upland	1
Westlock Plain (681, 615 & 616)	681 Westlock Plain	20
	615 Cross Lake Upland	3
	616 Hondo Plain	2
Lac Ste Anne Upland (684, 692, 622 & 623)	684 Lac Ste Anne Upland	10
	692 Breton Upland	2
	622 Blueridge Upland	1
	623 Edson Plain	1
Onion Lake Plain (687 & 688)	687 Onion Lake Plain	22
	688 Myrnam Upland	7
Caroline Plain (708, 703 & 630)	708 Caroline Plain	7
	703 Rimbey Upland	6
	630 Winfield Upland	1
Aspen Parkland		
Leduc Plain (727)	727 Leduc Plain	64
Andrew Plain (728)	728 Andrew Plain	32
Lloydminster Plain (729)	729 Lloydminster Plain	25
Vermilion Upland (730)	730 Vermilion Upland	67
Daysland Plain (731 & 732)	731 Daysland Plain	79
	732 Cooking Lake Upland	2
Red Deer Plain (737)	737 Red Deer Plain	24
Sedgewick Plain (738)	738 Sedgewick Plain	18
Bashaw Upland (740)	740 Bashaw Upland	23
Provost Plain (743 & 739)	743 Provost Plain	13
	739 Ribstone Plain	7
Pine Lake Upland (744)	744 Pine Lake Upland	30
Olds Plain (746)	746 Olds Plain	22
Black Diamond Upland (750)	750 Black Diamond Upland	12

(Table continued on next page)

Table 44. Number of fields surveyed in each ecodistrict (*continued*)

Ecoregion and Ecodistrict Group	Ecodistrict	Number of Fields Surveyed
Moist Mixed Grassland		
Castor Plain (769, 779 & 777)	769 Castor Plain	27
	779 Endiang Upland	6
	777 Sullivan Lake Plain	2
Neutral Hills (771)	771 Neutral Hills	11
Drumheller Plain (781)	781 Drumheller Plain	38
Wintering Hills (786)	786 Wintering Hills	16
Majorville Upland (787)	787 Majorville Upland	12
Standard Plain (788 & 790)	788 Standard Plain	12
	790 Blackfoot Plain	4
Vulcan Plain (791)	791 Vulcan Plain	32
Lethbridge Plain (793 & 797)	793 Lethbridge Plain	67
	797 Milk River Upland	3
Fescue Grassland		
Delacour Plain (798)	798 Delacour Plain	49
Cardston Plain (800, 801 & 802)	800 Cardston Plain	19
	801 Twin Butte Foothills	4
	802 Del Bonita Plateau	4
Mixed Grassland		
Sounding Creek Plain (804, 806, 812 & 814)	804 Sounding Creek Plain	6
	806 Berry Creek Plain	6
	812 Brooks Plain	6
	814 Rainy Hills Upland	1
Oyen Upland (809, 811 & 805)	809 Oyen Upland	10
	811 Acadia Valley Plain	2
	805 Sibbald Plain	1
Bindloss Plain (815 & 821)	815 Bindloss Plain	10
	821 Schuler Upland	8
Vauxhall Plain (823)	823 Vauxhall Plain	13
Foremost Plain (828)	828 Foremost Plain	67
Cypress Hills (838, 837, 833 & 836)	838 Cypress Hills	4
	837 Cypress Slope	3
	833 Wild Horse Plain	2
	836 Sweetgrass Upland	1

Table 45. High Level Plain Ecodistrict (586 & 587) in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Field horsetail	69.2	29.2	42.2	4.8	6.9	20.6	97.0
2	Cleavers	46.2	12.3	26.7	2.0	4.4	17.0	45.5
3	Wild buckwheat	30.8	7.7	25.0	0.6	2.0	4.8	22.8
4	Narrow-leaved hawk's-beard	38.5	3.5	9.0	0.2	0.6	1.2	16.3
5	Shepherd's-purse	7.7	5.4	70.0	0.8	10.8	10.8	16.1
6	Volunteer canola	23.1	4.2	18.3	0.5	2.0	5.2	15.4
7	Perennial sow-thistle	23.1	3.8	16.7	0.3	1.3	2.8	13.5
8	Stinkweed	7.7	3.8	50.0	0.3	4.0	4.0	9.5
9	Common groundsel	23.1	1.9	8.3	0.1	0.5	0.8	9.4
10	Hemp-nettle	15.4	2.3	15.0	0.2	1.5	1.6	9.0
11	Lamb's-quarters	23.1	1.5	6.7	0.1	0.3	0.4	8.5
12	Pineappleweed	7.7	1.9	25.0	0.3	3.6	3.6	6.9
13	Pale smartweed	15.4	1.5	10.0	0.1	0.5	0.8	6.6
14	Quack grass	7.7	0.8	10.0	0.3	3.4	3.4	5.4
15	Wild oats	7.7	1.5	20.0	0.1	1.0	1.0	4.6
16	Volunteer wheat	7.7	1.2	15.0	0.1	1.2	1.2	4.3
17	Bluebur	7.7	0.8	10.0	< 0.1	0.4	0.4	3.2
18	Canada thistle	7.7	0.4	5.0	0.1	1.0	1.0	3.2
19	Volunteer alfalfa	7.7	0.4	5.0	< 0.1	0.4	0.4	2.8

Table 46. Manning Plain Ecodistrict (588 & 590) in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild buckwheat	90.5	45.0	49.7	10.3	11.3	46.8	32.0
2	Hemp-nettle	76.2	22.6	29.7	14.4	18.9	199.2	28.2
3	Cleavers	81.0	35.7	44.1	8.4	10.4	67.8	26.5
4	Narrow-leaved hawk's-beard	61.9	20.5	33.1	10.3	16.6	137.2	22.1
5	Field horsetail	61.9	19.3	31.2	6.8	11.0	34.8	18.2
6	Common groundsel	52.4	24.8	47.3	5.9	11.3	37.6	18.1
7	Wild oats	57.1	16.9	29.6	5.4	9.5	64.0	15.7
8	Lamb's-quarters	42.9	16.0	37.2	5.0	11.7	75.4	13.7
9	Dandelion	61.9	19.0	30.8	1.8	2.9	9.2	13.0
10	Stinkweed	52.4	13.3	25.5	3.5	6.6	42.6	12.2
11	Chickweed	33.3	10.2	30.7	5.8	17.5	79.0	11.9
12	Pineappleweed	52.4	9.5	18.2	3.3	6.3	32.0	10.8
13	Pale smartweed	57.1	10.5	18.3	1.8	3.1	14.6	10.0
14	Quack grass	28.6	5.2	18.3	4.7	16.6	63.2	8.9
15	Bluebur	42.9	6.2	14.4	0.8	1.8	7.6	6.4
16	Biennial wormwood	28.6	6.0	20.8	1.5	5.2	26.6	5.8
17	Canada thistle	38.1	3.6	9.4	0.8	2.1	7.2	5.2
18	Volunteer canola	19.0	6.9	36.3	1.4	7.5	21.2	5.2
19	Volunteer barley	9.5	6.4	67.5	2.2	23.2	41.0	5.0
20	Yellow sweet-clover	23.8	6.9	29.0	0.7	3.0	9.2	4.9
21	Perennial sow-thistle	23.8	4.8	20.0	0.6	2.4	4.8	4.1
22	Broad-leaved plantain	19.0	4.8	25.0	0.7	3.6	7.4	3.8
23	Shepherd's-purse	19.0	3.1	16.3	0.8	4.0	10.2	3.4
24	Spiny annual sow-thistle	19.0	1.9	10.0	0.1	0.5	1.2	2.3
25	Rough cinquefoil	19.0	1.2	6.3	0.1	0.3	0.6	2.1
26	Volunteer wheat	14.3	1.7	11.7	0.2	1.5	3.6	2.0
27	Low cudweed	9.5	1.0	10.0	0.4	4.5	8.2	1.6
28	Redtop	9.5	0.7	7.5	0.2	2.2	4.2	1.3
29	Common yarrow	9.5	1.0	10.0	0.1	1.0	1.2	1.2
30	Foxtail barley	4.8	1.4	30.0	0.2	3.4	3.4	1.0
31	Mouse-eared chickweed	4.8	1.4	30.0	0.1	2.8	2.8	1.0
32	Stork's-bill	4.8	0.7	15.0	< 0.1	1.0	1.0	0.7
33	Timothy	4.8	0.5	10.0	< 0.1	0.8	0.8	0.6
34	Rose species	4.8	0.2	5.0	< 0.1	0.4	0.4	0.5
35	Prostrate knotweed	4.8	0.2	5.0	< 0.1	0.2	0.2	0.5

Table 47. Worsley Plain Ecodistrict (591 & 583) in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Stinkweed	72.2	29.4	40.8	9.7	13.4	42.4	37.9
2	Field horsetail	83.3	30.0	36.0	5.9	7.1	18.8	31.4
3	Hemp-nettle	50.0	17.5	35.0	6.5	12.9	72.6	24.6
4	Wild buckwheat	77.8	20.6	26.4	2.4	3.1	11.6	20.1
5	Cleavers	61.1	15.8	25.9	2.6	4.2	16.8	17.0
6	Alsike clover	38.9	15.6	40.0	3.3	8.4	45.0	16.3
7	Pineappleweed	44.4	13.6	30.6	2.8	6.4	35.6	15.2
8	Dandelion	50.0	10.8	21.7	2.1	4.3	21.4	13.2
9	Chickweed	44.4	10.8	24.4	1.6	3.5	13.8	11.5
10	Canada thistle	44.4	7.8	17.5	1.3	2.9	14.4	9.7
11	Narrow-leaved hawk's-beard	38.9	6.9	17.9	1.0	2.5	7.0	8.2
12	Bluebur	22.2	6.9	31.3	1.7	7.7	28.4	8.2
13	Volunteer canola	33.3	8.3	25.0	0.9	2.7	8.6	8.1
14	Perennial sow-thistle	44.4	5.8	13.1	0.4	0.9	4.4	7.2
15	Common groundsel	44.4	6.1	13.8	0.3	0.7	3.2	7.1
16	Volunteer barley	16.7	6.7	40.0	1.4	8.4	13.2	7.0
17	Lamb's-quarters	33.3	5.6	16.7	0.5	1.4	5.4	6.2
18	Shepherd's-purse	33.3	3.6	10.8	0.5	1.4	5.4	5.4
19	Low cudweed	27.8	3.9	14.0	0.6	2.2	6.2	5.3
20	Wild oats	22.2	5.6	25.0	0.4	1.6	2.8	4.9
21	Pale smartweed	22.2	3.6	16.3	0.6	2.8	10.4	4.7
22	Rough cinquefoil	11.1	3.6	32.5	0.8	7.6	15.0	4.2
23	Broad-leaved plantain	27.8	2.2	8.0	0.1	0.4	1.0	3.6
24	Volunteer wheat	16.7	2.5	15.0	0.3	2.1	5.4	3.2
25	American dragonhead	22.2	1.7	7.5	0.1	0.7	1.2	3.0
26	Foxtail barley	16.7	1.9	11.7	0.1	0.8	1.4	2.6
27	Bicknell's geranium	11.1	3.1	27.5	0.2	1.5	1.8	2.6
28	Rose species	11.1	1.1	10.0	0.1	1.2	1.4	1.7
29	Ground-ivy	5.6	0.8	15.0	0.4	7.4	7.4	1.7
30	Round-leaved mallow	11.1	0.6	5.0	< 0.1	0.2	0.2	1.3
31	Tall fescue	5.6	0.6	10.0	0.1	1.8	1.8	0.9
32	Biennial wormwood	5.6	0.8	15.0	< 0.1	0.8	0.8	0.9
33	Ball mustard	5.6	0.8	15.0	< 0.1	0.6	0.6	0.9
34	Pasture sage	5.6	0.6	10.0	0.1	1.0	1.0	0.8
35	Tall buttercup	5.6	0.3	5.0	< 0.1	0.2	0.2	0.6
36	Fireweed	5.6	0.3	5.0	< 0.1	0.2	0.2	0.6
37	Redtop	5.6	0.3	5.0	< 0.1	0.2	0.2	0.6
38	Mouse-eared chickweed	5.6	0.3	5.0	< 0.1	0.2	0.2	0.6
39	Milk-vetch species	5.6	0.3	5.0	< 0.1	0.2	0.2	0.6

Table 48. McLennan Plain Ecodistrict (592 & 610) in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Chickweed	40.0	27.0	67.5	9.5	23.7	64.0	44.8
2	Cleavers	40.0	19.7	49.2	5.5	13.7	41.8	31.0
3	Hemp-nettle	46.7	19.7	42.1	4.1	8.7	27.4	28.7
4	Field horsetail	66.7	20.3	30.5	2.3	3.4	13.4	28.2
5	Dandelion	26.7	15.0	56.3	3.5	13.2	42.4	21.3
6	Lamb's-quarters	33.3	14.7	44.0	2.5	7.6	25.2	19.8
7	Volunteer canola	26.7	12.7	47.5	3.0	11.4	32.2	18.9
8	Stinkweed	40.0	11.0	27.5	1.1	2.6	6.8	15.5
9	Wild buckwheat	33.3	10.7	32.0	1.4	4.2	14.2	15.0
10	Shepherd's-purse	6.7	5.3	80.0	2.8	41.4	41.4	10.8
11	Canada thistle	20.0	7.0	35.0	1.0	4.9	9.8	9.7
12	Narrow-leaved hawk's-beard	26.7	6.0	22.5	0.5	2.0	5.2	9.2
13	Wild oats	26.7	3.7	13.8	0.4	1.6	3.6	7.8
14	Common groundsel	13.3	4.0	30.0	0.9	6.6	12.4	6.7
15	Pineappleweed	20.0	3.0	15.0	0.3	1.5	3.2	5.9
16	Corn spurry	13.3	2.7	20.0	0.5	3.5	6.4	4.9
17	Bluebur	13.3	3.0	22.5	0.2	1.3	2.4	4.4
18	Fireweed	6.7	3.0	45.0	0.2	3.4	3.4	3.3
19	Pale smartweed	13.3	1.0	7.5	0.1	0.5	0.8	3.1
20	Broad-leaved plantain	6.7	2.3	35.0	0.2	2.4	2.4	2.8
21	Common yarrow	6.7	1.3	20.0	0.1	0.8	0.8	2.0
22	Rose species	6.7	1.0	15.0	0.1	0.8	0.8	1.9
23	Volunteer wheat	6.7	0.7	10.0	< 0.1	0.4	0.4	1.6
24	Quack grass	6.7	0.3	5.0	0.1	0.8	0.8	1.5
25	Volunteer barley	6.7	0.3	5.0	< 0.1	0.2	0.2	1.4

Table 49. Rycroft Plain Ecodistrict (593) in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild buckwheat	68.2	34.8	51.0	8.8	12.9	61.0	28.7
2	Cleavers	59.1	26.1	44.2	12.5	21.2	180.8	28.5
3	Stinkweed	59.1	30.7	51.9	7.4	12.5	41.4	24.8
4	Field horsetail	50.0	18.9	37.7	8.1	16.3	76.8	20.5
5	Narrow-leaved hawk's-beard	40.9	18.9	46.1	8.3	20.3	78.8	19.6
6	Pineappleweed	31.8	13.6	42.9	9.4	29.6	172.4	17.9
7	Volunteer wheat	31.8	14.1	44.3	7.7	24.3	128.2	16.4
8	Wild oats	59.1	14.8	25.0	2.4	4.1	15.2	14.2
9	Hemp-nettle	40.9	10.2	25.0	5.7	14.0	90.8	14.0
10	Chickweed	22.7	12.3	54.0	6.5	28.7	93.2	13.5
11	Perennial sow-thistle	36.4	12.3	33.8	3.8	10.4	64.8	12.2
12	Bluebur	22.7	6.6	29.0	6.5	28.8	112.0	11.5
13	Canada thistle	50.0	8.0	15.9	0.9	1.9	5.2	9.3
14	Volunteer canola	40.9	8.0	19.4	1.0	2.5	14.4	8.3
15	Dandelion	50.0	6.1	12.3	0.5	1.0	3.2	8.2
16	Alsike clover	36.4	8.6	23.8	0.7	2.0	6.8	7.8
17	Common groundsel	18.2	6.4	35.0	1.1	6.0	14.0	5.4
18	Lamb's-quarters	27.3	3.2	11.7	0.2	0.9	2.8	4.4
19	Broad-leaved plantain	13.6	5.0	36.7	0.8	5.9	14.4	4.1
20	Shepherd's-purse	18.2	3.9	21.3	0.6	3.1	5.2	3.9
21	Meadow fescue	4.5	4.5	100.0	1.5	32.4	32.4	3.6
22	Volunteer alfalfa	4.5	4.5	100.0	1.2	27.2	27.2	3.4
23	Pale smartweed	18.2	2.0	11.3	0.3	1.5	3.6	3.0
24	Corn spurry	9.1	2.3	25.0	0.2	2.6	4.8	2.0
25	Quack grass	13.6	0.7	5.0	< 0.1	0.3	0.4	1.8
26	Rose species	13.6	0.7	5.0	< 0.1	0.3	0.4	1.8
27	Low cudweed	4.5	1.6	35.0	0.7	15.0	15.0	1.8
28	Redroot pigweed	9.1	1.4	15.0	0.1	1.5	2.8	1.6
29	Bicknell's geranium	4.5	0.9	20.0	< 0.1	0.8	0.8	0.9
30	Yellow toadflax	4.5	0.7	15.0	< 0.1	1.0	1.0	0.8
31	Spiny annual sow-thistle	4.5	0.5	10.0	< 0.1	0.6	0.6	0.7
32	Volunteer barley	4.5	0.5	10.0	< 0.1	0.4	0.4	0.7
33	Yellow sweet-clover	4.5	0.5	10.0	< 0.1	0.4	0.4	0.7
34	Mouse-eared chickweed	4.5	0.2	5.0	0.1	1.6	1.6	0.7
35	American dragonhead	4.5	0.2	5.0	< 0.1	0.4	0.4	0.6
36	Common pepper-grass	4.5	0.2	5.0	< 0.1	0.4	0.4	0.6
37	Red clover	4.5	0.2	5.0	< 0.1	0.4	0.4	0.6
38	White clover	4.5	0.2	5.0	< 0.1	0.4	0.4	0.6
39	Two-grooved milk-vetch	4.5	0.2	5.0	< 0.1	0.2	0.2	0.6
40	Stork's-bill	4.5	0.2	5.0	< 0.1	0.2	0.2	0.6

Table 50. Blueberry Upland Ecodistrict (594 & 618) in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Field horsetail	80.0	56.3	70.4	16.7	20.9	49.8	48.7
2	Stinkweed	53.3	25.3	47.5	11.4	21.5	101.4	28.9
3	Hemp-nettle	53.3	24.7	46.3	5.7	10.7	34.8	21.1
4	Cleavers	60.0	24.3	40.6	3.8	6.4	14.4	19.2
5	Wild buckwheat	80.0	25.3	31.7	1.7	2.1	6.0	18.8
6	Chickweed	33.3	17.7	53.0	6.6	19.8	60.8	18.0
7	Narrow-leaved hawk's-beard	53.3	14.7	27.5	4.6	8.6	54.0	16.4
8	Alsike clover	33.3	13.7	41.0	5.6	16.8	70.4	15.3
9	Pineappleweed	26.7	12.3	46.3	6.0	22.5	51.4	14.7
10	Canada thistle	53.3	8.3	15.6	1.2	2.3	10.2	9.9
11	Dandelion	53.3	7.3	13.8	1.0	1.9	8.0	9.3
12	Pale smartweed	26.7	10.7	40.0	1.5	5.6	13.2	8.2
13	Wild oats	40.0	9.0	22.5	0.8	1.9	5.0	8.1
14	Rough cinquefoil	6.7	5.3	80.0	2.0	30.0	30.0	5.1
15	Bluebur	26.7	5.0	18.8	0.4	1.7	5.0	5.0
16	Volunteer wheat	20.0	5.7	28.3	0.7	3.5	10.0	4.9
17	Broad-leaved plantain	26.7	4.3	16.3	0.4	1.7	5.2	4.8
18	Field bindweed	13.3	4.3	32.5	0.4	3.2	6.2	3.4
19	Common groundsel	20.0	2.7	13.3	0.2	1.1	2.6	3.2
20	Volunteer canola	13.3	2.7	20.0	0.7	5.4	9.8	3.2
21	Prostrate knotweed	13.3	3.0	22.5	0.5	3.5	6.4	3.0
22	American dragonhead	13.3	3.7	27.5	0.2	1.8	3.0	2.9
23	Lamb's-quarters	13.3	3.7	27.5	0.2	1.5	2.8	2.8
24	Western marsh cudweed	6.7	1.7	25.0	1.1	17.2	17.2	2.8
25	Low cudweed	13.3	2.3	17.5	0.3	2.4	4.2	2.6
26	Volunteer peas	6.7	3.3	50.0	0.4	6.0	6.0	2.3
27	Stork's-bill	6.7	2.3	35.0	0.2	3.6	3.6	1.8
28	Perennial sow-thistle	13.3	0.7	5.0	< 0.1	0.2	0.2	1.6
29	Pygmyflower	6.7	1.0	15.0	0.3	4.6	4.6	1.4
30	Cow cockle	6.7	1.3	20.0	0.1	1.4	1.4	1.3
31	Shepherd's-purse	6.7	1.0	15.0	0.1	2.2	2.2	1.2
32	Redtop	6.7	1.0	15.0	0.1	1.0	1.0	1.1
33	Meadow fescue	6.7	1.0	15.0	0.1	0.8	0.8	1.1
34	Quack grass	6.7	0.7	10.0	0.1	2.0	2.0	1.1
35	Two-grooved milk-vetch	6.7	1.0	15.0	< 0.1	0.6	0.6	1.1
36	Foxtail barley	6.7	0.3	5.0	< 0.1	0.2	0.2	0.8
37	Scentless chamomile	6.7	0.3	5.0	< 0.1	0.2	0.2	0.8
38	Fireweed	6.7	0.3	5.0	< 0.1	0.2	0.2	0.8
39	Bicknell's geranium	6.7	0.3	5.0	< 0.1	0.2	0.2	0.8
40	Prostrate pigweed	6.7	0.3	5.0	< 0.1	0.2	0.2	0.8
41	Rose species	6.7	0.3	5.0	< 0.1	0.2	0.2	0.8
42	Cream-colored vetchling	6.7	0.3	5.0	< 0.1	0.2	0.2	0.8

Table 51. Falher Plain Ecodistrict (595) in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Stinkweed	87.5	30.9	35.4	7.0	7.9	75.0	47.1
2	Wild buckwheat	68.8	28.8	41.8	6.8	9.9	57.8	42.8
3	Field horsetail	62.5	25.6	41.0	3.2	5.1	14.6	29.8
4	Canada thistle	50.0	20.3	40.6	3.9	7.8	41.6	27.7
5	Dandelion	50.0	20.9	41.9	1.9	3.9	14.8	22.3
6	Wild oats	50.0	18.8	37.5	1.8	3.7	14.2	21.0
7	Pale smartweed	43.8	14.1	32.1	1.6	3.7	8.2	17.4
8	Lamb's-quarters	37.5	15.3	40.8	1.5	4.1	17.0	16.8
9	Narrow-leaved hawk's-beard	37.5	10.9	29.2	1.5	3.9	7.0	14.7
10	Prostrate pigweed	31.3	12.8	41.0	1.5	4.8	15.6	14.6
11	Cleavers	25.0	10.6	42.5	1.1	4.2	10.2	11.4
12	Hemp-nettle	18.8	4.4	23.3	0.6	3.1	6.6	6.4
13	Pineappleweed	12.5	2.5	20.0	0.4	3.0	5.2	4.1
14	Chickweed	12.5	2.8	22.5	0.2	1.9	3.2	3.8
15	Rough cinquefoil	12.5	2.8	22.5	0.2	1.7	2.8	3.7
16	Volunteer canola	6.3	2.8	45.0	0.3	4.4	4.4	3.0
17	Shepherd's-purse	12.5	1.9	15.0	0.1	0.6	0.8	2.9
18	Common groundsel	6.3	1.6	25.0	0.1	1.0	1.0	1.8
19	Corn spurry	6.3	1.3	20.0	0.1	1.2	1.2	1.7
20	Yellow toadflax	6.3	1.3	20.0	0.1	1.2	1.2	1.7
21	Common pepper-grass	6.3	1.3	20.0	0.1	0.8	0.8	1.6
22	Quack grass	6.3	0.6	10.0	< 0.1	0.4	0.4	1.3
23	Prostrate knotweed	6.3	0.6	10.0	< 0.1	0.4	0.4	1.3
24	Perennial sow-thistle	6.3	0.3	5.0	< 0.1	0.2	0.2	1.1

Table 52. Dunvegan Plain Ecodistrict (596) in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Chickweed	44.4	19.2	43.1	18.5	41.7	238.6	43.9
2	Wild oats	61.1	28.6	46.8	8.2	13.4	46.8	34.0
3	Wild buckwheat	66.7	25.8	38.8	4.2	6.3	25.6	27.3
4	Cleavers	44.4	16.4	36.9	6.9	15.4	108.4	24.2
5	Field horsetail	61.1	17.2	28.2	3.8	6.2	14.0	22.1
6	Stinkweed	27.8	11.9	43.0	6.7	24.0	104.2	19.7
7	Canada thistle	61.1	15.8	25.9	1.9	3.1	13.4	18.5
8	Dandelion	44.4	14.2	31.9	1.3	3.0	7.6	14.6
9	Perennial sow-thistle	38.9	14.4	37.1	1.8	4.5	19.4	14.6
10	Hemp-nettle	33.3	13.6	40.8	1.4	4.1	9.6	12.8
11	Prostrate pigweed	16.7	10.0	60.0	0.9	5.6	9.2	8.1
12	Lamb's-quarters	22.2	8.1	36.3	0.9	4.3	11.4	8.1
13	Narrow-leaved hawk's-beard	38.9	4.4	11.4	0.4	0.9	2.4	8.1
14	Stork's-bill	5.6	5.6	100.0	2.9	52.2	52.2	7.8
15	Shepherd's-purse	11.1	7.5	67.5	0.6	5.1	8.0	5.7
16	Volunteer canola	16.7	3.6	21.7	0.6	3.7	10.4	4.9
17	Pale smartweed	16.7	2.8	16.7	0.2	0.9	2.0	3.8
18	Quack grass	5.6	2.2	40.0	1.0	18.0	18.0	3.3
19	Volunteer wheat	16.7	1.4	8.3	0.1	0.5	0.8	3.1
20	Pineappleweed	11.1	2.8	25.0	0.2	1.4	2.6	3.0
21	Alsike clover	5.6	2.2	40.0	0.3	4.6	4.6	2.2
22	Common groundsel	5.6	1.7	30.0	0.2	4.4	4.4	1.9
23	Yellow toadflax	5.6	1.7	30.0	0.2	4.4	4.4	1.9
24	Bluebur	5.6	1.1	20.0	0.1	1.4	1.4	1.4
25	Round-leaved mallow	5.6	0.8	15.0	< 0.1	0.6	0.6	1.2
26	Slender wheat grass	5.6	0.6	10.0	< 0.1	0.4	0.4	1.1
27	Ball mustard	5.6	0.3	5.0	< 0.1	0.2	0.2	0.9
28	Cream-colored vetchling	5.6	0.3	5.0	< 0.1	0.2	0.2	0.9
29	Milk-vetch species	5.6	0.3	5.0	< 0.1	0.2	0.2	0.9

Table 53. Debolt Plain Ecodistrict (597, 600 & 611) in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Corn spurry	9.1	9.1	100.0	10.7	118.2	118.2	49.4
2	Hemp-nettle	36.4	20.5	56.3	5.7	15.8	34.6	45.9
3	Dandelion	72.7	21.4	29.4	3.0	4.1	13.4	44.4
4	Field horsetail	54.5	12.7	23.3	2.0	3.6	17.0	29.6
5	Canada thistle	63.6	9.5	15.0	1.0	1.6	4.8	25.4
6	Lamb's-quarters	36.4	10.9	30.0	1.2	3.4	8.2	21.3
7	Wild buckwheat	36.4	5.0	13.8	0.3	0.8	2.6	13.0
8	Stinkweed	9.1	9.1	100.0	0.9	10.0	10.0	12.8
9	Shepherd's-purse	27.3	5.0	18.3	0.4	1.4	3.4	11.4
10	Cleavers	9.1	7.3	80.0	0.7	8.0	8.0	10.6
11	Volunteer canola	27.3	2.3	8.3	0.2	0.7	1.0	8.4
12	Pineappleweed	9.1	4.1	45.0	0.3	3.2	3.2	6.4
13	Pale smartweed	18.2	0.9	5.0	0.1	0.4	0.6	4.9
14	Narrow-leaved hawk's-beard	9.1	1.8	20.0	0.1	1.6	1.6	4.0
15	Perennial sow-thistle	9.1	0.5	5.0	0.1	0.6	0.6	2.5
16	Volunteer barley	9.1	0.5	5.0	0.1	0.6	0.6	2.5
17	Alsike clover	9.1	0.5	5.0	0.1	0.6	0.6	2.5
18	Bluebur	9.1	0.5	5.0	< 0.1	0.2	0.2	2.4
19	Bicknell's geranium	9.1	0.5	5.0	< 0.1	0.2	0.2	2.4

Table 54. Beaverlodge Plain Ecodistrict (598) in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Stinkweed	80.0	29.5	36.9	4.3	5.3	25.6	74.5
2	Dandelion	60.0	25.5	42.5	1.9	3.2	7.8	49.3
3	Pineappleweed	20.0	12.0	60.0	2.8	14.1	27.0	35.2
4	Wild buckwheat	70.0	12.5	17.9	0.8	1.1	2.4	32.9
5	Cleavers	20.0	9.0	45.0	1.1	5.4	7.0	20.1
6	Narrow-leaved hawk's-beard	30.0	7.5	25.0	0.9	3.1	8.4	20.1
7	Field horsetail	20.0	4.0	20.0	0.3	1.7	3.2	10.6
8	Volunteer canola	10.0	6.0	60.0	0.4	4.2	4.2	10.4
9	Quack grass	20.0	3.0	15.0	0.3	1.4	1.6	9.3
10	Alsike clover	10.0	4.0	40.0	0.4	3.6	3.6	8.3
11	Common yarrow	20.0	2.0	10.0	0.1	0.5	0.6	7.2
12	Wild oats	10.0	1.5	15.0	0.3	2.6	2.6	5.5
13	Wild radish	10.0	1.5	15.0	0.1	1.4	1.4	4.6
14	Chickweed	10.0	0.5	5.0	< 0.1	0.4	0.4	3.1
15	Sulfur cinquefoil	10.0	0.5	5.0	< 0.1	0.2	0.2	2.9
16	Lamb's-quarters	10.0	0.5	5.0	< 0.1	0.2	0.2	2.9
17	Perennial sow-thistle	10.0	0.5	5.0	< 0.1	0.2	0.2	2.9

Table 55. Grande Prairie Plain Ecodistrict (599) in the Peace Lowland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild buckwheat	64.3	19.3	30.0	1.7	2.6	8.4	99.7
2	Stinkweed	35.7	11.1	31.0	1.1	3.0	6.2	59.7
3	Chickweed	14.3	7.9	55.0	0.7	4.6	7.4	35.0
4	Field horsetail	7.1	6.1	85.0	0.6	8.4	8.4	27.4
5	Dandelion	35.7	3.9	11.0	0.2	0.5	0.8	26.5
6	Wild oats	14.3	2.1	15.0	0.1	0.9	1.6	13.0
7	Narrow-leaved hawk's-beard	14.3	1.8	12.5	0.1	0.5	0.6	11.1
8	Volunteer alfalfa	7.1	0.7	10.0	< 0.1	0.6	0.6	5.4
9	Cleavers	7.1	0.7	10.0	< 0.1	0.4	0.4	5.0
10	Lamb's-quarters	7.1	0.7	10.0	< 0.1	0.4	0.4	5.0
11	Quack grass	7.1	0.4	5.0	< 0.1	0.2	0.2	4.1
12	Hemp-nettle	7.1	0.4	5.0	< 0.1	0.2	0.2	4.1
13	Wild radish	7.1	0.4	5.0	< 0.1	0.2	0.2	4.1

Table 56. Athabasca Plain Ecodistrict (678 & 683) in the Boreal Transition Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Chickweed	45.5	12.7	28.0	5.6	12.3	96.2	33.2
2	Redroot pigweed	31.8	13.0	40.7	5.8	18.1	111.6	31.5
3	Wild buckwheat	45.5	18.9	41.5	2.5	5.6	22.4	27.9
4	Wild oats	45.5	16.8	37.0	2.6	5.7	23.6	26.7
5	Volunteer canola	22.7	5.7	25.0	4.0	17.5	86.4	19.7
6	Stinkweed	50.0	9.1	18.2	1.5	2.9	26.2	19.1
7	Corn spurry	22.7	12.5	55.0	2.0	8.8	22.2	18.2
8	Pale smartweed	27.3	11.1	40.8	1.9	6.9	21.2	17.7
9	Dandelion	45.5	10.9	24.0	0.8	1.7	9.6	17.4
10	Canada thistle	36.4	9.3	25.6	0.9	2.5	6.0	15.2
11	Hemp-nettle	22.7	4.1	18.0	0.8	3.5	8.8	9.1
12	Volunteer wheat	9.1	5.7	62.5	1.0	10.6	12.4	8.2
13	Narrow-leaved hawk's-beard	31.8	3.2	10.0	0.2	0.6	1.8	8.2
14	Quack grass	18.2	3.2	17.5	1.0	5.3	19.4	8.2
15	Perennial sow-thistle	31.8	3.0	9.3	0.2	0.5	1.2	8.0
16	Cleavers	9.1	3.4	37.5	1.3	14.2	27.6	7.7
17	Lamb's-quarters	22.7	3.4	15.0	0.3	1.4	3.2	7.2
18	Field horsetail	13.6	1.4	10.0	0.1	0.6	0.8	3.5
19	Bluebur	4.5	1.8	40.0	0.4	9.6	9.6	3.3
20	Spiny annual sow-thistle	9.1	1.1	12.5	0.2	1.8	3.4	2.8
21	Shepherd's-purse	4.5	1.1	25.0	< 0.1	1.0	1.0	1.7
22	Volunteer alfalfa	4.5	0.7	15.0	< 0.1	0.6	0.6	1.3
23	Pasture sage	4.5	0.5	10.0	< 0.1	0.8	0.8	1.2
24	Ball mustard	4.5	0.5	10.0	< 0.1	0.4	0.4	1.1
25	Wild mustard	4.5	0.2	5.0	< 0.1	0.2	0.2	1.0
26	Pineappleweed	4.5	0.2	5.0	< 0.1	0.2	0.2	1.0

Table 57. Beaver River Plain Ecodistrict (680 & 679) in the Boreal Transition Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild buckwheat	83.3	30.8	37.0	6.1	7.3	49.2	37.3
2	Wild oats	66.7	33.3	50.0	5.6	8.4	35.8	34.9
3	Chickweed	58.3	26.7	45.7	5.1	8.7	27.8	29.9
4	Quack grass	50.0	15.4	30.8	3.6	7.1	28.6	20.9
5	Hemp-nettle	50.0	16.3	32.5	3.3	6.6	33.4	20.7
6	Canada thistle	50.0	17.1	34.2	2.7	5.3	14.6	19.7
7	Volunteer alfalfa	8.3	8.3	100.0	6.5	78.4	78.4	18.6
8	Lamb's-quarters	33.3	17.5	52.5	2.9	8.8	29.6	18.1
9	Wild mustard	25.0	9.2	36.7	2.5	10.1	30.0	12.7
10	Perennial sow-thistle	33.3	8.3	25.0	0.7	2.2	3.8	9.6
11	Knawel	8.3	6.3	75.0	1.9	22.4	22.4	7.7
12	Volunteer barley	8.3	7.5	90.0	1.6	18.6	18.6	7.5
13	Yellow sweet-clover	8.3	8.3	100.0	1.4	16.6	16.6	7.5
14	Stinkweed	25.0	7.5	30.0	0.4	1.5	2.6	7.4
15	Bluebur	16.7	7.5	45.0	0.5	3.1	5.0	6.5
16	Field horsetail	33.3	3.3	10.0	0.2	0.6	1.2	6.4
17	Shepherd's-purse	16.7	5.0	30.0	0.3	1.5	2.0	4.9
18	White cockle	25.0	1.7	6.7	0.1	0.5	0.8	4.5
19	Pale smartweed	16.7	3.3	20.0	0.3	2.0	3.8	4.4
20	Narrow-leaved hawk's-beard	16.7	2.9	17.5	0.1	0.7	1.2	3.8
21	Dandelion	8.3	3.8	45.0	0.4	4.2	4.2	3.4
22	White clover	8.3	1.7	20.0	0.2	2.2	2.2	2.2
23	Cow cockle	8.3	1.7	20.0	0.1	0.8	0.8	2.0
24	Volunteer canola	8.3	1.3	15.0	0.1	1.2	1.2	1.9
25	Red clover	8.3	0.8	10.0	0.1	1.0	1.0	1.7
26	Cleavers	8.3	0.4	5.0	< 0.1	0.4	0.4	1.4
27	Pineappleweed	8.3	0.4	5.0	< 0.1	0.4	0.4	1.4
28	Green foxtail	8.3	0.4	5.0	< 0.1	0.2	0.2	1.4
29	Stork's-bill	8.3	0.4	5.0	< 0.1	0.2	0.2	1.4

Table 58. Westlock Plain Ecodistrict (681, 615 & 616) in the Boreal Transition Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Chickweed	52.0	23.2	44.6	4.6	8.8	31.0	53.6
2	Wild buckwheat	76.0	26.2	34.5	2.2	2.9	22.8	47.0
3	Wild oats	44.0	15.6	35.5	3.4	7.7	52.0	39.6
4	White clover	20.0	10.4	52.0	2.7	13.4	38.4	27.0
5	Shepherd's-purse	32.0	11.8	36.9	1.3	4.2	11.8	22.6
6	Hemp-nettle	52.0	7.8	15.0	0.5	0.9	5.0	18.7
7	Narrow-leaved hawk's-beard	28.0	6.4	22.9	0.5	1.8	6.6	13.1
8	Canada thistle	40.0	4.2	10.5	0.2	0.4	0.8	11.9
9	Perennial sow-thistle	28.0	3.8	13.6	0.2	0.7	1.8	9.5
10	Quack grass	16.0	5.0	31.3	0.3	2.2	3.0	8.8
11	Volunteer canola	16.0	3.4	21.3	0.3	1.8	3.6	7.3
12	Round-leaved mallow	12.0	3.6	30.0	0.2	1.8	4.4	6.2
13	Lamb's-quarters	16.0	2.6	16.3	0.1	0.8	1.6	5.8
14	Stinkweed	12.0	2.8	23.3	0.2	1.5	3.4	5.4
15	Cleavers	8.0	2.6	32.5	0.2	2.7	5.2	4.7
16	Common groundsel	8.0	2.2	27.5	0.1	1.7	1.8	4.0
17	Dandelion	8.0	0.8	10.0	< 0.1	0.6	0.8	2.4
18	Broad-leaved plantain	4.0	1.4	35.0	0.1	1.8	1.8	2.2
19	Cow cockle	8.0	0.6	7.5	< 0.1	0.4	0.6	2.2
20	Pineappleweed	8.0	0.6	7.5	< 0.1	0.3	0.4	2.2
21	Field horsetail	4.0	0.6	15.0	< 0.1	0.6	0.6	1.4
22	Purslane	4.0	0.6	15.0	< 0.1	0.6	0.6	1.4
23	Prostrate knotweed	4.0	0.4	10.0	< 0.1	0.4	0.4	1.2
24	Bluebur	4.0	0.2	5.0	< 0.1	0.2	0.2	1.0
25	Russian pigweed	4.0	0.2	5.0	< 0.1	0.2	0.2	1.0

Table 59. Lac Ste Anne Upland Ecodistrict (684, 692, 622 & 623) in the Boreal Transition Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Chickweed	71.4	46.8	65.5	61.2	85.6	416.0	71.0
2	Wild buckwheat	71.4	41.1	57.5	11.0	15.4	85.8	32.8
3	Lamb's-quarters	35.7	17.5	49.0	20.8	58.3	268.8	26.4
4	Stinkweed	35.7	15.4	43.0	10.2	28.6	134.6	18.0
5	Pale smartweed	42.9	17.9	41.7	5.8	13.6	65.2	16.8
6	Hemp-nettle	50.0	18.6	37.1	2.6	5.1	18.6	15.7
7	Field horsetail	42.9	17.9	41.7	3.8	8.9	20.6	15.3
8	Quack grass	50.0	16.8	33.6	2.9	5.7	23.2	15.3
9	Dandelion	35.7	17.9	50.0	4.3	12.1	32.0	14.6
10	Wild oats	21.4	12.1	56.7	2.8	13.0	33.0	9.4
11	Canada thistle	35.7	8.6	24.0	0.7	2.1	8.2	8.8
12	White clover	7.1	6.8	95.0	6.9	96.6	96.6	8.4
13	Narrow-leaved hawk's-beard	28.6	8.2	28.8	1.4	4.9	18.4	8.1
14	Cleavers	21.4	8.6	40.0	1.6	7.5	20.6	7.3
15	Shepherd's-purse	21.4	5.7	26.7	0.6	2.9	6.6	5.6
16	Perennial sow-thistle	28.6	2.5	8.8	0.3	1.0	2.4	5.2
17	Volunteer alfalfa	14.3	5.7	40.0	0.8	5.8	10.0	4.7
18	Round-leaved mallow	14.3	5.7	40.0	0.7	4.9	9.6	4.6
19	Common groundsel	14.3	1.8	12.5	0.1	0.8	1.4	2.8
20	Wild mustard	7.1	2.9	40.0	0.1	1.6	1.6	2.1
21	Pineappleweed	7.1	1.4	20.0	0.1	1.4	1.4	1.6
22	Night-flowering catchfly	7.1	1.1	15.0	0.1	1.2	1.2	1.5
23	Green foxtail	7.1	1.1	15.0	< 0.1	0.6	0.6	1.5
24	Stork's-bill	7.1	1.1	15.0	< 0.1	0.6	0.6	1.5
25	Downy brome	7.1	0.4	5.0	0.1	0.8	0.8	1.2

Table 60. Onion Lake Plain Ecodistrict (687 & 688) in the Boreal Transition Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild buckwheat	65.5	31.6	48.2	6.1	9.3	78.6	50.1
2	Wild oats	62.1	27.9	45.0	6.5	10.5	77.2	49.1
3	Chickweed	41.4	21.4	51.7	3.0	7.3	26.4	29.3
4	Stinkweed	34.5	12.6	36.5	1.4	4.0	16.2	17.4
5	Pale smartweed	41.4	10.7	25.8	1.3	3.1	13.4	17.1
6	Canada thistle	58.6	8.3	14.1	0.6	1.0	3.4	15.8
7	Green foxtail	31.0	8.1	26.1	1.1	3.4	17.8	13.2
8	Shepherd's-purse	31.0	6.6	21.1	1.0	3.1	20.6	11.9
9	Lamb's-quarters	37.9	5.3	14.1	0.5	1.4	7.0	10.7
10	Volunteer wheat	13.8	7.2	52.5	1.1	8.0	16.4	10.2
11	Perennial sow-thistle	27.6	6.6	23.8	0.4	1.4	4.2	9.3
12	Field horsetail	17.2	4.3	25.0	1.0	5.8	26.0	8.8
13	Volunteer canola	20.7	5.7	27.5	0.5	2.6	7.4	8.3
14	Hemp-nettle	31.0	4.1	13.3	0.3	1.0	3.8	8.2
15	Cleavers	20.7	5.7	27.5	0.5	2.4	5.8	8.1
16	Quack grass	31.0	3.4	11.1	0.2	0.7	2.2	7.5
17	Narrow-leaved hawk's-beard	17.2	5.2	30.0	0.5	2.7	6.8	7.2
18	Stork's-bill	10.3	2.6	25.0	0.2	2.2	5.4	3.9
19	Dandelion	13.8	1.0	7.5	< 0.1	0.3	0.4	2.8
20	Ball mustard	3.4	1.6	45.0	0.2	5.6	5.6	2.1
21	White cockle	10.3	0.5	5.0	< 0.1	0.3	0.4	2.0
22	Common groundsel	6.9	0.5	7.5	< 0.1	0.5	0.8	1.5
23	Kochia	3.4	0.9	25.0	0.1	2.8	2.8	1.4
24	Volunteer barley	3.4	0.5	15.0	< 0.1	1.4	1.4	1.0
25	Wild mustard	3.4	0.2	5.0	< 0.1	0.2	0.2	0.6
26	Redroot pigweed	3.4	0.2	5.0	< 0.1	0.2	0.2	0.6
27	Broad-leaved plantain	3.4	0.2	5.0	< 0.1	0.2	0.2	0.6
28	Volunteer alfalfa	3.4	0.2	5.0	< 0.1	0.2	0.2	0.6
29	White clover	3.4	0.2	5.0	< 0.1	0.2	0.2	0.6

Table 61. Caroline Plain Ecodistrict (708, 703 & 630) in the Boreal Transition Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Chickweed	85.7	62.5	72.9	26.5	30.9	110.6	57.7
2	Wild buckwheat	71.4	33.6	47.0	11.0	15.4	102.4	30.6
3	Hemp-nettle	57.1	30.0	52.5	8.3	14.5	75.4	24.8
4	Quack grass	35.7	16.4	46.0	9.9	27.6	114.0	19.9
5	Wild oats	57.1	16.1	28.1	6.8	12.0	77.4	19.1
6	Dandelion	57.1	21.4	37.5	4.4	7.7	43.8	18.0
7	Stinkweed	35.7	16.8	47.0	2.7	7.7	26.8	12.3
8	Corn spurry	35.7	16.4	46.0	2.3	6.4	19.6	11.7
9	Annual sow-thistle	42.9	12.9	30.0	2.2	5.1	18.4	11.4
10	Volunteer canola	28.6	13.6	47.5	2.4	8.4	20.6	10.1
11	White clover	21.4	12.9	60.0	2.8	13.2	24.0	9.5
12	Redroot pigweed	21.4	8.2	38.3	3.9	18.3	54.2	9.3
13	Lamb's-quarters	35.7	10.7	30.0	0.8	2.3	6.6	8.4
14	Rough cinquefoil	7.1	7.1	100.0	2.8	38.6	38.6	6.0
15	Cleavers	14.3	6.8	47.5	1.8	12.9	25.6	5.8
16	Canada thistle	28.6	4.6	16.3	0.3	1.2	2.0	5.2
17	Vetch species	21.4	5.4	25.0	0.6	2.7	5.4	4.8
18	Shepherd's-purse	21.4	4.6	21.7	0.7	3.3	8.6	4.7
19	Pale smartweed	21.4	5.4	25.0	0.5	2.1	5.6	4.7
20	Field horsetail	14.3	4.3	30.0	0.6	4.0	5.0	3.6
21	Stork's-bill	14.3	2.9	20.0	0.1	0.9	1.2	2.7
22	Broad-leaved plantain	14.3	2.1	15.0	0.1	1.0	1.0	2.5
23	Wild mustard	7.1	3.9	55.0	0.3	4.6	4.6	2.4
24	Volunteer barley	7.1	2.9	40.0	0.3	3.6	3.6	2.0
25	Aspen poplar	14.3	0.7	5.0	< 0.1	0.3	0.4	2.0
26	Narrow-leaved hawk's-beard	14.3	0.7	5.0	< 0.1	0.2	0.2	2.0
27	Night-flowering catchfly	7.1	2.5	35.0	0.3	3.6	3.6	1.9
28	Volunteer alfalfa	7.1	2.5	35.0	0.2	2.4	2.4	1.8
29	Bluebur	7.1	0.7	10.0	< 0.1	0.6	0.6	1.1
30	White cockle	7.1	0.7	10.0	< 0.1	0.4	0.4	1.1
31	Common groundsel	7.1	0.4	5.0	< 0.1	0.2	0.2	1.0
32	Pineappleweed	7.1	0.4	5.0	< 0.1	0.2	0.2	1.0
33	Volunteer wheat	7.1	0.4	5.0	< 0.1	0.2	0.2	1.0

Table 62. Leduc Plain Ecodistrict (727) in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Chickweed	62.5	35.2	56.4	40.2	64.3	1727.2	82.2
2	Wild buckwheat	67.2	25.7	38.3	4.3	6.4	79.2	30.3
3	Wild oats	42.2	16.6	39.4	9.6	22.8	379.6	28.6
4	Canada thistle	46.9	14.9	31.8	1.8	3.8	16.4	18.0
5	Cleavers	32.8	11.3	34.3	1.6	5.0	23.6	13.5
6	Hemp-nettle	35.9	9.8	27.2	1.7	4.8	37.0	13.4
7	Volunteer canola	28.1	7.7	27.2	3.1	11.1	143.2	12.9
8	Pale smartweed	32.8	8.8	26.9	1.9	5.8	43.2	12.6
9	Stinkweed	26.6	8.5	32.1	1.0	3.7	17.8	10.2
10	Perennial sow-thistle	29.7	6.9	23.2	0.6	1.9	8.4	9.3
11	Dandelion	25.0	5.9	23.4	0.7	2.8	16.6	8.2
12	Field horsetail	17.2	3.8	21.8	0.5	3.1	16.2	5.5
13	Corn spurry	6.3	3.1	50.0	1.4	22.2	71.0	4.5
14	Shepherd's-purse	14.1	3.0	21.7	0.3	2.4	15.0	4.4
15	Annual sow-thistle	9.4	3.4	36.7	0.8	8.3	33.8	4.4
16	Spiny annual sow-thistle	3.1	2.9	92.5	1.8	56.3	83.6	4.4
17	Lamb's-quarters	12.5	2.3	18.1	0.3	2.3	8.4	3.7
18	Green foxtail	7.8	2.6	33.0	0.5	6.8	28.6	3.4
19	Pineappleweed	9.4	1.8	19.2	0.6	6.8	32.6	3.3
20	Narrow-leaved hawk's-beard	14.1	1.6	11.7	0.1	0.7	2.0	3.3
21	Volunteer alfalfa	4.7	2.7	56.7	0.4	8.1	18.0	2.7
22	White clover	7.8	1.9	24.0	0.2	2.4	8.6	2.5
23	Stork's-bill	3.1	1.6	50.0	0.6	20.3	40.0	2.2
24	Volunteer wheat	4.7	1.5	31.7	0.2	5.2	11.2	1.9
25	Quack grass	7.8	0.9	12.0	0.1	0.8	2.2	1.9
26	Common groundsel	7.8	0.6	8.0	< 0.1	0.5	0.8	1.7
27	Wild mustard	7.8	0.6	8.0	< 0.1	0.4	0.6	1.7
28	Wormseed mustard	1.6	1.4	90.0	0.4	25.6	25.6	1.5
29	White cockle	6.3	0.5	7.5	< 0.1	0.5	1.2	1.3
30	Alsike clover	1.6	1.0	65.0	0.1	6.0	6.0	0.9
31	Volunteer barley	3.1	0.5	17.5	< 0.1	0.9	1.0	0.8
32	Bluebur	3.1	0.2	7.5	< 0.1	0.7	1.0	0.7
33	Round-leaved mallow	1.6	0.5	35.0	0.1	3.4	3.4	0.6
34	Yellow toadflax	1.6	0.5	30.0	0.1	4.6	4.6	0.6
35	Scentless chamomile	1.6	0.2	15.0	< 0.1	1.6	1.6	0.4
36	Flixweed	1.6	0.2	15.0	< 0.1	0.8	0.8	0.4
37	Field bindweed	1.6	0.2	10.0	< 0.1	0.4	0.4	0.4
38	Night-flowering catchfly	1.6	0.2	10.0	< 0.1	0.4	0.4	0.4
39	Broad-leaved plantain	1.6	0.2	10.0	< 0.1	0.4	0.4	0.4
40	Dog mustard	1.6	0.1	5.0	< 0.1	1.0	1.0	0.3
41	Small-seeded false flax	1.6	0.1	5.0	< 0.1	0.8	0.8	0.3
42	Prickly lettuce	1.6	0.1	5.0	< 0.1	0.2	0.2	0.3

Table 63. Andrew Plain Ecodistrict (728) in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Chickweed	37.5	28.4	75.8	14.0	37.4	150.8	59.8
2	Wild buckwheat	59.4	26.7	45.0	4.2	7.0	36.4	37.8
3	Wild oats	25.0	13.0	51.9	4.2	17.0	71.8	23.3
4	Quack grass	31.3	10.8	34.5	1.8	5.9	44.6	17.1
5	Lamb's-quarters	40.6	9.2	22.7	1.2	3.0	20.4	16.5
6	Cleavers	25.0	11.1	44.4	2.0	7.9	26.6	16.4
7	Hemp-nettle	28.1	9.2	32.8	1.8	6.4	23.2	15.5
8	Canada thistle	46.9	7.8	16.7	0.6	1.3	6.0	15.5
9	Stinkweed	21.9	7.7	35.0	1.3	6.0	30.2	12.1
10	Volunteer canola	12.5	8.0	63.8	1.6	12.4	23.8	11.0
11	Perennial sow-thistle	21.9	4.5	20.7	0.8	3.8	24.4	9.1
12	Shepherd's-purse	12.5	5.5	43.8	1.3	10.3	31.2	8.9
13	Field horsetail	18.8	2.7	14.2	0.2	1.2	3.4	5.8
14	Volunteer wheat	12.5	3.8	30.0	0.5	3.7	10.8	5.8
15	Narrow-leaved hawk's-beard	15.6	2.3	15.0	0.2	1.5	2.4	5.1
16	Ball mustard	6.3	2.5	40.0	0.9	14.6	28.8	5.0
17	Volunteer barley	15.6	2.2	14.0	0.2	1.1	1.8	4.8
18	Green foxtail	6.3	2.7	42.5	0.3	4.3	6.8	3.5
19	Pale smartweed	6.3	1.9	30.0	0.3	4.5	7.4	3.0
20	Stork's-bill	6.3	1.7	27.5	0.3	4.1	6.6	2.9
21	Common groundsel	6.3	2.2	35.0	0.1	2.2	3.0	2.9
22	Corn spurry	6.3	1.3	20.0	0.3	5.0	8.6	2.8
23	Bluebur	3.1	2.2	70.0	0.3	9.2	9.2	2.6
24	Knawel	6.3	1.6	25.0	0.2	2.8	3.4	2.6
25	Pineappleweed	6.3	1.4	22.5	0.1	1.8	2.0	2.3
26	Dandelion	3.1	1.3	40.0	0.1	1.8	1.8	1.5
27	Wild mustard	3.1	0.9	30.0	< 0.1	1.2	1.2	1.3
28	Rose species	3.1	0.9	30.0	< 0.1	1.2	1.2	1.3
29	Night-flowering catchfly	3.1	0.8	25.0	0.1	2.0	2.0	1.2
30	White clover	3.1	0.3	10.0	0.1	2.0	2.0	1.0
31	Foxtail barley	3.1	0.3	10.0	< 0.1	0.6	0.6	0.9
32	Volunteer peas	3.1	0.2	5.0	< 0.1	0.2	0.2	0.7

Table 64. Lloydminster Plain Ecodistrict (729) in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Wild oats	84.0	37.8	45.0	5.7	6.7	53.2	61.9
2	Wild buckwheat	84.0	39.6	47.1	5.2	6.2	40.0	60.8
3	Volunteer wheat	40.0	14.6	36.5	1.4	3.5	16.4	21.1
4	Canada thistle	40.0	10.2	25.5	1.0	2.5	7.0	16.7
5	Perennial sow-thistle	52.0	8.8	16.9	0.7	1.3	5.8	16.1
6	Lamb's-quarters	40.0	8.6	21.5	0.7	1.8	9.4	14.4
7	Hemp-nettle	28.0	5.8	20.7	0.4	1.4	3.2	9.4
8	Cleavers	24.0	5.4	22.5	0.4	1.7	3.0	8.6
9	Stinkweed	32.0	4.2	13.1	0.3	0.9	3.4	8.6
10	Narrow-leaved hawk's-beard	32.0	4.2	13.1	0.3	0.8	4.2	8.4
11	Shepherd's-purse	36.0	3.0	8.3	0.2	0.5	2.4	7.9
12	Green foxtail	8.0	4.6	57.5	0.7	8.8	14.8	7.3
13	Field horsetail	12.0	3.0	25.0	0.7	5.9	16.0	7.0
14	Chickweed	16.0	3.4	21.3	0.3	2.2	4.8	6.0
15	Volunteer canola	16.0	2.8	17.5	0.1	0.9	1.6	4.7
16	Volunteer barley	8.0	3.0	37.5	0.3	4.0	4.8	4.5
17	Volunteer oats	4.0	1.8	45.0	0.5	12.6	12.6	4.1
18	White clover	12.0	2.6	21.7	0.1	1.0	1.6	3.8
19	Common groundsel	12.0	2.2	18.3	0.1	1.1	3.0	3.7
20	Pale smartweed	8.0	2.2	27.5	0.2	2.9	3.0	3.6
21	Rose species	12.0	0.8	6.7	< 0.1	0.4	0.6	2.5
22	Dandelion	12.0	0.6	5.0	< 0.1	0.2	0.2	2.2
23	Quack grass	8.0	1.0	12.5	0.1	1.2	2.0	2.2
24	Yellow toadflax	4.0	0.8	20.0	0.2	4.4	4.4	1.9
25	Stork's-bill	8.0	0.6	7.5	< 0.1	0.5	0.8	1.7
26	Field bindweed	8.0	0.6	7.5	< 0.1	0.3	0.4	1.6
27	Redroot pigweed	4.0	0.8	20.0	0.1	1.4	1.4	1.3
28	Volunteer fall rye	4.0	0.4	10.0	0.1	2.2	2.2	1.3
29	Ball mustard	4.0	0.8	20.0	< 0.1	0.8	0.8	1.2
30	Smooth brome	4.0	0.6	15.0	< 0.1	1.2	1.2	1.2
31	Downy brome	4.0	0.2	5.0	0.1	1.8	1.8	1.1
32	Foxtail barley	4.0	0.4	10.0	< 0.1	0.6	0.6	0.9
33	Ground-ivy	4.0	0.2	5.0	< 0.1	0.2	0.2	0.7
34	Knawel	4.0	0.2	5.0	< 0.1	0.2	0.2	0.7
35	Wild tomato	4.0	0.2	5.0	< 0.1	0.2	0.2	0.7

Table 65. Vermilion Upland Ecodistrict (730) in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Wild buckwheat	71.6	33.3	46.5	4.4	6.1	30.2	56.9
2	Wild oats	52.2	22.6	43.3	4.0	7.7	39.2	44.5
3	Green foxtail	23.9	9.1	38.1	2.7	11.5	41.2	23.8
4	Canada thistle	46.3	9.8	21.1	0.9	2.0	9.8	19.6
5	Volunteer wheat	22.4	9.3	41.7	1.3	5.8	32.2	16.7
6	Quack grass	32.8	6.7	20.5	1.1	3.3	33.8	15.9
7	Lamb's-quarters	38.8	7.6	19.6	0.6	1.6	9.4	15.4
8	Stinkweed	34.3	6.9	20.0	0.7	2.2	17.2	14.7
9	Cleavers	25.4	8.1	32.1	0.9	3.5	12.2	14.6
10	Shepherd's-purse	32.8	6.4	19.5	0.8	2.3	7.2	14.1
11	Perennial sow-thistle	28.4	4.5	15.8	0.4	1.5	11.6	10.4
12	Chickweed	14.9	3.9	26.0	0.6	4.3	15.6	8.5
13	Narrow-leaved hawk's-beard	14.9	3.9	26.0	0.3	2.1	7.2	6.9
14	Hemp-nettle	13.4	1.7	12.8	0.2	1.2	3.6	4.4
15	Volunteer barley	7.5	2.0	27.0	0.3	4.3	16.8	4.3
16	Volunteer canola	13.4	1.7	12.8	0.1	0.6	2.8	4.1
17	Pale smartweed	9.0	1.7	19.2	0.2	2.2	4.6	3.8
18	Common groundsel	7.5	1.8	24.0	0.2	2.6	7.2	3.5
19	Dandelion	11.9	1.2	10.0	0.1	0.5	1.6	3.3
20	Stork's-bill	6.0	1.3	21.3	0.2	3.3	9.4	2.9
21	Field horsetail	7.5	1.0	14.0	0.1	1.5	4.4	2.6
22	Volunteer flax	1.5	0.7	50.0	0.2	14.0	14.0	1.8
23	Russian thistle	1.5	0.8	55.0	0.2	12.8	12.8	1.8
24	Rose species	1.5	0.4	25.0	0.1	5.6	5.6	0.9
25	Redroot pigweed	3.0	0.1	5.0	< 0.1	0.9	1.0	0.8
26	Pineappleweed	3.0	0.1	5.0	< 0.1	0.3	0.4	0.7
27	Ball mustard	1.5	0.1	10.0	< 0.1	0.6	0.6	0.4
28	White cockle	1.5	0.1	10.0	< 0.1	0.4	0.4	0.4
29	Flixweed	1.5	0.1	10.0	< 0.1	0.4	0.4	0.4
30	Wild mustard	1.5	0.1	10.0	< 0.1	0.4	0.4	0.4
31	Field bindweed	1.5	0.1	5.0	< 0.1	0.4	0.4	0.4
32	Prostrate knotweed	1.5	0.1	5.0	< 0.1	0.2	0.2	0.3
33	Alsike clover	1.5	0.1	5.0	< 0.1	0.2	0.2	0.3
34	White clover	1.5	0.1	5.0	< 0.1	0.2	0.2	0.3

Table 66. Daysland Plain Ecodistrict (731 & 732) in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild buckwheat	61.7	29.4	47.6	4.5	7.4	45.2	40.9
2	Wild oats	60.5	21.8	36.0	3.3	5.5	37.6	32.6
3	Canada thistle	70.4	20.1	28.5	1.9	2.7	29.4	28.6
4	Pale smartweed	42.0	15.1	36.0	4.0	9.6	98.4	28.0
5	Shepherd's-purse	37.0	11.9	32.2	2.0	5.5	42.4	19.2
6	Stinkweed	43.2	8.6	20.0	0.9	2.2	19.0	14.8
7	Chickweed	18.5	5.2	28.0	1.6	8.9	64.2	11.1
8	Quack grass	22.2	5.9	26.4	1.1	4.9	35.6	10.4
9	Lamb's-quarters	28.4	6.2	21.7	0.7	2.5	17.0	10.3
10	Green foxtail	13.6	5.0	36.8	1.3	9.3	40.0	9.0
11	Perennial sow-thistle	27.2	5.6	20.7	0.4	1.6	5.8	9.0
12	Pineappleweed	19.8	4.4	22.5	0.8	4.1	23.8	8.2
13	Corn spurry	1.2	1.2	95.0	2.3	182.4	182.4	8.0
14	Volunteer barley	9.9	4.1	41.9	1.2	12.4	71.4	7.8
15	Cleavers	19.8	4.2	21.3	0.3	1.6	6.4	6.6
16	Volunteer wheat	12.3	4.5	36.5	0.6	4.5	10.0	6.3
17	Redroot pigweed	11.1	2.0	17.8	0.9	7.8	30.2	5.7
18	Low cudweed	1.2	1.2	95.0	1.5	121.2	121.2	5.6
19	Dandelion	21.0	2.7	12.9	0.2	0.8	4.4	5.4
20	Common groundsel	17.3	2.9	16.8	0.2	1.1	7.0	5.0
21	Hemp-nettle	14.8	2.6	17.5	0.2	1.5	9.0	4.6
22	Volunteer canola	8.6	2.7	30.7	0.2	2.3	5.6	3.5
23	Annual sow-thistle	8.6	2.2	25.0	0.2	2.0	4.0	3.2
24	Narrow-leaved hawk's-beard	9.9	1.6	16.3	0.2	1.5	8.2	3.0
25	Stork's-bill	4.9	2.3	46.3	0.2	3.5	8.8	2.6
26	Scentless chamomile	7.4	1.4	19.2	0.2	2.3	9.6	2.5
27	Field horsetail	4.9	0.4	8.8	< 0.1	0.8	1.6	1.2
28	Foxtail barley	1.2	0.3	25.0	0.2	19.8	19.8	1.2
29	Wild chamomile	2.5	0.5	20.0	0.1	3.2	4.4	0.9
30	Tartary buckwheat	1.2	0.7	60.0	0.1	6.2	6.2	0.9
31	Bluebur	2.5	0.2	10.0	< 0.1	0.6	1.0	0.6
32	Flixweed	2.5	0.2	7.5	< 0.1	0.5	0.8	0.5
33	Prostrate knotweed	1.2	0.3	25.0	< 0.1	1.6	1.6	0.4
34	Absinth	1.2	0.1	10.0	< 0.1	2.0	2.0	0.3
35	Ball mustard	1.2	0.1	10.0	< 0.1	0.8	0.8	0.3
36	Yellow toadflax	1.2	0.1	10.0	< 0.1	0.6	0.6	0.3
37	White clover	1.2	0.1	10.0	< 0.1	0.6	0.6	0.3
38	Night-flowering catchfly	1.2	0.1	10.0	< 0.1	0.4	0.4	0.3
39	Tansy	1.2	0.1	10.0	< 0.1	0.4	0.4	0.3
40	Rough cinquefoil	1.2	0.1	5.0	< 0.1	1.0	1.0	0.3
41	Volunteer peas	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2

Table 67. Red Deer Plain Ecodistrict (737) in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	75.0	52.1	69.4	34.3	45.7	170.4	99.2
2	Wild oats	50.0	20.4	40.8	5.2	10.4	48.8	28.5
3	Annual sow-thistle	50.0	20.2	40.4	3.5	7.1	31.0	25.5
4	Wild buckwheat	45.8	16.0	35.0	2.0	4.5	22.2	20.0
5	Canada thistle	45.8	11.7	25.5	1.7	3.8	24.2	17.3
6	Cleavers	29.2	12.1	41.4	1.8	6.0	25.2	14.5
7	Hemp-nettle	20.8	11.3	54.0	1.5	7.2	17.0	12.1
8	Lamb's-quarters	12.5	9.6	76.7	1.9	15.2	26.8	10.4
9	Quack grass	29.2	3.8	12.9	0.4	1.3	4.0	7.9
10	Stinkweed	20.8	4.0	19.0	0.7	3.2	14.4	7.0
11	Volunteer canola	16.7	5.4	32.5	0.6	3.8	8.6	6.9
12	Dandelion	20.8	4.2	20.0	0.3	1.4	5.8	6.5
13	Stork's-bill	8.3	4.8	57.5	1.0	12.5	23.8	5.7
14	Pale smartweed	20.8	2.7	13.0	0.2	1.0	3.0	5.6
15	Volunteer wheat	8.3	4.0	47.5	1.1	12.8	25.4	5.4
16	Perennial sow-thistle	12.5	4.4	35.0	0.3	2.5	3.0	5.1
17	Aspen poplar	12.5	2.3	18.3	0.4	2.9	7.6	4.1
18	Volunteer barley	8.3	2.9	35.0	0.3	3.5	6.8	3.5
19	Field horsetail	12.5	1.3	10.0	0.1	0.7	1.6	3.1
20	Shepherd's-purse	12.5	1.3	10.0	0.1	0.6	1.4	3.1
21	Night-flowering catchfly	4.2	2.3	55.0	0.4	10.0	10.0	2.6
22	Common groundsel	4.2	0.6	15.0	0.1	1.4	1.4	1.2
23	Corn spurry	4.2	0.6	15.0	< 0.1	0.8	0.8	1.1
24	Yellow toadflax	4.2	0.6	15.0	< 0.1	0.8	0.8	1.1
25	Broad-leaved plantain	4.2	0.4	10.0	< 0.1	0.4	0.4	1.0
26	Green foxtail	4.2	0.2	5.0	0.1	1.2	1.2	1.0
27	Two-grooved milk-vetch	4.2	0.2	5.0	< 0.1	0.2	0.2	0.9

Table 68. Sedgewick Plain Ecodistrict (738) in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild oats	100.0	63.1	63.1	29.8	29.8	167.0	68.8
2	Wild buckwheat	66.7	38.9	58.3	16.1	24.2	101.0	40.5
3	Stinkweed	44.4	20.3	45.6	14.0	31.6	203.2	28.5
4	Green foxtail	44.4	25.8	58.1	7.1	15.9	70.8	22.9
5	Shepherd's-purse	50.0	21.4	42.8	7.4	14.8	90.4	22.4
6	Lamb's-quarters	66.7	11.4	17.1	1.0	1.5	10.6	13.7
7	Canada thistle	50.0	13.9	27.8	1.7	3.4	9.8	13.3
8	Narrow-leaved hawk's-beard	33.3	11.1	33.3	3.7	11.0	55.6	12.4
9	Common groundsel	44.4	9.2	20.6	1.1	2.4	14.2	10.2
10	Pale smartweed	33.3	10.8	32.5	1.1	3.3	11.6	9.4
11	Cleavers	27.8	7.5	27.0	1.6	5.7	26.0	8.0
12	Perennial sow-thistle	27.8	6.9	25.0	1.1	4.1	10.8	7.3
13	Annual sow-thistle	11.1	6.9	62.5	2.8	24.8	48.0	7.0
14	Quack grass	33.3	2.2	6.7	0.4	1.2	4.2	5.5
15	Dandelion	22.2	2.8	12.5	0.2	0.7	1.2	4.0
16	Ball mustard	11.1	4.4	40.0	0.7	6.3	12.4	3.8
17	Stork's-bill	16.7	2.8	16.7	0.2	1.1	2.2	3.3
18	Volunteer canola	16.7	2.5	15.0	0.2	0.9	1.8	3.2
19	Volunteer wheat	11.1	2.2	20.0	0.2	2.1	3.4	2.5
20	Pineappleweed	11.1	0.6	5.0	< 0.1	0.4	0.6	1.7
21	Scentless chamomile	5.6	1.4	25.0	0.3	6.2	6.2	1.6
22	Wild tomato	5.6	0.8	15.0	< 0.1	0.6	0.6	1.0
23	Round-leaved mallow	5.6	0.6	10.0	0.1	1.0	1.0	1.0
24	American dragonhead	5.6	0.6	10.0	< 0.1	0.4	0.4	0.9
25	Flixweed	5.6	0.6	10.0	< 0.1	0.4	0.4	0.9
26	Wild mustard	5.6	0.6	10.0	< 0.1	0.4	0.4	0.9
27	Wood whitlow-grass	5.6	0.6	10.0	< 0.1	0.4	0.4	0.9
28	Foxtail barley	5.6	0.3	5.0	< 0.1	0.4	0.4	0.8
29	Rose species	5.6	0.3	5.0	< 0.1	0.4	0.4	0.8
30	Chickweed	5.6	0.3	5.0	< 0.1	0.2	0.2	0.8
31	Hemp-nettle	5.6	0.3	5.0	< 0.1	0.2	0.2	0.8
32	Redroot pigweed	5.6	0.3	5.0	< 0.1	0.2	0.2	0.8

Table 69. Bashaw Upland Ecodistrict (740) in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Pale smartweed	30.4	20.4	67.1	14.8	48.7	145.2	52.4
2	Wild buckwheat	60.9	30.4	50.0	4.9	8.0	29.0	39.4
3	Canada thistle	78.3	27.2	34.7	2.7	3.5	11.0	35.6
4	Annual sow-thistle	43.5	9.1	21.0	5.4	12.4	116.2	25.9
5	Wild oats	47.8	17.8	37.3	3.1	6.4	21.4	25.8
6	Cleavers	30.4	12.0	39.3	1.9	6.4	27.6	16.7
7	Perennial sow-thistle	21.7	13.0	60.0	1.4	6.4	10.0	14.4
8	Quack grass	30.4	7.4	24.3	1.7	5.7	21.8	13.8
9	Hemp-nettle	26.1	9.3	35.8	1.2	4.5	18.4	12.6
10	Dandelion	30.4	4.1	13.6	0.2	0.7	2.0	8.3
11	Green foxtail	17.4	4.8	27.5	1.0	5.7	20.0	8.2
12	Chickweed	17.4	3.9	22.5	0.5	2.8	5.6	6.5
13	Volunteer oats	8.7	4.6	52.5	1.0	11.1	22.0	6.4
14	Shepherd's-purse	26.1	2.2	8.3	0.2	0.6	2.6	6.3
15	Stork's-bill	13.0	5.2	40.0	0.3	2.2	3.6	5.9
16	Stinkweed	13.0	1.5	11.7	0.1	0.6	1.2	3.4
17	Volunteer canola	8.7	2.0	22.5	0.2	2.4	3.6	3.2
18	Lamb's-quarters	8.7	1.3	15.0	0.3	3.2	6.2	3.0
19	Common groundsel	4.3	2.4	55.0	0.1	3.4	3.4	2.4
20	Rough cinquefoil	4.3	1.7	40.0	0.3	6.0	6.0	2.4
21	Redroot pigweed	4.3	1.3	30.0	0.1	1.2	1.2	1.6
22	Wild chamomile	4.3	0.9	20.0	< 0.1	0.8	0.8	1.3
23	Pineappleweed	4.3	0.7	15.0	0.1	1.6	1.6	1.3
24	Volunteer wheat	4.3	0.7	15.0	< 0.1	0.8	0.8	1.2
25	Spiny annual sow-thistle	4.3	0.4	10.0	< 0.1	0.4	0.4	1.1
26	Wild mustard	4.3	0.2	5.0	< 0.1	0.2	0.2	0.9

Table 70. Provost Plain Ecodistrict (743 & 739) in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Green foxtail	50.0	25.0	50.0	29.4	58.9	271.2	90.7
2	Wild buckwheat	70.0	30.3	43.2	7.7	11.0	112.2	50.3
3	Wild oats	55.0	9.8	17.7	1.2	2.2	12.8	18.5
4	Lamb's-quarters	50.0	9.3	18.5	1.4	2.8	10.4	17.8
5	Redroot pigweed	45.0	8.3	18.3	1.2	2.6	16.2	15.8
6	Canada thistle	45.0	5.3	11.7	0.7	1.5	3.6	12.4
7	Stinkweed	45.0	5.3	11.7	0.4	0.8	1.4	11.7
8	Quack grass	30.0	5.8	19.2	0.6	2.1	7.6	10.4
9	Shepherd's-purse	25.0	6.5	26.0	0.6	2.4	8.8	10.1
10	Volunteer wheat	15.0	5.0	33.3	1.1	7.4	21.4	8.5
11	Russian thistle	25.0	4.5	18.0	0.2	1.0	2.2	7.8
12	Kochia	25.0	2.5	10.0	0.3	1.1	2.8	6.4
13	Volunteer canola	20.0	3.5	17.5	0.2	1.2	2.0	6.2
14	Perennial sow-thistle	25.0	1.8	7.0	0.1	0.3	0.6	5.4
15	Stork's-bill	10.0	2.5	25.0	0.2	1.7	3.0	3.8
16	Cleavers	5.0	2.8	55.0	0.2	4.0	4.0	3.3
17	Volunteer barley	15.0	0.8	5.0	< 0.1	0.2	0.2	3.0
18	Showy milkweed	10.0	0.8	7.5	0.1	0.5	0.8	2.2
19	Yellow toadflax	10.0	0.5	5.0	0.1	0.5	0.6	2.0
20	Dandelion	10.0	0.5	5.0	< 0.1	0.2	0.2	2.0
21	Rose species	10.0	0.5	5.0	< 0.1	0.2	0.2	2.0
22	Flixweed	5.0	0.8	15.0	< 0.1	0.6	0.6	1.4
23	Hemp-nettle	5.0	0.5	10.0	0.1	1.2	1.2	1.3
24	Round-leaved mallow	5.0	0.3	5.0	0.1	1.0	1.0	1.1
25	Bluebur	5.0	0.3	5.0	< 0.1	0.2	0.2	1.0
26	Chickweed	5.0	0.3	5.0	< 0.1	0.2	0.2	1.0
27	Field horsetail	5.0	0.3	5.0	< 0.1	0.2	0.2	1.0
28	Dog mustard	5.0	0.3	5.0	< 0.1	0.2	0.2	1.0
29	Wild mustard	5.0	0.3	5.0	< 0.1	0.2	0.2	1.0
30	Volunteer alfalfa	5.0	0.3	5.0	< 0.1	0.2	0.2	1.0

Table 71. Pine Lake Upland Ecodistrict (744) in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Chickweed	56.7	31.7	55.9	21.9	38.6	203.2	56.8
2	Annual sow-thistle	70.0	40.3	57.6	7.2	10.3	47.2	36.2
3	Wild oats	60.0	30.5	50.8	9.0	15.0	165.8	34.4
4	Wild buckwheat	73.3	36.5	49.8	4.6	6.3	33.8	30.6
5	Canada thistle	63.3	16.5	26.1	1.5	2.4	11.4	16.7
6	Cleavers	43.3	16.8	38.8	2.2	5.0	18.2	15.4
7	Shepherd's-purse	50.0	13.7	27.3	2.0	4.1	31.2	14.8
8	Stinkweed	50.0	14.3	28.7	1.3	2.7	11.4	13.9
9	Dandelion	33.3	7.0	21.0	0.6	1.7	9.0	7.7
10	Volunteer canola	23.3	8.5	36.4	0.9	3.8	17.2	7.6
11	Hemp-nettle	36.7	5.8	15.9	0.3	0.9	4.6	7.3
12	Lamb's-quarters	16.7	5.3	32.0	0.5	3.0	11.4	4.9
13	Quack grass	20.0	3.8	19.2	0.6	2.8	11.0	4.9
14	Pale smartweed	20.0	3.8	19.2	0.3	1.6	7.6	4.5
15	Perennial sow-thistle	13.3	4.5	33.8	0.5	3.7	8.0	4.2
16	Green foxtail	23.3	2.7	11.4	0.2	0.7	1.8	4.2
17	Volunteer alfalfa	3.3	3.3	100.0	1.2	35.8	35.8	3.7
18	Narrow-leaved hawk's-beard	20.0	2.3	11.7	0.2	0.9	2.8	3.7
19	Pineappleweed	3.3	3.0	90.0	0.7	20.4	20.4	2.7
20	White cockle	6.7	2.7	40.0	0.3	4.0	6.2	2.3
21	Volunteer barley	6.7	2.8	42.5	0.2	3.1	5.0	2.2
22	White clover	6.7	1.8	27.5	0.3	4.7	9.2	2.1
23	Volunteer wheat	6.7	1.8	27.5	0.3	4.1	8.0	2.0
24	Common groundsel	10.0	1.3	13.3	0.1	0.8	1.2	1.9
25	Yellow toadflax	10.0	0.8	8.3	0.2	1.6	3.0	1.8
26	Flixweed	10.0	1.0	10.0	0.1	1.1	2.4	1.8
27	Stork's-bill	10.0	1.2	11.7	0.1	0.6	1.0	1.8
28	Prostrate knotweed	6.7	2.0	30.0	0.1	1.8	2.4	1.8
29	Wild mustard	10.0	0.8	8.3	< 0.1	0.5	0.6	1.6
30	Round-leaved mallow	6.7	1.2	17.5	0.1	1.3	2.4	1.4
31	Field horsetail	6.7	0.3	5.0	< 0.1	0.3	0.4	1.0
32	Broad-leaved plantain	6.7	0.3	5.0	< 0.1	0.2	0.2	1.0
33	Rose species	3.3	0.3	10.0	< 0.1	0.8	0.8	0.6
34	Foxtail barley	3.3	0.2	5.0	< 0.1	0.2	0.2	0.5
35	Bluebur	3.3	0.2	5.0	< 0.1	0.2	0.2	0.5
36	Thyme-leaved spurge	3.3	0.2	5.0	< 0.1	0.2	0.2	0.5
37	Wood whitlow-grass	3.3	0.2	5.0	< 0.1	0.2	0.2	0.5
38	Biennial wormwood	3.3	0.2	5.0	< 0.1	0.2	0.2	0.5

Table 72. Olds Plain Ecodistrict (746) in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild buckwheat	77.3	38.0	49.1	14.9	19.3	175.0	66.4
2	Annual sow-thistle	54.5	18.6	34.2	15.9	29.2	275.2	51.3
3	Hemp-nettle	50.0	20.0	40.0	3.0	5.9	26.8	28.5
4	Chickweed	22.7	11.6	51.0	6.4	28.4	71.6	23.4
5	Canada thistle	54.5	13.4	24.6	1.7	3.1	15.6	23.3
6	Cleavers	22.7	12.7	56.0	5.6	24.8	95.0	22.6
7	Quack grass	36.4	12.3	33.8	4.0	11.0	55.0	22.6
8	Wild oats	18.2	8.0	43.8	0.8	4.3	8.4	10.3
9	Stinkweed	18.2	5.5	30.0	0.8	4.6	15.2	8.8
10	Shepherd's-purse	9.1	6.1	67.5	1.5	16.7	31.2	8.4
11	Lamb's-quarters	13.6	3.9	28.3	1.0	7.3	20.4	7.1
12	Perennial sow-thistle	13.6	4.3	31.7	0.3	1.9	4.0	6.1
13	Volunteer barley	4.5	4.3	95.0	0.7	15.0	15.0	4.8
14	Common groundsel	18.2	0.9	5.0	0.1	0.3	0.6	4.7
15	Volunteer canola	9.1	2.3	25.0	0.1	1.6	2.0	3.7
16	Redroot pigweed	9.1	1.8	20.0	0.1	1.3	2.4	3.3
17	Henbit	4.5	1.1	25.0	0.2	3.4	3.4	2.0
18	Dandelion	4.5	0.7	15.0	0.1	1.2	1.2	1.5
19	Round-leaved mallow	4.5	0.2	5.0	< 0.1	0.2	0.2	1.2

Table 73. Black Diamond Upland Ecodistrict (750) in the Aspen Parkland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Chickweed	25.0	17.9	71.7	17.7	70.9	184.0	54.5
2	Stinkweed	58.3	25.8	44.3	3.2	5.5	15.4	33.6
3	Volunteer barley	25.0	20.0	80.0	6.9	27.6	42.6	31.9
4	Wild oats	50.0	16.3	32.5	5.3	10.6	39.8	30.9
5	Canada thistle	50.0	17.5	35.0	2.3	4.5	12.6	24.9
6	Lamb's-quarters	50.0	10.4	20.8	1.0	2.0	7.6	18.0
7	Dandelion	50.0	10.8	21.7	0.8	1.6	5.4	17.7
8	Annual sow-thistle	25.0	7.9	31.7	3.0	12.1	35.2	16.1
9	Wild buckwheat	41.7	8.3	20.0	1.4	3.3	13.2	15.9
10	Hemp-nettle	25.0	12.5	50.0	1.3	5.0	9.2	15.0
11	Quack grass	25.0	6.7	26.7	1.3	5.1	11.2	11.6
12	Kochia	25.0	2.1	8.3	0.1	0.4	0.8	6.2
13	Flixweed	8.3	4.6	55.0	0.7	8.0	8.0	5.8
14	Narrow-leaved hawk's-beard	16.7	1.3	7.5	0.1	0.3	0.4	4.0
15	Russian pigweed	8.3	2.5	30.0	0.2	2.4	2.4	3.5
16	Leafy spurge	8.3	0.8	10.0	0.2	2.0	2.0	2.5
17	Volunteer canola	8.3	0.8	10.0	0.1	0.6	0.6	2.2
18	Redroot pigweed	8.3	0.4	5.0	< 0.1	0.2	0.2	1.9
19	Perennial sow-thistle	8.3	0.4	5.0	< 0.1	0.2	0.2	1.9
20	Yellow sweet-clover	8.3	0.4	5.0	< 0.1	0.2	0.2	1.9

Table 74. Castor Plain Ecodistrict (769, 779 & 777) in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild buckwheat	70.0	23.0	32.2	5.9	8.2	100.0	64.0
2	Lamb's-quarters	40.0	14.6	36.6	4.2	10.4	79.2	41.2
3	Green foxtail	22.1	4.9	21.6	6.8	29.8	222.0	37.3
4	Wild oats	39.3	10.5	26.3	1.7	4.4	16.2	27.5
5	Canada thistle	37.1	11.0	29.6	1.0	2.6	9.6	24.4
6	Stinkweed	28.6	9.0	31.4	1.9	6.7	36.0	23.8
7	Russian thistle	11.4	4.5	39.1	1.3	11.7	40.0	12.6
8	Pale smartweed	17.1	2.0	11.7	0.2	1.0	3.2	7.1
9	Volunteer wheat	14.3	2.6	18.0	0.2	1.4	2.6	7.0
10	Quack grass	2.9	1.7	60.0	0.6	20.0	20.0	4.7
11	Stork's-bill	2.9	2.3	80.0	0.4	14.6	14.6	4.6
12	Rose species	12.1	1.2	8.3	0.1	0.5	1.4	4.6
13	Shepherd's-purse	5.7	2.0	35.0	0.2	4.2	5.6	4.4
14	Foxtail barley	11.4	0.9	7.5	< 0.1	0.3	0.4	4.0
15	Kochia	7.9	1.5	17.1	0.1	1.4	3.7	4.0
16	Redroot pigweed	5.7	1.8	31.3	0.2	3.0	4.6	3.9
17	Volunteer barley	5.7	2.0	35.0	0.1	1.7	2.2	3.9
18	Dandelion	8.6	0.8	8.8	0.1	0.7	1.4	3.2
19	Scouring-rush	2.9	1.6	55.0	0.1	4.8	4.8	2.8
20	Common groundsel	2.9	1.1	40.0	0.2	8.0	8.0	2.8
21	Perennial sow-thistle	5.7	0.5	8.1	< 0.1	0.6	1.0	2.1
22	Narrow-leaved hawk's-beard	5.7	0.4	6.9	< 0.1	0.3	0.4	2.0
23	Spear-leaved goosefoot	2.9	0.4	15.0	0.2	6.6	6.6	1.9
24	Volunteer canola	5.7	0.3	5.0	< 0.1	0.2	0.2	1.8
25	Cleavers	2.9	0.1	5.0	< 0.1	0.2	0.2	0.9
26	Flixweed	2.9	0.1	5.0	< 0.1	0.2	0.2	0.9
27	Prostrate knotweed	2.9	0.1	2.5	< 0.1	0.1	0.2	0.9
28	Round-leaved mallow	2.9	0.1	5.0	< 0.1	0.2	0.2	0.9
29	Common pepper-grass	2.1	0.1	3.8	< 0.1	0.2	0.2	0.7

Table 75. Neutral Hills Ecodistrict (771) in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Green foxtail	54.5	42.4	77.7	63.9	117.2	469.9	125.7
2	Stinkweed	56.8	18.6	29.3	2.5	3.9	10.3	30.6
3	Lamb's-quarters	34.1	15.5	34.0	4.5	9.8	33.5	25.4
4	Wild buckwheat	43.2	11.6	21.3	1.3	2.4	9.0	20.5
5	Wild oats	31.8	12.5	34.4	2.2	6.1	13.4	19.7
6	Russian thistle	34.1	11.4	25.0	2.5	5.4	21.5	19.7
7	Canada thistle	22.7	5.1	18.8	1.2	4.5	12.4	10.7
8	Perennial sow-thistle	34.1	3.2	8.8	0.2	0.6	0.9	10.6
9	Redroot pigweed	27.3	2.5	6.9	0.2	0.5	1.4	8.5
10	Flixweed	18.2	3.0	16.3	0.3	1.4	2.3	6.8
11	Narrow-leaved hawk's-beard	15.9	0.8	4.4	< 0.1	0.2	0.2	4.3
12	Kochia	11.4	0.7	3.8	< 0.1	0.2	0.3	3.2
13	Rose species	11.4	0.6	3.1	< 0.1	0.2	0.4	3.1
14	Volunteer canola	9.1	1.0	11.3	0.1	0.7	0.7	3.0
15	Quack grass	9.1	0.5	5.0	0.4	4.3	4.3	2.9
16	Volunteer wheat	9.1	0.9	10.0	< 0.1	0.4	0.4	2.8
17	Shepherd's-purse	9.1	0.5	5.0	< 0.1	0.2	0.2	2.5

Table 76. Drumheller Plain Ecodistrict (781) in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Wild oats	68.4	30.0	43.8	16.8	24.6	201.2	67.6
2	Wild buckwheat	60.5	28.0	46.3	5.4	8.9	97.8	37.9
3	Stinkweed	52.6	21.4	40.8	4.4	8.4	89.0	30.7
4	Canada thistle	44.7	10.9	24.4	1.0	2.2	10.6	15.5
5	Dandelion	50.0	10.0	20.0	0.7	1.4	6.6	15.2
6	Thyme-leaved spurge	21.1	8.4	40.0	1.7	7.9	31.8	12.0
7	Annual sow-thistle	13.2	5.9	45.0	2.6	19.8	73.8	11.6
8	Prostrate knotweed	13.2	6.8	52.0	2.0	15.2	55.8	10.6
9	Green foxtail	31.6	6.2	19.6	0.7	2.1	13.4	10.1
10	Volunteer canola	23.7	6.4	27.2	0.4	1.8	5.6	8.4
11	Lamb's-quarters	26.3	3.7	14.0	0.2	0.7	1.8	6.7
12	Redroot pigweed	18.4	4.7	25.7	0.3	1.5	3.2	6.2
13	Volunteer wheat	13.2	3.8	29.0	0.3	2.1	4.0	4.9
14	Night-flowering catchfly	5.3	2.6	50.0	0.9	17.3	31.6	4.5
15	Foxtail barley	15.8	2.6	16.7	0.2	1.2	3.6	4.5
16	Narrow-leaved hawk's-beard	13.2	2.9	22.0	0.3	1.9	6.8	4.3
17	Flixweed	10.5	3.3	31.3	0.3	2.5	5.4	4.1
18	Shepherd's-purse	10.5	2.9	27.5	0.3	2.7	8.6	4.0
19	Kochia	15.8	1.8	11.7	0.1	0.7	2.6	3.8
20	Wild mustard	13.2	2.4	18.0	0.1	1.0	3.6	3.8
21	Volunteer barley	2.6	2.5	95.0	0.8	28.6	28.6	3.6
22	Cleavers	10.5	1.4	13.8	0.4	3.5	13.2	3.4
23	Pale smartweed	10.5	2.0	18.8	0.2	2.1	3.2	3.3
24	Volunteer flax	2.6	2.0	75.0	0.7	25.2	25.2	3.1
25	Barnyard grass	2.6	1.1	40.0	0.7	27.4	27.4	2.7
26	Round-leaved mallow	10.5	1.4	13.8	0.1	0.8	1.0	2.7
27	Rose species	7.9	1.1	13.3	0.2	2.5	4.6	2.3
28	Quack grass	5.3	1.1	20.0	0.2	4.0	7.4	1.9
29	Chickweed	7.9	0.7	8.3	0.1	0.7	1.0	1.8
30	Bluebur	5.3	1.3	25.0	0.1	1.4	2.2	1.7
31	Perennial sow-thistle	5.3	0.5	10.0	< 0.1	0.7	1.2	1.2
32	Narrow-leaved vetch	5.3	0.3	5.0	< 0.1	0.3	0.4	1.0
33	Wild tomato	5.3	0.3	5.0	< 0.1	0.2	0.2	1.0
34	American dragonhead	2.6	0.7	25.0	< 0.1	1.0	1.0	0.8
35	Common pepper-grass	2.6	0.4	15.0	< 0.1	1.0	1.0	0.7
36	Curled dock	2.6	0.3	10.0	< 0.1	0.6	0.6	0.6
37	Common groundsel	2.6	0.3	10.0	< 0.1	0.4	0.4	0.6
38	Scentless chamomile	2.6	0.1	5.0	< 0.1	0.2	0.2	0.5
39	Prostrate pigweed	2.6	0.1	5.0	< 0.1	0.2	0.2	0.5

Table 77. Wintering Hills Ecodistrict (786) in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Wild oats	37.5	13.8	36.7	6.6	17.6	46.2	74.0
2	Wild buckwheat	50.0	16.9	33.8	2.0	4.0	16.2	48.4
3	Dandelion	43.8	9.1	20.7	1.2	2.7	13.4	31.0
4	Canada thistle	43.8	7.2	16.4	1.2	2.7	15.6	28.5
5	Foxtail barley	25.0	5.9	23.8	0.8	3.1	6.8	19.4
6	Narrow-leaved hawk's-beard	25.0	3.4	13.8	0.4	1.4	3.0	13.2
7	Stinkweed	18.8	4.1	21.7	0.4	2.3	5.6	13.0
8	Flixweed	18.8	2.8	15.0	0.2	1.1	1.6	9.8
9	Russian thistle	12.5	2.2	17.5	0.3	2.6	4.4	8.3
10	Volunteer canola	6.3	2.2	35.0	0.4	6.4	6.4	7.2
11	Kochia	18.8	1.3	6.7	0.1	0.6	1.0	7.1
12	Redroot pigweed	18.8	0.9	5.0	< 0.1	0.2	0.2	6.2
13	Volunteer wheat	12.5	1.6	12.5	0.1	0.8	0.8	5.9
14	Narrow-leaved vetch	12.5	1.6	12.5	0.1	0.6	0.6	5.7
15	Volunteer barley	12.5	0.6	5.0	< 0.1	0.2	0.2	4.1
16	Shepherd's-purse	6.3	1.3	20.0	0.1	1.8	1.8	4.0
17	Pale smartweed	6.3	0.6	10.0	0.1	1.4	1.4	3.0
18	Green foxtail	6.3	0.6	10.0	< 0.1	0.4	0.4	2.5
19	Perennial sow-thistle	6.3	0.3	5.0	0.1	1.0	1.0	2.4
20	Field mint	6.3	0.3	5.0	0.1	0.8	0.8	2.3
21	Lamb's-quarters	6.3	0.3	5.0	< 0.1	0.4	0.4	2.1
22	Yellow sweet-clover	6.3	0.3	5.0	< 0.1	0.2	0.2	2.1

Table 78. Majorville Upland Ecodistrict (787) in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Kochia	58.3	11.3	19.3	1.1	1.9	4.4	64.5
2	Volunteer canola	8.3	7.9	95.0	2.1	24.6	24.6	58.7
3	Wild oats	33.3	2.9	8.8	0.4	1.2	2.2	24.3
4	Canada thistle	33.3	1.7	5.0	0.2	0.6	0.8	18.0
5	Tall blue lettuce	8.3	2.5	30.0	0.5	5.4	5.4	16.7
6	Lamb's-quarters	8.3	2.9	35.0	0.3	3.8	3.8	15.2
7	Dandelion	25.0	2.1	8.3	0.1	0.5	1.0	14.8
8	Russian thistle	25.0	2.1	8.3	0.1	0.4	0.6	14.5
9	Foxtail barley	25.0	1.7	6.7	0.2	0.6	1.0	14.5
10	Prostrate pigweed	8.3	2.9	35.0	0.3	3.0	3.0	13.9
11	Redroot pigweed	16.7	1.7	10.0	0.1	0.5	0.8	10.6
12	Wild buckwheat	16.7	1.3	7.5	0.1	0.3	0.4	9.0
13	Wild mustard	8.3	0.8	10.0	0.1	0.6	0.6	5.5
14	Stinkweed	8.3	0.4	5.0	< 0.1	0.4	0.4	4.2
15	Flixweed	8.3	0.4	5.0	< 0.1	0.2	0.2	3.9
16	Round-leaved mallow	8.3	0.4	5.0	< 0.1	0.2	0.2	3.9
17	Rose species	8.3	0.4	5.0	< 0.1	0.2	0.2	3.9
18	Stork's-bill	8.3	0.4	5.0	< 0.1	0.2	0.2	3.9

Table 79. Standard Plain Ecodistrict (788 & 790) in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High	High		
1	Kochia	50.0	14.4	28.8	1.5	3.1	8.8	90.9
2	Wild oats	43.8	8.1	18.6	1.3	2.9	12.4	66.1
3	Quack grass	25.0	3.8	15.0	0.5	2.0	3.8	30.4
4	Dandelion	37.5	2.2	5.8	0.1	0.3	0.4	22.8
5	Foxtail barley	18.8	2.8	15.0	0.3	1.7	3.6	21.9
6	Canada thistle	18.8	1.9	10.0	0.2	1.3	1.6	17.6
7	Flixweed	12.5	1.9	15.0	0.2	1.2	2.2	13.1
8	Redroot pigweed	12.5	0.9	7.5	0.1	0.9	1.2	9.9
9	Stinkweed	12.5	0.9	7.5	0.1	0.4	0.4	8.5
10	Wild buckwheat	6.3	1.6	25.0	0.1	1.4	1.4	8.4
11	Meadow brome	6.3	0.6	10.0	0.1	1.2	1.2	5.8
12	Russian thistle	6.3	0.6	10.0	< 0.1	0.4	0.4	4.6

Table 80. Vulcan Plain Ecodistrict (791) in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Wild oats	31.3	11.3	36.0	4.6	14.6	112.2	94.3
2	Wild buckwheat	43.8	8.4	19.3	0.7	1.6	7.6	45.0
3	Canada thistle	15.6	5.3	34.0	1.0	6.3	16.6	30.4
4	Kochia	25.0	4.4	17.5	0.8	3.3	23.2	29.9
5	Lamb's-quarters	31.3	4.1	13.0	0.3	1.0	3.2	25.5
6	Redroot pigweed	25.0	3.9	15.6	0.2	0.9	3.2	21.7
7	Stinkweed	12.5	1.1	8.8	0.1	0.8	1.6	8.7
8	Flixweed	6.3	1.3	20.0	0.1	1.7	3.2	6.6
9	Dandelion	9.4	0.8	8.3	< 0.1	0.3	0.6	5.9
10	Volunteer canola	9.4	0.6	6.7	< 0.1	0.5	0.6	5.7
11	Foxtail barley	6.3	0.6	10.0	0.1	1.1	2.0	4.8
12	Volunteer barley	6.3	0.3	5.0	< 0.1	0.3	0.4	3.4
13	Perennial sow-thistle	3.1	0.5	15.0	0.1	2.0	2.0	3.1
14	Quack grass	3.1	0.3	10.0	< 0.1	0.6	0.6	2.2
15	Two-grooved milk-vetch	3.1	0.3	10.0	< 0.1	0.6	0.6	2.2
16	Volunteer wheat	3.1	0.2	5.0	< 0.1	0.8	0.8	1.9
17	Downy brome	3.1	0.2	5.0	< 0.1	0.4	0.4	1.8
18	Rose species	3.1	0.2	5.0	< 0.1	0.4	0.4	1.8
19	Green foxtail	3.1	0.2	5.0	< 0.1	0.2	0.2	1.7
20	Round-leaved mallow	3.1	0.2	5.0	< 0.1	0.2	0.2	1.7
21	Russian thistle	3.1	0.2	5.0	< 0.1	0.2	0.2	1.7

Table 81. Lethbridge Plain Ecodistrict (793 & 797) in the Moist Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild oats	27.1	9.9	36.6	3.0	11.2	77.0	69.5
2	Kochia	24.3	5.9	24.4	3.1	12.9	145.0	60.1
3	Canada thistle	37.1	7.4	20.0	0.6	1.6	11.6	41.5
4	Russian thistle	15.7	3.6	22.7	0.4	2.4	13.8	19.9
5	Redroot pigweed	14.3	3.1	21.5	0.3	2.4	9.6	17.6
6	Wild buckwheat	17.1	2.0	11.7	0.1	0.7	3.4	14.2
7	Stinkweed	11.4	1.7	15.0	0.3	2.6	7.8	12.7
8	Dandelion	14.3	1.3	9.0	0.1	0.4	1.2	10.5
9	Green foxtail	5.7	1.4	23.8	0.3	5.8	16.4	9.5
10	Round-leaved mallow	5.7	1.6	27.5	0.1	2.1	4.4	7.6
11	Volunteer canola	4.3	1.1	25.0	0.1	3.1	8.6	6.0
12	Cow cockle	2.9	1.1	37.5	0.1	4.6	8.0	5.3
13	Flixweed	4.3	0.7	16.7	< 0.1	0.8	1.4	4.1
14	Rose species	4.3	0.6	15.0	< 0.1	1.1	2.0	4.1
15	Lamb's-quarters	2.9	0.6	20.0	0.1	2.2	3.4	3.4
16	Foxtail barley	4.3	0.3	6.7	< 0.1	0.3	0.6	2.9
17	Volunteer alfalfa	1.4	0.4	30.0	< 0.1	2.4	2.4	2.0
18	Quack grass	2.9	0.2	7.5	< 0.1	0.4	0.4	2.0
19	Pale smartweed	1.4	0.4	25.0	< 0.1	2.2	2.2	1.9
20	Goat's-beard	2.9	0.1	5.0	< 0.1	0.2	0.2	1.8
21	Tartary buckwheat	1.4	0.3	20.0	< 0.1	2.4	2.4	1.7
22	Green tansy mustard	1.4	0.1	5.0	< 0.1	0.2	0.2	0.9
23	Shepherd's-purse	1.4	0.1	5.0	< 0.1	0.2	0.2	0.9

Table 82. Delacour Plain Ecdistrict (798) in the Fescue Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	53.1	21.6	40.8	4.5	8.5	50.8	49.8
2	Wild buckwheat	55.1	17.3	31.5	1.4	2.6	12.8	33.0
3	Annual sow-thistle	18.4	6.5	35.6	3.8	20.8	159.8	26.5
4	Canada thistle	44.9	7.2	16.1	0.8	1.9	11.6	19.6
5	Shepherd's-purse	22.4	10.0	44.5	1.3	5.7	16.2	19.0
6	Cleavers	12.2	5.9	48.3	2.2	18.0	78.6	17.5
7	Stinkweed	36.7	5.8	15.8	0.6	1.5	6.2	15.4
8	Green foxtail	10.2	3.0	29.0	2.1	20.5	100.4	14.0
9	Lamb's-quarters	26.5	4.5	16.9	0.3	1.2	2.8	11.0
10	Common groundsel	8.2	3.0	36.3	1.4	16.8	62.0	10.4
11	Dandelion	24.5	4.6	18.8	0.3	1.1	3.4	10.3
12	Volunteer canola	16.3	3.7	22.5	0.2	1.5	4.2	7.8
13	Volunteer barley	8.2	3.5	42.5	0.6	7.6	18.6	7.4
14	Chickweed	6.1	2.1	35.0	0.9	14.9	44.2	7.2
15	Prostrate knotweed	10.2	3.5	34.0	0.2	2.4	4.8	6.2
16	Hemp-nettle	10.2	2.7	26.0	0.4	3.8	11.6	6.2
17	Flixweed	12.2	1.8	15.0	0.1	0.8	3.2	4.7
18	Foxtail barley	8.2	1.9	23.8	0.1	1.8	5.0	4.1
19	Pineappleweed	6.1	1.5	25.0	0.2	3.6	8.8	3.6
20	Redroot pigweed	8.2	1.1	13.8	0.2	2.0	7.0	3.4
21	Kochia	8.2	1.2	15.0	0.1	1.0	2.0	3.2
22	Volunteer wheat	6.1	1.3	21.7	0.1	1.9	3.8	3.0
23	Perennial sow-thistle	6.1	1.0	16.7	0.1	1.8	4.6	2.7
24	Round-leaved mallow	4.1	1.2	30.0	0.1	2.2	4.2	2.3
25	Bluebur	6.1	0.6	10.0	< 0.1	0.5	0.6	2.0
26	Narrow-leaved hawk's-beard	6.1	0.4	6.7	< 0.1	0.3	0.4	1.7
27	Quack grass	4.1	0.6	15.0	< 0.1	0.7	1.0	1.5
28	Pale smartweed	4.1	0.2	5.0	0.1	1.3	2.4	1.3
29	Toad rush	2.0	0.2	10.0	0.1	6.0	6.0	1.2
30	Cow cockle	2.0	0.2	10.0	< 0.1	0.6	0.6	0.7
31	Meadow brome	2.0	0.1	5.0	< 0.1	1.0	1.0	0.6
32	Yellow sweet-clover	2.0	0.1	5.0	< 0.1	0.4	0.4	0.6
33	Goat's-beard	2.0	0.1	5.0	< 0.1	0.2	0.2	0.5
34	Rose species	2.0	0.1	5.0	< 0.1	0.2	0.2	0.5
35	Pasture sage	2.0	0.1	5.0	< 0.1	0.2	0.2	0.5
36	Wild tomato	2.0	0.1	5.0	< 0.1	0.2	0.2	0.5

Table 83. Cardston Plain Ecdistrict (800, 801 & 802) in the Fescue Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Canada thistle	51.9	12.6	24.3	1.9	3.6	12.6	47.7
2	Wild oats	44.4	10.7	24.2	1.0	2.2	8.2	36.3
3	Cleavers	3.7	3.7	100.0	3.0	81.4	81.4	27.6
4	Flixweed	14.8	5.0	33.8	1.6	10.8	37.6	23.1
5	Wild buckwheat	33.3	6.5	19.4	0.4	1.2	5.0	22.9
6	Yellow sweet-clover	7.4	4.4	60.0	1.0	13.3	16.8	15.6
7	Quack grass	14.8	3.7	25.0	0.7	4.9	11.2	15.1
8	Stinkweed	25.9	3.0	11.4	0.3	1.0	2.2	14.5
9	Volunteer alfalfa	3.7	3.3	90.0	1.2	31.4	31.4	14.0
10	Downy brome	3.7	2.6	70.0	0.8	21.0	21.0	10.3
11	Cow cockle	11.1	3.0	26.7	0.3	2.7	6.2	9.9
12	Persian darnel	3.7	2.2	60.0	0.8	20.4	20.4	9.6
13	Lamb's-quarters	7.4	2.8	37.5	0.4	5.6	10.0	9.2
14	Round-leaved mallow	11.1	2.6	23.3	0.3	2.3	5.2	9.1
15	Dandelion	14.8	1.5	10.0	0.1	0.5	1.0	7.5
16	Foxtail barley	11.1	0.7	6.7	0.1	0.5	0.8	5.1
17	Chickweed	3.7	0.7	20.0	0.3	8.2	8.2	4.4
18	Rose species	7.4	0.7	10.0	0.1	1.3	2.4	4.1
19	Hemp-nettle	3.7	0.6	15.0	< 0.1	0.8	0.8	2.2
20	Redroot pigweed	3.7	0.6	15.0	< 0.1	0.6	0.6	2.1
21	Shepherd's-purse	3.7	0.2	5.0	< 0.1	1.2	1.2	1.8
22	Perennial sow-thistle	3.7	0.2	5.0	< 0.1	0.6	0.6	1.6
23	White cockle	3.7	0.2	5.0	< 0.1	0.4	0.4	1.6
24	Kochia	3.7	0.2	5.0	< 0.1	0.4	0.4	1.6
25	Striate knotweed	3.7	0.2	5.0	< 0.1	0.2	0.2	1.5
26	Wood whitlow-grass	3.7	0.2	5.0	< 0.1	0.2	0.2	1.5

Table 84. Sounding Creek Plain Ecodistrict (804, 806, 812 & 814) in the Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Lamb's-quarters	31.6	19.3	61.0	8.2	26.1	118.2	64.8
2	Wild buckwheat	57.9	24.9	43.0	3.3	5.7	19.8	53.4
3	Green foxtail	52.6	12.6	24.0	4.9	9.4	49.6	48.2
4	Kochia	31.6	8.9	28.3	0.9	2.9	13.2	20.6
5	Redroot pigweed	36.8	8.1	22.0	0.8	2.1	4.9	20.4
6	Wild oats	31.6	6.5	20.6	1.0	3.2	9.4	18.8
7	Stinkweed	31.6	6.1	19.2	0.5	1.6	4.2	15.9
8	Dandelion	15.8	5.1	32.1	0.5	3.3	7.0	11.1
9	Russian thistle	21.1	2.6	12.5	0.3	1.4	4.0	9.0
10	Canada thistle	21.1	1.6	7.5	0.1	0.5	0.9	7.2
11	Pale smartweed	11.8	1.9	12.1	0.1	0.8	2.0	5.3
12	Narrow-leaved hawk's-beard	10.5	1.1	10.0	0.1	0.6	0.7	3.9
13	Volunteer canola	5.3	1.8	35.0	0.1	2.4	2.4	3.6
14	Perennial sow-thistle	10.5	0.5	5.0	< 0.1	0.3	0.5	3.3
15	Rose species	5.3	1.1	20.0	0.2	3.6	3.6	3.2
16	Foxtail barley	5.3	1.1	20.0	0.1	1.8	1.8	2.7
17	Wild mustard	5.3	0.5	10.0	< 0.1	0.4	0.4	1.9
18	Blue lettuce	5.3	0.5	8.8	< 0.1	0.6	0.6	1.9
19	Common pepper-grass	5.3	0.4	7.5	< 0.1	0.7	0.7	1.8
20	Wild tomato	5.3	0.3	5.0	< 0.1	0.2	0.2	1.6
21	Bluebur	3.9	0.2	3.8	< 0.1	0.2	0.2	1.2

Table 85. Oyen Upland Ecodistrict (809, 811 & 805) in the Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Flixweed	7.7	5.8	75.0	1.5	19.4	19.4	46.9
2	Lamb's-quarters	23.1	6.9	30.0	0.7	3.1	5.8	42.6
3	Redroot pigweed	7.7	5.4	70.0	1.0	12.4	12.4	35.3
4	Wild buckwheat	30.8	5.4	17.5	0.2	0.7	2.0	33.2
5	Wild oats	38.5	3.5	9.0	0.2	0.5	1.0	32.7
6	Stinkweed	7.7	6.2	80.0	0.5	6.6	6.6	28.3
7	Kochia	15.4	3.5	22.5	0.5	3.4	6.6	26.6
8	Russian thistle	7.7	3.8	50.0	0.2	3.2	3.2	17.8
9	Cow cockle	15.4	1.9	12.5	0.1	0.7	1.2	14.9
10	Canada thistle	7.7	0.4	5.0	< 0.1	0.4	0.4	5.7
11	Green foxtail	7.7	0.4	5.0	< 0.1	0.2	0.2	5.3
12	Annual sow-thistle	7.7	0.4	5.0	< 0.1	0.2	0.2	5.3
13	Perennial sow-thistle	7.7	0.4	5.0	< 0.1	0.2	0.2	5.3

Table 86. Bindloss Plain Ecodistrict (815 & 821) in the Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	Occurrence	All	Occurrence	High	
1	Wild oats	55.6	25.3	45.5	11.3	20.3	102.4	97.3
2	Kochia	27.8	15.3	55.0	4.3	15.6	48.4	46.9
3	Russian thistle	38.9	11.9	30.7	3.2	8.3	48.2	42.9
4	Redroot pigweed	22.2	3.6	16.3	0.3	1.5	4.0	14.7
5	Wild buckwheat	16.7	3.9	23.3	0.6	3.3	9.0	13.7
6	Volunteer chickpea	5.6	2.2	40.0	2.2	39.2	39.2	13.4
7	Green foxtail	16.7	3.1	18.3	0.5	3.3	7.6	12.6
8	Yellow foxtail	5.6	3.6	65.0	1.4	25.6	25.6	12.2
9	Volunteer wheat	11.1	2.8	25.0	0.4	4.0	7.6	9.6
10	Foxtail barley	5.6	2.2	40.0	0.8	14.4	14.4	8.1
11	Stinkweed	11.1	1.1	10.0	0.1	0.9	1.4	6.2
12	Pale smartweed	5.6	1.4	25.0	0.3	6.2	6.2	5.3
13	Flixweed	11.1	0.6	5.0	< 0.1	0.3	0.4	5.3
14	Quack grass	5.6	1.1	20.0	0.4	7.0	7.0	5.1
15	Perennial sow-thistle	5.6	1.4	25.0	0.1	1.0	1.0	4.2
16	Shepherd's-purse	5.6	0.3	5.0	< 0.1	0.2	0.2	2.6

Table 87. Vauxhall Plain Ecodistrict (823) in the Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild oats	53.8	23.1	42.9	6.9	12.9	46.6	142.3
2	Kochia	46.2	8.1	17.5	0.4	0.8	1.8	41.0
3	Russian thistle	23.1	5.4	23.3	0.6	2.5	5.4	27.2
4	Quack grass	7.7	3.1	40.0	1.0	13.2	13.2	20.2
5	Green foxtail	15.4	4.2	27.5	0.3	2.1	2.6	18.8
6	Redroot pigweed	15.4	2.7	17.5	0.2	1.0	1.6	14.0
7	Lamb's-quarters	23.1	1.2	5.0	< 0.1	0.2	0.2	13.5
8	Wild buckwheat	15.4	1.9	12.5	0.1	0.5	0.8	11.7
9	Downy brome	7.7	0.8	10.0	0.1	1.0	1.0	5.9
10	Canada thistle	7.7	0.4	5.0	0.1	1.2	1.2	5.3

Table 88. Foremost Plain Ecodistrict (828) in the Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Russian thistle	40.3	13.1	32.6	3.1	7.7	120.4	100.9
2	Wild oats	37.3	10.1	27.2	1.4	3.8	22.4	68.3
3	Kochia	23.9	5.8	24.4	0.9	3.7	28.0	41.8
4	Wild buckwheat	17.9	3.4	18.8	0.2	1.4	4.4	23.0
5	Canada thistle	10.4	1.7	16.4	0.2	2.2	7.6	14.0
6	Skeletonweed	1.5	0.6	40.0	0.6	39.2	39.2	10.5
7	Dandelion	3.0	1.5	50.0	0.3	9.7	19.0	9.6
8	Stinkweed	1.5	0.7	45.0	0.3	21.0	21.0	7.0
9	Redroot pigweed	4.5	0.5	11.7	< 0.1	0.9	1.6	4.6
10	Foxtail barley	4.5	0.4	8.3	< 0.1	0.3	0.6	3.9
11	Green foxtail	3.0	0.4	15.0	< 0.1	1.1	1.8	3.4
12	Flixweed	3.0	0.2	7.5	< 0.1	0.3	0.4	2.5
13	Lamb's-quarters	3.0	0.2	7.5	< 0.1	0.3	0.4	2.5
14	Cow cockle	1.5	0.4	25.0	< 0.1	1.8	1.8	2.2
15	Downy brome	1.5	0.4	25.0	< 0.1	1.4	1.4	2.2
16	Goat's-beard	1.5	0.1	5.0	< 0.1	0.2	0.2	1.2
17	Gray tansy mustard	1.5	0.1	5.0	< 0.1	0.2	0.2	1.2
18	Volunteer white mustard	1.5	0.1	5.0	< 0.1	0.2	0.2	1.2

Table 89. Cypress Hills Ecodistrict (838, 837, 833 & 836) in the Mixed Grassland Ecoregion

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	50.0	12.5	25.0	1.4	2.8	6.6	81.3
2	Russian thistle	10.0	8.0	80.0	1.5	14.8	14.8	48.2
3	Wild buckwheat	30.0	7.0	23.3	0.7	2.3	5.8	45.6
4	Lamb's-quarters	10.0	7.5	75.0	1.1	11.0	11.0	40.8
5	Volunteer canola	10.0	4.5	45.0	0.9	8.8	8.8	30.7
6	Volunteer wheat	10.0	2.5	25.0	0.2	2.4	2.4	15.7
7	Redroot pigweed	10.0	2.0	20.0	0.1	1.2	1.2	12.6
8	Stinkweed	10.0	1.0	10.0	< 0.1	0.4	0.4	9.1
9	Canada thistle	10.0	0.5	5.0	0.1	0.6	0.6	8.3
10	Flixweed	10.0	0.5	5.0	< 0.1	0.2	0.2	7.7

Table 90. Number of fields surveyed, density, species richness and weed-free quadrats in the four regions

Ecoregion	Number of Fields surveyed	Density (number/m ²)	Species (number/field)	Weed-free Quadrats (%)
Peace	173	53.4	7	18.6
North	398	44.7	6	20.1
Central	276	42.8	5	26.0
Southern	306	9.0	2	63.5

Table 91. Number of fields surveyed for each crop in each region

Ecoregion	Spring wheat	Durum	Barley	Oat	Canola	Field pea	Mixed crops
Peace	70	0	33	17	44	7	2
North	121	0	127	37	92	14	7
Central	101	7	92	25	34	14	3
Southern	126	64	97	7	7	5	0

Table 92. All fields in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Field horsetail	57.8	22.4	38.8	5.4	9.3	76.8	28.3
2	Wild buckwheat	64.7	23.7	36.6	4.2	6.5	61.0	27.6
3	Stinkweed	49.1	19.3	39.3	5.2	10.6	104.2	25.4
4	Cleavers	45.1	17.8	39.4	4.8	10.6	180.8	23.3
5	Hemp-nettle	37.6	13.0	34.7	4.6	12.2	199.2	19.8
6	Chickweed	25.4	10.7	42.2	5.1	20.0	238.6	18.0
7	Narrow-leaved hawk's-beard	37.6	9.8	26.2	3.1	8.3	137.2	15.5
8	Dandelion	46.2	12.7	27.5	1.5	3.3	42.4	15.0
9	Wild oats	35.8	10.7	29.8	2.2	6.0	64.0	13.9
10	Pineappleweed	23.7	7.3	30.6	2.7	11.4	172.4	11.7
11	Canada thistle	37.6	7.7	20.6	1.2	3.1	41.6	10.9
12	Lamb's-quarters	27.2	7.7	28.2	1.3	4.6	75.4	9.6
13	Common groundsel	19.1	5.5	28.8	1.0	5.4	37.6	7.1
14	Volunteer canola	20.8	5.5	26.4	0.9	4.2	32.2	7.0
15	Perennial sow-thistle	20.8	4.7	22.5	0.8	3.9	64.8	6.5
16	Pale smartweed	23.1	4.7	20.3	0.6	2.7	14.6	6.5
17	Bluebur	15.6	3.2	20.6	1.2	7.5	112.0	5.8
18	Alsike clover	13.3	4.4	33.0	1.0	7.3	70.4	5.7
19	Volunteer wheat	12.1	3.0	25.0	1.1	9.3	128.2	5.2
20	Shepherd's-purse	13.9	3.5	25.0	0.6	4.5	41.4	4.7
21	Quack grass	9.8	1.4	13.8	0.7	7.5	63.2	3.4
22	Broad-leaved plantain	9.8	2.0	20.6	0.2	2.5	14.4	2.7
23	Corn spurry	3.5	1.2	35.0	0.8	21.9	118.2	2.5
24	Prostrate pigweed	5.2	2.3	43.3	0.2	4.5	15.6	2.2
25	Volunteer barley	4.6	1.6	34.4	0.4	9.1	41.0	2.2
26	Rough cinquefoil	5.2	1.2	23.9	0.3	5.5	30.0	1.8
27	Low cudweed	5.8	0.9	16.0	0.2	4.0	15.0	1.6
28	Stork's-bill	2.3	0.9	38.8	0.3	14.3	52.2	1.4
29	Biennial wormwood	4.0	0.8	20.0	0.2	4.5	26.6	1.3
30	Yellow sweet-clover	3.5	0.9	25.8	0.1	2.6	9.2	1.1
31	American dragonhead	4.0	0.5	12.9	< 0.1	0.9	3.0	0.9
32	Volunteer alfalfa	1.7	0.7	38.3	0.2	9.4	27.2	0.9
33	Rose species	4.6	0.3	7.5	< 0.1	0.6	1.4	0.8
34	Meadow fescue	1.2	0.7	57.5	0.2	16.6	32.4	0.8
35	Bicknell's geranium	2.9	0.5	17.0	< 0.1	0.8	1.8	0.7
36	Foxtail barley	2.9	0.4	14.0	< 0.1	1.2	3.4	0.6
37	Common yarrow	2.9	0.3	12.0	< 0.1	0.8	1.2	0.6
38	Prostrate knotweed	2.3	0.3	15.0	< 0.1	1.9	6.4	0.6
39	Spiny annual sow-thistle	2.9	0.3	10.0	< 0.1	0.5	1.2	0.6
40	Yellow toadflax	1.7	0.4	21.7	< 0.1	2.2	4.4	0.5
41	Redtop	2.3	0.2	8.8	< 0.1	1.4	4.2	0.5
42	Fireweed	1.7	0.3	18.3	< 0.1	1.3	3.4	0.4
43	Field bindweed	1.2	0.4	32.5	< 0.1	3.2	6.2	0.4
44	Mouse-eared chickweed	1.7	0.2	13.3	< 0.1	1.5	2.8	0.4
45	Western marsh cudweed	0.6	0.1	25.0	0.1	17.2	17.2	0.3
46	Round-leaved mallow	1.7	0.1	8.3	< 0.1	0.3	0.6	0.3
47	Volunteer peas	0.6	0.3	50.0	< 0.1	6.0	6.0	0.3
48	Redroot pigweed	1.2	0.2	15.0	< 0.1	1.5	2.8	0.3
49	Common pepper-grass	1.2	0.1	12.5	< 0.1	0.6	0.8	0.2
50	Wild radish	1.2	0.1	10.0	< 0.1	0.8	1.4	0.2
51	Two-grooved milk-vetch	1.2	0.1	10.0	< 0.1	0.4	0.6	0.2
52	Ball mustard	1.2	0.1	10.0	< 0.1	0.4	0.6	0.2

(Table continued on next page)

Table 92. All fields in the Peace Region (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
53	Ground-ivy	0.6	0.1	15.0	< 0.1	7.4	7.4	0.2
54	Cream-colored vetchling	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
55	Milk-vetch species	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
56	Pygmyflower	0.6	0.1	15.0	< 0.1	4.6	4.6	0.2
57	Cow cockle	0.6	0.1	20.0	< 0.1	1.4	1.4	0.1
58	Tall fescue	0.6	0.1	10.0	< 0.1	1.8	1.8	0.1
59	Pasture sage	0.6	0.1	10.0	< 0.1	1.0	1.0	0.1
60	Timothy	0.6	0.1	10.0	< 0.1	0.8	0.8	0.1
61	Slender wheat grass	0.6	0.1	10.0	< 0.1	0.4	0.4	0.1
62	Red clover	0.6	< 0.1	5.0	< 0.1	0.4	0.4	0.1
63	White clover	0.6	< 0.1	5.0	< 0.1	0.4	0.4	0.1
64	Tall buttercup	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Scentless chamomile	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Sulfur cinquefoil	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 93. Spring wheat fields in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Wild buckwheat	64.3	28.3	44.0	5.3	8.3	59.2	34.0
2	Field horsetail	58.6	18.5	31.6	5.2	8.9	76.8	28.1
3	Cleavers	42.9	17.6	41.0	4.9	11.4	180.8	24.6
4	Stinkweed	44.3	16.6	37.6	5.0	11.2	104.2	24.5
5	Hemp-nettle	40.0	15.4	38.4	5.1	12.7	90.8	23.4
6	Chickweed	18.6	7.4	39.6	6.8	36.6	238.6	19.5
7	Wild oats	31.4	11.9	37.7	2.1	6.7	46.8	14.7
8	Canada thistle	38.6	10.6	27.6	1.8	4.5	41.6	14.5
9	Dandelion	44.3	10.8	24.4	1.0	2.2	14.8	13.9
10	Narrow-leaved hawk's-beard	32.9	6.2	18.9	1.6	4.9	78.8	11.2
11	Perennial sow-thistle	22.9	6.8	29.7	1.6	7.0	64.8	9.9
12	Volunteer canola	32.9	6.9	21.1	0.7	2.3	11.4	9.8
13	Bluebur	15.7	4.5	28.6	2.6	16.7	112.0	9.7
14	Common groundsel	17.1	5.5	32.1	1.3	7.6	37.6	7.8
15	Pineappleweed	15.7	4.8	30.5	1.2	7.7	51.4	7.1
16	Lamb's-quarters	17.1	5.1	29.6	0.7	4.4	25.2	6.5
17	Pale smartweed	21.4	4.3	20.0	0.5	2.3	10.4	6.3
18	Corn spurry	5.7	2.1	36.3	1.8	31.4	118.2	5.3
19	Alsike clover	8.6	1.8	20.8	0.1	1.7	4.6	2.5
20	Broad-leaved plantain	8.6	1.7	20.0	0.2	1.8	5.2	2.4
21	Stork's-bill	1.4	1.4	100.0	0.7	52.2	52.2	2.4
22	Prostrate pigweed	4.3	2.2	51.7	0.1	3.4	4.8	2.0
23	Shepherd's-purse	7.1	1.1	16.0	0.1	1.7	5.2	1.9
24	Meadow fescue	1.4	1.4	100.0	0.5	32.4	32.4	1.8
25	Quack grass	8.6	0.6	6.7	0.1	1.1	3.4	1.8
26	Low cudweed	4.3	0.8	18.3	0.2	4.5	8.2	1.4
27	Yellow sweet-clover	4.3	0.9	21.7	0.1	1.7	3.4	1.3
28	Bicknell's geranium	4.3	0.9	20.0	< 0.1	1.1	1.8	1.2
29	Yellow toadflax	2.9	0.7	25.0	0.1	2.8	4.4	0.9
30	Prostrate knotweed	2.9	0.6	22.5	0.1	3.4	6.4	0.9
31	American dragonhead	2.9	0.6	22.5	< 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	2.9	0.2	7.5	0.1	2.2	4.2	0.7
34	Ball mustard	2.9	0.3	10.0	< 0.1	0.4	0.6	0.6
35	Rose species	2.9	0.1	5.0	< 0.1	0.4	0.4	0.5
36	Rough cinquefoil	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5
37	Redroot pigweed	1.4	0.4	25.0	< 0.1	2.8	2.8	0.5
38	Cow cockle	1.4	0.3	20.0	< 0.1	1.4	1.4	0.4
39	Common yarrow	1.4	0.1	10.0	< 0.1	1.2	1.2	0.3
40	Timothy	1.4	0.1	10.0	< 0.1	0.8	0.8	0.3
41	Spiny annual sow-thistle	1.4	0.1	10.0	< 0.1	0.4	0.4	0.3
42	Volunteer barley	1.4	0.1	10.0	< 0.1	0.4	0.4	0.3
43	Mouse-eared chickweed	1.4	0.1	5.0	< 0.1	1.6	1.6	0.3
44	Common pepper-grass	1.4	0.1	5.0	< 0.1	0.4	0.4	0.3
45	Biennial wormwood	1.4	0.1	5.0	< 0.1	0.4	0.4	0.3
46	Volunteer alfalfa	1.4	0.1	5.0	< 0.1	0.4	0.4	0.3
47	Red clover	1.4	0.1	5.0	< 0.1	0.4	0.4	0.3
48	White clover	1.4	0.1	5.0	< 0.1	0.4	0.4	0.3
49	Volunteer wheat	1.4	0.1	5.0	< 0.1	0.4	0.4	0.3
50	Round-leaved mallow	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3
51	Cream-colored vetchling	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3
52	Milk-vetch species	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3

Table 94. Barley fields in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Cleavers	48.5	20.8	42.8	7.6	15.6	108.4	35.2
2	Wild buckwheat	63.6	20.2	31.7	2.4	3.8	16.8	25.2
3	Field horsetail	48.5	19.4	40.0	3.5	7.3	26.0	25.1
4	Stinkweed	48.5	16.5	34.1	2.8	5.9	37.4	22.1
5	Chickweed	27.3	11.1	40.6	4.4	16.0	93.2	19.7
6	Hemp-nettle	36.4	11.4	31.3	3.4	9.4	56.0	19.0
7	Wild oats	51.5	10.9	21.2	1.9	3.6	25.6	17.4
8	Dandelion	42.4	13.9	32.9	1.6	3.9	11.8	17.1
9	Lamb's-quarters	18.2	10.8	59.2	3.4	18.7	75.4	16.0
10	Narrow-leaved hawk's-beard	39.4	7.6	19.2	1.2	3.1	17.6	12.5
11	Pineappleweed	27.3	6.1	22.2	1.9	6.9	37.6	11.4
12	Common groundsel	24.2	6.2	25.6	1.4	5.9	21.4	10.0
13	Pale smartweed	24.2	6.2	25.6	1.0	3.9	13.2	8.9
14	Quack grass	15.2	2.3	15.0	2.0	13.2	63.2	8.0
15	Canada thistle	27.3	4.2	15.6	0.8	2.8	10.2	7.9
16	Volunteer canola	15.2	3.9	26.0	1.1	7.3	21.2	6.8
17	Perennial sow-thistle	15.2	2.7	18.0	0.2	1.5	4.8	4.1
18	Biennial wormwood	6.1	2.4	40.0	0.9	14.1	26.6	4.1
19	Bluebur	12.1	3.2	26.3	0.3	2.5	5.0	4.1
20	Shepherd's-purse	9.1	3.2	35.0	0.4	4.3	10.2	3.9
21	Broad-leaved plantain	9.1	1.4	15.0	0.2	2.1	5.8	2.5
22	Volunteer wheat	9.1	0.6	6.7	< 0.1	0.5	0.8	1.7
23	Volunteer peas	3.0	1.5	50.0	0.2	6.0	6.0	1.6
24	Mouse-eared chickweed	6.1	1.1	17.5	0.1	1.5	2.8	1.6
25	Prostrate pigweed	3.0	1.2	40.0	0.1	2.8	2.8	1.3
26	Stork's-bill	3.0	1.1	35.0	0.1	3.6	3.6	1.2
27	Rose species	6.1	0.5	7.5	< 0.1	0.7	1.0	1.2
28	Foxtail barley	3.0	0.9	30.0	0.1	3.4	3.4	1.1
29	Wild radish	3.0	0.5	15.0	< 0.1	1.4	1.4	0.8
30	Low cudweed	3.0	0.5	15.0	< 0.1	0.8	0.8	0.7
31	Yellow sweet-clover	3.0	0.5	15.0	< 0.1	0.8	0.8	0.7
32	Meadow fescue	3.0	0.5	15.0	< 0.1	0.8	0.8	0.7
33	American dragonhead	3.0	0.3	10.0	< 0.1	1.2	1.2	0.7
34	Volunteer alfalfa	3.0	0.3	10.0	< 0.1	0.6	0.6	0.6
35	Slender wheat grass	3.0	0.3	10.0	< 0.1	0.4	0.4	0.6
36	Alsike clover	3.0	0.2	5.0	< 0.1	0.6	0.6	0.6
37	Field bindweed	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
38	Tall buttercup	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
39	Scentless chamomile	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
40	Rough cinquefoil	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
41	Bicknell's geranium	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
42	Redroot pigweed	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5
43	Redtop	3.0	0.2	5.0	< 0.1	0.2	0.2	0.5

Table 95. Oat fields in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	58.8	30.6	52.0	11.2	19.1	66.8	36.4
2	Dandelion	76.5	28.5	37.3	5.1	6.7	42.4	27.7
3	Field horsetail	58.8	28.2	48.0	5.6	9.6	17.0	26.4
4	Stinkweed	47.1	23.8	50.6	5.7	12.2	53.4	23.5
5	Wild buckwheat	52.9	20.6	38.9	2.8	5.2	25.6	18.2
6	Hemp-nettle	41.2	14.1	34.3	3.5	8.4	34.6	15.6
7	Narrow-leaved hawk's-beard	41.2	12.1	29.3	3.7	8.9	54.0	15.2
8	Pineappleweed	41.2	11.5	27.9	2.8	6.7	35.6	13.5
9	Shepherd's-purse	29.4	10.6	36.0	3.3	11.2	41.4	12.7
10	Canada thistle	47.1	8.5	18.1	1.4	3.0	9.8	11.0
11	Cleavers	35.3	10.3	29.2	1.8	5.1	25.4	10.8
12	Wild oats	29.4	8.2	28.0	2.6	8.8	39.2	10.7
13	Volunteer canola	17.6	11.2	63.3	2.8	15.6	32.2	10.6
14	Lamb's-quarters	29.4	8.8	30.0	1.1	3.8	8.2	8.5
15	Common groundsel	17.6	7.1	40.0	1.1	6.1	12.4	6.4
16	Pale smartweed	29.4	5.0	17.0	0.5	1.6	5.6	6.1
17	Volunteer alfalfa	5.9	5.9	100.0	1.6	27.2	27.2	5.4
18	Broad-leaved plantain	11.8	5.9	50.0	0.9	7.7	14.4	5.0
19	Alsike clover	17.6	5.0	28.3	0.4	2.0	3.0	4.5
20	Volunteer barley	11.8	3.8	32.5	0.7	5.9	11.2	3.9
21	Rose species	17.6	1.8	10.0	0.1	0.8	1.4	3.0
22	Western marsh cudweed	5.9	1.5	25.0	1.0	17.2	17.2	2.9
23	Fireweed	11.8	2.9	25.0	0.2	1.8	3.4	2.8
24	Volunteer wheat	17.6	0.9	5.0	0.1	0.3	0.6	2.5
25	Perennial sow-thistle	5.9	2.9	50.0	0.4	6.8	6.8	2.4
26	Common yarrow	11.8	1.5	12.5	0.1	0.6	0.8	2.0
27	Bluebur	11.8	0.9	7.5	< 0.1	0.3	0.4	1.8
28	Low cudweed	5.9	0.6	10.0	0.4	6.2	6.2	1.5
29	Quack grass	5.9	1.2	20.0	0.1	1.2	1.2	1.2
30	Redtop	5.9	0.9	15.0	0.1	1.0	1.0	1.1
31	Rough cinquefoil	5.9	0.9	15.0	< 0.1	0.6	0.6	1.1
32	Two-grooved milk-vetch	5.9	0.9	15.0	< 0.1	0.6	0.6	1.1
33	Prostrate knotweed	5.9	0.6	10.0	< 0.1	0.6	0.6	1.0
34	Prostrate pigweed	5.9	0.6	10.0	< 0.1	0.4	0.4	0.9
35	Foxtail barley	5.9	0.3	5.0	< 0.1	0.2	0.2	0.8
36	Sulfur cinquefoil	5.9	0.3	5.0	< 0.1	0.2	0.2	0.8
37	Cream-colored vetchling	5.9	0.3	5.0	< 0.1	0.2	0.2	0.8

Table 96. Canola fields in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Field horsetail	68.2	30.6	44.8	7.4	10.8	49.8	38.9
2	Stinkweed	50.0	20.0	40.0	6.0	12.0	75.0	28.7
3	Wild buckwheat	65.9	18.8	28.4	3.9	5.9	61.0	25.8
4	Cleavers	50.0	19.8	39.5	4.3	8.6	51.0	25.0
5	Hemp-nettle	31.8	11.1	35.0	5.8	18.1	199.2	21.4
6	Narrow-leaved hawk's-beard	34.1	11.3	33.0	5.4	15.9	137.2	21.1
7	Volunteer wheat	27.3	8.3	30.4	3.7	13.4	128.2	15.1
8	Alsike clover	25.0	10.8	43.2	3.2	12.8	70.4	15.1
9	Lamb's-quarters	47.7	9.4	19.8	0.7	1.4	4.0	12.4
10	Chickweed	27.3	10.3	37.9	1.6	6.0	24.6	12.0
11	Canada thistle	40.9	6.4	15.6	0.6	1.4	4.2	9.7
12	Dandelion	38.6	6.9	17.9	0.5	1.2	3.8	9.5
13	Wild oats	29.5	7.2	24.2	0.9	3.0	13.6	9.3
14	Pineappleweed	20.5	6.5	31.7	1.5	7.2	32.0	8.9
15	Perennial sow-thistle	25.0	3.5	14.1	0.3	1.1	3.2	5.6
16	Pale smartweed	20.5	3.3	16.1	0.4	1.8	5.8	5.1
17	Prostrate pigweed	9.1	4.2	46.3	0.6	6.9	15.6	4.5
18	Shepherd's-purse	15.9	3.1	19.3	0.3	1.9	8.0	4.2
19	Common groundsel	13.6	3.2	23.3	0.3	1.8	6.0	3.9
20	Bluebur	15.9	2.0	12.9	0.1	0.7	2.4	3.4
21	Rough cinquefoil	4.5	2.5	55.0	0.7	16.4	30.0	3.3
22	Quack grass	6.8	1.1	16.7	0.4	6.2	18.0	2.3
23	Corn spurry	4.5	1.5	32.5	0.1	3.0	4.8	1.6
24	Spiny annual sow-thistle	6.8	0.8	11.7	< 0.1	0.7	1.2	1.4
25	American dragonhead	6.8	0.7	10.0	< 0.1	0.7	1.0	1.3
26	Broad-leaved plantain	6.8	0.6	8.3	0.1	0.7	1.6	1.3
27	Round-leaved mallow	4.5	0.5	10.0	< 0.1	0.4	0.6	0.9
28	Low cudweed	4.5	0.3	7.5	< 0.1	0.7	0.8	0.8
29	Volunteer barley	4.5	0.2	5.0	< 0.1	0.5	0.8	0.8
30	Pygmyflower	2.3	0.3	15.0	0.1	4.6	4.6	0.7
31	Foxtail barley	2.3	0.5	20.0	< 0.1	1.4	1.4	0.6
32	Common pepper-grass	2.3	0.5	20.0	< 0.1	0.8	0.8	0.6
33	Yellow toadflax	2.3	0.3	15.0	< 0.1	1.0	1.0	0.5
34	Tall fescue	2.3	0.2	10.0	< 0.1	1.8	1.8	0.5
35	Biennial wormwood	2.3	0.3	15.0	< 0.1	0.6	0.6	0.5
36	Common yarrow	2.3	0.3	15.0	< 0.1	0.6	0.6	0.5
37	Volunteer canola	2.3	0.1	5.0	< 0.1	0.4	0.4	0.4
38	Fireweed	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Two-grooved milk-vetch	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4
40	Wild radish	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4
41	Rose species	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4
42	Stork's-bill	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4
43	Milk-vetch species	2.3	0.1	5.0	< 0.1	0.2	0.2	0.4

Table 97. All fields in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	67.6	30.5	45.2	5.4	8.0	112.2	39.7
2	Chickweed	33.7	15.9	47.2	10.9	32.3	1727.2	38.5
3	Wild oats	53.8	22.5	41.9	6.0	11.2	379.6	34.5
4	Canada thistle	50.8	12.1	23.8	1.2	2.3	16.4	17.5
5	Pale smartweed	25.4	8.7	34.3	2.5	9.9	145.2	14.5
6	Stinkweed	34.7	8.7	25.1	1.8	5.2	203.2	14.5
7	Green foxtail	16.3	6.7	41.2	3.0	18.6	271.2	13.1
8	Lamb's-quarters	32.4	7.0	21.6	1.4	4.4	268.8	12.3
9	Shepherd's-purse	27.9	7.6	27.1	1.3	4.5	90.4	11.5
10	Cleavers	22.6	7.1	31.2	1.0	4.2	27.6	9.7
11	Hemp-nettle	26.1	6.1	23.5	0.9	3.3	37.0	9.5
12	Perennial sow-thistle	30.7	5.9	19.3	0.5	1.8	24.4	9.4
13	Quack grass	25.1	5.8	22.9	0.9	3.7	44.6	9.3
14	Volunteer canola	15.8	4.0	25.5	1.0	6.2	143.2	7.0
15	Volunteer wheat	13.6	5.2	38.1	0.7	5.1	32.2	6.6
16	Dandelion	17.8	3.6	19.9	0.4	2.2	32.0	5.7
17	Narrow-leaved hawk's-beard	17.3	3.5	20.2	0.4	2.5	55.6	5.7
18	Field horsetail	12.3	2.4	19.8	0.4	3.2	26.0	4.2
19	Redroot pigweed	7.5	1.6	21.7	0.6	7.5	111.6	3.4
20	Corn spurry	2.8	1.5	53.2	0.8	29.1	182.4	3.1
21	Common groundsel	10.1	1.9	19.0	0.2	1.6	14.2	3.0
22	Volunteer barley	6.5	1.9	29.2	0.4	6.0	71.4	3.0
23	Pineappleweed	8.5	1.5	17.6	0.3	3.4	32.6	2.9
24	White clover	4.8	1.5	31.1	0.5	9.7	96.6	2.6
25	Stork's-bill	5.5	1.2	21.1	0.2	3.5	40.0	2.0
26	Annual sow-thistle	2.8	1.1	38.6	0.3	9.5	48.0	1.6
27	Volunteer alfalfa	2.3	0.9	41.7	0.3	12.8	78.4	1.5
28	Wild mustard	3.8	0.6	17.0	0.1	2.4	30.0	1.2
29	Spiny annual sow-thistle	1.0	0.5	52.5	0.3	29.1	83.6	1.1
30	Ball mustard	2.3	0.6	28.3	0.1	5.6	28.8	1.0
31	Bluebur	2.5	0.6	24.5	0.1	2.8	9.6	0.9
32	Low cudweed	0.3	0.2	95.0	0.3	121.2	121.2	0.9
33	Round-leaved mallow	2.0	0.6	27.5	0.1	2.6	9.6	0.7
34	Scentless chamomile	2.0	0.4	19.4	0.1	2.7	9.6	0.7
35	White cockle	2.8	0.2	6.8	< 0.1	0.4	1.2	0.6
36	Russian thistle	1.5	0.4	24.2	< 0.1	2.9	12.8	0.5
37	Volunteer oats	0.8	0.4	50.0	0.1	11.6	22.0	0.5
38	Knawel	1.0	0.3	32.5	0.1	7.1	22.4	0.5
39	Rose species	1.8	0.2	12.1	< 0.1	1.2	5.6	0.5
40	Kochia	1.5	0.2	12.5	< 0.1	1.4	2.8	0.4
41	Flixweed	1.5	0.2	10.8	< 0.1	0.5	0.8	0.4
42	Foxtail barley	1.0	0.1	12.5	0.1	5.4	19.8	0.4
43	Wormseed mustard	0.3	0.2	90.0	0.1	25.6	25.6	0.3
44	Yellow toadflax	1.0	0.2	15.0	< 0.1	2.5	4.6	0.3
45	Yellow sweet-clover	0.3	0.3	100.0	< 0.1	16.6	16.6	0.3
46	Night-flowering catchfly	1.0	0.2	15.0	< 0.1	1.0	2.0	0.3
47	Field bindweed	1.0	0.1	7.5	< 0.1	0.4	0.4	0.2
48	Alsike clover	0.5	0.2	35.0	< 0.1	3.1	6.0	0.2
49	Broad-leaved plantain	0.8	0.1	16.7	< 0.1	0.8	1.8	0.2
50	Prostrate knotweed	0.8	0.1	13.3	< 0.1	0.7	1.6	0.2
51	Volunteer flax	0.3	0.1	50.0	< 0.1	14.0	14.0	0.2
52	Cow cockle	0.8	0.1	11.7	< 0.1	0.5	0.8	0.2

(Table continued on next page)

Table 97. All fields in the North Region (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High	Occurrence		
53	Tartary buckwheat	0.3	0.2	60.0	< 0.1	6.2	6.2	0.2
54	Wild tomato	0.5	0.1	10.0	< 0.1	0.4	0.6	0.1
55	Downy brome	0.5	< 0.1	5.0	< 0.1	1.3	1.8	0.1
56	Showy milkweed	0.5	< 0.1	7.5	< 0.1	0.5	0.8	0.1
57	Dog mustard	0.5	< 0.1	5.0	< 0.1	0.6	1.0	0.1
58	Volunteer peas	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
59	Smooth brome	0.3	< 0.1	15.0	< 0.1	1.2	1.2	0.1
60	Volunteer fall rye	0.3	< 0.1	10.0	< 0.1	2.2	2.2	0.1
61	Absinth	0.3	< 0.1	10.0	< 0.1	2.0	2.0	0.1
62	Purslane	0.3	< 0.1	15.0	< 0.1	0.6	0.6	0.1
63	Red clover	0.3	< 0.1	10.0	< 0.1	1.0	1.0	0.1
64	Pasture sage	0.3	< 0.1	10.0	< 0.1	0.8	0.8	0.1
65	Wild chamomile	0.3	< 0.1	5.0	< 0.1	2.0	2.0	0.1
66	American dragonhead	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
67	Wood whitlow-grass	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
68	Tansy	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
69	Rough cinquefoil	0.3	< 0.1	5.0	< 0.1	1.0	1.0	0.1
70	Small-seeded false flax	0.3	< 0.1	5.0	< 0.1	0.8	0.8	0.1
71	Ground-ivy	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
72	Russian pigweed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 98. Spring wheat fields in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild buckwheat	71.9	34.1	47.5	5.4	7.6	77.4	50.8
2	Wild oats	53.7	17.9	33.2	4.1	7.7	167.0	33.5
3	Chickweed	29.8	13.9	46.7	4.6	15.6	107.6	28.9
4	Canada thistle	56.2	11.5	20.4	1.0	1.9	16.2	19.7
5	Pale smartweed	25.6	8.4	32.7	2.3	9.1	98.4	17.2
6	Volunteer canola	19.0	5.7	29.8	1.9	9.8	143.2	12.8
7	Cleavers	27.3	8.2	30.0	1.0	3.6	23.6	12.7
8	Shepherd's-purse	30.6	7.4	24.2	0.9	2.9	12.4	12.5
9	Green foxtail	14.9	7.4	49.4	1.5	9.8	30.2	11.8
10	Perennial sow-thistle	32.2	6.4	19.9	0.7	2.1	24.4	11.5
11	Stinkweed	32.2	4.5	14.0	0.5	1.6	26.2	9.7
12	Hemp-nettle	24.8	5.2	20.8	0.6	2.3	23.2	9.2
13	Redroot pigweed	9.1	2.5	27.3	1.3	14.1	111.6	7.3
14	Lamb's-quarters	26.4	3.3	12.5	0.3	1.1	7.0	7.3
15	Quack grass	23.1	3.5	15.2	0.3	1.5	7.6	7.1
16	Narrow-leaved hawk's-beard	18.2	3.6	19.5	0.4	2.0	8.2	6.3
17	Dandelion	19.0	3.0	15.7	0.3	1.4	16.6	5.8
18	Field horsetail	15.7	2.9	18.4	0.4	2.8	26.0	5.8
19	Stork's-bill	7.4	2.8	37.8	0.6	7.6	40.0	4.8
20	Common groundsel	9.1	1.9	20.5	0.2	2.1	14.2	3.3
21	Annual sow-thistle	4.1	1.4	35.0	0.3	7.8	33.8	2.6
22	Pineappleweed	9.1	1.3	14.5	0.1	1.0	4.6	2.6
23	Volunteer barley	8.3	1.1	13.5	0.1	1.1	4.8	2.3
24	Corn spurry	2.5	1.0	38.3	0.2	7.9	22.2	1.6
25	Ball mustard	2.5	0.8	31.7	0.1	4.5	12.4	1.3
26	White clover	4.1	0.7	17.0	< 0.1	1.0	3.0	1.2
27	Yellow toadflax	2.5	0.3	13.3	< 0.1	1.9	4.6	0.8
28	Volunteer wheat	0.8	0.5	65.0	0.1	10.8	10.8	0.8
29	Night-flowering catchfly	2.5	0.4	16.7	< 0.1	1.2	2.0	0.8
30	White cockle	3.3	0.2	7.5	< 0.1	0.5	1.2	0.7
31	Bluebur	0.8	0.6	70.0	0.1	9.2	9.2	0.7
32	Volunteer oats	0.8	0.4	45.0	0.1	12.6	12.6	0.7
33	Scentless chamomile	1.7	0.4	22.5	0.1	3.8	6.2	0.7
34	Wild mustard	3.3	0.2	5.0	< 0.1	0.2	0.2	0.7
35	Flixweed	2.5	0.3	11.7	< 0.1	0.5	0.8	0.6
36	Kochia	1.7	0.2	15.0	< 0.1	1.5	2.8	0.5
37	Prostrate knotweed	1.7	0.3	17.5	< 0.1	1.0	1.6	0.5
38	Foxtail barley	1.7	0.1	7.5	< 0.1	0.5	0.6	0.4
39	Rose species	1.7	0.1	7.5	< 0.1	0.4	0.6	0.4
40	Knawel	0.8	0.2	20.0	< 0.1	3.4	3.4	0.3
41	Purslane	0.8	0.1	15.0	< 0.1	0.6	0.6	0.2
42	Downy brome	0.8	< 0.1	5.0	< 0.1	1.8	1.8	0.2
43	Round-leaved mallow	0.8	0.1	10.0	< 0.1	0.4	0.4	0.2
44	Wood whitlow-grass	0.8	0.1	10.0	< 0.1	0.4	0.4	0.2
45	Field bindweed	0.8	< 0.1	5.0	< 0.1	0.4	0.4	0.2
46	Russian pigweed	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
47	Wild tomato	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
48	Volunteer peas	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 99. Barley fields in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Chickweed	37.8	19.1	50.4	24.0	63.6	1727.2	56.4
2	Wild oats	63.0	28.3	44.9	10.1	16.1	379.6	42.9
3	Wild buckwheat	68.5	28.5	41.7	4.3	6.3	101.0	34.4
4	Canada thistle	44.9	9.6	21.4	0.9	2.0	11.4	14.3
5	Lamb's-quarters	31.5	7.2	23.0	3.0	9.6	268.8	14.2
6	Green foxtail	17.3	6.3	36.1	3.6	20.7	172.6	12.2
7	Pale smartweed	22.8	6.8	29.7	2.5	11.2	145.2	11.8
8	Stinkweed	29.1	8.1	27.7	0.8	2.8	17.8	10.7
9	Quack grass	26.0	6.3	24.4	1.3	5.1	35.6	10.0
10	Hemp-nettle	29.1	5.7	19.5	0.6	2.0	18.4	9.0
11	Shepherd's-purse	20.5	5.9	28.8	0.7	3.5	25.0	7.9
12	Cleavers	18.9	5.6	29.8	0.9	4.5	26.0	7.7
13	Perennial sow-thistle	26.8	4.3	15.9	0.4	1.3	10.0	7.4
14	Volunteer canola	17.3	4.3	25.0	1.0	5.8	86.4	6.9
15	Volunteer wheat	17.3	4.8	28.0	0.5	2.9	16.4	6.4
16	Narrow-leaved hawk's-beard	18.9	3.9	20.4	0.4	1.9	18.4	5.9
17	Dandelion	16.5	3.5	21.4	0.5	2.9	32.0	5.5
18	White clover	5.5	3.1	57.1	1.4	24.5	96.6	4.9
19	Field horsetail	10.2	1.7	16.5	0.2	2.1	9.6	3.0
20	Volunteer alfalfa	3.9	1.8	46.0	0.8	19.8	78.4	2.9
21	Pineappleweed	8.7	1.6	18.2	0.4	4.3	32.6	2.9
22	Redroot pigweed	7.9	1.3	16.5	0.3	4.1	30.2	2.6
23	Common groundsel	9.4	1.3	14.2	0.1	0.9	3.0	2.5
24	Low cudweed	0.8	0.7	95.0	1.0	121.2	121.2	2.1
25	Wild mustard	4.7	1.5	32.5	0.3	5.6	30.0	2.1
26	Round-leaved mallow	3.9	1.0	25.0	0.1	2.0	4.4	1.3
27	Spiny annual sow-thistle	1.6	0.9	57.5	0.3	16.2	29.0	1.2
28	Stork's-bill	4.7	0.6	12.5	< 0.1	0.7	1.6	1.2
29	Annual sow-thistle	2.4	1.0	41.7	0.1	5.5	14.2	1.2
30	Russian thistle	2.4	0.8	33.3	0.1	4.9	12.8	1.0
31	Rose species	3.1	0.5	16.3	0.1	1.9	5.6	0.9
32	Broad-leaved plantain	2.4	0.4	16.7	< 0.1	0.8	1.8	0.6
33	White cockle	3.1	0.2	5.0	< 0.1	0.3	0.4	0.6
34	Scentless chamomile	2.4	0.3	13.3	< 0.1	1.1	1.6	0.6
35	Corn spurry	1.6	0.4	22.5	0.1	4.7	8.6	0.6
36	Bluebur	2.4	0.2	8.3	< 0.1	0.5	1.0	0.5
37	Field bindweed	2.4	0.2	8.3	< 0.1	0.3	0.4	0.5
38	Tartary buckwheat	0.8	0.5	60.0	< 0.1	6.2	6.2	0.5
39	Kochia	1.6	0.2	15.0	< 0.1	1.7	2.8	0.4
40	Smooth brome	0.8	0.1	15.0	< 0.1	1.2	1.2	0.2
41	Wild tomato	0.8	0.1	15.0	< 0.1	0.6	0.6	0.2
42	Showy milkweed	0.8	0.1	10.0	< 0.1	0.8	0.8	0.2
43	Foxtail barley	0.8	0.1	10.0	< 0.1	0.6	0.6	0.2
44	Cow cockle	0.8	0.1	10.0	< 0.1	0.6	0.6	0.2
45	Night-flowering catchfly	0.8	0.1	10.0	< 0.1	0.4	0.4	0.2
46	Flixweed	0.8	0.1	10.0	< 0.1	0.4	0.4	0.2
47	Ball mustard	0.8	0.1	10.0	< 0.1	0.4	0.4	0.2
48	Wild chamomile	0.8	< 0.1	5.0	< 0.1	2.0	2.0	0.2
49	Downy brome	0.8	< 0.1	5.0	< 0.1	0.8	0.8	0.2
50	Alsike clover	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
51	Volunteer oats	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
52	Volunteer peas	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 100. Oat fields in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All High	Occurrence		
1	Wild buckwheat	78.4	44.7	57.1	13.5	17.3	112.2	51.0
2	Green foxtail	43.2	20.1	46.6	13.6	31.4	271.2	35.0
3	Chickweed	32.4	16.8	51.7	10.2	31.6	150.8	27.1
4	Wild oats	32.4	15.3	47.1	2.5	7.8	31.2	15.3
5	Stinkweed	29.7	9.6	32.3	4.2	14.3	134.6	14.9
6	Canada thistle	40.5	12.8	31.7	1.4	3.5	14.6	13.9
7	Volunteer barley	24.3	10.5	43.3	3.2	13.0	71.4	12.9
8	Pale smartweed	29.7	11.5	38.6	2.0	6.8	20.6	12.5
9	Hemp-nettle	29.7	10.3	34.5	2.3	7.7	33.4	12.4
10	Corn spurry	8.1	6.8	83.3	5.5	67.7	182.4	12.1
11	Quack grass	35.1	8.5	24.2	1.6	4.5	19.4	11.4
12	Lamb's-quarters	32.4	7.6	23.3	1.1	3.4	10.4	9.9
13	Dandelion	16.2	8.5	52.5	1.1	6.5	21.6	7.7
14	Cleavers	16.2	6.9	42.5	0.7	4.4	7.2	6.5
15	Field horsetail	13.5	5.4	40.0	1.0	7.6	16.0	5.9
16	Shepherd's-purse	16.2	3.6	22.5	0.4	2.4	6.8	4.7
17	Perennial sow-thistle	18.9	3.0	15.7	0.3	1.5	4.0	4.7
18	Volunteer wheat	10.8	3.9	36.3	0.8	7.4	21.4	4.5
19	Narrow-leaved hawk's-beard	18.9	2.6	13.6	0.2	0.8	2.2	4.3
20	Volunteer canola	16.2	3.0	18.3	0.2	1.5	3.6	4.2
21	Knawel	8.1	3.0	36.7	0.7	8.3	22.4	3.5
22	Redroot pigweed	8.1	3.5	43.3	0.2	3.1	5.4	3.1
23	Volunteer alfalfa	5.4	2.4	45.0	0.3	5.3	10.0	2.3
24	Round-leaved mallow	5.4	2.3	42.5	0.3	5.1	9.6	2.2
25	Yellow sweet-clover	2.7	2.7	100.0	0.4	16.6	16.6	2.2
26	Bluebur	5.4	2.4	45.0	0.2	3.1	5.0	2.1
27	White cockle	8.1	0.7	8.3	< 0.1	0.5	0.8	1.6
28	Volunteer flax	2.7	1.4	50.0	0.4	14.0	14.0	1.5
29	Russian thistle	5.4	1.1	20.0	0.1	1.3	2.2	1.4
30	White clover	5.4	0.7	12.5	< 0.1	0.9	1.6	1.2
31	Stork's-bill	5.4	0.4	7.5	0.1	1.7	3.0	1.2
32	Flixweed	5.4	0.5	10.0	< 0.1	0.6	0.8	1.1
33	Common groundsel	5.4	0.3	5.0	< 0.1	0.2	0.2	1.0
34	Pineappleweed	2.7	0.5	20.0	< 0.1	1.4	1.4	0.7
35	Cow cockle	2.7	0.5	20.0	< 0.1	0.8	0.8	0.7
36	Scentless chamomile	2.7	0.4	15.0	< 0.1	1.0	1.0	0.6
37	Volunteer fall rye	2.7	0.3	10.0	0.1	2.2	2.2	0.6
38	Kochia	2.7	0.3	10.0	< 0.1	1.6	1.6	0.6
39	Red clover	2.7	0.3	10.0	< 0.1	1.0	1.0	0.6
40	Dog mustard	2.7	0.1	5.0	< 0.1	0.2	0.2	0.5
41	Rose species	2.7	0.1	5.0	< 0.1	0.2	0.2	0.5

Table 101. Canola fields in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	48.9	22.6	46.1	3.9	7.9	74.8	36.9
2	Wild buckwheat	56.5	23.2	41.1	2.9	5.2	30.2	34.8
3	Chickweed	31.5	13.9	44.0	2.4	7.7	31.4	23.1
4	Stinkweed	45.7	13.2	28.9	1.9	4.1	33.4	23.0
5	Canada thistle	51.1	13.3	26.1	1.2	2.3	11.8	21.3
6	Shepherd's-purse	34.8	11.1	32.0	2.1	6.0	42.4	20.8
7	Pale smartweed	23.9	8.1	33.9	2.3	9.5	93.2	17.8
8	Lamb's-quarters	38.0	9.7	25.4	0.8	2.2	9.4	15.6
9	Volunteer wheat	21.7	10.1	46.5	1.3	6.0	32.2	14.8
10	Quack grass	26.1	7.2	27.7	1.1	4.1	44.6	12.9
11	Cleavers	22.8	7.8	34.3	1.1	4.9	27.6	12.9
12	Perennial sow-thistle	28.3	5.5	19.4	0.4	1.2	5.6	9.5
13	Green foxtail	9.8	2.7	27.8	0.9	8.8	40.0	6.7
14	Hemp-nettle	18.5	3.5	18.8	0.3	1.7	7.4	6.5
15	Common groundsel	13.0	3.6	27.9	0.3	2.3	7.2	5.6
16	Field horsetail	10.9	2.0	18.0	0.4	3.3	20.6	4.5
17	Narrow-leaved hawk's-beard	12.0	2.3	19.5	0.2	1.4	7.2	4.1
18	Dandelion	14.1	1.6	11.5	0.1	0.7	2.6	3.8
19	Pineappleweed	8.7	1.5	16.9	0.3	3.8	23.8	3.7
20	Ball mustard	5.4	1.6	30.0	0.4	7.2	28.8	3.4
21	Annual sow-thistle	2.2	1.3	60.0	0.5	24.7	48.0	3.2
22	Volunteer barley	6.5	1.7	26.7	0.2	3.2	8.6	3.0
23	Volunteer oats	1.1	1.1	100.0	0.2	22.0	22.0	1.8
24	Redroot pigweed	4.3	0.3	7.5	0.2	4.2	15.4	1.7
25	Bluebur	3.3	0.5	16.7	0.1	3.3	9.6	1.3
26	White clover	4.3	0.5	12.5	< 0.1	1.0	2.0	1.3
27	Corn spurry	1.1	0.7	65.0	0.1	11.4	11.4	1.1
28	Wild mustard	3.3	0.2	6.7	< 0.1	0.3	0.4	0.7
29	Stork's-bill	3.3	0.2	6.7	< 0.1	0.3	0.4	0.7
30	Volunteer canola	1.1	0.2	20.0	< 0.1	2.0	2.0	0.4
31	Pasture sage	1.1	0.1	10.0	< 0.1	0.8	0.8	0.3
32	American dragonhead	1.1	0.1	10.0	< 0.1	0.4	0.4	0.3
33	Tansy	1.1	0.1	10.0	< 0.1	0.4	0.4	0.3
34	Rough cinquefoil	1.1	0.1	5.0	< 0.1	1.0	1.0	0.3
35	Dog mustard	1.1	0.1	5.0	< 0.1	1.0	1.0	0.3
36	Scentless chamomile	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
37	Cow cockle	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
38	Prostrate knotweed	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
39	Kochia	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
40	Showy milkweed	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
41	Spiny annual sow-thistle	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
42	Russian thistle	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
43	Volunteer alfalfa	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2

Table 102. Field pea fields in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Stinkweed	42.9	13.2	30.8	14.8	34.5	203.2	30.7
2	Wild oats	71.4	27.5	38.5	7.1	10.0	27.6	28.6
3	Perennial sow-thistle	92.9	27.1	29.2	2.9	3.1	11.6	24.8
4	Wild buckwheat	64.3	22.9	35.6	4.4	6.9	31.4	22.2
5	Canada thistle	78.6	20.7	26.4	2.7	3.5	10.6	20.6
6	Shepherd's-purse	50.0	11.4	22.9	6.7	13.5	90.4	19.4
7	Volunteer wheat	50.0	21.8	43.6	3.8	7.5	16.4	19.3
8	Pale smartweed	28.6	15.0	52.5	4.9	17.3	53.4	15.9
9	Lamb's-quarters	57.1	15.0	26.3	2.0	3.6	17.0	15.0
10	Narrow-leaved hawk's-beard	35.7	11.8	33.0	4.2	11.8	55.6	14.4
11	Volunteer canola	64.3	12.5	19.4	1.6	2.5	12.6	14.2
12	Spiny annual sow-thistle	7.1	6.4	90.0	6.0	83.6	83.6	11.7
13	Pineappleweed	21.4	6.1	28.3	1.8	8.5	23.4	7.3
14	Cleavers	21.4	7.1	33.3	1.4	6.6	13.0	7.1
15	Hemp-nettle	28.6	5.7	20.0	0.8	2.8	8.8	6.5
16	Dandelion	42.9	3.6	8.3	0.2	0.5	1.4	6.4
17	Chickweed	21.4	3.2	15.0	1.2	5.6	16.4	5.3
18	Quack grass	14.3	5.7	40.0	0.3	2.2	4.2	4.2
19	Volunteer barley	7.1	5.4	75.0	0.6	8.8	8.8	3.7
20	Foxtail barley	7.1	1.8	25.0	1.4	19.8	19.8	3.5
21	Scentless chamomile	7.1	3.6	50.0	0.7	9.6	9.6	3.1
22	Common groundsel	21.4	1.4	6.7	0.1	0.3	0.4	3.0
23	Wild mustard	14.3	1.4	10.0	0.1	0.5	0.6	2.2
24	Yellow toadflax	7.1	1.4	20.0	0.3	4.4	4.4	1.8
25	White clover	7.1	2.1	30.0	0.1	1.2	1.2	1.7
26	Field horsetail	7.1	1.1	15.0	0.3	4.2	4.2	1.6
27	Redroot pigweed	7.1	1.4	20.0	0.1	1.4	1.4	1.5
28	Absinth	7.1	0.7	10.0	0.1	2.0	2.0	1.3
29	Small-seeded false flax	7.1	0.4	5.0	0.1	0.8	0.8	1.0
30	Ground-ivy	7.1	0.4	5.0	< 0.1	0.2	0.2	0.9
31	Stork's-bill	7.1	0.4	5.0	< 0.1	0.2	0.2	0.9

Table 103. All fields in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	63.1	26.2	41.1	5.1	7.9	175.0	39.0
2	Wild oats	49.4	19.3	38.9	6.3	12.6	201.2	35.2
3	Chickweed	23.9	13.9	58.1	8.6	36.1	203.2	32.8
4	Annual sow-thistle	30.1	11.7	39.0	4.1	13.7	275.2	22.1
5	Canada thistle	44.4	11.5	25.9	1.3	2.9	29.4	18.1
6	Stinkweed	34.5	11.0	31.5	1.7	4.8	89.0	16.8
7	Lamb's-quarters	26.4	8.1	30.3	1.8	6.7	118.2	13.9
8	Green foxtail	17.7	4.3	24.0	3.4	19.2	469.9	13.8
9	Cleavers	15.6	6.2	39.5	1.5	9.6	95.0	10.0
10	Dandelion	25.7	5.6	21.7	0.6	2.2	43.8	9.4
11	Hemp-nettle	17.0	5.9	34.6	1.0	5.6	75.4	8.9
12	Quack grass	14.1	3.6	25.3	1.2	8.4	114.0	7.5
13	Shepherd's-purse	16.7	4.8	28.8	0.7	4.0	31.2	7.5
14	Volunteer canola	15.6	4.5	28.8	0.5	2.9	20.6	6.6
15	Volunteer barley	6.5	3.2	48.9	0.6	9.9	42.6	4.6
16	Redroot pigweed	9.4	2.2	22.2	0.4	3.7	54.2	3.9
17	Perennial sow-thistle	9.7	2.2	22.6	0.2	2.0	8.0	3.6
18	Pale smartweed	10.2	1.7	16.1	0.2	1.6	7.6	3.3
19	Volunteer wheat	7.2	1.7	24.0	0.2	2.9	25.4	2.9
20	Kochia	6.5	1.5	22.0	0.3	4.7	48.4	2.9
21	Narrow-leaved hawk's-beard	10.4	1.2	11.3	0.1	0.8	6.8	2.8
22	Common groundsel	6.9	1.3	18.4	0.3	4.5	62.0	2.7
23	Prostrate knotweed	4.7	1.8	35.4	0.3	6.6	55.8	2.7
24	Flixweed	6.9	1.6	23.0	0.2	2.6	19.4	2.6
25	Stork's-bill	4.7	2.0	43.1	0.2	4.8	23.8	2.6
26	Russian thistle	5.0	1.5	27.8	0.3	5.6	40.0	2.5
27	Thyme-leaved spurge	3.3	1.2	36.1	0.2	7.0	31.8	1.8
28	Foxtail barley	5.1	0.9	17.5	0.1	1.3	6.8	1.6
29	Corn spurry	2.5	1.0	38.6	0.1	5.4	19.6	1.4
30	White clover	1.8	0.9	47.0	0.2	9.8	24.0	1.3
31	Rose species	4.2	0.4	9.4	0.1	1.2	4.6	1.2
32	Wild mustard	3.6	0.6	17.5	< 0.1	1.1	4.6	1.1
33	Round-leaved mallow	3.6	0.6	16.0	< 0.1	1.0	4.2	1.1
34	Night-flowering catchfly	1.4	0.7	47.5	0.2	12.1	31.6	1.1
35	Pineappleweed	1.8	0.6	34.0	0.1	6.3	20.4	1.0
36	Rough cinquefoil	0.7	0.5	70.0	0.2	22.3	38.6	0.8
37	Bluebur	2.8	0.4	12.3	< 0.1	0.6	2.2	0.8
38	Field horsetail	2.5	0.4	14.3	< 0.1	1.5	5.0	0.8
39	Volunteer alfalfa	0.7	0.5	67.5	0.1	19.1	35.8	0.7
40	Aspen poplar	1.8	0.2	13.0	< 0.1	1.8	7.6	0.6
41	Yellow toadflax	1.8	0.2	10.0	< 0.1	1.2	3.0	0.5
42	Broad-leaved plantain	1.8	0.2	10.0	< 0.1	0.6	1.0	0.5
43	White cockle	1.1	0.3	30.0	< 0.1	2.8	6.2	0.5
44	Volunteer flax	0.4	0.3	75.0	0.1	25.2	25.2	0.4
45	Vetch species	1.1	0.3	25.0	< 0.1	2.7	5.4	0.4
46	Barnyard grass	0.4	0.1	40.0	0.1	27.4	27.4	0.4
47	Narrow-leaved vetch	1.4	0.1	8.8	< 0.1	0.5	0.6	0.4
48	Wild chamomile	0.7	0.2	27.5	< 0.1	2.6	4.4	0.3
49	Cow cockle	1.1	0.1	11.7	< 0.1	0.7	1.2	0.3
50	Common pepper-grass	1.0	0.1	8.8	< 0.1	0.6	1.0	0.3
51	Yellow sweet-clover	1.1	0.1	5.0	< 0.1	0.3	0.4	0.2
52	Wild tomato	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2

(Table continued on next page)

Table 103. All fields in the Central Region (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Scouring-rush	0.4	0.2	55.0	< 0.1	4.8	4.8	0.2
54	Spear-leaved goosefoot	0.4	0.1	15.0	< 0.1	6.6	6.6	0.2
55	Russian pigweed	0.4	0.1	30.0	< 0.1	2.4	2.4	0.2
56	Henbit	0.4	0.1	25.0	< 0.1	3.4	3.4	0.1
57	Toad rush	0.4	< 0.1	10.0	< 0.1	6.0	6.0	0.1
58	American dragonhead	0.4	0.1	25.0	< 0.1	1.0	1.0	0.1
59	Curled dock	0.4	< 0.1	10.0	< 0.1	0.6	0.6	0.1
60	Spiny annual sow-thistle	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
61	Blue lettuce	0.4	< 0.1	8.8	< 0.1	0.6	0.6	0.1
62	Field mint	0.4	< 0.1	5.0	< 0.1	0.8	0.8	0.1
63	Scentless chamomile	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
64	Prickly lettuce	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Two-grooved milk-vetch	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Prostrate pigweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Pasture sage	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
68	Wood whitlow-grass	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Biennial wormwood	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 104. Spring wheat fields in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Wild oats	45.0	16.3	35.7	5.4	11.8	165.8	44.3
2	Wild buckwheat	58.9	22.2	37.4	2.8	4.8	56.2	42.6
3	Chickweed	13.9	8.8	63.6	5.2	37.4	124.8	30.3
4	Annual sow-thistle	21.8	8.1	37.3	2.7	12.2	159.8	21.9
5	Canada thistle	43.1	10.0	22.9	0.8	1.9	7.0	21.4
6	Stinkweed	28.0	8.5	29.7	0.9	3.2	10.3	16.9
7	Dandelion	23.8	5.3	22.3	0.7	3.0	43.8	12.6
8	Green foxtail	11.9	2.6	21.9	1.3	11.0	73.1	9.9
9	Cleavers	9.9	3.8	38.5	1.0	10.4	78.6	9.3
10	Shepherd's-purse	13.9	4.2	30.4	0.7	5.0	31.2	9.3
11	Volunteer canola	14.9	3.8	25.8	0.4	2.4	9.4	7.9
12	Volunteer barley	6.9	3.6	52.1	0.7	10.6	28.6	7.4
13	Lamb's-quarters	15.3	2.9	18.4	0.3	1.9	15.2	7.1
14	Perennial sow-thistle	8.9	2.8	31.1	0.2	2.5	7.8	5.2
15	Quack grass	7.9	1.9	23.8	0.3	4.3	20.0	4.7
16	Russian thistle	7.4	2.0	25.5	0.3	4.2	21.5	4.6
17	Kochia	5.2	1.3	21.9	0.5	8.5	48.4	4.2
18	Pale smartweed	9.9	1.2	12.5	0.2	1.6	6.2	3.9
19	Thyme-leaved spurge	4.0	1.7	43.8	0.4	9.1	31.8	3.7
20	Hemp-nettle	6.9	1.8	26.4	0.1	1.9	4.6	3.6
21	Prostrate knotweed	5.2	1.9	31.9	0.2	3.2	12.0	3.5
22	Redroot pigweed	7.9	1.3	15.1	0.1	1.1	4.9	3.3
23	Foxtail barley	7.9	1.3	16.9	0.1	1.1	5.0	3.3
24	Flixweed	5.9	1.0	16.7	0.1	1.0	2.8	2.4
25	Common groundsel	5.0	0.8	17.0	0.1	1.4	4.2	2.1
26	Narrow-leaved hawk's-beard	6.7	0.5	7.7	< 0.1	0.3	1.0	2.1
27	Stork's-bill	3.0	1.2	40.0	0.1	2.2	3.6	1.9
28	Pineappleweed	3.0	0.6	20.0	0.1	3.2	8.8	1.5
29	Rose species	4.2	0.4	8.3	< 0.1	1.0	2.8	1.5
30	Round-leaved mallow	3.0	0.3	10.0	< 0.1	0.5	1.0	1.0
31	Corn spurry	2.0	0.3	15.0	< 0.1	2.5	4.8	0.9
32	Scouring-rush	1.0	0.5	55.0	< 0.1	4.8	4.8	0.9
33	Rough cinquefoil	1.0	0.4	40.0	0.1	6.0	6.0	0.8
34	Field horsetail	1.0	0.3	30.0	< 0.1	5.0	5.0	0.7
35	Toad rush	1.0	0.1	10.0	0.1	6.0	6.0	0.5
36	Wild chamomile	1.0	0.2	20.0	< 0.1	0.8	0.8	0.4
37	Bluebur	1.0	0.1	10.0	< 0.1	0.6	0.6	0.3
38	Wild mustard	1.0	0.1	10.0	< 0.1	0.6	0.6	0.3
39	Spiny annual sow-thistle	1.0	0.1	10.0	< 0.1	0.4	0.4	0.3
40	Narrow-leaved vetch	1.0	< 0.1	5.0	< 0.1	0.4	0.4	0.3
41	Yellow sweet-clover	1.0	< 0.1	5.0	< 0.1	0.4	0.4	0.3
42	Aspen poplar	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.3
43	Pasture sage	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.3

Table 105. Barley fields in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Chickweed	38.0	21.1	55.4	14.8	38.8	203.2	46.7
2	Wild buckwheat	62.0	24.2	39.1	4.7	7.7	175.0	33.3
3	Wild oats	55.4	21.0	37.9	5.9	10.7	197.0	32.7
4	Annual sow-thistle	44.6	17.2	38.7	7.7	17.2	275.2	32.1
5	Canada thistle	46.7	14.0	29.9	1.9	4.0	24.2	19.4
6	Cleavers	23.9	10.2	42.7	2.6	11.0	95.0	14.9
7	Hemp-nettle	28.3	9.2	32.7	1.3	4.5	26.8	12.4
8	Stinkweed	29.3	7.6	26.1	1.0	3.4	15.9	11.3
9	Lamb's-quarters	25.0	6.8	27.4	1.6	6.3	79.2	11.2
10	Green foxtail	15.2	4.2	27.9	2.9	19.0	222.0	10.6
11	Dandelion	26.1	5.9	22.5	0.5	2.0	13.4	8.8
12	Quack grass	19.6	4.3	22.2	1.3	6.6	55.0	8.3
13	Shepherd's-purse	19.6	4.3	22.2	0.5	2.4	16.2	6.7
14	Volunteer canola	17.4	4.3	25.0	0.4	2.0	8.6	6.1
15	Volunteer wheat	12.0	3.6	30.5	0.5	4.5	25.4	5.1
16	Common groundsel	8.7	1.7	20.0	0.8	9.0	62.0	4.0
17	Pale smartweed	12.0	2.1	17.3	0.2	1.5	7.6	3.6
18	Perennial sow-thistle	8.7	2.8	31.9	0.3	3.1	8.0	3.6
19	Redroot pigweed	7.6	1.8	23.9	0.1	1.8	4.6	2.6
20	Corn spurry	4.3	2.1	48.8	0.3	7.6	19.6	2.6
21	Prostrate knotweed	2.2	1.1	50.0	0.6	28.3	55.8	2.2
22	Wild mustard	6.5	1.4	21.7	0.1	1.6	4.6	2.1
23	Narrow-leaved hawk's-beard	8.7	0.7	8.6	0.1	0.8	3.0	2.1
24	Russian thistle	2.2	1.1	51.9	0.4	20.4	40.0	1.9
25	Foxtail barley	5.4	1.1	21.0	0.1	2.0	6.8	1.8
26	Stork's-bill	3.3	1.2	36.7	0.2	5.5	14.6	1.6
27	White cockle	3.3	1.0	30.0	0.1	2.8	6.2	1.3
28	Night-flowering catchfly	2.2	0.9	42.5	0.1	6.5	10.0	1.2
29	Thyme-leaved spurge	1.1	0.8	75.0	0.2	22.8	22.8	1.1
30	Barnyard grass	1.1	0.4	40.0	0.3	27.4	27.4	1.0
31	Flixweed	4.3	0.2	5.0	< 0.1	0.3	0.4	0.9
32	Yellow toadflax	3.3	0.4	11.7	< 0.1	1.3	3.0	0.9
33	Bluebur	3.3	0.4	11.7	< 0.1	0.5	0.6	0.8
34	Aspen poplar	2.2	0.4	20.0	0.1	4.0	7.6	0.8
35	Round-leaved mallow	2.2	0.4	17.5	< 0.1	1.3	2.4	0.6
36	Volunteer barley	1.1	0.4	40.0	< 0.1	2.2	2.2	0.5
37	Yellow sweet-clover	2.2	0.1	5.0	< 0.1	0.2	0.2	0.4
38	Henbit	1.1	0.3	25.0	< 0.1	3.4	3.4	0.4
39	Kochia	1.1	0.3	25.0	< 0.1	2.0	2.0	0.4
40	Cow cockle	1.1	0.1	10.0	< 0.1	0.6	0.6	0.3
41	Narrow-leaved vetch	1.1	0.1	10.0	< 0.1	0.6	0.6	0.3
42	Broad-leaved plantain	1.1	0.1	10.0	< 0.1	0.4	0.4	0.3
43	Field mint	1.1	0.1	5.0	< 0.1	0.8	0.8	0.2
44	Scentless chamomile	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
45	Field horsetail	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
46	Prickly lettuce	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
47	Two-grooved milk-vetch	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
48	Prostrate pigweed	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
49	White clover	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2

Table 106. Oat fields in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild buckwheat	68.0	40.0	58.8	13.4	19.7	102.4	53.5
2	Lamb's-quarters	60.0	30.7	51.1	8.7	14.5	118.2	39.6
3	Stinkweed	44.0	19.2	43.6	2.5	5.7	26.8	20.7
4	Hemp-nettle	20.0	15.0	75.0	4.6	23.1	75.4	18.4
5	Quack grass	16.0	9.0	56.3	5.7	35.9	114.0	17.0
6	Wild oats	28.0	8.4	29.8	3.8	13.6	77.4	15.4
7	Dandelion	28.0	9.1	32.3	1.0	3.6	11.0	10.7
8	Chickweed	12.0	8.6	71.7	2.5	21.2	34.6	10.4
9	Green foxtail	28.0	6.1	21.8	1.3	4.5	16.8	9.9
10	Volunteer barley	16.0	8.4	52.5	1.8	11.3	34.0	9.7
11	Redroot pigweed	12.0	4.4	36.7	2.2	18.2	54.2	7.9
12	Volunteer canola	12.0	8.6	71.7	1.1	9.3	20.6	7.9
13	Canada thistle	32.0	4.0	12.5	0.3	0.8	2.0	7.8
14	White clover	8.0	7.0	87.5	1.6	19.7	24.0	7.3
15	Annual sow-thistle	20.0	4.8	24.0	0.3	1.4	3.4	6.2
16	Flixweed	8.0	5.2	65.0	1.1	13.7	19.4	5.7
17	Rough cinquefoil	4.0	4.0	100.0	1.5	38.6	38.6	5.2
18	Stork's-bill	8.0	4.6	57.5	1.0	12.2	23.8	5.2
19	Rose species	21.0	2.1	8.5	0.2	0.9	3.6	5.0
20	Vetch species	12.0	3.0	25.0	0.3	2.7	5.4	4.0
21	Kochia	12.0	2.2	18.3	0.3	2.4	6.6	3.6
22	Russian thistle	8.0	2.2	27.5	0.2	2.0	3.2	2.7
23	Narrow-leaved hawk's-beard	12.0	0.8	6.7	< 0.1	0.4	0.7	2.5
24	Pale smartweed	5.0	2.5	30.6	0.2	2.8	5.6	2.4
25	Shepherd's-purse	8.0	1.6	20.0	0.1	1.3	2.4	2.3
26	Broad-leaved plantain	8.0	1.2	15.0	0.1	1.0	1.0	2.1
27	Volunteer wheat	8.0	0.6	7.5	< 0.1	0.3	0.4	1.7
28	Perennial sow-thistle	8.0	0.5	6.3	< 0.1	0.4	0.5	1.7
29	Corn spurry	4.0	1.8	45.0	0.1	2.4	2.4	1.7
30	Night-flowering catchfly	4.0	1.4	35.0	0.1	3.6	3.6	1.6
31	Bluebur	7.0	0.6	6.9	< 0.1	0.4	0.6	1.5
32	Volunteer alfalfa	4.0	1.4	35.0	0.1	2.4	2.4	1.5
33	Field horsetail	4.0	1.2	30.0	0.1	3.0	3.0	1.4
34	Russian pigweed	4.0	1.2	30.0	0.1	2.4	2.4	1.4
35	Cow cockle	4.0	0.8	20.0	< 0.1	1.2	1.2	1.1
36	Blue lettuce	4.0	0.4	8.8	< 0.1	0.6	0.6	0.9
37	Common pepper-grass	4.0	0.3	7.5	< 0.1	0.7	0.7	0.9
38	Foxtail barley	4.0	0.2	5.0	< 0.1	0.2	0.2	0.8
39	Cleavers	4.0	0.2	5.0	< 0.1	0.2	0.2	0.8

Table 107. Canola fields in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	61.0	31.1	50.4	12.0	19.5	201.2	45.3
2	Wild buckwheat	80.9	37.0	44.9	7.9	9.6	97.8	42.7
3	Chickweed	29.4	18.2	62.0	11.7	39.8	136.8	34.6
4	Stinkweed	61.8	20.0	32.4	3.0	4.8	36.0	23.1
5	Annual sow-thistle	32.4	16.9	52.3	4.1	12.6	47.2	19.7
6	Canada thistle	52.9	15.0	28.3	1.4	2.6	12.6	16.5
7	Lamb's-quarters	35.3	13.1	37.1	1.9	5.4	24.4	14.3
8	Cleavers	23.5	9.6	40.6	1.6	6.6	18.2	10.4
9	Shepherd's-purse	26.5	9.7	36.7	0.9	3.3	10.0	9.6
10	Volunteer barley	11.8	5.6	47.5	1.4	12.3	42.6	6.9
11	Dandelion	29.4	4.3	14.6	0.2	0.8	2.2	6.4
12	Hemp-nettle	20.6	5.6	27.1	0.5	2.6	6.6	6.3
13	Prostrate knotweed	14.0	4.7	31.8	0.4	2.4	4.8	4.7
14	Green foxtail	22.8	2.3	9.8	0.2	0.7	1.6	4.5
15	Quack grass	11.8	2.9	25.0	0.5	4.3	11.0	3.9
16	Flixweed	11.8	3.7	31.3	0.3	2.4	5.4	3.8
17	Volunteer alfalfa	2.9	2.9	100.0	1.1	35.8	35.8	3.7
18	Pineappleweed	5.9	3.2	55.0	0.6	10.9	20.4	3.5
19	Kochia	14.0	2.4	16.3	0.2	1.2	3.7	3.3
20	Narrow-leaved hawk's-beard	11.8	1.6	13.8	0.1	1.0	2.8	2.6
21	Round-leaved mallow	8.8	2.4	26.7	0.2	1.8	4.2	2.6
22	Volunteer wheat	11.8	1.5	12.5	0.1	0.8	1.4	2.5
23	Common groundsel	11.8	1.3	11.3	0.1	0.7	1.4	2.4
24	Pale smartweed	11.8	1.2	10.0	0.1	0.6	1.1	2.3
25	Thyme-leaved spurge	8.8	1.9	21.7	0.1	1.2	2.2	2.3
26	White clover	5.9	1.6	27.5	0.3	4.7	9.2	2.1
27	Redroot pigweed	8.8	1.5	16.7	0.1	1.0	2.6	2.0
28	Russian thistle	5.9	1.5	26.3	0.2	3.1	6.0	1.8
29	Perennial sow-thistle	8.8	0.6	7.1	< 0.1	0.5	1.0	1.6
30	Rose species	5.9	0.9	15.0	0.2	2.6	4.6	1.5
31	Field horsetail	8.8	0.4	5.0	< 0.1	0.3	0.4	1.5
32	Bluebur	5.9	1.2	20.0	0.1	1.2	2.2	1.5
33	Stork's-bill	5.9	0.6	10.0	< 0.1	0.6	1.0	1.1
34	Wild chamomile	2.9	1.0	35.0	0.1	4.4	4.4	1.1
35	Common pepper-grass	5.1	0.6	9.4	< 0.1	0.6	1.0	1.0
36	Spear-leaved goosefoot	2.9	0.4	15.0	0.2	6.6	6.6	1.0
37	Broad-leaved plantain	5.9	0.3	5.0	< 0.1	0.2	0.2	1.0
38	Wild tomato	5.9	0.3	5.0	< 0.1	0.2	0.2	1.0
39	Aspen poplar	2.9	0.4	15.0	< 0.1	0.6	0.6	0.6
40	Curled dock	2.9	0.3	10.0	< 0.1	0.6	0.6	0.6
41	Yellow toadflax	2.9	0.1	5.0	< 0.1	1.6	1.6	0.6
42	Wild mustard	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5
43	Narrow-leaved vetch	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5
44	Wood whitlow-grass	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5
45	Biennial wormwood	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5
46	Volunteer canola	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5

Table 108. Field pea fields in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild oats	64.3	33.9	52.8	10.1	15.6	50.6	46.0
2	Wild buckwheat	64.3	30.0	46.7	4.1	6.4	22.2	30.8
3	Stinkweed	28.6	13.9	48.8	7.2	25.3	89.0	26.2
4	Canada thistle	57.1	16.4	28.8	2.7	4.8	29.4	20.8
5	Volunteer canola	50.0	16.1	32.1	2.1	4.2	17.2	18.3
6	Chickweed	28.6	12.1	42.5	2.8	9.8	31.2	15.3
7	Narrow-leaved hawk's-beard	42.9	8.9	20.8	0.8	1.8	6.8	11.3
8	Stork's-bill	21.4	13.9	65.0	1.0	4.7	8.8	11.1
9	Annual sow-thistle	28.6	9.6	33.8	1.1	3.9	13.0	10.5
10	Shepherd's-purse	14.3	6.8	47.5	2.2	15.7	31.2	9.9
11	Night-flowering catchfly	7.1	5.0	70.0	2.3	31.6	31.6	8.2
12	Dandelion	35.7	6.1	17.0	0.3	0.8	1.6	8.0
13	Volunteer flax	7.1	5.4	75.0	1.8	25.2	25.2	7.4
14	Quack grass	28.6	4.6	16.3	0.7	2.4	7.4	7.3
15	Green foxtail	28.6	5.0	17.5	0.4	1.6	3.0	6.9
16	Volunteer wheat	21.4	5.7	26.7	0.4	1.7	4.0	6.1
17	Cleavers	14.3	3.2	22.5	1.0	6.8	13.2	5.5
18	Volunteer barley	14.3	5.4	37.5	0.6	3.9	6.8	5.5
19	Lamb's-quarters	28.6	2.5	8.8	0.2	0.7	1.4	5.3
20	Common groundsel	14.3	4.3	30.0	0.3	1.8	3.4	4.3
21	Pale smartweed	14.3	3.6	25.0	0.3	2.3	3.2	4.2
22	Flixweed	14.3	2.9	20.0	0.3	2.0	2.4	3.8
23	Perennial sow-thistle	14.3	1.8	12.5	0.2	1.2	2.2	3.0
24	Wild mustard	14.3	2.1	15.0	0.1	0.6	0.8	3.0
25	Hemp-nettle	14.3	1.8	12.5	0.1	1.0	1.2	3.0
26	Prostrate knotweed	7.1	3.2	45.0	0.3	4.0	4.0	3.0
27	Redroot pigweed	14.3	1.4	10.0	0.1	0.6	1.0	2.7
28	Round-leaved mallow	14.3	1.1	7.5	0.1	0.5	0.8	2.5
29	American dragonhead	7.1	1.8	25.0	0.1	1.0	1.0	1.9
30	Field horsetail	7.1	1.4	20.0	0.1	1.6	1.6	1.8
31	Narrow-leaved vetch	7.1	1.1	15.0	< 0.1	0.6	0.6	1.5
32	Thyme-leaved spurge	7.1	0.7	10.0	< 0.1	0.6	0.6	1.3
33	Yellow toadflax	7.1	0.7	10.0	< 0.1	0.6	0.6	1.3
34	Aspen poplar	7.1	0.4	5.0	< 0.1	0.4	0.4	1.2
35	Wild tomato	7.1	0.4	5.0	< 0.1	0.2	0.2	1.1

Table 109. All fields in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild oats	36.9	11.3	30.5	2.7	7.4	112.2	69.6
2	Kochia	25.5	5.6	22.1	1.2	4.8	145.0	36.4
3	Russian thistle	18.0	5.0	27.9	1.0	5.8	120.4	29.8
4	Canada thistle	26.1	5.0	19.0	0.6	2.3	16.6	28.2
5	Wild buckwheat	23.2	3.9	17.0	0.3	1.2	7.6	21.3
6	Redroot pigweed	13.4	2.3	17.1	0.2	1.5	9.6	12.7
7	Green foxtail	5.9	1.5	25.3	0.6	9.5	100.4	11.9
8	Dandelion	13.1	1.5	11.5	0.1	1.0	19.0	10.2
9	Stinkweed	11.4	1.3	11.6	0.2	1.7	21.0	9.9
10	Lamb's-quarters	8.2	1.5	17.8	0.2	1.8	11.0	8.2
11	Flixweed	6.2	1.0	16.3	0.2	2.9	37.6	6.8
12	Foxtail barley	7.8	0.9	12.1	0.1	1.6	14.4	6.7
13	Quack grass	4.9	0.9	19.0	0.2	3.7	13.2	6.1
14	Volunteer canola	2.9	0.8	26.7	0.1	4.9	24.6	4.5
15	Cleavers	0.3	0.3	100.0	0.3	81.4	81.4	3.8
16	Round-leaved mallow	2.9	0.6	21.1	0.1	1.7	5.2	3.1
17	Cow cockle	2.0	0.6	30.0	0.1	3.2	8.0	2.8
18	Volunteer alfalfa	0.7	0.4	60.0	0.1	16.9	31.4	2.3
19	Downy brome	1.3	0.4	27.5	0.1	6.0	21.0	2.2
20	Yellow sweet-clover	0.7	0.4	60.0	0.1	13.3	16.8	2.1
21	Pale smartweed	2.0	0.4	18.3	< 0.1	1.6	2.6	1.9
22	Rose species	2.6	0.3	10.0	< 0.1	0.9	2.4	1.9
23	Skeletonweed	0.3	0.1	40.0	0.1	39.2	39.2	1.8
24	Volunteer chickpea	0.3	0.1	40.0	0.1	39.2	39.2	1.8
25	Volunteer wheat	1.6	0.3	18.0	< 0.1	2.3	7.6	1.7
26	Shepherd's-purse	1.6	0.2	15.0	< 0.1	2.4	9.6	1.7
27	Yellow foxtail	0.3	0.2	65.0	0.1	25.6	25.6	1.5
28	Perennial sow-thistle	1.6	0.2	13.0	< 0.1	1.0	2.0	1.3
29	Persian darnel	0.3	0.2	60.0	0.1	20.4	20.4	1.3
30	Goat's-beard	1.3	0.1	5.0	< 0.1	0.2	0.2	0.7
31	Chickweed	0.3	0.1	20.0	< 0.1	8.2	8.2	0.6
32	Volunteer barley	1.0	< 0.1	5.0	< 0.1	0.3	0.4	0.6
33	Tall blue lettuce	0.3	0.1	30.0	< 0.1	5.4	5.4	0.5
34	Prostrate pigweed	0.3	0.1	35.0	< 0.1	3.0	3.0	0.5
35	Meadow brome	0.7	< 0.1	7.5	< 0.1	1.1	1.2	0.5
36	Wild mustard	0.7	0.1	10.0	< 0.1	0.5	0.6	0.5
37	Tartary buckwheat	0.3	0.1	20.0	< 0.1	2.4	2.4	0.4
38	Leafy spurge	0.3	< 0.1	10.0	< 0.1	2.0	2.0	0.3
39	Hemp-nettle	0.3	< 0.1	15.0	< 0.1	0.8	0.8	0.3
40	Two-grooved milk-vetch	0.3	< 0.1	10.0	< 0.1	0.6	0.6	0.2
41	White cockle	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.2
42	Narrow-leaved hawk's-beard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.2
43	Striate knotweed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.2
44	Gray tansy mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.2
45	Green tansy mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.2
46	Stork's-bill	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.2
47	Wild tomato	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.2
48	Wood whitlow-grass	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.2
49	Volunteer white mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 110. Spring wheat fields in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild oats	31.0	9.2	29.6	3.0	9.8	112.2	70.1
2	Russian thistle	18.3	4.7	25.7	1.6	8.9	120.4	37.8
3	Kochia	21.4	4.5	20.9	0.4	1.8	13.2	24.9
4	Green foxtail	8.7	2.6	29.5	1.2	13.3	100.4	23.1
5	Canada thistle	23.0	3.3	14.1	0.4	1.8	16.6	22.9
6	Wild buckwheat	23.0	3.3	14.3	0.2	1.0	4.4	21.1
7	Dandelion	15.1	1.5	10.3	0.1	0.6	3.6	11.6
8	Redroot pigweed	12.7	1.6	12.5	0.1	0.8	2.8	10.8
9	Stinkweed	9.5	1.2	12.5	0.3	3.0	21.0	10.4
10	Foxtail barley	9.5	1.4	14.6	0.2	2.1	14.4	10.0
11	Volunteer canola	4.8	1.3	27.5	0.3	5.8	24.6	8.4
12	Lamb's-quarters	7.1	1.0	13.3	0.1	1.3	3.8	6.6
13	Flixweed	6.3	1.0	15.0	0.1	1.0	3.2	5.9
14	Quack grass	3.2	0.8	23.8	0.1	4.4	13.2	4.8
15	Skeletonweed	0.8	0.3	40.0	0.3	39.2	39.2	4.6
16	Pale smartweed	4.0	0.7	17.0	0.1	1.4	2.6	4.1
17	Yellow foxtail	0.8	0.5	65.0	0.2	25.6	25.6	3.9
18	Round-leaved mallow	1.6	0.8	47.5	0.1	4.8	5.2	3.4
19	Shepherd's-purse	1.6	0.4	25.0	0.1	4.9	9.6	2.5
20	Perennial sow-thistle	1.6	0.2	15.0	< 0.1	1.6	2.0	1.6
21	Volunteer barley	2.4	0.1	5.0	< 0.1	0.3	0.4	1.5
22	Tall blue lettuce	0.8	0.2	30.0	< 0.1	5.4	5.4	1.4
23	Prostrate pigweed	0.8	0.3	35.0	< 0.1	3.0	3.0	1.3
24	Volunteer alfalfa	0.8	0.2	30.0	< 0.1	2.4	2.4	1.1
25	Tartary buckwheat	0.8	0.2	20.0	< 0.1	2.4	2.4	1.0
26	Rose species	1.6	0.1	5.0	< 0.1	0.2	0.2	1.0
27	Leafy spurge	0.8	0.1	10.0	< 0.1	2.0	2.0	0.7
28	Two-grooved milk-vetch	0.8	0.1	10.0	< 0.1	0.6	0.6	0.6
29	Wild mustard	0.8	0.1	10.0	< 0.1	0.6	0.6	0.6
30	Volunteer wheat	0.8	< 0.1	5.0	< 0.1	0.4	0.4	0.5
31	Goat's-beard	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.5
32	Narrow-leaved hawk's-beard	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.5
33	Green tansy mustard	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.5
34	Wild tomato	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.5

Table 111. Durum fields in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High	Occurrence		
1	Wild oats	43.8	12.0	27.3	2.3	5.2	77.0	86.6
2	Kochia	31.3	5.2	16.8	0.7	2.3	28.0	39.6
3	Russian thistle	25.0	6.4	25.6	0.7	2.8	9.6	38.9
4	Canada thistle	21.9	4.2	19.3	0.5	2.3	11.6	29.0
5	Wild buckwheat	18.8	3.9	20.8	0.2	1.2	3.8	22.4
6	Redroot pigweed	12.5	2.4	19.4	0.2	1.6	4.6	15.2
7	Green foxtail	6.3	1.6	26.3	0.3	5.1	16.4	12.1
8	Volunteer chickpea	1.6	0.6	40.0	0.6	39.2	39.2	12.1
9	Dandelion	1.6	1.5	95.0	0.3	19.0	19.0	9.0
10	Stinkweed	6.3	1.0	16.3	0.2	2.6	7.4	8.1
11	Lamb's-quarters	6.3	0.5	7.5	< 0.1	0.4	0.8	4.7
12	Downy brome	4.7	0.6	13.3	< 0.1	0.9	1.4	4.5
13	Foxtail barley	4.7	0.4	8.3	< 0.1	0.8	2.0	3.9
14	Volunteer wheat	1.6	0.4	25.0	< 0.1	2.4	2.4	2.3
15	Rose species	1.6	0.4	25.0	< 0.1	2.0	2.0	2.2
16	Cow cockle	1.6	0.4	25.0	< 0.1	1.8	1.8	2.2
17	Flixweed	3.1	0.2	5.0	< 0.1	0.2	0.2	2.0
18	Perennial sow-thistle	1.6	0.4	25.0	< 0.1	1.0	1.0	2.0
19	Volunteer canola	1.6	0.1	5.0	< 0.1	0.4	0.4	1.1
20	Round-leaved mallow	1.6	0.1	5.0	< 0.1	0.2	0.2	1.0
21	Gray tansy mustard	1.6	0.1	5.0	< 0.1	0.2	0.2	1.0

Table 112. Barley fields in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild oats	40.2	12.4	30.9	2.2	5.4	33.8	58.2
2	Kochia	24.7	6.7	27.1	2.5	10.1	145.0	45.4
3	Canada thistle	34.0	8.4	24.5	1.0	2.9	12.6	37.3
4	Wild buckwheat	24.7	4.5	18.3	0.4	1.4	7.6	20.9
5	Russian thistle	9.3	3.3	35.6	0.4	4.4	14.8	13.3
6	Redroot pigweed	14.4	2.4	16.8	0.2	1.5	7.0	11.9
7	Quack grass	10.3	1.9	18.0	0.4	3.7	11.2	10.9
8	Lamb's-quarters	9.3	2.6	27.8	0.3	3.2	11.0	10.9
9	Flixweed	8.2	1.8	21.9	0.5	5.8	37.6	10.9
10	Stinkweed	16.5	1.6	10.0	0.1	0.7	2.2	10.4
11	Cleavers	1.0	1.0	100.0	0.8	81.4	81.4	10.3
12	Dandelion	16.5	1.5	9.1	0.1	0.4	1.2	9.7
13	Cow cockle	4.1	1.4	33.8	0.2	4.1	8.0	5.6
14	Yellow sweet-clover	2.1	1.2	60.0	0.3	13.3	16.8	5.6
15	Volunteer alfalfa	1.0	0.9	90.0	0.3	31.4	31.4	5.1
16	Foxtail barley	8.2	0.7	8.1	0.1	0.9	3.6	5.0
17	Downy brome	1.0	0.7	70.0	0.2	21.0	21.0	3.7
18	Persian darnel	1.0	0.6	60.0	0.2	20.4	20.4	3.5
19	Volunteer canola	2.1	0.7	35.0	0.1	4.5	8.6	3.0
20	Rose species	4.1	0.4	10.0	< 0.1	1.0	2.4	2.7
21	Round-leaved mallow	4.1	0.4	8.8	< 0.1	0.6	1.2	2.5
22	Shepherd's-purse	3.1	0.3	8.3	< 0.1	0.8	1.2	1.9
23	Chickweed	1.0	0.2	20.0	0.1	8.2	8.2	1.6
24	Meadow brome	2.1	0.2	7.5	< 0.1	1.1	1.2	1.3
25	Volunteer wheat	2.1	0.2	7.5	< 0.1	0.6	0.8	1.2
26	Green foxtail	2.1	0.2	7.5	< 0.1	0.3	0.4	1.1
27	Perennial sow-thistle	2.1	0.1	5.0	< 0.1	0.4	0.6	1.1
28	Goat's-beard	2.1	0.1	5.0	< 0.1	0.2	0.2	1.0
29	Hemp-nettle	1.0	0.2	15.0	< 0.1	0.8	0.8	0.7
30	Wild mustard	1.0	0.1	10.0	< 0.1	0.4	0.4	0.6
31	White cockle	1.0	0.1	5.0	< 0.1	0.4	0.4	0.5
32	Striate knotweed	1.0	0.1	5.0	< 0.1	0.2	0.2	0.5
33	Stork's-bill	1.0	0.1	5.0	< 0.1	0.2	0.2	0.5
34	Wood whitlow-grass	1.0	0.1	5.0	< 0.1	0.2	0.2	0.5
35	Volunteer white mustard	1.0	0.1	5.0	< 0.1	0.2	0.2	0.5

Table 113. Number of fields surveyed in each municipal administrative district

Region and Municipal District Group	Municipal District or County	Number of Fields Surveyed
Peace		
Birch Hills & Spirit River	Birch Hills	15
	Spirit River	6
Clear Hills	Clear Hills	12
East Peace & Big Lakes	East Peace	7
	Big Lakes	4
Fairview & Peace	Fairview	11
	Peace	4
Grande Prairie	Grande Prairie	29
Greenview	Greenview	12
Mackenzie	Mackenzie	12
Northern Lights	Northern Lights	19
Saddle Hills	Saddle Hills	22
Smoky River	Smoky River	20
North		
Athabasca & Lesser Slave River	Athabasca	10
	Lesser Slave River	4
Barrhead & Lac Ste. Anne	Barrhead	9
	Lac Ste. Anne	4
Beaver	Beaver	26
Camrose	Camrose	37
Flagstaff	Flagstaff	35
Lamont	Lamont	18
Leduc	Leduc	15
Minburn	Minburn	23
Parkland & Yellowhead	Parkland	9
	Yellowhead	2
Provost	Provost	21
Smoky Lake	Smoky Lake	11
St. Paul & Bonnyville	St. Paul	12
	Bonnyville	7
Sturgeon & Strathcona	Sturgeon	19
	Strathcona	7
Two Hills	Two Hills	21
Vermilion River	Vermilion River	46
Wainwright	Wainwright	22
Westlock & Thorhild	Westlock	19
	Thorhild	8
Wetaskiwin	Wetaskiwin	13

(Table continued on next page)

Table 113. Number of fields surveyed in each municipal administrative district (*continued*)

Region and Municipal District Group	Municipal District or County	Number of Fields Surveyed
Central		
Kneehill	Kneehill	36
Lacombe & Clearwater	Lacombe	20
	Clearwater	4
Mountain View	Mountain View	24
Paintearth	Paintearth	24
Ponoka	Ponoka	10
Red Deer	Red Deer	29
Rocky View	Rocky View	25
Special Area 2	Special Area 2	18
Special Area 3 & Acadia	Special Area 3	15
	Acadia	3
Special Area 4	Special Area 4	16
Starland	Starland	26
Stettler	Stettler	26
Southern		
Cardston & Pincher Creek	Cardston	28
	Pincher Creek	7
Cypress & Newell	Cypress	22
	Newell	8
Foothills	Foothills	13
Forty Mile	Forty Mile	39
Lethbridge	Lethbridge	25
Taber	Taber	19
Vulcan	Vulcan	52
Warner	Warner	31
Wheatland	Wheatland	38
Willow Creek	Willow Creek	24

Table 114. Birch Hills & Spirit River in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	33.3	20.5	61.4	20.2	60.7	238.6	35.2
2	Wild oats	61.9	28.3	45.8	8.2	13.2	46.8	27.9
3	Wild buckwheat	66.7	25.7	38.6	5.7	8.6	61.0	24.6
4	Volunteer wheat	38.1	18.6	48.8	8.6	22.6	128.2	21.7
5	Stinkweed	38.1	19.3	50.6	8.2	21.5	104.2	21.5
6	Field horsetail	66.7	18.8	28.2	4.9	7.4	27.8	21.0
7	Narrow-leaved hawk's-beard	52.4	16.4	31.4	5.1	9.7	53.2	18.5
8	Cleavers	42.9	16.9	39.4	3.6	8.4	51.0	15.8
9	Pineappleweed	23.8	7.6	32.0	8.4	35.1	172.4	15.4
10	Alsike clover	33.3	14.5	43.6	4.2	12.7	70.4	14.5
11	Canada thistle	57.1	12.4	21.7	1.4	2.5	13.4	13.4
12	Dandelion	57.1	10.5	18.3	1.1	1.9	6.8	12.2
13	Hemp-nettle	38.1	10.2	26.9	1.1	2.8	9.6	9.8
14	Lamb's-quarters	28.6	4.8	16.7	0.6	2.1	11.4	6.0
15	Perennial sow-thistle	19.0	5.2	27.5	1.0	5.1	19.4	5.4
16	Volunteer canola	23.8	4.0	17.0	0.6	2.4	10.4	5.1
17	Shepherd's-purse	14.3	4.8	33.3	0.5	3.5	8.0	4.1
18	Rough cinquefoil	4.8	3.8	80.0	1.4	30.0	30.0	3.7
19	Pale smartweed	19.0	1.9	10.0	0.2	1.3	3.6	3.3
20	Yellow toadflax	9.5	2.1	22.5	0.3	2.7	4.4	2.3
21	Low cudweed	4.8	1.7	35.0	0.7	15.0	15.0	2.0
22	Redroot pigweed	9.5	1.4	15.0	0.1	1.5	2.8	1.9
23	Common groundsel	9.5	1.2	12.5	0.1	0.8	1.4	1.7
24	Corn spurry	4.8	2.1	45.0	0.2	4.8	4.8	1.7
25	Bluebur	9.5	1.0	10.0	0.1	0.7	1.0	1.6
26	Pygmyflower	4.8	0.7	15.0	0.2	4.6	4.6	1.1
27	Bicknell's geranium	4.8	1.0	20.0	< 0.1	0.8	0.8	1.0
28	American dragonhead	4.8	0.7	15.0	< 0.1	0.6	0.6	0.9
29	Round-leaved mallow	4.8	0.7	15.0	< 0.1	0.6	0.6	0.9
30	Spiny annual sow-thistle	4.8	0.5	10.0	< 0.1	0.6	0.6	0.8
31	Volunteer barley	4.8	0.5	10.0	< 0.1	0.4	0.4	0.8
32	Slender wheat grass	4.8	0.5	10.0	< 0.1	0.4	0.4	0.8
33	Quack grass	4.8	0.2	5.0	< 0.1	0.2	0.2	0.7
34	Two-grooved milk-vetch	4.8	0.2	5.0	< 0.1	0.2	0.2	0.7
35	Prostrate pigweed	4.8	0.2	5.0	< 0.1	0.2	0.2	0.7
36	Rose species	4.8	0.2	5.0	< 0.1	0.2	0.2	0.7
37	Milk-vetch species	4.8	0.2	5.0	< 0.1	0.2	0.2	0.7

Table 115. Clear Hills in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	91.7	42.1	45.9	14.4	15.7	42.4	57.7
2	Field horsetail	83.3	28.8	34.5	5.5	6.5	15.6	31.7
3	Alsike clover	50.0	18.8	37.5	4.6	9.3	45.0	22.7
4	Hemp-nettle	50.0	16.3	32.5	3.6	7.1	22.8	19.3
5	Wild buckwheat	75.0	17.5	23.3	1.8	2.4	7.6	18.3
6	Dandelion	41.7	10.0	24.0	2.8	6.8	21.4	14.3
7	Cleavers	58.3	10.4	17.9	1.9	3.3	16.8	14.0
8	Common groundsel	58.3	8.8	15.0	0.5	0.8	3.2	10.0
9	Lamb's-quarters	50.0	8.3	16.7	0.7	1.4	5.4	9.6
10	Narrow-leaved hawk's-beard	41.7	7.1	17.0	1.2	2.8	7.0	9.4
11	Volunteer canola	33.3	8.8	26.3	1.0	2.9	8.6	8.9
12	Pineappleweed	41.7	6.3	15.0	0.7	1.7	5.8	8.0
13	Shepherd's-purse	41.7	5.0	12.0	0.7	1.6	5.4	7.4
14	Canada thistle	41.7	5.0	12.0	0.6	1.3	3.0	7.1
15	Chickweed	41.7	4.6	11.0	0.6	1.3	4.8	6.9
16	Rough cinquefoil	16.7	5.4	32.5	1.3	7.6	15.0	6.6
17	Volunteer barley	16.7	5.0	30.0	1.2	7.0	13.2	6.2
18	Perennial sow-thistle	41.7	3.8	9.0	0.2	0.4	1.4	5.8
19	Volunteer wheat	16.7	3.3	20.0	0.5	2.8	5.4	4.0
20	Foxtail barley	25.0	2.9	11.7	0.2	0.8	1.4	4.0
21	American dragonhead	25.0	2.1	8.3	0.2	0.8	1.2	3.6
22	Low cudweed	16.7	2.5	15.0	0.2	1.4	2.2	3.1
23	Broad-leaved plantain	25.0	1.3	5.0	0.1	0.3	0.4	2.9
24	Bluebur	16.7	2.5	15.0	0.2	0.9	1.2	2.9
25	Rose species	16.7	1.7	10.0	0.2	1.2	1.4	2.7
26	Ground-ivy	8.3	1.3	15.0	0.6	7.4	7.4	2.6
27	Round-leaved mallow	16.7	0.8	5.0	< 0.1	0.2	0.2	1.9
28	Tall fescue	8.3	0.8	10.0	0.2	1.8	1.8	1.4
29	Wild oats	8.3	1.3	15.0	0.1	0.8	0.8	1.4
30	Biennial wormwood	8.3	1.3	15.0	0.1	0.8	0.8	1.4
31	Pasture sage	8.3	0.8	10.0	0.1	1.0	1.0	1.3
32	Fireweed	8.3	0.4	5.0	< 0.1	0.2	0.2	1.0
33	Mouse-eared chickweed	8.3	0.4	5.0	< 0.1	0.2	0.2	1.0
34	Milk-vetch species	8.3	0.4	5.0	< 0.1	0.2	0.2	1.0

Table 116. East Peace & Big Lakes in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Chickweed	36.4	24.5	67.5	8.7	24.0	64.0	45.2
2	Wild buckwheat	72.7	26.8	36.9	4.5	6.1	25.2	40.4
3	Cleavers	36.4	17.3	47.5	5.0	13.8	41.8	30.5
4	Stinkweed	72.7	18.6	25.6	1.7	2.3	6.8	27.8
5	Lamb's-quarters	36.4	18.2	50.0	3.9	10.7	25.2	27.6
6	Field horsetail	63.6	17.7	27.9	1.5	2.4	7.6	25.3
7	Wild oats	54.5	15.0	27.5	2.0	3.7	14.2	23.7
8	Hemp-nettle	27.3	12.3	45.0	3.7	13.4	27.4	22.1
9	Volunteer canola	27.3	8.2	30.0	1.2	4.4	11.4	12.8
10	Narrow-leaved hawk's-beard	36.4	3.2	8.8	0.3	0.7	1.6	8.8
11	Canada thistle	27.3	4.5	16.7	0.4	1.4	2.6	8.4
12	Corn spurry	18.2	3.6	20.0	0.6	3.5	6.4	7.0
13	Pale smartweed	9.1	5.5	60.0	0.7	8.2	8.2	6.8
14	Common groundsel	9.1	1.8	20.0	0.1	0.8	0.8	2.8
15	Pineappleweed	9.1	0.9	10.0	0.1	1.0	1.0	2.4
16	Quack grass	9.1	0.9	10.0	< 0.1	0.4	0.4	2.2
17	Prostrate knotweed	9.1	0.9	10.0	< 0.1	0.4	0.4	2.2
18	Volunteer wheat	9.1	0.9	10.0	< 0.1	0.4	0.4	2.2
19	Volunteer barley	9.1	0.5	5.0	< 0.1	0.2	0.2	1.9

Table 117. Fairview & Peace in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	80.0	50.7	63.3	13.4	16.8	59.2	33.8
2	Cleavers	66.7	26.3	39.5	21.5	32.3	180.8	31.1
3	Hemp-nettle	40.0	15.3	38.3	20.0	50.0	199.2	23.8
4	Field horsetail	53.3	25.3	47.5	12.9	24.1	76.8	22.9
5	Stinkweed	66.7	31.7	47.5	7.6	11.3	34.8	22.2
6	Narrow-leaved hawk's-beard	40.0	17.0	42.5	14.8	37.1	137.2	20.4
7	Perennial sow-thistle	66.7	22.3	33.5	6.1	9.1	64.8	18.2
8	Pineappleweed	46.7	20.3	43.6	6.1	13.2	32.0	15.6
9	Bluebur	40.0	9.7	24.2	9.6	24.1	112.0	14.3
10	Volunteer canola	53.3	16.3	30.6	3.1	5.8	21.2	12.8
11	Chickweed	40.0	12.3	30.8	3.8	9.5	42.8	10.7
12	Canada thistle	53.3	10.7	20.0	2.3	4.4	14.4	10.5
13	Wild oats	53.3	10.7	20.0	1.4	2.6	4.8	9.8
14	Common groundsel	26.7	12.0	45.0	2.1	7.9	14.0	8.0
15	Shepherd's-purse	33.3	6.0	18.0	0.9	2.7	5.2	5.9
16	Dandelion	26.7	5.3	20.0	0.6	2.3	4.0	4.8
17	Lamb's-quarters	26.7	4.7	17.5	0.6	2.2	4.0	4.6
18	Meadow fescue	6.7	6.7	100.0	2.2	32.4	32.4	4.3
19	Broad-leaved plantain	13.3	6.3	47.5	1.1	8.0	14.4	4.1
20	Volunteer alfalfa	6.7	6.7	100.0	1.8	27.2	27.2	4.1
21	Quack grass	26.7	1.3	5.0	0.2	0.6	1.2	3.2
22	Volunteer wheat	26.7	1.3	5.0	0.2	0.6	0.8	3.2
23	Mouse-eared chickweed	13.3	2.3	17.5	0.3	2.2	2.8	2.3
24	Pale smartweed	13.3	1.3	10.0	0.1	0.8	1.2	1.8
25	Alsike clover	13.3	1.0	7.5	0.1	0.6	0.8	1.7
26	Biennial wormwood	6.7	0.7	10.0	0.1	1.6	1.6	1.0
27	Low cudweed	6.7	0.3	5.0	0.1	0.8	0.8	0.8
28	Common pepper-grass	6.7	0.3	5.0	< 0.1	0.4	0.4	0.8
29	Rose species	6.7	0.3	5.0	< 0.1	0.4	0.4	0.8
30	Corn spurry	6.7	0.3	5.0	< 0.1	0.4	0.4	0.8
31	Red clover	6.7	0.3	5.0	< 0.1	0.4	0.4	0.8
32	White clover	6.7	0.3	5.0	< 0.1	0.4	0.4	0.8

Table 118. Grande Prairie in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Stinkweed	51.7	21.2	41.0	2.5	4.8	25.6	71.6
2	Wild buckwheat	69.0	18.1	26.3	1.4	2.0	8.4	60.4
3	Dandelion	44.8	12.8	28.5	0.8	1.9	7.8	39.6
4	Pineappleweed	10.3	5.7	55.0	1.1	10.5	27.0	23.0
5	Cleavers	13.8	4.1	30.0	0.4	3.2	7.0	14.7
6	Narrow-leaved hawk's-beard	17.2	3.4	20.0	0.4	2.0	8.4	13.9
7	Field horsetail	10.3	4.3	41.7	0.4	3.9	8.4	13.3
8	Chickweed	10.3	4.0	38.3	0.3	3.2	7.4	12.0
9	Hemp-nettle	6.9	3.1	45.0	0.2	2.7	5.2	8.1
10	Quack grass	13.8	1.4	10.0	0.1	1.0	1.6	7.8
11	Lamb's-quarters	10.3	2.1	20.0	0.1	1.1	2.6	7.1
12	Wild oats	10.3	1.6	15.0	0.2	1.5	2.6	7.1
13	Volunteer canola	3.4	2.1	60.0	0.1	4.2	4.2	5.3
14	Alsike clover	3.4	1.4	40.0	0.1	3.6	3.6	4.2
15	Wild radish	6.9	0.7	10.0	0.1	0.8	1.4	3.8
16	Common yarrow	6.9	0.7	10.0	< 0.1	0.5	0.6	3.5
17	Volunteer alfalfa	3.4	0.3	10.0	< 0.1	0.6	0.6	1.8
18	Sulfur cinquefoil	3.4	0.2	5.0	< 0.1	0.2	0.2	1.4
19	Perennial sow-thistle	3.4	0.2	5.0	< 0.1	0.2	0.2	1.4

Table 119. Greenview in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Dandelion	66.7	24.6	36.9	6.1	9.2	42.4	42.8
2	Hemp-nettle	50.0	25.0	50.0	5.9	11.7	34.6	39.3
3	Corn spurry	8.3	8.3	100.0	9.9	118.2	118.2	30.1
4	Field horsetail	66.7	14.6	21.9	2.2	3.3	17.0	27.1
5	Canada thistle	66.7	12.1	18.1	1.8	2.7	9.8	24.6
6	Shepherd's-purse	33.3	11.3	33.8	3.8	11.4	41.4	22.5
7	Volunteer canola	33.3	10.4	31.3	2.9	8.6	32.2	19.7
8	Cleavers	16.7	13.8	82.5	2.8	16.7	25.4	18.5
9	Lamb's-quarters	33.3	9.2	27.5	1.5	4.4	8.2	15.6
10	Chickweed	8.3	5.8	70.0	3.5	41.4	41.4	13.4
11	Common groundsel	8.3	3.3	40.0	1.0	12.4	12.4	6.1
12	Pale smartweed	25.0	1.7	6.7	0.1	0.5	0.8	6.1
13	Fireweed	8.3	3.8	45.0	0.3	3.4	3.4	4.6
14	Broad-leaved plantain	8.3	2.9	35.0	0.2	2.4	2.4	3.9
15	Pineappleweed	8.3	2.5	30.0	0.3	3.2	3.2	3.8
16	Wild buckwheat	16.7	0.8	5.0	< 0.1	0.2	0.2	3.8
17	Narrow-leaved hawk's-beard	8.3	1.7	20.0	0.1	1.6	1.6	3.0
18	Common yarrow	8.3	1.7	20.0	0.1	0.8	0.8	2.8
19	Rose species	8.3	1.3	15.0	0.1	0.8	0.8	2.5
20	Perennial sow-thistle	8.3	0.4	5.0	0.1	0.6	0.6	2.0
21	Volunteer barley	8.3	0.4	5.0	0.1	0.6	0.6	2.0
22	Alsike clover	8.3	0.4	5.0	0.1	0.6	0.6	2.0
23	Bluebur	8.3	0.4	5.0	< 0.1	0.2	0.2	1.9
24	Bicknell's geranium	8.3	0.4	5.0	< 0.1	0.2	0.2	1.9

Table 120. Mackenzie in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Field horsetail	66.7	25.0	37.5	4.3	6.4	20.6	86.3
2	Cleavers	50.0	13.3	26.7	2.2	4.4	17.0	48.8
3	Wild buckwheat	33.3	8.3	25.0	0.7	2.0	4.8	24.4
4	Shepherd's-purse	8.3	5.8	70.0	0.9	10.8	10.8	17.4
5	Volunteer canola	25.0	4.6	18.3	0.5	2.0	5.2	16.4
6	Narrow-leaved hawk's-beard	33.3	3.3	10.0	0.2	0.7	1.2	14.5
7	Perennial sow-thistle	25.0	4.2	16.7	0.3	1.3	2.8	14.4
8	Stinkweed	8.3	4.2	50.0	0.3	4.0	4.0	10.2
9	Common groundsel	25.0	2.1	8.3	0.1	0.5	0.8	9.9
10	Hemp-nettle	16.7	2.5	15.0	0.3	1.5	1.6	9.5
11	Lamb's-quarters	25.0	1.7	6.7	0.1	0.3	0.4	9.0
12	Pineappleweed	8.3	2.1	25.0	0.3	3.6	3.6	7.4
13	Pale smartweed	16.7	1.7	10.0	0.1	0.5	0.8	7.0
14	Quack grass	8.3	0.8	10.0	0.3	3.4	3.4	5.7
15	Wild oats	8.3	1.7	20.0	0.1	1.0	1.0	4.9
16	Volunteer wheat	8.3	1.3	15.0	0.1	1.2	1.2	4.5
17	Bluebur	8.3	0.8	10.0	< 0.1	0.4	0.4	3.4
18	Canada thistle	8.3	0.4	5.0	0.1	1.0	1.0	3.4
19	Volunteer alfalfa	8.3	0.4	5.0	< 0.1	0.4	0.4	2.9

Table 121. Northern Lights in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Cleavers	78.9	38.2	48.3	9.1	11.6	67.8	31.4
2	Wild buckwheat	84.2	39.7	47.2	7.9	9.4	42.0	30.8
3	Common groundsel	52.6	25.5	48.5	6.3	11.9	37.6	21.2
4	Wild oats	63.2	18.7	29.6	6.0	9.5	64.0	19.6
5	Hemp-nettle	73.7	17.9	24.3	5.0	6.8	56.0	19.1
6	Field horsetail	63.2	18.4	29.2	5.0	7.9	34.6	18.2
7	Narrow-leaved hawk's-beard	57.9	15.8	27.3	3.9	6.8	26.0	15.5
8	Lamb's-quarters	36.8	15.8	42.9	5.3	14.3	75.4	15.3
9	Dandelion	63.2	19.2	30.4	1.8	2.8	9.2	14.3
10	Stinkweed	52.6	14.2	27.0	3.8	7.1	42.6	14.3
11	Chickweed	21.1	7.9	37.5	5.9	28.0	79.0	12.1
12	Pale smartweed	63.2	11.6	18.3	1.9	3.1	14.6	12.1
13	Quack grass	21.1	5.3	25.0	5.2	24.5	63.2	10.3
14	Bluebur	42.1	6.6	15.6	0.8	1.9	7.6	7.1
15	Volunteer barley	10.5	7.1	67.5	2.4	23.2	41.0	6.4
16	Biennial wormwood	26.3	6.1	23.0	1.5	5.9	26.6	6.4
17	Pineappleweed	42.1	4.5	10.6	0.6	1.5	4.0	6.1
18	Yellow sweet-clover	26.3	7.6	29.0	0.8	3.0	9.2	5.9
19	Broad-leaved plantain	21.1	5.3	25.0	0.7	3.6	7.4	4.6
20	Canada thistle	31.6	2.6	8.3	0.5	1.6	4.6	4.4
21	Shepherd's-purse	15.8	3.2	20.0	0.8	4.9	10.2	3.5
22	Volunteer canola	15.8	4.2	26.7	0.5	2.9	3.6	3.4
23	Perennial sow-thistle	15.8	3.2	20.0	0.4	2.7	4.8	3.0
24	Spiny annual sow-thistle	21.1	2.1	10.0	0.1	0.5	1.2	2.8
25	Rough cinquefoil	21.1	1.3	6.3	0.1	0.3	0.6	2.4
26	Volunteer wheat	10.5	1.6	15.0	0.2	1.9	3.6	1.7
27	Redtop	10.5	0.8	7.5	0.2	2.2	4.2	1.5
28	Common yarrow	10.5	1.1	10.0	0.1	1.0	1.2	1.4
29	Low cudweed	5.3	0.8	15.0	0.4	8.2	8.2	1.3
30	Foxtail barley	5.3	1.6	30.0	0.2	3.4	3.4	1.2
31	Stork's-bill	5.3	0.8	15.0	0.1	1.0	1.0	0.8
32	Timothy	5.3	0.5	10.0	< 0.1	0.8	0.8	0.7
33	Rose species	5.3	0.3	5.0	< 0.1	0.4	0.4	0.6
34	Prostrate knotweed	5.3	0.3	5.0	< 0.1	0.2	0.2	0.6

Table 122. Saddle Hills in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Field horsetail	77.3	48.0	62.1	13.2	17.1	49.8	45.7
2	Hemp-nettle	54.5	23.0	42.1	8.4	15.3	72.6	26.9
3	Cleavers	68.2	26.4	38.7	3.6	5.2	14.4	22.0
4	Stinkweed	36.4	14.5	40.0	7.4	20.4	101.4	20.6
5	Chickweed	40.9	19.5	47.8	5.6	13.7	60.8	20.0
6	Wild buckwheat	77.3	23.0	29.7	2.0	2.6	11.2	19.3
7	Pineappleweed	31.8	16.1	50.7	6.0	18.9	51.4	18.5
8	Narrow-leaved hawk's-beard	45.5	12.0	26.5	3.3	7.2	54.0	14.1
9	Wild oats	50.0	12.0	24.1	0.9	1.8	5.0	10.8
10	Canada thistle	54.5	8.4	15.4	1.1	2.0	10.2	10.4
11	Dandelion	59.1	7.7	13.1	0.8	1.4	8.0	10.1
12	Pale smartweed	36.4	10.2	28.1	1.5	4.2	13.2	9.8
13	Stork's-bill	13.6	6.4	46.7	2.5	18.7	52.2	7.7
14	Alsike clover	27.3	7.7	28.3	0.8	3.0	9.8	6.8
15	Bluebur	18.2	7.0	38.8	1.5	8.5	28.4	6.8
16	Broad-leaved plantain	31.8	4.8	15.0	0.4	1.3	5.2	5.7
17	Low cudweed	22.7	3.4	15.0	0.6	2.6	6.2	4.5
18	Volunteer canola	18.2	2.7	15.0	0.5	2.9	9.8	3.7
19	Perennial sow-thistle	22.7	1.6	7.0	0.1	0.3	0.6	3.0
20	Common groundsel	18.2	2.0	11.3	0.2	0.9	2.6	2.9
21	Bicknell's geranium	13.6	2.7	20.0	0.1	1.1	1.8	2.6
22	American dragonhead	13.6	2.3	16.7	0.2	1.2	3.0	2.5
23	Field bindweed	9.1	3.0	32.5	0.3	3.2	6.2	2.4
24	Lamb's-quarters	9.1	3.0	32.5	0.2	1.8	2.8	2.2
25	Volunteer barley	4.5	2.7	60.0	0.5	11.2	11.2	2.2
26	Prostrate knotweed	9.1	2.0	22.5	0.3	3.5	6.4	2.2
27	Western marsh cudweed	4.5	1.1	25.0	0.8	17.2	17.2	2.1
28	Volunteer wheat	13.6	0.9	6.7	0.1	0.4	0.6	1.8
29	Volunteer peas	4.5	2.3	50.0	0.3	6.0	6.0	1.7
30	Redtop	9.1	0.9	10.0	0.1	0.6	1.0	1.4
31	Ball mustard	9.1	0.9	10.0	< 0.1	0.4	0.6	1.3
32	Rose species	9.1	0.5	5.0	< 0.1	0.3	0.4	1.1
33	Cream-colored vetchling	9.1	0.5	5.0	< 0.1	0.2	0.2	1.1
34	Cow cockle	4.5	0.9	20.0	0.1	1.4	1.4	0.9
35	Quack grass	4.5	0.5	10.0	0.1	2.0	2.0	0.8
36	Meadow fescue	4.5	0.7	15.0	< 0.1	0.8	0.8	0.8
37	Two-grooved milk-vetch	4.5	0.7	15.0	< 0.1	0.6	0.6	0.8
38	Yellow sweet-clover	4.5	0.5	10.0	< 0.1	0.4	0.4	0.7
39	Foxtail barley	4.5	0.2	5.0	< 0.1	0.2	0.2	0.6
40	Tall buttercup	4.5	0.2	5.0	< 0.1	0.2	0.2	0.6
41	Scentless chamomile	4.5	0.2	5.0	< 0.1	0.2	0.2	0.6
42	Fireweed	4.5	0.2	5.0	< 0.1	0.2	0.2	0.6

Table 123. Smoky River in the Peace Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Stinkweed	70.0	24.8	35.4	5.6	8.1	75.0	37.6
2	Field horsetail	65.0	27.8	42.7	3.7	5.7	14.6	32.1
3	Wild buckwheat	50.0	19.8	39.5	4.5	9.0	57.8	29.2
4	Dandelion	65.0	29.0	44.6	2.5	3.8	14.8	28.8
5	Canada thistle	50.0	21.3	42.5	3.5	7.1	41.6	26.8
6	Prostrate pigweed	40.0	19.3	48.1	2.0	5.1	15.6	19.8
7	Narrow-leaved hawk's-beard	40.0	12.8	31.9	1.5	3.8	7.0	15.6
8	Lamb's-quarters	40.0	15.0	37.5	0.9	2.3	3.4	14.7
9	Cleavers	30.0	13.0	43.3	1.1	3.7	10.2	13.0
10	Pale smartweed	40.0	10.3	25.6	1.0	2.5	5.8	13.0
11	Hemp-nettle	30.0	10.8	35.8	1.3	4.5	7.8	12.8
12	Wild oats	35.0	11.5	32.9	0.9	2.6	4.8	12.5
13	Chickweed	25.0	7.5	30.0	0.6	2.3	5.0	8.4
14	Perennial sow-thistle	20.0	8.3	41.3	0.6	3.0	7.8	8.1
15	Shepherd's-purse	15.0	4.3	28.3	0.2	1.1	2.2	4.4
16	Quack grass	5.0	2.0	40.0	0.9	18.0	18.0	4.3
17	Bluebur	15.0	3.3	21.7	0.2	1.3	2.4	4.1
18	Pineappleweed	15.0	2.3	15.0	0.3	2.1	5.2	4.1
19	Rough cinquefoil	10.0	2.3	22.5	0.2	1.7	2.8	2.9
20	Volunteer canola	5.0	2.3	45.0	0.2	4.4	4.4	2.3
21	Common groundsel	5.0	1.3	25.0	0.1	1.0	1.0	1.4
22	Corn spurry	5.0	1.0	20.0	0.1	1.2	1.2	1.3
23	Yellow toadflax	5.0	1.0	20.0	0.1	1.2	1.2	1.3
24	Common pepper-grass	5.0	1.0	20.0	< 0.1	0.8	0.8	1.3

Table 124. Athabasca & Lesser Slave River in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Redroot pigweed	50.0	20.4	40.7	9.1	18.1	111.6	41.4
2	Wild buckwheat	64.3	27.9	43.3	3.8	5.9	22.4	34.5
3	Chickweed	35.7	13.2	37.0	7.3	20.4	96.2	30.9
4	Wild oats	64.3	19.6	30.6	2.1	3.3	15.0	25.8
5	Volunteer canola	28.6	8.2	28.8	6.2	21.8	86.4	24.4
6	Corn spurry	35.7	19.6	55.0	3.1	8.8	22.2	24.0
7	Dandelion	71.4	17.1	24.0	1.2	1.7	9.6	23.1
8	Stinkweed	57.1	12.5	21.9	2.1	3.8	26.2	20.8
9	Pale smartweed	21.4	12.9	60.0	2.1	9.9	21.2	15.6
10	Narrow-leaved hawk's-beard	50.0	4.3	8.6	0.2	0.4	0.8	10.3
11	Quack grass	21.4	4.6	21.7	1.5	7.0	19.4	9.5
12	Perennial sow-thistle	42.9	3.2	7.5	0.2	0.4	0.8	8.6
13	Canada thistle	28.6	3.6	12.5	0.2	0.7	1.4	6.7
14	Field horsetail	21.4	2.9	13.3	0.1	0.7	0.8	5.1
15	Hemp-nettle	21.4	1.8	8.3	0.1	0.3	0.6	4.4
16	Lamb's-quarters	14.3	2.9	20.0	0.2	1.7	3.2	4.3
17	Broad-leaved plantain	7.1	2.5	35.0	0.1	1.8	1.8	2.8
18	Cleavers	7.1	1.1	15.0	0.1	0.8	0.8	1.8
19	Volunteer alfalfa	7.1	1.1	15.0	< 0.1	0.6	0.6	1.8
20	Prostrate knotweed	7.1	0.7	10.0	< 0.1	0.4	0.4	1.5
21	Ball mustard	7.1	0.7	10.0	< 0.1	0.4	0.4	1.5
22	Pineappleweed	7.1	0.4	5.0	< 0.1	0.2	0.2	1.3

Table 125. Barrhead & Lac Ste. Anne in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Chickweed	76.9	51.5	67.0	15.3	19.9	75.6	48.2
2	Wild buckwheat	92.3	45.0	48.8	10.6	11.5	85.8	42.4
3	Lamb's-quarters	38.5	15.4	40.0	21.5	55.8	268.8	36.6
4	Stinkweed	46.2	18.8	40.8	11.1	24.1	134.6	26.7
5	Wild oats	46.2	24.2	52.5	7.2	15.5	52.0	24.0
6	Hemp-nettle	84.6	23.5	27.7	2.6	3.1	18.6	23.8
7	Quack grass	61.5	22.3	36.3	2.7	4.5	23.2	20.3
8	White clover	7.7	7.3	95.0	7.4	96.6	96.6	12.6
9	Canada thistle	46.2	11.2	24.2	0.8	1.8	8.2	11.6
10	Pale smartweed	30.8	10.8	35.0	1.2	4.0	7.6	9.8
11	Field horsetail	23.1	9.2	40.0	2.0	8.5	14.4	9.0
12	Round-leaved mallow	15.4	6.2	40.0	0.8	4.9	9.6	5.4
13	Dandelion	15.4	6.2	40.0	0.5	3.0	5.6	5.0
14	Perennial sow-thistle	23.1	3.5	15.0	0.2	0.8	1.8	4.8
15	Common groundsel	15.4	1.9	12.5	0.1	0.8	1.4	3.0
16	Pineappleweed	15.4	1.9	12.5	0.1	0.8	1.4	3.0
17	Cleavers	15.4	1.5	10.0	0.1	0.9	1.0	2.9
18	Narrow-leaved hawk's-beard	15.4	0.8	5.0	< 0.1	0.2	0.2	2.5
19	Wild mustard	7.7	3.1	40.0	0.1	1.6	1.6	2.4
20	Night-flowering catchfly	7.7	1.2	15.0	0.1	1.2	1.2	1.6
21	Green foxtail	7.7	1.2	15.0	< 0.1	0.6	0.6	1.6
22	Stork's-bill	7.7	1.2	15.0	< 0.1	0.6	0.6	1.6
23	Shepherd's-purse	7.7	0.4	5.0	< 0.1	0.2	0.2	1.2

Table 126. Beaver in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	65.4	37.5	57.4	9.3	14.3	45.2	45.3
2	Shepherd's-purse	53.8	16.5	30.7	5.1	9.5	42.4	25.2
3	Stinkweed	73.1	16.7	22.9	3.0	4.1	30.2	23.9
4	Lamb's-quarters	53.8	17.1	31.8	2.9	5.4	20.4	21.3
5	Wild oats	30.8	12.1	39.4	5.5	18.0	71.8	20.7
6	Canada thistle	76.9	14.2	18.5	1.4	1.8	7.2	20.1
7	Corn spurry	3.8	3.7	95.0	7.0	182.4	182.4	15.6
8	Chickweed	38.5	9.6	25.0	2.6	6.9	31.4	15.0
9	Perennial sow-thistle	42.3	10.8	25.5	1.8	4.2	24.4	14.5
10	Quack grass	30.8	6.9	22.5	2.3	7.4	33.8	11.9
11	Cleavers	23.1	9.0	39.2	1.6	7.1	26.6	10.7
12	Volunteer barley	15.4	5.8	37.5	3.0	19.4	71.4	10.6
13	Pineappleweed	23.1	4.0	17.5	1.1	4.8	23.4	7.2
14	Hemp-nettle	23.1	4.6	20.0	0.6	2.7	9.0	6.6
15	Pale smartweed	23.1	3.3	14.2	0.9	4.1	20.6	6.5
16	Common groundsel	30.8	3.5	11.3	0.2	0.8	1.4	6.3
17	Ball mustard	11.5	3.5	30.0	1.2	10.0	28.8	5.5
18	Scentless chamomile	19.2	3.8	20.0	0.5	2.6	9.6	5.5
19	Volunteer wheat	11.5	4.6	40.0	0.8	6.5	9.6	5.3
20	Green foxtail	7.7	3.7	47.5	0.7	8.5	15.2	4.1
21	Redroot pigweed	23.1	1.2	5.0	0.1	0.5	0.8	3.9
22	Narrow-leaved hawk's-beard	11.5	1.5	13.3	0.2	1.7	2.4	2.7
23	Foxtail barley	3.8	1.0	25.0	0.8	19.8	19.8	2.4
24	Bluebur	7.7	0.8	10.0	< 0.1	0.6	1.0	1.5
25	Field horsetail	7.7	0.4	5.0	0.1	1.3	2.4	1.4
26	Flixweed	7.7	0.6	7.5	< 0.1	0.5	0.8	1.4
27	Dandelion	7.7	0.4	5.0	< 0.1	0.6	1.0	1.3
28	Absinth	3.8	0.4	10.0	0.1	2.0	2.0	0.9
29	Wild chamomile	3.8	0.2	5.0	0.1	2.0	2.0	0.8
30	Night-flowering catchfly	3.8	0.4	10.0	< 0.1	0.4	0.4	0.7
31	Rough cinquefoil	3.8	0.2	5.0	< 0.1	1.0	1.0	0.7
32	Volunteer peas	3.8	0.2	5.0	< 0.1	0.2	0.2	0.6

Table 127. Camrose in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Pale smartweed	70.3	40.3	57.3	18.1	25.8	145.2	86.2
2	Canada thistle	91.9	28.0	30.4	2.1	2.3	16.2	35.9
3	Wild oats	70.3	25.9	36.9	2.6	3.7	19.4	32.7
4	Wild buckwheat	59.5	26.2	44.1	2.4	4.0	15.4	30.2
5	Stinkweed	40.5	10.9	27.0	1.0	2.6	19.0	15.5
6	Cleavers	35.1	9.3	26.5	0.8	2.2	10.2	12.9
7	Shepherd's-purse	35.1	9.1	25.8	0.8	2.2	9.2	12.9
8	Perennial sow-thistle	21.6	8.0	36.9	0.8	3.5	10.0	9.9
9	Pineappleweed	24.3	5.5	22.8	0.9	3.9	23.8	9.7
10	Hemp-nettle	18.9	5.4	28.6	0.7	3.7	18.4	8.0
11	Quack grass	16.2	6.2	38.3	0.6	3.4	6.8	7.5
12	Dandelion	21.6	3.9	18.1	0.2	1.1	4.4	6.4
13	Lamb's-quarters	21.6	3.9	18.1	0.2	1.1	4.2	6.3
14	Volunteer canola	10.8	3.8	35.0	0.3	2.9	5.6	4.6
15	Volunteer oats	5.4	2.8	52.5	0.6	11.1	22.0	4.1
16	Volunteer barley	5.4	3.4	62.5	0.3	6.2	8.8	3.6
17	Chickweed	10.8	2.0	18.8	0.2	1.6	5.2	3.4
18	Volunteer alfalfa	2.7	2.7	100.0	0.5	18.0	18.0	3.3
19	Volunteer wheat	5.4	2.7	50.0	0.2	3.6	6.4	2.8
20	Field horsetail	5.4	0.5	10.0	0.1	1.2	1.6	1.4
21	Green foxtail	5.4	0.4	7.5	< 0.1	0.9	1.6	1.3
22	Narrow-leaved hawk's-beard	2.7	0.5	20.0	< 0.1	1.0	1.0	0.8
23	Tansy	2.7	0.3	10.0	< 0.1	0.4	0.4	0.6

Table 128. Flagstaff in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild oats	91.4	49.9	54.5	17.8	19.5	167.0	57.1
2	Wild buckwheat	71.4	39.4	55.2	11.4	16.0	101.0	40.9
3	Green foxtail	48.6	23.9	49.1	6.5	13.3	70.8	24.8
4	Stinkweed	45.7	16.7	36.6	7.8	17.1	203.2	23.8
5	Shepherd's-purse	57.1	22.7	39.8	5.3	9.4	90.4	23.7
6	Canada thistle	51.4	16.1	31.4	1.9	3.7	9.8	15.2
7	Lamb's-quarters	60.0	12.6	21.0	0.9	1.5	10.6	13.5
8	Narrow-leaved hawk's-beard	34.3	8.7	25.4	2.2	6.4	55.6	10.8
9	Pale smartweed	40.0	10.0	25.0	1.0	2.5	11.6	10.2
10	Perennial sow-thistle	37.1	9.1	24.6	1.0	2.8	10.8	9.6
11	Quack grass	37.1	6.1	16.5	1.6	4.4	35.6	9.3
12	Common groundsel	37.1	8.9	23.8	0.8	2.2	14.2	9.1
13	Annual sow-thistle	14.3	5.9	41.0	1.6	11.0	48.0	6.4
14	Chickweed	11.4	3.7	32.5	2.1	18.1	64.2	5.9
15	Cleavers	20.0	4.3	21.4	0.8	4.2	26.0	5.3
16	Dandelion	28.6	3.3	11.5	0.2	0.6	1.2	5.0
17	Volunteer wheat	17.1	4.6	26.7	0.6	3.2	10.0	4.7
18	Redroot pigweed	11.4	2.4	21.3	1.1	9.6	18.2	4.0
19	Pineappleweed	17.1	2.4	14.2	0.1	0.9	3.6	3.2
20	Stork's-bill	14.3	1.9	13.0	0.1	0.8	2.2	2.6
21	Ball mustard	8.6	2.6	30.0	0.4	4.4	12.4	2.6
22	Hemp-nettle	14.3	1.7	12.0	0.1	0.6	2.2	2.5
23	Volunteer canola	11.4	2.0	17.5	0.1	1.0	1.8	2.3
24	Volunteer barley	2.9	1.4	50.0	0.2	8.6	8.6	1.3
25	Prostrate knotweed	5.7	0.9	15.0	0.1	0.9	1.6	1.1
26	Scentless chamomile	2.9	0.7	25.0	0.2	6.2	6.2	0.9
27	Wild tomato	2.9	0.4	15.0	< 0.1	0.6	0.6	0.5
28	Round-leaved mallow	2.9	0.3	10.0	< 0.1	1.0	1.0	0.5
29	American dragonhead	2.9	0.3	10.0	< 0.1	0.4	0.4	0.5
30	Flixweed	2.9	0.3	10.0	< 0.1	0.4	0.4	0.5
31	Wild mustard	2.9	0.3	10.0	< 0.1	0.4	0.4	0.5
32	Wood whitlow-grass	2.9	0.3	10.0	< 0.1	0.4	0.4	0.5
33	Foxtail barley	2.9	0.1	5.0	< 0.1	0.4	0.4	0.4
34	Field horsetail	2.9	0.1	5.0	< 0.1	0.2	0.2	0.4
35	Volunteer peas	2.9	0.1	5.0	< 0.1	0.2	0.2	0.4

Table 129. Lamont in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	61.1	49.7	81.4	25.3	41.4	150.8	70.4
2	Wild oats	44.4	28.3	63.8	10.6	23.8	77.2	36.0
3	Wild buckwheat	66.7	35.0	52.5	5.0	7.5	27.0	34.3
4	Hemp-nettle	38.9	15.8	40.7	3.2	8.1	23.2	18.4
5	Volunteer canola	22.2	14.2	63.8	2.8	12.4	23.8	14.2
6	Low cudweed	5.6	5.3	95.0	6.7	121.2	121.2	13.4
7	Volunteer wheat	38.9	9.4	24.3	1.0	2.7	10.8	12.4
8	Canada thistle	44.4	7.2	16.3	0.5	1.2	2.6	11.6
9	Cleavers	22.2	9.2	41.3	1.6	7.1	18.4	10.2
10	Quack grass	11.1	6.1	55.0	2.6	23.0	44.6	8.4
11	Volunteer barley	27.8	4.7	17.0	0.3	1.2	1.8	7.4
12	Corn spurry	16.7	5.8	35.0	1.2	7.1	11.4	7.2
13	Field horsetail	27.8	3.6	13.0	0.3	1.1	3.4	6.8
14	Pale smartweed	16.7	3.3	20.0	0.5	2.9	7.4	5.1
15	Lamb's-quarters	22.2	2.2	10.0	0.1	0.6	0.6	5.0
16	Redroot pigweed	5.6	3.1	55.0	1.7	30.2	30.2	4.8
17	Narrow-leaved hawk's-beard	16.7	3.1	18.3	0.3	1.5	2.2	4.6
18	Dandelion	16.7	3.1	18.3	0.1	0.8	1.8	4.4
19	Knawel	11.1	2.8	25.0	0.3	2.8	3.4	3.6
20	Bluebur	5.6	3.9	70.0	0.5	9.2	9.2	3.4
21	Tartary buckwheat	5.6	3.3	60.0	0.3	6.2	6.2	2.9
22	Green foxtail	5.6	3.1	55.0	0.4	6.8	6.8	2.9
23	White clover	11.1	1.1	10.0	0.1	1.3	2.0	2.6
24	Stork's-bill	5.6	1.7	30.0	0.4	6.6	6.6	2.2
25	Night-flowering catchfly	5.6	1.4	25.0	0.1	2.0	2.0	1.7
26	Spiny annual sow-thistle	5.6	1.1	20.0	0.2	3.4	3.4	1.7
27	Stinkweed	5.6	1.1	20.0	0.1	1.0	1.0	1.5
28	Scentless chamomile	5.6	0.8	15.0	< 0.1	0.8	0.8	1.4
29	Perennial sow-thistle	5.6	0.3	5.0	< 0.1	0.4	0.4	1.1

Table 130. Leduc in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	66.7	54.7	82.0	34.3	51.4	175.4	77.8
2	Pale smartweed	60.0	22.3	37.2	6.9	11.6	65.2	28.3
3	Wild buckwheat	46.7	21.3	45.7	7.0	15.0	79.2	25.6
4	Hemp-nettle	53.3	21.7	40.6	5.1	9.6	37.0	24.5
5	Cleavers	40.0	20.0	50.0	3.0	7.4	20.6	18.7
6	Canada thistle	33.3	18.3	55.0	2.5	7.4	16.4	16.2
7	Wild oats	33.3	14.7	44.0	3.5	10.4	40.6	16.1
8	Corn spurry	13.3	7.3	55.0	4.8	36.3	71.0	11.5
9	Field horsetail	26.7	11.0	41.3	1.7	6.4	16.2	11.2
10	Narrow-leaved hawk's-beard	26.7	8.7	32.5	1.4	5.1	18.4	9.8
11	Volunteer canola	26.7	8.7	32.5	0.6	2.2	3.6	8.8
12	Shepherd's-purse	26.7	7.0	26.3	0.7	2.5	6.6	8.3
13	Lamb's-quarters	13.3	10.0	75.0	1.2	8.7	12.4	7.8
14	Spiny annual sow-thistle	6.7	6.3	95.0	1.9	29.0	29.0	6.2
15	Dandelion	13.3	7.0	52.5	0.6	4.8	9.0	5.9
16	Perennial sow-thistle	20.0	4.3	21.7	0.3	1.5	2.0	5.6
17	Stinkweed	13.3	4.3	32.5	0.4	3.1	3.2	4.6
18	Volunteer wheat	13.3	2.3	17.5	0.3	2.2	3.6	3.6
19	White clover	13.3	2.3	17.5	0.2	1.2	1.6	3.4
20	Volunteer alfalfa	6.7	1.3	20.0	0.1	1.0	1.0	1.8
21	Green foxtail	6.7	1.0	15.0	< 0.1	0.6	0.6	1.6
22	Bluebur	6.7	0.7	10.0	0.1	1.0	1.0	1.5
23	Pineappleweed	6.7	0.3	5.0	< 0.1	0.4	0.4	1.3

Table 131. Minburn in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild oats	26.1	19.6	75.0	3.3	12.8	39.2	71.1
2	Quack grass	39.1	17.2	43.9	1.2	3.0	9.4	49.0
3	Wild buckwheat	30.4	15.7	51.4	0.9	3.1	5.8	40.7
4	Canada thistle	26.1	11.7	45.0	0.9	3.3	8.6	33.8
5	Cleavers	17.4	9.6	55.0	0.6	3.7	5.8	25.1
6	Chickweed	8.7	6.1	70.0	0.5	6.2	7.4	16.5
7	Dandelion	13.0	2.2	16.7	0.1	0.7	1.6	9.1
8	Narrow-leaved hawk's-beard	8.7	2.6	30.0	0.1	1.7	2.6	8.3
9	Lamb's-quarters	8.7	2.2	25.0	0.1	1.7	1.8	7.8
10	Stinkweed	8.7	1.5	17.5	0.1	0.8	0.8	6.2
11	Field horsetail	8.7	1.3	15.0	0.1	1.0	1.8	6.2
12	Volunteer wheat	4.3	2.4	55.0	0.1	2.8	2.8	5.8
13	Perennial sow-thistle	8.7	0.9	10.0	< 0.1	0.4	0.6	5.1
14	Green foxtail	4.3	1.3	30.0	0.1	1.8	1.8	4.2
15	Wild mustard	4.3	1.3	30.0	0.1	1.2	1.2	3.9
16	Rose species	4.3	1.3	30.0	0.1	1.2	1.2	3.9
17	Volunteer canola	4.3	0.9	20.0	< 0.1	0.8	0.8	3.2

Table 132. Parkland & Yellowhead in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Chickweed	36.4	24.1	66.3	198.0	544.5	1727.2	106.7
2	Wild buckwheat	72.7	33.6	46.3	8.2	11.3	24.8	42.0
3	Field horsetail	36.4	13.6	37.5	3.0	8.3	20.6	18.4
4	Dandelion	27.3	15.5	56.7	4.9	18.1	32.0	18.4
5	Wild oats	18.2	10.5	57.5	7.8	42.8	82.2	14.2
6	Hemp-nettle	27.3	10.5	38.3	1.7	6.4	10.4	13.8
7	Canada thistle	36.4	7.3	20.0	1.4	3.9	10.6	13.6
8	Spiny annual sow-thistle	9.1	8.2	90.0	7.6	83.6	83.6	10.6
9	Volunteer alfalfa	18.2	7.3	40.0	1.1	5.8	10.0	9.3
10	Lamb's-quarters	27.3	3.6	13.3	1.1	3.9	8.4	9.0
11	Quack grass	27.3	3.6	13.3	1.0	3.6	9.2	8.9
12	Perennial sow-thistle	27.3	2.7	10.0	0.5	1.9	2.4	8.1
13	Pale smartweed	18.2	2.7	15.0	1.1	5.8	10.8	6.3
14	Stinkweed	9.1	2.7	30.0	0.2	2.2	2.2	3.9
15	Volunteer canola	9.1	1.8	20.0	1.1	12.6	12.6	3.7
16	Cleavers	9.1	0.9	10.0	0.4	4.8	4.8	2.8
17	Green foxtail	9.1	0.9	10.0	0.1	1.6	1.6	2.7
18	Narrow-leaved hawk's-beard	9.1	0.9	10.0	0.1	0.6	0.6	2.7
19	Downy brome	9.1	0.5	5.0	0.1	0.8	0.8	2.4
20	Small-seeded false flax	9.1	0.5	5.0	0.1	0.8	0.8	2.4

Table 133. Provost in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Green foxtail	66.7	38.6	57.9	39.7	59.6	271.2	105.9
2	Wild buckwheat	61.9	37.4	60.4	10.8	17.4	112.2	55.2
3	Lamb's-quarters	61.9	12.4	20.0	1.8	2.9	10.4	22.5
4	Wild oats	57.1	6.7	11.7	0.9	1.6	8.2	16.1
5	Canada thistle	47.6	7.4	15.5	0.9	1.9	4.4	15.0
6	Stinkweed	42.9	6.4	15.0	0.5	1.2	5.4	12.8
7	Russian thistle	28.6	6.9	24.2	0.8	2.9	12.8	11.2
8	Volunteer wheat	19.0	4.8	25.0	0.7	3.5	12.6	7.8
9	Shepherd's-purse	19.0	3.8	20.0	0.3	1.6	3.8	6.5
10	Redroot pigweed	23.8	1.9	8.0	0.2	0.7	2.6	5.8
11	Kochia	19.0	2.1	11.3	0.2	1.3	2.8	5.2
12	Stork's-bill	9.5	3.3	35.0	0.6	6.2	9.4	5.0
13	Quack grass	14.3	1.7	11.7	0.4	2.6	5.8	4.3
14	Volunteer barley	19.0	1.0	5.0	0.1	0.4	0.8	4.1
15	Perennial sow-thistle	19.0	1.0	5.0	< 0.1	0.2	0.2	4.0
16	Volunteer flax	4.8	2.4	50.0	0.7	14.0	14.0	3.6
17	Volunteer canola	9.5	1.2	12.5	0.1	1.1	2.0	2.7
18	Showy milkweed	9.5	0.7	7.5	< 0.1	0.5	0.8	2.2
19	Dandelion	9.5	0.5	5.0	< 0.1	0.2	0.2	2.0
20	Rose species	9.5	0.5	5.0	< 0.1	0.2	0.2	2.0
21	Cleavers	4.8	0.7	15.0	0.2	3.2	3.2	1.6
22	Hemp-nettle	4.8	0.5	10.0	0.1	1.2	1.2	1.3
23	Pale smartweed	4.8	0.5	10.0	< 0.1	0.4	0.4	1.2
24	Round-leaved mallow	4.8	0.2	5.0	< 0.1	1.0	1.0	1.1
25	Dog mustard	4.8	0.2	5.0	< 0.1	0.2	0.2	1.0

Table 134. Smoky Lake in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Chickweed	90.9	50.5	55.5	9.2	10.1	27.8	61.2
2	Wild oats	81.8	47.7	58.3	9.8	12.0	35.8	60.2
3	Wild buckwheat	72.7	37.3	51.3	4.2	5.8	22.8	39.0
4	Hemp-nettle	45.5	17.3	38.0	3.6	7.9	33.4	24.4
5	Canada thistle	72.7	15.5	21.3	1.2	1.7	6.0	21.3
6	Perennial sow-thistle	63.6	16.8	26.4	1.0	1.5	4.2	19.8
7	Volunteer wheat	27.3	19.1	70.0	2.5	9.1	12.4	19.3
8	Knawel	9.1	6.8	75.0	2.0	22.4	22.4	10.0
9	Volunteer barley	9.1	8.2	90.0	1.7	18.6	18.6	9.6
10	Field horsetail	36.4	3.2	8.8	0.2	0.5	0.8	7.5
11	White cockle	27.3	1.8	6.7	0.1	0.4	0.8	5.3
12	Pale smartweed	18.2	3.6	20.0	0.3	1.7	3.2	5.2
13	Stinkweed	27.3	1.8	6.7	0.1	0.3	0.4	5.2
14	Pasture sage	9.1	0.9	10.0	0.1	0.8	0.8	2.0
15	Quack grass	9.1	0.5	5.0	< 0.1	0.4	0.4	1.7
16	Dandelion	9.1	0.5	5.0	< 0.1	0.2	0.2	1.7
17	Wild mustard	9.1	0.5	5.0	< 0.1	0.2	0.2	1.7
18	Spiny annual sow-thistle	9.1	0.5	5.0	< 0.1	0.2	0.2	1.7
19	Stork's-bill	9.1	0.5	5.0	< 0.1	0.2	0.2	1.7
20	White clover	9.1	0.5	5.0	< 0.1	0.2	0.2	1.7

Table 135. St. Paul & Bonnyville in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild buckwheat	84.2	37.6	44.7	11.6	13.8	78.6	51.9
2	Wild oats	78.9	25.8	32.7	3.3	4.1	31.2	27.4
3	Chickweed	52.6	16.6	31.5	2.1	4.1	17.2	18.0
4	Stinkweed	42.1	18.7	44.4	2.0	4.7	16.2	17.2
5	Pale smartweed	47.4	15.5	32.8	2.1	4.4	13.4	16.8
6	Canada thistle	47.4	12.4	26.1	1.9	3.9	14.6	15.0
7	Lamb's-quarters	36.8	13.7	37.1	2.0	5.4	29.6	14.5
8	Green foxtail	47.4	11.1	23.3	1.5	3.1	14.8	13.5
9	Volunteer alfalfa	10.5	5.5	52.5	4.1	39.3	78.4	13.0
10	Quack grass	31.6	9.7	30.8	2.2	7.1	28.6	12.9
11	Field horsetail	26.3	8.9	34.0	2.3	8.9	26.0	12.2
12	Narrow-leaved hawk's-beard	36.8	9.5	25.7	0.8	2.1	6.8	10.1
13	Shepherd's-purse	26.3	8.9	34.0	1.3	4.9	20.6	9.8
14	Hemp-nettle	42.1	6.1	14.4	0.4	1.0	2.2	8.6
15	Wild mustard	15.8	5.8	36.7	1.6	10.1	30.0	7.9
16	Perennial sow-thistle	26.3	6.8	26.0	0.6	2.1	3.8	7.2
17	Volunteer canola	26.3	3.4	13.0	0.3	1.0	2.2	5.2
18	Yellow sweet-clover	5.3	5.3	100.0	0.9	16.6	16.6	4.8
19	Dandelion	21.1	3.7	17.5	0.3	1.3	4.2	4.7
20	Volunteer wheat	5.3	4.2	80.0	0.9	16.4	16.4	4.3
21	Bluebur	10.5	4.7	45.0	0.3	3.1	5.0	3.9
22	Cleavers	10.5	2.4	22.5	0.3	2.8	5.2	2.9
23	Volunteer barley	10.5	2.1	20.0	0.2	2.3	3.2	2.7
24	White cockle	15.8	0.8	5.0	0.1	0.3	0.4	2.4
25	Ball mustard	5.3	2.4	45.0	0.3	5.6	5.6	2.3
26	Common groundsel	10.5	0.8	7.5	0.1	0.5	0.8	1.7
27	Kochia	5.3	1.3	25.0	0.1	2.8	2.8	1.5
28	White clover	5.3	1.1	20.0	0.1	2.2	2.2	1.3
29	Cow cockle	5.3	1.1	20.0	< 0.1	0.8	0.8	1.2
30	Volunteer fall rye	5.3	0.5	10.0	0.1	2.2	2.2	1.1
31	Red clover	5.3	0.5	10.0	0.1	1.0	1.0	1.0
32	Pineappleweed	5.3	0.3	5.0	< 0.1	0.4	0.4	0.8
33	Knawel	5.3	0.3	5.0	< 0.1	0.2	0.2	0.8
34	Broad-leaved plantain	5.3	0.3	5.0	< 0.1	0.2	0.2	0.8
35	Stork's-bill	5.3	0.3	5.0	< 0.1	0.2	0.2	0.8

Table 136. Sturgeon & Strathcona in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Chickweed	69.2	30.6	44.2	7.5	10.9	55.4	64.1
2	Wild buckwheat	65.4	22.3	34.1	2.2	3.4	16.0	34.8
3	Wild oats	46.2	18.8	40.8	3.3	7.2	23.0	34.3
4	Canada thistle	50.0	16.5	33.1	1.8	3.5	11.8	26.5
5	Cleavers	42.3	13.1	30.9	2.0	4.8	23.6	24.3
6	Perennial sow-thistle	34.6	11.3	32.8	1.0	2.8	8.4	17.2
7	Pale smartweed	30.8	6.7	21.9	1.0	3.1	20.8	13.5
8	Volunteer canola	23.1	5.4	23.3	1.1	4.9	25.8	12.2
9	Stinkweed	26.9	5.0	18.6	0.5	1.8	7.2	9.8
10	Hemp-nettle	30.8	4.6	15.0	0.3	1.0	5.0	9.2
11	Dandelion	30.8	2.1	6.9	0.1	0.5	1.4	7.0
12	Field horsetail	23.1	2.1	9.2	0.1	0.6	1.4	5.7
13	Narrow-leaved hawk's-beard	19.2	2.5	13.0	0.1	0.8	2.0	5.4
14	Shepherd's-purse	15.4	1.7	11.3	0.2	1.1	3.0	4.4
15	Volunteer wheat	3.8	2.3	60.0	0.4	11.2	11.2	4.0
16	Wild mustard	15.4	1.3	8.8	0.1	0.4	0.6	3.6
17	Pineappleweed	11.5	1.2	10.0	0.1	0.7	1.2	3.0
18	Green foxtail	7.7	1.7	22.5	0.1	1.6	3.0	2.9
19	Common groundsel	11.5	0.8	6.7	< 0.1	0.4	0.6	2.6
20	Quack grass	7.7	1.2	15.0	0.1	1.2	2.2	2.4
21	Lamb's-quarters	11.5	0.6	5.0	< 0.1	0.3	0.4	2.4
22	Round-leaved mallow	3.8	1.3	35.0	0.1	3.4	3.4	2.1
23	White cockle	7.7	0.4	5.0	< 0.1	0.2	0.2	1.6
24	Scentless chamomile	3.8	0.6	15.0	0.1	1.6	1.6	1.3
25	Flixweed	3.8	0.6	15.0	< 0.1	0.8	0.8	1.1
26	Volunteer barley	3.8	0.6	15.0	< 0.1	0.8	0.8	1.1
27	Field bindweed	3.8	0.4	10.0	< 0.1	0.4	0.4	0.9
28	Night-flowering catchfly	3.8	0.4	10.0	< 0.1	0.4	0.4	0.9
29	Dog mustard	3.8	0.2	5.0	< 0.1	1.0	1.0	0.9
30	Stork's-bill	3.8	0.2	5.0	< 0.1	0.6	0.6	0.9

Table 137. Two Hills in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	81.0	22.1	27.4	1.5	1.8	8.6	60.3
2	Lamb's-quarters	61.9	6.9	11.2	0.4	0.7	2.0	25.4
3	Stinkweed	23.8	9.0	38.0	0.7	2.8	5.6	24.0
4	Canada thistle	52.4	6.9	13.2	0.4	0.9	3.4	23.6
5	Quack grass	52.4	7.1	13.6	0.4	0.8	2.2	23.3
6	Shepherd's-purse	33.3	6.7	20.0	0.4	1.3	2.4	19.6
7	Chickweed	9.5	4.3	45.0	0.8	8.3	15.6	18.2
8	Cleavers	28.6	4.5	15.8	0.3	0.9	1.4	14.0
9	Wild oats	28.6	4.5	15.8	0.3	0.9	2.8	13.9
10	Stork's-bill	14.3	4.5	31.7	0.4	2.7	5.4	13.1
11	Perennial sow-thistle	28.6	3.1	10.8	0.1	0.5	1.2	10.7
12	Volunteer canola	14.3	3.6	25.0	0.2	1.7	4.6	10.1
13	Hemp-nettle	23.8	1.7	7.0	0.1	0.3	0.8	7.3
14	Pale smartweed	23.8	1.7	7.0	0.1	0.3	0.4	7.1
15	Narrow-leaved hawk's-beard	19.0	1.7	8.8	0.1	0.5	1.0	6.7
16	Common groundsel	4.8	2.6	55.0	0.1	3.0	3.0	5.8
17	Pineappleweed	4.8	1.9	40.0	0.1	2.0	2.0	4.3
18	Field horsetail	9.5	1.2	12.5	0.1	0.6	0.6	3.9
19	Foxtail barley	4.8	0.5	10.0	< 0.1	0.6	0.6	1.8
20	Green foxtail	4.8	0.5	10.0	< 0.1	0.4	0.4	1.7
21	Volunteer barley	4.8	0.2	5.0	< 0.1	0.6	0.6	1.6
22	Wild mustard	4.8	0.2	5.0	< 0.1	0.2	0.2	1.3
23	Redroot pigweed	4.8	0.2	5.0	< 0.1	0.2	0.2	1.3
24	Volunteer wheat	4.8	0.2	5.0	< 0.1	0.2	0.2	1.3

Table 138. Vermilion River in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	71.7	31.7	44.2	4.9	6.9	53.2	62.3
2	Wild buckwheat	78.3	33.4	42.6	3.5	4.5	26.8	55.6
3	Volunteer wheat	37.0	13.2	35.6	1.1	3.0	10.4	21.2
4	Canada thistle	45.7	8.7	19.0	0.8	1.8	7.0	18.1
5	Lamb's-quarters	43.5	8.3	19.0	0.7	1.6	9.4	16.7
6	Shepherd's-purse	41.3	5.7	13.7	0.6	1.5	6.8	14.2
7	Perennial sow-thistle	34.8	5.2	15.0	0.4	1.2	5.8	11.5
8	Narrow-leaved hawk's-beard	26.1	6.0	22.9	0.5	1.9	7.2	11.1
9	Stinkweed	34.8	4.5	12.8	0.3	1.0	3.6	10.6
10	Cleavers	23.9	5.0	20.9	0.5	2.0	5.8	10.0
11	Hemp-nettle	28.3	5.0	17.7	0.3	1.2	3.4	9.9
12	Green foxtail	15.2	5.1	33.6	0.6	3.9	17.8	9.4
13	Common groundsel	17.4	3.8	21.9	0.4	2.1	7.2	7.5
14	Chickweed	13.0	2.9	22.5	0.3	2.3	4.8	5.8
15	Volunteer canola	15.2	2.9	19.3	0.1	1.0	2.8	5.3
16	Quack grass	15.2	1.5	10.0	0.2	1.1	2.2	4.5
17	Field horsetail	10.9	1.6	15.0	0.1	1.3	4.4	3.7
18	Pale smartweed	6.5	1.8	28.3	0.1	2.1	3.2	3.1
19	Volunteer barley	4.3	1.7	40.0	0.2	4.2	4.8	2.9
20	White clover	8.7	1.5	17.5	0.1	0.8	1.6	2.8
21	Volunteer oats	2.2	1.0	45.0	0.3	12.6	12.6	2.7
22	Dandelion	8.7	0.4	5.0	< 0.1	0.2	0.2	1.8
23	Rose species	6.5	0.4	6.7	< 0.1	0.4	0.6	1.5
24	Field bindweed	6.5	0.4	6.7	< 0.1	0.3	0.4	1.5
25	Yellow toadflax	2.2	0.4	20.0	0.1	4.4	4.4	1.2
26	Stork's-bill	4.3	0.3	7.5	< 0.1	0.5	0.8	1.0
27	Ball mustard	2.2	0.4	20.0	< 0.1	0.8	0.8	0.7
28	Smooth brome	2.2	0.3	15.0	< 0.1	1.2	1.2	0.7
29	Downy brome	2.2	0.1	5.0	< 0.1	1.8	1.8	0.7
30	Foxtail barley	2.2	0.2	10.0	< 0.1	0.6	0.6	0.6
31	Ground-ivy	2.2	0.1	5.0	< 0.1	0.2	0.2	0.4
32	Pineappleweed	2.2	0.1	5.0	< 0.1	0.2	0.2	0.4
33	Wild tomato	2.2	0.1	5.0	< 0.1	0.2	0.2	0.4

Table 139. Wainwright in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild buckwheat	90.9	38.4	42.3	4.1	4.5	19.4	55.0
2	Wild oats	54.5	21.6	39.6	3.2	5.8	24.0	35.6
3	Volunteer wheat	22.7	14.8	65.0	3.5	15.2	32.2	28.4
4	Cleavers	36.4	15.0	41.3	1.8	4.8	12.2	22.4
5	Quack grass	63.6	10.2	16.1	1.0	1.5	7.6	19.8
6	Perennial sow-thistle	63.6	8.9	13.9	0.7	1.1	5.4	17.8
7	Green foxtail	22.7	9.3	41.0	1.6	6.9	24.2	16.2
8	Shepherd's-purse	36.4	9.1	25.0	0.9	2.4	8.8	14.8
9	Stinkweed	45.5	7.0	15.5	0.6	1.3	5.8	13.5
10	Redroot pigweed	27.3	6.8	25.0	1.0	3.8	16.2	12.9
11	Canada thistle	40.9	4.3	10.6	0.4	0.9	2.0	10.2
12	Chickweed	27.3	5.5	20.0	0.4	1.5	4.8	9.2
13	Volunteer barley	13.6	4.5	33.3	0.8	5.7	16.8	8.4
14	Lamb's-quarters	27.3	3.9	14.2	0.3	1.2	4.4	7.8
15	Stork's-bill	18.2	3.0	16.3	0.2	1.0	3.0	5.3
16	Volunteer canola	18.2	2.5	13.8	0.1	0.7	1.8	4.7
17	Pale smartweed	4.5	1.8	40.0	0.2	4.4	4.4	2.7
18	Rose species	4.5	1.1	25.0	0.3	5.6	5.6	2.5
19	Flixweed	9.1	1.1	12.5	< 0.1	0.5	0.6	2.2
20	Wild mustard	9.1	0.7	7.5	< 0.1	0.3	0.4	1.9
21	Yellow toadflax	9.1	0.5	5.0	< 0.1	0.5	0.6	1.8
22	Dandelion	9.1	0.5	5.0	< 0.1	0.2	0.2	1.7
23	White cockle	4.5	0.5	10.0	< 0.1	0.4	0.4	1.0
24	Bluebur	4.5	0.2	5.0	< 0.1	0.2	0.2	0.8
25	Field horsetail	4.5	0.2	5.0	< 0.1	0.2	0.2	0.8
26	Kochia	4.5	0.2	5.0	< 0.1	0.2	0.2	0.8
27	Volunteer alfalfa	4.5	0.2	5.0	< 0.1	0.2	0.2	0.8
28	Alsike clover	4.5	0.2	5.0	< 0.1	0.2	0.2	0.8

Table 140. Westlock & Thorhild in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild oats	25.9	12.0	46.4	15.2	58.8	379.6	71.4
2	Wild buckwheat	48.1	17.8	36.9	1.7	3.5	22.8	33.0
3	Shepherd's-purse	37.0	12.2	33.0	1.3	3.5	11.8	23.9
4	White clover	22.2	10.0	45.0	2.5	11.3	38.4	23.0
5	Chickweed	40.7	7.0	17.3	1.0	2.4	18.8	18.9
6	Canada thistle	37.0	5.7	15.5	0.5	1.5	5.4	15.4
7	Hemp-nettle	37.0	4.8	13.0	0.7	2.0	8.8	15.3
8	Cleavers	14.8	6.1	41.3	1.3	8.7	27.6	13.5
9	Volunteer canola	25.9	5.9	22.9	0.6	2.3	7.4	13.3
10	Narrow-leaved hawk's-beard	22.2	5.6	25.0	0.4	2.0	6.6	11.6
11	Lamb's-quarters	18.5	2.2	12.0	0.4	2.2	7.0	7.6
12	Perennial sow-thistle	22.2	2.4	10.8	0.1	0.5	1.6	7.6
13	Pale smartweed	11.1	2.6	23.3	0.4	3.9	11.0	6.4
14	Round-leaved mallow	11.1	3.3	30.0	0.2	1.8	4.4	6.2
15	Common groundsel	11.1	2.6	23.3	0.2	1.4	1.8	5.4
16	Quack grass	11.1	2.2	20.0	0.1	1.3	3.0	5.0
17	Bluebur	7.4	1.7	22.5	0.4	4.9	9.6	4.5
18	Pineappleweed	7.4	1.7	22.5	0.2	3.0	5.6	4.0
19	Stinkweed	11.1	1.1	10.0	0.1	1.0	1.2	3.9
20	Volunteer wheat	3.7	1.3	35.0	0.3	8.8	8.8	3.2
21	Cow cockle	7.4	0.6	7.5	< 0.1	0.4	0.6	2.3
22	Purslane	3.7	0.6	15.0	< 0.1	0.6	0.6	1.4
23	Dandelion	3.7	0.4	10.0	< 0.1	0.8	0.8	1.3
24	Broad-leaved plantain	3.7	0.4	10.0	< 0.1	0.4	0.4	1.2
25	Russian pigweed	3.7	0.2	5.0	< 0.1	0.2	0.2	1.0

Table 141. Wetaskiwin in the North Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Chickweed	84.6	53.5	63.2	24.4	28.8	128.0	70.1
2	Volunteer canola	53.8	15.4	28.6	11.4	21.3	143.2	31.1
3	Wild buckwheat	76.9	27.7	36.0	2.8	3.6	11.4	26.3
4	Stinkweed	53.8	19.2	35.7	2.9	5.5	17.8	19.8
5	Annual sow-thistle	46.2	16.9	36.7	3.8	8.3	33.8	19.1
6	Dandelion	46.2	20.4	44.2	2.8	6.1	16.6	19.0
7	Hemp-nettle	30.8	13.5	43.8	1.5	4.9	8.0	12.1
8	Canada thistle	46.2	7.3	15.8	0.7	1.6	3.4	10.7
9	Cleavers	23.1	10.0	43.3	1.6	7.1	18.4	9.8
10	Wild oats	46.2	5.0	10.8	0.6	1.4	2.8	9.6
11	Stork's-bill	7.7	7.3	95.0	3.1	40.0	40.0	8.6
12	Perennial sow-thistle	38.5	4.2	11.0	0.3	0.8	2.0	7.7
13	Shepherd's-purse	15.4	8.5	55.0	1.2	7.8	15.0	7.4
14	Green foxtail	7.7	7.3	95.0	2.2	28.6	28.6	7.3
15	Wormseed mustard	7.7	6.9	90.0	2.0	25.6	25.6	6.8
16	Pineappleweed	7.7	3.5	45.0	2.5	32.6	32.6	6.3
17	White clover	15.4	5.8	37.5	0.7	4.5	8.6	5.6
18	Pale smartweed	15.4	3.1	20.0	0.3	1.9	3.0	3.9
19	Alsike clover	7.7	5.0	65.0	0.5	6.0	6.0	3.8
20	Volunteer alfalfa	7.7	3.8	50.0	0.4	5.2	5.2	3.2
21	White cockle	15.4	1.5	10.0	0.1	0.8	1.2	3.0
22	Yellow toadflax	7.7	2.3	30.0	0.4	4.6	4.6	2.6
23	Lamb's-quarters	7.7	2.3	30.0	0.2	2.0	2.0	2.3
24	Bluebur	7.7	0.4	5.0	< 0.1	0.4	0.4	1.3
25	Quack grass	7.7	0.4	5.0	< 0.1	0.2	0.2	1.3
26	Wild mustard	7.7	0.4	5.0	< 0.1	0.2	0.2	1.3

Table 142. Kneehill in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	72.2	26.8	37.1	7.9	10.9	165.8	42.7
2	Wild buckwheat	77.8	39.4	50.7	4.6	5.9	29.0	39.2
3	Stinkweed	69.4	26.3	37.8	4.9	7.0	89.0	33.4
4	Annual sow-thistle	52.8	21.3	40.3	4.4	8.3	73.8	28.0
5	Shepherd's-purse	38.9	14.9	38.2	2.1	5.3	31.2	16.9
6	Dandelion	58.3	11.3	19.3	0.6	1.0	5.0	13.5
7	Canada thistle	58.3	10.3	17.6	0.7	1.2	6.6	13.4
8	Thyme-leaved spurge	25.0	9.0	36.1	1.8	7.0	31.8	11.9
9	Volunteer canola	30.6	10.1	33.2	1.0	3.2	17.2	10.8
10	Lamb's-quarters	38.9	9.2	23.6	0.7	1.7	11.4	10.5
11	Green foxtail	36.1	6.5	18.1	0.7	1.9	13.4	9.1
12	Cleavers	25.0	6.8	27.2	0.6	2.3	7.4	7.5
13	Chickweed	19.4	5.6	28.6	0.9	4.8	27.4	7.4
14	Prostrate knotweed	13.9	5.6	40.0	0.4	3.0	4.8	5.2
15	Hemp-nettle	22.2	3.6	16.3	0.3	1.4	6.6	5.1
16	Round-leaved mallow	19.4	4.0	20.7	0.3	1.4	4.2	4.8
17	Pineappleweed	8.3	3.3	40.0	0.6	7.5	20.4	4.2
18	Narrow-leaved hawk's-beard	22.2	2.5	11.3	0.1	0.6	1.0	4.1
19	Flixweed	13.9	3.1	22.0	0.2	1.5	3.2	3.5
20	Quack grass	13.9	2.1	15.0	0.3	2.2	7.4	3.4
21	Foxtail barley	11.1	3.1	27.5	0.2	1.9	5.0	3.2
22	Redroot pigweed	11.1	2.4	21.3	0.1	1.1	2.8	2.7
23	White cockle	5.6	2.2	40.0	0.2	4.0	6.2	2.2
24	Kochia	11.1	1.5	13.8	0.1	0.7	1.4	2.2
25	Pale smartweed	8.3	1.3	15.0	0.1	1.5	3.2	1.9
26	Rose species	8.3	0.7	8.3	0.1	1.3	2.8	1.6
27	Stork's-bill	8.3	1.0	11.7	0.1	0.6	1.0	1.6
28	Volunteer barley	2.8	1.9	70.0	0.1	5.0	5.0	1.5
29	Wild mustard	8.3	1.0	11.7	< 0.1	0.5	0.8	1.5
30	Bluebur	5.6	1.1	20.0	0.1	1.2	2.2	1.3
31	Perennial sow-thistle	5.6	0.7	12.5	0.1	1.2	2.2	1.2
32	Common groundsel	5.6	0.8	15.0	< 0.1	0.8	1.2	1.1
33	Wild tomato	5.6	0.3	5.0	< 0.1	0.2	0.2	0.8
34	Volunteer wheat	2.8	0.4	15.0	< 0.1	1.4	1.4	0.6
35	Yellow toadflax	2.8	0.1	5.0	< 0.1	1.6	1.6	0.5
36	Prostrate pigweed	2.8	0.1	5.0	< 0.1	0.2	0.2	0.4
37	Broad-leaved plantain	2.8	0.1	5.0	< 0.1	0.2	0.2	0.4
38	Wood whitlow-grass	2.8	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Biennial wormwood	2.8	0.1	5.0	< 0.1	0.2	0.2	0.4

Table 143. Lacombe & Clearwater in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	91.7	62.1	67.7	47.3	51.6	203.2	69.9
2	Annual sow-thistle	75.0	39.8	53.1	12.7	16.9	116.2	30.8
3	Wild oats	70.8	35.2	49.7	8.9	12.6	77.4	25.7
4	Wild buckwheat	62.5	28.1	45.0	8.9	14.2	102.4	22.7
5	Hemp-nettle	62.5	24.4	39.0	5.3	8.5	75.4	18.5
6	Cleavers	54.2	22.1	40.8	4.7	8.7	27.6	16.4
7	Canada thistle	50.0	12.3	24.6	1.3	2.6	11.4	10.1
8	Quack grass	16.7	9.0	53.8	5.7	34.2	114.0	9.4
9	Volunteer canola	33.3	13.5	40.6	1.7	5.1	20.6	9.0
10	Dandelion	41.7	9.0	21.5	0.7	1.8	11.0	7.7
11	Shepherd's-purse	45.8	6.0	13.2	0.6	1.3	8.6	7.2
12	Pale smartweed	41.7	7.5	18.0	0.6	1.4	5.6	7.1
13	Stinkweed	25.0	9.6	38.3	1.4	5.7	26.8	6.7
14	White clover	16.7	9.6	57.5	2.0	12.2	24.0	6.4
15	Volunteer wheat	20.8	6.5	31.0	1.4	6.8	25.4	5.4
16	Lamb's-quarters	20.8	6.5	31.0	0.7	3.5	13.4	4.8
17	Field horsetail	29.2	4.2	14.3	0.4	1.5	5.0	4.7
18	Volunteer alfalfa	8.3	5.6	67.5	1.6	19.1	35.8	3.9
19	Volunteer barley	16.7	5.2	31.3	0.5	3.0	6.8	3.7
20	Redroot pigweed	4.2	4.2	100.0	2.3	54.2	54.2	3.7
21	Aspen poplar	20.8	2.7	13.0	0.4	1.8	7.6	3.4
22	Rough cinquefoil	4.2	4.2	100.0	1.6	38.6	38.6	3.1
23	Wild mustard	16.7	3.1	18.8	0.2	1.4	4.6	2.9
24	Vetch species	12.5	3.1	25.0	0.3	2.7	5.4	2.5
25	Night-flowering catchfly	8.3	3.8	45.0	0.6	6.8	10.0	2.5
26	Broad-leaved plantain	16.7	1.9	11.3	0.1	0.7	1.0	2.4
27	Corn spurry	12.5	2.7	21.7	0.1	1.1	2.4	2.2
28	Narrow-leaved hawk's-beard	16.7	1.0	6.3	0.1	0.3	0.6	2.1
29	Green foxtail	8.3	0.4	5.0	0.1	0.7	1.2	1.1
30	Stork's-bill	4.2	0.6	15.0	0.1	1.2	1.2	0.7
31	Bluebur	4.2	0.4	10.0	< 0.1	0.6	0.6	0.6
32	Flixweed	4.2	0.4	10.0	< 0.1	0.6	0.6	0.6
33	White cockle	4.2	0.4	10.0	< 0.1	0.4	0.4	0.6
34	Common groundsel	4.2	0.2	5.0	< 0.1	0.2	0.2	0.5
35	Two-grooved milk-vetch	4.2	0.2	5.0	< 0.1	0.2	0.2	0.5
36	Pineappleweed	4.2	0.2	5.0	< 0.1	0.2	0.2	0.5

Table 144. Mountain View in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild buckwheat	70.8	36.7	51.8	14.1	19.8	175.0	72.9
2	Annual sow-thistle	37.5	19.0	50.6	21.1	56.2	275.2	65.4
3	Quack grass	33.3	10.0	30.0	3.3	9.8	55.0	22.4
4	Canada thistle	41.7	9.2	22.0	0.8	1.9	5.8	19.0
5	Hemp-nettle	37.5	8.5	22.8	0.7	1.8	6.6	17.2
6	Common groundsel	25.0	6.5	25.8	2.8	11.2	62.0	16.7
7	Wild oats	25.0	8.5	34.2	2.0	7.9	25.4	16.6
8	Cleavers	12.5	6.9	55.0	1.2	9.3	11.8	10.5
9	Stinkweed	16.7	5.4	32.5	0.6	3.9	7.4	9.5
10	Shepherd's-purse	8.3	5.6	67.5	1.4	16.7	31.2	9.0
11	Lamb's-quarters	12.5	3.8	30.0	0.9	7.3	20.4	7.8
12	Dandelion	12.5	5.0	40.0	0.3	2.7	5.4	7.5
13	Perennial sow-thistle	12.5	4.0	31.7	0.2	1.9	4.0	6.6
14	Volunteer canola	12.5	2.7	21.7	0.2	1.9	3.2	5.7
15	Redroot pigweed	12.5	2.1	16.7	0.1	1.0	2.4	5.0
16	Corn spurry	4.2	2.3	55.0	0.4	8.8	8.8	3.5
17	Henbit	4.2	1.0	25.0	0.1	3.4	3.4	2.1
18	Chickweed	4.2	0.2	5.0	< 0.1	0.6	0.6	1.3
19	Round-leaved mallow	4.2	0.2	5.0	< 0.1	0.2	0.2	1.2

Table 145. Paintearth in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	66.7	19.4	29.1	2.2	3.2	28.6	68.2
2	Wild oats	45.8	11.7	25.5	1.5	3.3	13.2	45.1
3	Canada thistle	45.8	15.0	32.7	1.0	2.3	5.6	43.0
4	Lamb's-quarters	37.5	5.6	15.0	0.3	0.8	2.4	19.8
5	Stinkweed	29.2	4.2	14.3	0.2	0.8	2.0	15.2
6	Stork's-bill	4.2	3.3	80.0	0.6	14.6	14.6	13.1
7	Pale smartweed	20.8	3.3	16.0	0.3	1.2	3.2	12.6
8	Volunteer wheat	20.8	3.3	16.0	0.2	0.9	2.6	11.7
9	Shepherd's-purse	12.5	3.1	25.0	0.4	2.9	5.6	11.6
10	Volunteer barley	12.5	3.3	26.7	0.2	1.5	2.2	9.5
11	Rose species	20.8	1.9	9.0	0.1	0.6	1.4	8.9
12	Volunteer canola	16.7	1.3	7.5	0.1	0.4	0.8	6.5
13	Scouring-rush	4.2	2.3	55.0	0.2	4.8	4.8	6.4
14	Foxtail barley	16.7	1.3	7.5	0.1	0.3	0.4	6.3
15	Hemp-nettle	8.3	1.3	15.0	0.1	1.3	1.8	5.0
16	Dandelion	8.3	0.8	10.0	0.1	0.9	1.4	4.1
17	Green foxtail	8.3	1.0	12.5	0.1	0.6	0.8	4.0
18	Narrow-leaved hawk's-beard	8.3	0.4	5.0	< 0.1	0.2	0.2	2.8
19	Russian thistle	4.2	0.6	15.0	< 0.1	0.6	0.6	2.1
20	Cleavers	4.2	0.2	5.0	< 0.1	0.2	0.2	1.4
21	Flixweed	4.2	0.2	5.0	< 0.1	0.2	0.2	1.4
22	Round-leaved mallow	4.2	0.2	5.0	< 0.1	0.2	0.2	1.4

Table 146. Ponoka in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High	Occurrence		
1	Chickweed	90.0	60.5	67.2	35.4	39.3	124.8	116.8
2	Wild buckwheat	70.0	27.0	38.6	2.0	2.9	7.8	32.3
3	Lamb's-quarters	40.0	17.5	43.8	3.5	8.8	26.8	24.0
4	Quack grass	50.0	11.5	23.0	1.5	2.9	11.0	18.9
5	Corn spurry	30.0	15.0	50.0	2.5	8.5	19.6	18.8
6	Stork's-bill	30.0	14.0	46.7	2.6	8.5	23.8	18.3
7	Canada thistle	20.0	11.5	57.5	2.5	12.7	24.2	14.9
8	Cleavers	20.0	13.0	65.0	1.9	9.5	11.8	14.6
9	Dandelion	40.0	7.0	17.5	0.3	0.9	1.4	12.4
10	Narrow-leaved hawk's-beard	20.0	3.5	17.5	0.3	1.5	2.8	6.4
11	Common groundsel	20.0	1.5	7.5	0.1	0.5	0.6	5.0
12	Hemp-nettle	10.0	1.0	10.0	0.6	5.6	5.6	3.6
13	Prickly lettuce	10.0	0.5	5.0	< 0.1	0.2	0.2	2.3
14	Wild oats	10.0	0.5	5.0	< 0.1	0.2	0.2	2.3
15	Redroot pigweed	10.0	0.5	5.0	< 0.1	0.2	0.2	2.3
16	Perennial sow-thistle	10.0	0.5	5.0	< 0.1	0.2	0.2	2.3
17	Stinkweed	10.0	0.5	5.0	< 0.1	0.2	0.2	2.3
18	White clover	10.0	0.5	5.0	< 0.1	0.2	0.2	2.3

Table 147. Red Deer in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Chickweed	62.1	35.5	57.2	18.2	29.2	116.2	75.3
2	Wild oats	58.6	23.8	40.6	4.4	7.6	48.8	34.0
3	Annual sow-thistle	65.5	24.7	37.6	3.8	5.7	31.0	34.0
4	Canada thistle	62.1	18.6	30.0	1.6	2.6	9.8	24.8
5	Wild buckwheat	48.3	17.8	36.8	1.5	3.0	7.4	21.5
6	Stinkweed	44.8	8.1	18.1	1.0	2.1	14.4	14.7
7	Hemp-nettle	24.1	11.7	48.6	1.7	6.9	17.0	14.6
8	Perennial sow-thistle	27.6	12.6	45.6	1.2	4.3	8.0	14.5
9	Quack grass	34.5	7.6	22.0	1.5	4.5	21.8	14.0
10	Dandelion	13.8	6.9	50.0	1.9	13.7	43.8	10.8
11	Cleavers	24.1	7.8	32.1	0.6	2.3	6.6	9.8
12	Volunteer canola	13.8	5.0	36.3	0.6	4.4	9.4	6.6
13	Green foxtail	10.3	3.1	30.0	0.7	6.9	20.0	5.3
14	Pale smartweed	13.8	3.4	25.0	0.3	2.4	7.6	5.1
15	Shepherd's-purse	17.2	2.4	14.0	0.1	0.8	2.4	4.7
16	Lamb's-quarters	6.9	2.2	32.5	0.2	3.4	5.4	3.0
17	Yellow toadflax	10.3	1.2	11.7	0.1	1.3	3.0	2.8
18	Common groundsel	10.3	1.0	10.0	0.1	0.9	1.4	2.6
19	Stork's-bill	3.4	1.6	45.0	0.1	3.6	3.6	1.7

Table 148. Rocky View in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Chickweed	32.0	18.8	58.8	13.0	40.8	184.0	41.2
2	Wild oats	44.0	21.6	49.1	6.7	15.3	50.8	31.5
3	Cleavers	28.0	14.4	51.4	8.1	28.8	95.0	28.1
4	Wild buckwheat	76.0	22.4	29.5	2.2	3.0	13.2	27.6
5	Volunteer barley	32.0	20.2	63.1	5.1	16.0	42.6	25.6
6	Stinkweed	56.0	18.8	33.6	2.4	4.4	15.4	23.1
7	Canada thistle	48.0	11.8	24.6	2.0	4.3	15.6	17.5
8	Hemp-nettle	20.0	13.0	65.0	2.1	10.7	26.8	14.0
9	Lamb's-quarters	48.0	8.8	18.3	0.8	1.7	7.6	13.5
10	Annual sow-thistle	36.0	7.0	19.4	1.8	5.1	35.2	12.8
11	Shepherd's-purse	20.0	8.4	42.0	1.3	6.6	16.2	10.0
12	Dandelion	32.0	7.0	21.9	0.5	1.5	3.4	9.5
13	Volunteer canola	24.0	5.4	22.5	0.3	1.3	4.2	7.1
14	Flixweed	20.0	3.4	17.0	0.4	1.9	8.0	5.6
15	Prostrate knotweed	12.0	3.0	25.0	0.2	1.3	1.6	3.7
16	Perennial sow-thistle	12.0	2.0	16.7	0.2	1.8	4.6	3.3
17	Volunteer wheat	8.0	2.2	27.5	0.2	2.6	3.8	2.8
18	Kochia	12.0	1.4	11.7	0.1	0.8	2.0	2.8
19	Foxtail barley	12.0	1.4	11.7	0.1	0.7	1.6	2.7
20	Bluebur	12.0	1.2	10.0	0.1	0.5	0.6	2.6
21	Narrow-leaved hawk's-beard	12.0	0.8	6.7	< 0.1	0.3	0.4	2.3
22	Pineappleweed	4.0	1.8	45.0	0.4	8.8	8.8	2.2
23	Redroot pigweed	12.0	0.6	5.0	< 0.1	0.2	0.2	2.2
24	Pale smartweed	8.0	0.4	5.0	0.1	1.3	2.4	1.6
25	Yellow sweet-clover	8.0	0.4	5.0	< 0.1	0.3	0.4	1.5
26	Russian pigweed	4.0	1.2	30.0	0.1	2.4	2.4	1.4
27	Toad rush	4.0	0.4	10.0	0.2	6.0	6.0	1.3
28	Cow cockle	4.0	0.4	10.0	< 0.1	0.6	0.6	0.9
29	Common groundsel	4.0	0.2	5.0	< 0.1	0.2	0.2	0.7
30	Pasture sage	4.0	0.2	5.0	< 0.1	0.2	0.2	0.7

Table 149. Special Area 2 in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild buckwheat	50.0	28.6	57.2	9.0	18.0	100.0	80.6
2	Lamb's-quarters	27.8	17.2	62.0	8.6	31.1	118.2	58.7
3	Wild oats	33.3	11.9	35.8	4.2	12.6	49.0	40.1
4	Kochia	22.2	12.2	55.0	4.0	18.1	48.4	35.4
5	Green foxtail	33.3	5.0	15.0	0.7	2.0	7.6	20.6
6	Stinkweed	22.2	3.6	16.3	0.4	2.0	4.2	14.0
7	Redroot pigweed	16.7	5.0	30.0	0.5	2.9	4.6	13.5
8	Russian thistle	16.7	3.3	20.0	0.3	2.0	4.0	11.2
9	Dandelion	5.6	3.3	60.0	0.4	7.0	7.0	7.0
10	Canada thistle	11.1	0.8	7.5	0.1	0.5	0.8	5.4
11	Pale smartweed	5.6	1.4	25.0	0.3	6.2	6.2	4.8
12	Quack grass	5.6	1.1	20.0	0.4	7.0	7.0	4.7
13	Rose species	5.6	1.1	20.0	0.2	3.6	3.6	4.0

Table 150. Special Area 3 & Acadia in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Lamb's-quarters	27.8	10.3	37.0	1.3	4.6	12.8	62.4
2	Wild buckwheat	33.3	6.4	19.2	0.3	1.0	3.0	37.4
3	Flixweed	5.6	4.2	75.0	1.1	19.4	19.4	34.0
4	Wild oats	33.3	2.8	8.3	0.2	0.5	1.0	25.6
5	Redroot pigweed	5.6	3.9	70.0	0.7	12.4	12.4	25.5
6	Stinkweed	11.1	5.0	45.0	0.4	3.6	6.6	24.8
7	Kochia	11.1	2.5	22.5	0.4	3.4	6.6	18.7
8	Green foxtail	16.7	1.1	6.7	0.1	0.6	1.4	12.6
9	Russian thistle	5.6	2.8	50.0	0.2	3.2	3.2	12.6
10	Cow cockle	11.1	1.4	12.5	0.1	0.7	1.2	10.1
11	Volunteer canola	5.6	1.9	35.0	0.1	2.4	2.4	9.8
12	Canada thistle	11.1	0.6	5.0	< 0.1	0.3	0.4	7.3
13	Perennial sow-thistle	11.1	0.6	5.0	< 0.1	0.2	0.2	7.1
14	Narrow-leaved hawk's-beard	5.6	0.6	10.0	< 0.1	0.6	0.6	4.6
15	Dandelion	5.6	0.3	5.0	< 0.1	0.4	0.4	3.8
16	Annual sow-thistle	5.6	0.3	5.0	< 0.1	0.2	0.2	3.6

Table 151. Special Area 4 in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Green foxtail	60.9	34.3	54.9	53.6	85.8	469.9	93.0
2	Lamb's-quarters	54.7	32.7	52.4	11.0	17.6	79.2	40.4
3	Stinkweed	57.8	28.0	44.9	5.6	8.9	36.0	31.9
4	Wild buckwheat	70.3	22.4	27.6	2.9	3.6	9.8	27.7
5	Russian thistle	48.4	17.3	30.7	4.6	8.2	40.0	23.2
6	Wild oats	51.6	13.7	24.3	2.4	4.3	13.4	19.1
7	Canada thistle	34.4	8.5	22.7	1.5	4.0	12.4	12.3
8	Perennial sow-thistle	42.2	3.5	8.0	0.2	0.6	1.0	9.3
9	Kochia	31.3	4.0	10.6	0.3	0.9	3.7	7.8
10	Redroot pigweed	31.3	3.4	9.0	0.5	1.4	4.9	7.7
11	Narrow-leaved hawk's-beard	23.4	1.7	6.9	0.1	0.4	0.7	5.0
12	Dandelion	12.5	2.3	18.8	0.2	1.3	2.4	3.6
13	Flixweed	12.5	2.0	16.3	0.2	1.4	2.3	3.4
14	Common pepper-grass	10.9	0.7	5.6	0.1	0.4	0.7	2.3
15	Spear-leaved goosefoot	6.3	0.9	15.0	0.4	6.6	6.6	2.1
16	Rose species	9.4	0.5	2.5	< 0.1	0.2	0.6	1.9
17	Pale smartweed	7.8	0.7	5.6	0.1	0.6	1.1	1.8
18	Quack grass	6.3	0.3	5.0	0.3	4.3	4.3	1.5
19	Volunteer canola	6.3	0.7	11.3	< 0.1	0.7	0.7	1.5
20	Blue lettuce	6.3	0.5	8.8	< 0.1	0.6	0.6	1.4
21	Prostrate knotweed	6.3	0.3	2.5	< 0.1	0.1	0.2	1.2
22	Shepherd's-purse	6.3	0.3	5.0	< 0.1	0.2	0.2	1.2
23	Bluebur	4.7	0.2	3.8	< 0.1	0.2	0.2	0.9

Table 152. Starland in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	69.2	35.0	50.6	25.6	36.9	201.2	84.6
2	Wild buckwheat	69.2	36.7	53.1	8.7	12.5	97.8	51.7
3	Stinkweed	30.8	11.3	36.9	1.3	4.4	10.8	15.0
4	Canada thistle	38.5	9.0	23.5	1.3	3.3	15.6	14.9
5	Dandelion	42.3	7.5	17.7	1.0	2.3	13.4	14.1
6	Prostrate knotweed	15.4	8.3	53.8	2.8	18.2	55.8	13.3
7	Volunteer wheat	26.9	6.7	25.0	0.5	1.9	4.0	9.9
8	Green foxtail	30.8	4.8	15.6	0.3	1.1	2.2	9.1
9	Shepherd's-purse	19.2	5.8	30.0	0.6	3.0	8.6	8.1
10	Narrow-leaved hawk's-beard	19.2	4.2	22.0	0.5	2.5	6.8	7.0
11	Night-flowering catchfly	7.7	3.8	50.0	1.3	17.3	31.6	6.3
12	Flixweed	15.4	4.6	30.0	0.4	2.5	5.4	6.3
13	Volunteer barley	7.7	3.8	50.0	1.1	14.4	28.6	5.9
14	Volunteer canola	15.4	3.5	22.5	0.4	2.6	6.4	5.6
15	Redroot pigweed	15.4	3.8	25.0	0.2	1.6	3.2	5.6
16	Volunteer flax	3.8	2.9	75.0	1.0	25.2	25.2	4.3
17	Foxtail barley	11.5	2.7	23.3	0.3	2.7	6.8	4.3
18	Wild mustard	11.5	2.5	21.7	0.2	1.4	3.6	3.9
19	Narrow-leaved vetch	15.4	1.3	8.8	0.1	0.5	0.6	3.7
20	Barnyard grass	3.8	1.5	40.0	1.1	27.4	27.4	3.7
21	Lamb's-quarters	15.4	1.2	7.5	0.1	0.4	0.6	3.6
22	Cleavers	3.8	1.5	40.0	0.5	13.2	13.2	2.6
23	Rough cinquefoil	3.8	1.5	40.0	0.2	6.0	6.0	2.1
24	Rose species	3.8	1.0	25.0	0.2	4.6	4.6	1.6
25	American dragonhead	3.8	1.0	25.0	< 0.1	1.0	1.0	1.3
26	Common pepper-grass	3.8	0.6	15.0	< 0.1	1.0	1.0	1.1
27	Russian thistle	3.8	0.6	15.0	< 0.1	0.8	0.8	1.1
28	Bluebur	3.8	0.6	15.0	< 0.1	0.6	0.6	1.1
29	Pale smartweed	3.8	0.4	10.0	0.1	1.4	1.4	1.0
30	Curled dock	3.8	0.4	10.0	< 0.1	0.6	0.6	1.0
31	Spiny annual sow-thistle	3.8	0.4	10.0	< 0.1	0.4	0.4	1.0
32	Perennial sow-thistle	3.8	0.2	5.0	< 0.1	1.0	1.0	0.9
33	Field mint	3.8	0.2	5.0	< 0.1	0.8	0.8	0.9
34	Scentless chamomile	3.8	0.2	5.0	< 0.1	0.2	0.2	0.8
35	Round-leaved mallow	3.8	0.2	5.0	< 0.1	0.2	0.2	0.8
36	Wild tomato	3.8	0.2	5.0	< 0.1	0.2	0.2	0.8
37	Yellow sweet-clover	3.8	0.2	5.0	< 0.1	0.2	0.2	0.8

Table 153. Stettler in the Central Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High	Low		
1	Canada thistle	65.4	22.9	35.0	3.0	4.6	29.4	70.3
2	Wild buckwheat	53.8	19.4	36.1	2.7	5.0	17.6	60.1
3	Wild oats	34.6	15.8	45.6	2.8	8.2	31.0	50.8
4	Annual sow-thistle	30.8	6.3	20.6	0.5	1.7	4.0	21.4
5	Stork's-bill	15.4	9.4	61.3	0.6	4.0	8.8	20.2
6	Quack grass	19.2	3.7	19.0	1.2	6.2	20.0	19.7
7	Common groundsel	15.4	4.2	27.5	0.5	3.1	8.0	13.4
8	Green foxtail	7.7	1.2	15.0	0.5	6.5	12.4	7.7
9	Dandelion	15.4	1.3	8.8	0.1	0.7	2.0	7.5
10	Wild chamomile	7.7	2.1	27.5	0.2	2.6	4.4	6.4
11	Chickweed	3.8	1.3	35.0	0.2	6.0	6.0	4.6
12	Lamb's-quarters	3.8	1.0	25.0	0.2	6.2	6.2	4.2
13	Volunteer canola	3.8	1.3	35.0	0.1	3.0	3.0	3.7
14	Stinkweed	7.7	0.6	7.5	0.1	0.7	1.2	3.6
15	Redroot pigweed	3.8	1.2	30.0	< 0.1	1.2	1.2	2.9
16	Yellow toadflax	3.8	0.4	10.0	< 0.1	0.6	0.6	1.9
17	Pale smartweed	3.8	0.2	5.0	< 0.1	0.2	0.2	1.6

Table 154. Cardston & Pincher Creek in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Canada thistle	48.6	12.1	25.0	1.6	3.2	12.6	51.6
2	Wild oats	37.1	8.0	21.5	0.6	1.7	8.2	32.4
3	Cleavers	2.9	2.9	100.0	2.3	81.4	81.4	26.2
4	Wild buckwheat	28.6	5.1	18.0	0.3	1.1	5.0	22.0
5	Flixweed	11.4	3.9	33.8	1.2	10.8	37.6	21.4
6	Cow cockle	11.4	3.9	33.8	0.5	4.1	8.0	14.6
7	Yellow sweet-clover	5.7	3.4	60.0	0.8	13.3	16.8	14.4
8	Quack grass	11.4	2.9	25.0	0.6	4.9	11.2	13.9
9	Stinkweed	20.0	2.4	12.1	0.2	1.0	2.2	13.3
10	Volunteer alfalfa	2.9	2.6	90.0	0.9	31.4	31.4	13.1
11	Round-leaved mallow	8.6	3.3	38.3	0.3	3.2	5.2	10.9
12	Dandelion	17.1	1.7	10.0	0.1	0.5	1.0	10.1
13	Downy brome	2.9	2.0	70.0	0.6	21.0	21.0	9.6
14	Persian darnel	2.9	1.7	60.0	0.6	20.4	20.4	9.0
15	Lamb's-quarters	5.7	2.1	37.5	0.3	5.6	10.0	8.4
16	Rose species	8.6	1.0	11.7	0.1	1.2	2.4	5.8
17	Chickweed	2.9	0.6	20.0	0.2	8.2	8.2	4.1
18	Pale smartweed	2.9	0.7	25.0	0.1	2.2	2.2	2.8
19	Foxtail barley	5.7	0.3	5.0	< 0.1	0.2	0.2	2.7
20	Hemp-nettle	2.9	0.4	15.0	< 0.1	0.8	0.8	2.0
21	Redroot pigweed	2.9	0.4	15.0	< 0.1	0.6	0.6	1.9
22	Russian thistle	2.9	0.3	10.0	< 0.1	0.4	0.4	1.6
23	Shepherd's-purse	2.9	0.1	5.0	< 0.1	1.2	1.2	1.6
24	White cockle	2.9	0.1	5.0	< 0.1	0.4	0.4	1.4
25	Kochia	2.9	0.1	5.0	< 0.1	0.4	0.4	1.4
26	Striate knotweed	2.9	0.1	5.0	< 0.1	0.2	0.2	1.4
27	Green tansy mustard	2.9	0.1	5.0	< 0.1	0.2	0.2	1.4
28	Wood whitlow-grass	2.9	0.1	5.0	< 0.1	0.2	0.2	1.4

Table 155. Cypress & Newell in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Wild oats	46.7	15.5	33.2	5.6	12.0	102.4	66.0
2	Russian thistle	26.7	9.8	36.9	5.9	22.2	120.4	52.4
3	Redroot pigweed	36.7	6.8	18.6	0.5	1.3	4.4	24.7
4	Kochia	26.7	8.0	30.0	0.8	2.9	13.2	24.4
5	Green foxtail	23.3	5.7	24.3	1.4	6.1	18.8	23.2
6	Wild buckwheat	33.3	5.3	16.0	0.4	1.2	4.4	21.0
7	Stinkweed	16.7	2.8	17.0	0.8	4.7	21.0	13.6
8	Skeletonweed	3.3	1.3	40.0	1.3	39.2	39.2	9.5
9	Volunteer chickpea	3.3	1.3	40.0	1.3	39.2	39.2	9.5
10	Volunteer wheat	10.0	2.5	25.0	0.3	3.5	7.6	8.7
11	Yellow foxtail	3.3	2.2	65.0	0.9	25.6	25.6	8.5
12	Foxtail barley	6.7	2.0	30.0	0.5	8.1	14.4	7.8
13	Canada thistle	13.3	0.8	6.3	0.1	0.7	1.4	6.2
14	Flixweed	13.3	0.7	5.0	< 0.1	0.3	0.4	5.7
15	Volunteer canola	3.3	1.5	45.0	0.3	8.8	8.8	4.7
16	Pale smartweed	6.7	1.2	17.5	0.1	1.1	2.0	4.3
17	Perennial sow-thistle	3.3	0.8	25.0	< 0.1	1.0	1.0	2.5
18	Wild mustard	3.3	0.3	10.0	< 0.1	0.4	0.4	1.7
19	Dandelion	3.3	0.2	5.0	< 0.1	0.2	0.2	1.4
20	Lamb's-quarters	3.3	0.2	5.0	< 0.1	0.2	0.2	1.4
21	Shepherd's-purse	3.3	0.2	5.0	< 0.1	0.2	0.2	1.4
22	Wild tomato	3.3	0.2	5.0	< 0.1	0.2	0.2	1.4

Table 156. Foothills in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild oats	69.2	20.4	29.4	3.8	5.5	16.4	118.1
2	Canada thistle	69.2	17.7	25.6	2.0	2.8	5.8	88.1
3	Quack grass	15.4	2.7	17.5	0.9	6.1	11.2	23.9
4	Dandelion	30.8	2.7	8.8	0.1	0.4	0.6	18.8
5	Kochia	23.1	1.9	8.3	0.1	0.4	0.8	13.9
6	Stinkweed	15.4	1.2	7.5	0.1	0.6	1.0	9.4
7	Leafy spurge	7.7	0.8	10.0	0.2	2.0	2.0	6.5
8	Wild buckwheat	7.7	1.2	15.0	0.1	1.2	1.2	6.5
9	Shepherd's-purse	7.7	1.2	15.0	0.1	1.0	1.0	6.3
10	Meadow brome	7.7	0.4	5.0	0.1	1.0	1.0	4.7
11	Lamb's-quarters	7.7	0.4	5.0	< 0.1	0.2	0.2	3.9

Table 157. Forty Mile in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High	High		
1	Russian thistle	43.6	15.8	36.2	1.7	4.0	14.8	104.5
2	Wild oats	43.6	12.7	29.1	1.9	4.4	22.4	100.7
3	Wild buckwheat	20.5	5.1	25.0	0.4	2.0	5.8	35.0
4	Kochia	20.5	3.1	15.0	0.4	1.8	9.6	28.9
5	Lamb's-quarters	2.6	1.9	75.0	0.3	11.0	11.0	12.4
6	Canada thistle	5.1	0.6	12.5	< 0.1	0.5	0.8	5.6
7	Flixweed	5.1	0.4	7.5	< 0.1	0.3	0.4	4.7
8	Foxtail barley	2.6	0.4	15.0	< 0.1	0.6	0.6	3.0
9	Green foxtail	2.6	0.3	10.0	< 0.1	0.4	0.4	2.6
10	Stinkweed	2.6	0.3	10.0	< 0.1	0.4	0.4	2.6

Table 158. Lethbridge in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Kochia	40.0	8.4	21.0	0.7	1.8	8.2	77.8
2	Quack grass	8.0	1.8	22.5	0.5	6.8	13.2	32.2
3	Russian thistle	24.0	3.4	14.2	0.2	0.8	2.2	31.8
4	Canada thistle	28.0	2.4	8.6	0.1	0.5	0.8	28.1
5	Round-leaved mallow	8.0	2.2	27.5	0.2	2.3	4.4	19.0
6	Redroot pigweed	20.0	1.6	8.0	0.1	0.4	1.2	18.8
7	Flixweed	12.0	2.0	16.7	0.1	0.8	1.4	16.8
8	Wild buckwheat	12.0	1.6	13.3	0.1	0.7	1.6	15.1
9	Prostrate pigweed	4.0	1.4	35.0	0.1	3.0	3.0	11.7
10	Green foxtail	4.0	1.4	35.0	0.1	2.6	2.6	11.0
11	Dandelion	12.0	0.6	5.0	< 0.1	0.2	0.2	9.0
12	Tartary buckwheat	4.0	0.8	20.0	0.1	2.4	2.4	8.6
13	Wild oats	8.0	0.4	5.0	< 0.1	0.4	0.6	6.7
14	Goat's-beard	8.0	0.4	5.0	< 0.1	0.2	0.2	6.0
15	Foxtail barley	4.0	0.4	10.0	< 0.1	0.6	0.6	4.4
16	Stinkweed	4.0	0.2	5.0	< 0.1	0.2	0.2	3.0

Table 159. Taber in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild oats	52.6	20.0	38.0	4.0	7.6	46.6	119.1
2	Russian thistle	36.8	9.5	25.7	1.5	4.1	9.6	57.1
3	Kochia	47.4	6.3	13.3	0.3	0.7	1.6	40.1
4	Dandelion	5.3	5.0	95.0	1.0	19.0	19.0	26.0
5	Canada thistle	10.5	1.8	17.5	0.5	4.4	7.6	14.9
6	Redroot pigweed	15.8	2.1	13.3	0.1	0.8	1.6	13.5
7	Lamb's-quarters	15.8	0.8	5.0	< 0.1	0.2	0.2	9.6
8	Wild buckwheat	10.5	0.5	5.0	< 0.1	0.2	0.2	6.4
9	Green foxtail	5.3	1.1	20.0	0.1	1.6	1.6	5.8
10	Downy brome	5.3	0.5	10.0	0.1	1.0	1.0	4.3
11	Foxtail barley	5.3	0.3	5.0	< 0.1	0.2	0.2	3.2

Table 160. Vulcan in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All	Occurrence	High		
1	Wild oats	28.8	9.3	32.3	3.6	12.3	112.2	81.2
2	Wild buckwheat	36.5	7.4	20.3	0.5	1.5	7.6	40.3
3	Kochia	23.1	4.7	20.4	0.7	2.9	23.2	29.7
4	Canada thistle	13.5	3.6	26.4	0.6	4.8	16.6	22.7
5	Lamb's-quarters	21.2	3.2	15.0	0.3	1.2	3.8	20.0
6	Redroot pigweed	21.2	3.2	15.0	0.2	1.1	3.2	19.6
7	Volunteer canola	7.7	2.2	28.8	0.5	6.5	24.6	15.1
8	Stinkweed	11.5	1.5	13.3	0.4	3.1	7.8	13.3
9	Dandelion	15.4	1.3	8.8	0.1	0.4	1.0	10.7
10	Green foxtail	3.8	1.3	35.0	0.3	8.3	16.4	9.0
11	Flixweed	5.8	0.9	15.0	0.1	1.2	3.2	5.4
12	Russian thistle	7.7	0.7	8.8	< 0.1	0.4	0.6	5.3
13	Foxtail barley	5.8	0.7	11.7	0.1	1.0	2.0	4.8
14	Quack grass	3.8	0.7	17.5	0.1	1.7	2.8	4.1
15	Tall blue lettuce	1.9	0.6	30.0	0.1	5.4	5.4	3.6
16	Rose species	3.8	0.2	5.0	< 0.1	0.3	0.4	2.3
17	Volunteer barley	3.8	0.2	5.0	< 0.1	0.3	0.4	2.3
18	Round-leaved mallow	3.8	0.2	5.0	< 0.1	0.2	0.2	2.2
19	Perennial sow-thistle	1.9	0.3	15.0	< 0.1	2.0	2.0	2.0
20	Two-grooved milk-vetch	1.9	0.2	10.0	< 0.1	0.6	0.6	1.4
21	Wild mustard	1.9	0.2	10.0	< 0.1	0.6	0.6	1.4
22	Volunteer wheat	1.9	0.1	5.0	< 0.1	0.8	0.8	1.3
23	Downy brome	1.9	0.1	5.0	< 0.1	0.4	0.4	1.2
24	Stork's-bill	1.9	0.1	5.0	< 0.1	0.2	0.2	1.1

Table 161. Warner in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Kochia	19.4	9.0	46.7	2.5	12.7	34.2	84.6
2	Canada thistle	22.6	6.6	29.3	0.7	2.9	11.6	43.7
3	Russian thistle	22.6	6.3	27.9	0.6	2.6	9.2	41.2
4	Wild oats	22.6	4.2	18.6	0.3	1.4	3.2	30.2
5	Redroot pigweed	9.7	3.7	38.3	0.3	3.1	4.6	21.3
6	Stinkweed	12.9	1.9	15.0	0.2	1.3	2.4	15.8
7	Wild buckwheat	9.7	1.3	13.3	0.1	0.6	1.2	10.1
8	Cow cockle	6.5	1.5	22.5	0.1	1.5	1.8	9.5
9	Dandelion	9.7	0.5	5.0	< 0.1	0.3	0.4	7.6
10	Lamb's-quarters	6.5	1.0	15.0	< 0.1	0.7	1.0	7.2
11	Volunteer alfalfa	3.2	1.0	30.0	0.1	2.4	2.4	5.9
12	Foxtail barley	6.5	0.5	7.5	< 0.1	0.3	0.4	5.4
13	Downy brome	3.2	0.8	25.0	< 0.1	1.4	1.4	4.9
14	Quack grass	3.2	0.3	10.0	< 0.1	0.4	0.4	3.0
15	Goat's-beard	3.2	0.2	5.0	< 0.1	0.2	0.2	2.4
16	Gray tansy mustard	3.2	0.2	5.0	< 0.1	0.2	0.2	2.4
17	Volunteer white mustard	3.2	0.2	5.0	< 0.1	0.2	0.2	2.4
18	Volunteer canola	3.2	0.2	5.0	< 0.1	0.2	0.2	2.4

Table 162. Wheatland in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Kochia	42.1	7.9	18.8	0.8	2.0	8.8	65.4
2	Wild oats	28.9	4.7	16.4	0.7	2.4	12.4	46.8
3	Foxtail barley	26.3	3.4	13.0	0.4	1.6	3.6	33.2
4	Canada thistle	34.2	2.8	8.1	0.3	0.8	1.8	31.0
5	Dandelion	23.7	2.5	10.6	0.2	0.7	3.6	22.1
6	Wild buckwheat	15.8	2.0	12.5	0.1	0.8	1.6	16.4
7	Quack grass	10.5	1.6	15.0	0.2	1.5	3.8	13.8
8	Shepherd's-purse	2.6	1.2	45.0	0.3	9.6	9.6	12.0
9	Pale smartweed	7.9	1.3	16.7	0.1	1.7	2.6	11.1
10	Stinkweed	13.2	0.9	7.0	0.1	0.6	1.0	10.6
11	Flixweed	5.3	1.1	20.0	0.1	1.8	2.2	8.2
12	Russian thistle	5.3	0.7	12.5	0.1	2.4	4.4	7.8
13	Redroot pigweed	7.9	0.4	5.0	< 0.1	0.3	0.6	5.2
14	Lamb's-quarters	2.6	0.5	20.0	< 0.1	1.6	1.6	3.9
15	Perennial sow-thistle	2.6	0.4	15.0	< 0.1	1.2	1.2	3.2
16	Meadow brome	2.6	0.3	10.0	< 0.1	1.2	1.2	2.8
17	Narrow-leaved hawk's-beard	2.6	0.1	5.0	< 0.1	0.2	0.2	1.6
18	Rose species	2.6	0.1	5.0	< 0.1	0.2	0.2	1.6
19	Volunteer barley	2.6	0.1	5.0	< 0.1	0.2	0.2	1.6
20	Volunteer canola	2.6	0.1	5.0	< 0.1	0.2	0.2	1.6

Table 163. Willow Creek in the Southern Region

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
1	Wild oats	62.5	31.5	50.3	9.2	14.7	77.0	95.8
2	Kochia	20.8	7.5	36.0	7.1	34.2	145.0	44.8
3	Green foxtail	25.0	6.3	25.0	4.5	18.0	100.4	33.7
4	Canada thistle	50.0	9.4	18.8	0.8	1.6	6.6	30.0
5	Wild buckwheat	37.5	4.2	11.1	0.3	0.8	3.4	17.7
6	Redroot pigweed	16.7	4.4	26.3	0.8	4.6	9.6	13.6
7	Russian thistle	12.5	4.0	31.7	0.6	5.1	13.8	11.3
8	Dandelion	20.8	2.9	14.0	0.1	0.6	1.2	10.4
9	Volunteer canola	8.3	2.9	35.0	0.4	4.5	8.6	7.7
10	Lamb's-quarters	12.5	2.3	18.3	0.3	2.1	3.4	7.7
11	Stinkweed	16.7	1.3	7.5	0.1	0.6	1.0	7.0
12	Rose species	8.3	1.3	15.0	0.1	1.2	2.0	4.5
13	Foxtail barley	8.3	0.4	5.0	< 0.1	0.5	0.8	3.2
14	Round-leaved mallow	8.3	0.4	5.0	< 0.1	0.5	0.6	3.2
15	Perennial sow-thistle	8.3	0.4	5.0	< 0.1	0.4	0.6	3.2
16	Volunteer wheat	4.2	0.4	10.0	< 0.1	0.4	0.4	1.8
17	Flixweed	4.2	0.2	5.0	< 0.1	0.2	0.2	1.5
18	Goat's-beard	4.2	0.2	5.0	< 0.1	0.2	0.2	1.5
19	Shepherd's-purse	4.2	0.2	5.0	< 0.1	0.2	0.2	1.5

Table 164. Provincial summary in 1997

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	30.7	14.1	45.9	10.2	33.1	619.8	32.8
2	Wild oats	56.1	19.6	34.9	5.2	9.2	403.4	29.3
3	Stinkweed	43.9	16.6	37.9	5.2	11.8	269.4	25.9
4	Wild buckwheat	59.2	19.9	33.6	2.9	4.9	115.6	25.3
5	Canada thistle	53.4	12.8	24.1	1.3	2.5	30.8	17.5
6	Shepherd's-purse	27.5	7.9	28.6	1.9	7.0	198.8	12.2
7	Cleavers	18.0	7.4	41.1	2.1	11.4	244.0	10.8
8	Lamb's-quarters	27.6	6.9	25.0	1.3	4.8	141.2	10.5
9	Field horsetail	17.3	5.6	32.4	2.1	12.0	201.0	9.8
10	Hemp-nettle	22.8	7.3	31.9	1.2	5.2	48.0	9.7
11	Narrow-leaved hawk's-beard	25.3	6.5	25.7	1.0	3.9	51.6	9.3
12	Dandelion	31.6	6.1	19.2	0.5	1.7	76.4	9.0
13	Common groundsel	16.1	5.4	33.6	1.8	11.2	138.6	9.0
14	Pale smartweed	23.2	5.8	24.9	1.2	5.0	133.0	8.9
15	Perennial sow-thistle	24.7	6.3	25.5	0.9	3.6	74.0	8.8
16	Quack grass	18.3	4.8	26.1	1.4	7.5	181.0	8.1
17	Pineappleweed	12.6	2.9	22.8	1.3	10.0	258.6	6.0
18	Green foxtail	16.4	4.0	24.7	0.7	4.0	68.2	5.9
19	Redroot pigweed	15.5	3.2	20.4	0.4	2.6	32.4	4.8
20	Volunteer wheat	7.6	2.6	34.6	0.7	9.7	131.6	4.0
21	Volunteer canola	8.3	2.7	32.3	0.6	7.6	95.2	4.0
22	Corn spurry	6.6	1.8	27.3	0.9	14.0	161.8	3.8
23	Low cudweed	1.8	0.6	33.3	1.0	56.4	363.8	2.6
24	Volunteer barley	5.7	1.8	30.8	0.3	4.9	60.4	2.4
25	Alsike clover	6.6	1.6	24.9	0.2	3.2	20.6	2.3
26	Bluebur	5.7	1.5	26.9	0.2	4.3	30.0	2.2
27	Kochia	5.6	1.3	24.2	0.3	4.6	27.8	2.1
28	Annual sow-thistle	6.0	1.4	24.0	0.2	2.9	29.4	2.0
29	Stork's-bill	3.9	1.1	27.6	0.1	3.5	17.8	1.5
30	Field violet	0.1	0.1	100.0	0.6	421.6	421.6	1.4
31	Russian thistle	3.9	0.9	23.7	0.1	3.1	14.4	1.3
32	Broad-leaved plantain	4.2	0.7	16.2	0.1	1.7	14.4	1.1
33	Yellow toadflax	2.0	0.8	40.4	0.2	7.5	41.2	1.1
34	Flixweed	4.2	0.6	13.4	< 0.1	0.9	4.2	1.0
35	Rose species	4.1	0.5	12.1	< 0.1	1.1	5.2	1.0
36	Volunteer alfalfa	3.7	0.6	15.4	0.1	1.5	9.8	1.0
37	Tartary buckwheat	2.6	0.6	21.9	0.1	3.4	26.0	0.9
38	Round-leaved mallow	2.3	0.6	26.9	0.1	3.5	25.6	0.8
39	Wormseed mustard	1.8	0.5	25.8	< 0.1	2.5	8.2	0.6
40	Foxtail barley	2.5	0.2	7.9	< 0.1	0.8	3.6	0.5
41	Volunteer flax	0.7	0.2	29.0	0.1	18.0	83.6	0.5
42	Rough cinquefoil	2.0	0.2	12.1	< 0.1	0.7	2.6	0.5
43	White cockle	0.9	0.4	45.0	0.1	6.5	20.4	0.5
44	Barnyard grass	1.5	0.3	20.0	< 0.1	2.1	7.4	0.4
45	Wild mustard	1.6	0.3	17.3	< 0.1	1.0	2.2	0.4
46	Prostrate knotweed	1.6	0.3	16.8	< 0.1	1.1	6.6	0.4
47	Ball mustard	1.5	0.3	18.0	< 0.1	1.1	3.4	0.4
48	Unknown weed species	1.3	0.2	16.7	< 0.1	1.9	7.8	0.4
49	Unknown grass species	1.3	0.2	16.1	< 0.1	1.5	6.0	0.3
50	Night-flowering catchfly	0.7	0.3	38.0	< 0.1	4.6	10.0	0.3
51	Tall buttercup	1.2	0.2	14.4	< 0.1	1.0	2.2	0.3
52	Persian darnel	0.4	0.1	31.7	< 0.1	7.7	16.8	0.2

(Table continued on next page)

Table 164. Provincial summary in 1997 (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
53	Vetch species	0.9	0.1	9.2	< 0.1	1.0	3.6	0.2
54	Leafy spurge	0.7	0.1	14.0	< 0.1	1.8	5.0	0.2
55	Henbit	0.4	0.2	41.7	< 0.1	2.2	4.6	0.2
56	Cow cockle	0.7	0.1	13.0	< 0.1	0.9	2.8	0.2
57	Perennial rye grass	0.4	0.2	36.7	< 0.1	2.5	3.8	0.2
58	Povertyweed	0.6	0.1	16.3	< 0.1	2.8	6.6	0.2
59	Nodding thistle	0.6	0.1	20.0	< 0.1	1.4	1.6	0.2
60	Common pepper-grass	0.7	0.1	11.0	< 0.1	0.6	1.0	0.2
61	Field bindweed	0.7	0.1	10.0	< 0.1	0.7	2.0	0.2
62	Wild chamomile	0.6	0.1	17.5	< 0.1	1.4	3.4	0.2
63	Fireweed	0.4	0.1	18.3	< 0.1	3.3	8.6	0.1
64	Volunteer oats	0.3	0.1	37.5	< 0.1	4.2	7.6	0.1
65	Purslane speedwell	0.6	0.1	10.0	< 0.1	0.4	1.0	0.1
66	Prostrate pigweed	0.6	< 0.1	7.5	< 0.1	0.4	0.8	0.1
67	Timothy	0.3	0.1	35.0	< 0.1	2.8	5.4	0.1
68	Cream-colored vetchling	0.3	0.1	30.0	< 0.1	3.6	6.8	0.1
69	Scentless chamomile	0.4	0.1	15.0	< 0.1	0.9	1.8	0.1
70	Russian knapweed	0.3	0.1	30.0	< 0.1	2.2	3.2	0.1
71	Canada fleabane	0.3	0.1	27.5	< 0.1	1.9	2.2	0.1
72	Tumble mustard	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
73	Black medick	0.3	0.1	17.5	< 0.1	1.3	2.2	0.1
74	Wild rye species	0.1	0.1	45.0	< 0.1	7.0	7.0	0.1
75	Common yarrow	0.3	< 0.1	7.5	< 0.1	3.6	6.8	0.1
76	Volunteer peas	0.3	0.1	17.5	< 0.1	0.9	1.4	0.1
77	Milk-vetch species	0.3	< 0.1	15.0	< 0.1	1.2	2.0	0.1
78	Bicknell's geranium	0.3	< 0.1	10.0	< 0.1	1.2	1.6	0.1
79	Downy brome	0.3	< 0.1	10.0	< 0.1	1.0	1.8	0.1
80	Volunteer white mustard	0.3	< 0.1	10.0	< 0.1	0.7	1.0	0.1
81	Erect knotweed	0.1	0.1	40.0	< 0.1	2.4	2.4	0.1
82	Silverweed	0.1	< 0.1	30.0	< 0.1	3.8	3.8	0.1
83	American dragonhead	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
84	Wild tomato	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
85	Biennial wormwood	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
86	Yellow sweet-clover	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
87	Bladder campion	0.1	< 0.1	20.0	< 0.1	1.2	1.2	< 0.1
88	Curled dock	0.1	< 0.1	15.0	< 0.1	0.8	0.8	< 0.1
89	Yellow alyssum	0.1	< 0.1	10.0	< 0.1	1.8	1.8	< 0.1
90	Western snowberry	0.1	< 0.1	10.0	< 0.1	1.2	1.2	< 0.1
91	Prickly lettuce	0.1	< 0.1	10.0	< 0.1	0.8	0.8	< 0.1
92	Northern bedstraw	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
93	Tumble pigweed	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
94	Giant ragweed	0.1	< 0.1	10.0	< 0.1	0.6	0.6	< 0.1
95	Smooth brome	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
96	Wild radish	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
97	Black nightshade	0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
98	Redtop	0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
99	Sedge species	0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
100	Sunflower	0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
101	Narrow-leaved plantain	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
102	Baby's breath	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
103	Meadow foxtail	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
104	Oak-leaved goosefoot	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

(Table continued on next page)

Table 164. Provincial summary in 1997 (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
105	Blue lettuce	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
106	Hairy nightshade	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
107	Water smartweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
108	Spiny annual sow-thistle	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
109	Tansy	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
110	Wild strawberry	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Table 165. Number of fields surveyed, density, species richness and weed-free quadrats in the surveyed ecoregions in 1997

Ecoregion	Number of Fields surveyed	Density (number/m ²)	Species (number/field)	Weed-free Quadrats (%)
Peace Lowland	173	53.4	7	18.6
Boreal Transition	116	49.4	6	19.4
Aspen Parkland	418	45.3	6	19.5
Fescue Grassland	76	19.5	4	46.6
Moist Mixed Grassland	230	20.0	3	53.7
Mixed Grassland	140	11.5	2	59.5

Table 166. All fields in the Peace Lowland Ecoregion in 1997

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stinkweed	66.7	35.8	53.7	18.1	27.1	269.4	34.5
2	Chickweed	44.4	18.4	41.3	23.5	52.8	619.8	30.8
3	Field horsetail	64.1	25.4	39.7	10.9	17.0	201.0	24.7
3	Field horsetail	64.1	25.4	39.7	10.9	17.0	201.0	24.7
4	Wild buckwheat	65.0	22.7	35.0	4.2	6.5	115.6	18.2
5	Cleavers	46.2	21.3	46.1	7.1	15.4	244.0	18.1
6	Wild oats	48.7	15.6	32.0	8.6	17.7	270.6	17.7
7	Common groundsel	37.6	14.5	38.5	5.9	15.6	138.6	13.9
8	Narrow-leaved hawk's-beard	43.6	13.8	31.7	2.4	5.6	51.6	11.4
9	Pineappleweed	35.0	9.6	27.4	5.2	14.7	258.6	11.3
10	Lamb's-quarters	37.6	12.8	34.1	3.5	9.3	141.2	11.3
11	Dandelion	59.0	11.3	19.2	1.4	2.3	76.4	11.3
12	Pale smartweed	40.2	10.5	26.1	3.6	8.8	133.0	10.8
13	Hemp-nettle	43.6	11.8	27.1	2.2	5.1	29.2	10.5
14	Shepherd's-purse	33.3	9.1	27.2	3.1	9.2	91.4	9.2
15	Canada thistle	43.6	9.1	20.8	1.4	3.1	15.2	8.8
16	Perennial sow-thistle	36.8	6.0	16.4	0.8	2.3	17.0	6.6
17	Bluebur	23.9	6.3	26.3	1.2	4.8	30.0	5.6
18	Quack grass	14.5	3.8	26.5	2.5	17.0	181.0	4.9
19	Volunteer canola	12.8	5.1	39.7	1.8	13.7	77.4	4.6
20	Volunteer wheat	10.3	5.3	52.1	1.8	18.0	70.6	4.5
21	Alsike clover	17.9	5.1	28.6	0.7	3.7	13.8	4.2
22	Field violet	0.9	0.9	100.0	3.6	421.6	421.6	3.4
23	Corn spurry	9.4	1.8	18.6	1.7	18.2	152.8	3.0
24	Broad-leaved plantain	13.7	2.7	19.7	0.3	2.2	14.4	2.6
25	Yellow toadflax	3.4	2.1	61.3	0.6	17.7	41.2	1.6
26	Redroot pigweed	6.8	1.1	16.3	0.2	3.4	16.0	1.3
27	Volunteer flax	1.7	1.0	57.5	0.8	44.5	83.6	1.2
28	Tall buttercup	6.8	1.0	14.4	0.1	1.0	2.2	1.1
29	Volunteer alfalfa	7.7	0.7	8.9	0.1	0.7	2.8	1.1
30	Annual sow-thistle	3.4	1.2	33.8	0.3	8.2	29.4	1.0
31	Rose species	5.1	0.6	10.8	0.1	1.3	3.8	0.8
32	Volunteer barley	3.4	0.8	23.8	0.1	4.2	14.2	0.8
33	Rough cinquefoil	5.1	0.4	8.3	< 0.1	0.5	1.2	0.7
34	Green foxtail	5.1	0.3	5.8	< 0.1	0.3	0.4	0.7
35	Low cudweed	4.3	0.5	11.0	0.1	1.2	2.8	0.7
36	Tartary buckwheat	1.7	1.0	57.5	0.1	8.6	13.0	0.6
37	Wild mustard	3.4	0.6	17.5	< 0.1	1.2	2.2	0.6
38	Stork's-bill	3.4	0.6	17.5	< 0.1	0.9	1.8	0.6
39	Flixweed	4.3	0.3	8.0	< 0.1	0.5	1.4	0.6
40	Unknown grass species	2.6	0.6	25.0	0.1	2.7	6.0	0.5
41	Vetch species	3.4	0.4	11.3	< 0.1	1.4	3.6	0.5
42	Round-leaved mallow	2.6	0.5	18.3	< 0.1	1.3	2.8	0.5
43	Unknown weed species	1.7	0.5	27.5	0.1	4.7	7.8	0.4
44	Milk-vetch species	1.7	0.3	15.0	< 0.1	1.2	2.0	0.3
45	Night-flowering catchfly	1.7	0.3	15.0	< 0.1	0.8	1.0	0.3
46	Bicknell's geranium	1.7	0.2	10.0	< 0.1	1.2	1.6	0.3
47	Prostrate knotweed	1.7	0.2	10.0	< 0.1	0.6	0.6	0.2
48	Erect knotweed	0.9	0.3	40.0	< 0.1	2.4	2.4	0.2
49	Purslane speedwell	1.7	0.1	5.0	< 0.1	0.2	0.2	0.2
50	Yellow sweet-clover	1.7	0.1	5.0	< 0.1	0.2	0.2	0.2

(Table continued on next page)

Table 166. All fields in the Peace Lowland Ecoregion in 1997 (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
51	Wild chamomile	0.9	0.1	15.0	< 0.1	0.8	0.8	0.1
52	Curled dock	0.9	0.1	15.0	< 0.1	0.8	0.8	0.1
53	Northern bedstraw	0.9	0.1	10.0	< 0.1	0.6	0.6	0.1
54	Ball mustard	0.9	< 0.1	5.0	< 0.1	0.8	0.8	0.1
55	Redtop	0.9	< 0.1	5.0	< 0.1	0.6	0.6	0.1
56	Narrow-leaved plantain	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.1
57	Cream-colored vetchling	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.1
58	Common pepper-grass	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.1
59	Tansy	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 167. All fields in the Boreal Transition Ecoregion in 1997

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	59.4	29.2	49.2	24.8	41.7	524.6	59.8
2	Wild oats	57.8	27.1	46.9	5.1	8.8	84.4	26.9
3	Stinkweed	50.0	19.2	38.4	3.2	6.4	38.4	19.5
4	Lamb's-quarters	48.4	15.4	31.8	3.5	7.3	124.0	18.2
5	Wild buckwheat	60.9	16.5	27.1	1.4	2.3	16.6	16.9
6	Canada thistle	67.2	13.3	19.8	1.5	2.3	18.2	16.5
7	Hemp-nettle	37.5	16.3	43.5	2.4	6.5	36.6	15.5
8	Shepherd's-purse	37.5	12.1	32.3	2.7	7.3	95.0	14.2
9	Narrow-leaved hawk's-beard	35.9	9.5	26.3	1.6	4.6	33.8	11.1
10	Quack grass	25.0	7.6	30.3	2.3	9.1	58.4	10.0
11	Perennial sow-thistle	39.1	8.0	20.6	0.7	1.8	8.4	9.4
12	Volunteer canola	14.1	5.4	38.3	1.8	12.8	95.2	6.9
13	Field horsetail	25.0	4.9	19.7	0.7	2.9	23.2	6.4
14	Pineappleweed	7.8	2.3	29.0	2.8	35.2	171.0	6.4
15	Pale smartweed	23.4	5.1	21.7	0.6	2.5	24.0	6.0
16	Dandelion	28.1	4.2	15.0	0.3	1.1	5.6	5.8
17	Cleavers	15.6	5.1	32.5	0.5	3.3	12.4	4.9
18	Alsike clover	12.5	5.1	40.6	0.7	5.5	20.6	4.8
19	Corn spurry	17.2	3.3	19.1	0.4	2.6	19.4	4.3
20	Common groundsel	7.8	3.0	38.0	1.0	12.5	56.0	3.8
21	Redroot pigweed	14.1	3.2	22.8	0.2	1.7	7.2	3.5
22	Low cudweed	3.1	1.6	50.0	1.4	43.5	74.4	3.2
23	Broad-leaved plantain	12.5	1.9	15.0	0.2	1.3	2.4	2.6
24	Rough cinquefoil	10.9	1.8	16.4	0.1	1.0	2.6	2.3
25	Wormseed mustard	7.8	2.0	25.0	0.1	1.5	4.0	2.0
26	Night-flowering catchfly	3.1	2.2	70.0	0.3	9.8	10.0	1.8
27	Volunteer alfalfa	6.3	1.6	25.0	0.1	2.2	6.4	1.7
28	Volunteer barley	6.3	1.2	18.8	0.1	2.4	7.8	1.5
29	Volunteer wheat	6.3	1.2	18.8	0.1	1.9	3.6	1.5
30	Perennial rye grass	3.1	1.6	52.5	0.1	3.7	3.8	1.3
31	Nodding thistle	4.7	0.9	20.0	0.1	1.4	1.6	1.1
32	Timothy	3.1	1.1	35.0	0.1	2.8	5.4	1.0
33	Bluebur	3.1	0.9	27.5	0.1	1.6	2.4	0.8
34	Unknown grass species	3.1	0.7	22.5	< 0.1	1.2	2.0	0.7
35	Cream-colored vetchling	1.6	0.9	55.0	0.1	6.8	6.8	0.7
36	Tartary buckwheat	1.6	0.9	60.0	0.1	4.2	4.2	0.7
37	Fireweed	1.6	0.6	40.0	0.1	8.6	8.6	0.7
38	Flixweed	1.6	0.7	45.0	0.1	4.2	4.2	0.6
39	Volunteer flax	3.1	0.4	12.5	< 0.1	0.5	0.6	0.6
40	Canada fleabane	1.6	0.5	35.0	< 0.1	2.2	2.2	0.5
41	American dragonhead	3.1	0.2	5.0	< 0.1	0.2	0.2	0.5
42	Green foxtail	3.1	0.2	5.0	< 0.1	0.2	0.2	0.5
43	Biennial wormwood	3.1	0.2	5.0	< 0.1	0.2	0.2	0.5
44	Bladder campion	1.6	0.3	20.0	< 0.1	1.2	1.2	0.4
45	Volunteer oats	1.6	0.2	15.0	< 0.1	0.8	0.8	0.3
46	Barnyard grass	1.6	0.1	5.0	< 0.1	3.0	3.0	0.3
47	Prickly lettuce	1.6	0.2	10.0	< 0.1	0.8	0.8	0.3
48	Russian thistle	1.6	0.2	10.0	< 0.1	0.6	0.6	0.3
49	Cow cockle	1.6	0.1	5.0	< 0.1	0.2	0.2	0.2
50	Purslane speedwell	1.6	0.1	5.0	< 0.1	0.2	0.2	0.2
51	Unknown weed species	1.6	0.1	5.0	< 0.1	0.2	0.2	0.2
52	Wild strawberry	1.6	0.1	5.0	< 0.1	0.2	0.2	0.2

Table 168. All fields in the Aspen Parkland Ecoregion in 1997

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	40.0	19.6	49.0	9.3	23.4	506.8	35.2
2	Wild oats	61.5	23.4	38.1	6.1	10.0	403.4	33.1
3	Wild buckwheat	54.2	18.2	33.6	2.8	5.2	79.4	22.4
4	Canada thistle	63.1	17.3	27.4	1.6	2.6	30.8	20.7
5	Stinkweed	44.2	15.2	34.4	3.2	7.2	186.8	20.4
6	Shepherd's-purse	33.8	11.0	32.4	2.7	7.8	198.8	15.7
7	Perennial sow-thistle	30.8	10.6	34.4	1.7	5.5	74.0	13.0
8	Quack grass	26.9	7.3	27.1	1.6	5.9	73.2	10.7
9	Cleavers	20.4	7.6	37.5	1.9	9.5	133.4	10.7
10	Narrow-leaved hawk's-beard	33.1	7.8	23.4	1.1	3.2	42.0	10.7
11	Hemp-nettle	25.4	8.2	32.3	1.4	5.5	48.0	10.5
12	Common groundsel	20.0	6.4	32.0	1.8	9.2	118.4	9.8
13	Green foxtail	22.7	7.1	31.3	1.2	5.3	68.2	9.2
14	Pale smartweed	24.2	6.7	27.6	1.0	4.3	63.4	8.9
15	Lamb's-quarters	28.8	6.2	21.5	0.8	2.7	39.4	8.7
16	Corn spurry	8.8	3.1	35.4	1.5	17.5	161.8	6.1
17	Low cudweed	1.9	0.9	49.0	2.2	116.6	363.8	5.6
18	Volunteer barley	11.2	3.9	34.7	0.6	5.7	60.4	4.8
19	Dandelion	20.0	2.6	13.1	0.2	1.0	14.2	4.5
20	Volunteer wheat	10.0	3.5	34.6	0.5	5.4	42.4	4.2
21	Pineappleweed	14.2	2.6	18.1	0.3	2.1	14.0	3.9
22	Redroot pigweed	14.2	2.4	17.2	0.3	1.9	19.8	3.8
23	Annual sow-thistle	11.9	2.8	23.2	0.3	2.5	24.8	3.6
24	Volunteer canola	8.8	2.6	28.9	0.3	3.6	24.0	3.2
25	Field horsetail	9.6	1.7	18.0	0.3	3.2	25.4	2.8
26	Stork's-bill	8.1	2.2	27.6	0.3	3.5	14.0	2.8
27	Tartary buckwheat	5.8	0.8	14.7	0.2	2.7	26.0	1.6
28	Yellow toadflax	3.5	1.2	35.0	0.1	3.7	9.4	1.3
29	Bluebur	3.1	0.7	23.8	0.1	2.5	6.4	0.9
30	Alsike clover	4.2	0.5	11.8	< 0.1	0.9	4.4	0.9
31	Ball mustard	3.5	0.7	19.4	< 0.1	1.2	3.4	0.9
32	Wormseed mustard	2.3	0.7	28.3	0.1	3.5	8.2	0.8
33	White cockle	1.9	0.7	37.0	0.1	3.7	8.2	0.8
34	Wild mustard	2.3	0.4	19.2	< 0.1	1.0	2.0	0.6
35	Rose species	2.7	0.2	8.6	< 0.1	0.9	2.0	0.5
36	Volunteer alfalfa	2.3	0.3	12.5	< 0.1	0.8	2.8	0.5
37	Leafy spurge	1.9	0.3	14.0	< 0.1	1.8	5.0	0.5
38	Henbit	1.2	0.5	41.7	< 0.1	2.2	4.6	0.4
39	Povertyweed	1.5	0.3	16.3	< 0.1	2.8	6.6	0.4
40	Unknown weed species	1.5	0.3	20.0	< 0.1	1.9	3.2	0.4
41	Flixweed	1.2	0.3	23.3	< 0.1	1.3	2.4	0.3
42	Wild chamomile	1.2	0.2	18.3	< 0.1	1.6	3.4	0.3
43	Broad-leaved plantain	1.5	0.1	7.5	< 0.1	0.6	1.0	0.3
44	Barnyard grass	1.2	0.2	16.7	< 0.1	1.3	3.2	0.3
45	Scentless chamomile	1.2	0.2	15.0	< 0.1	0.9	1.8	0.3
46	Russian knapweed	0.8	0.2	30.0	< 0.1	2.2	3.2	0.3
47	Cow cockle	0.8	0.2	22.5	< 0.1	1.5	2.8	0.2
48	Common yarrow	0.8	0.1	7.5	< 0.1	3.6	6.8	0.2
49	Volunteer peas	0.8	0.1	17.5	< 0.1	0.9	1.4	0.2
50	Fireweed	0.8	0.1	7.5	< 0.1	0.6	0.8	0.1
51	Silverweed	0.4	0.1	30.0	< 0.1	3.8	3.8	0.1
52	Common pepper-grass	0.8	< 0.1	5.0	< 0.1	0.6	0.8	0.1

(Table continued on next page)

Table 168. All fields in the Aspen Parkland Ecoregion in 1997 (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	High			
53	Foxtail barley	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
54	Prostrate pigweed	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
55	Vetch species	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.1
56	Night-flowering catchfly	0.4	0.1	20.0	< 0.1	1.6	1.6	0.1
57	Nodding thistle	0.4	0.1	20.0	< 0.1	1.4	1.4	0.1
58	Yellow alyssum	0.4	< 0.1	10.0	< 0.1	1.8	1.8	0.1
59	Western snowberry	0.4	< 0.1	10.0	< 0.1	1.2	1.2	0.1
60	Volunteer white mustard	0.4	< 0.1	10.0	< 0.1	1.0	1.0	0.1
61	Giant ragweed	0.4	< 0.1	10.0	< 0.1	0.6	0.6	0.1
62	Smooth brome	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
63	Wild radish	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
64	Baby's breath	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Field bindweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Rough cinquefoil	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Meadow foxtail	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
68	Kochia	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Hairy nightshade	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
70	Water smartweed	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
71	Spiny annual sow-thistle	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
72	Russian thistle	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 169. All fields in the Moist Mixed Grassland Ecoregion in 1997

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild buckwheat	66.4	23.7	35.7	2.9	4.4	93.6	62.4
2	Wild oats	43.7	13.9	31.7	2.1	4.8	36.8	40.6
3	Canada thistle	45.4	10.3	22.7	1.0	2.1	12.4	28.5
4	Stinkweed	30.3	7.8	25.8	1.1	3.6	23.2	23.6
5	Dandelion	36.1	10.1	28.0	0.6	1.8	8.0	23.5
6	Redroot pigweed	21.8	6.4	29.2	0.7	3.3	23.8	17.2
7	Green foxtail	21.0	3.3	15.6	0.3	1.6	17.0	10.9
8	Pale smartweed	15.1	3.7	24.7	0.5	3.0	21.8	10.9
9	Quack grass	8.4	2.1	24.5	0.6	6.8	50.2	8.6
10	Kochia	10.1	2.9	28.3	0.4	4.2	27.8	8.6
11	Shepherd's-purse	16.0	1.9	12.1	0.2	1.1	7.0	7.1
12	Round-leaved mallow	5.0	2.4	48.3	0.4	7.0	25.6	6.4
13	Lamb's-quarters	11.8	1.9	16.1	0.2	1.4	8.0	6.0
14	Perennial sow-thistle	9.2	1.7	18.6	0.1	1.1	2.4	4.7
15	Flixweed	10.1	1.3	13.3	0.1	1.0	3.2	4.5
16	Russian thistle	6.7	1.2	17.5	0.1	2.0	12.2	3.8
17	Volunteer canola	4.2	1.2	29.0	0.2	4.7	18.2	3.8
18	Common groundsel	7.6	1.3	16.7	0.1	1.2	2.2	3.7
19	Rose species	6.7	1.1	15.6	0.1	1.1	3.6	3.2
20	Narrow-leaved hawk's-beard	5.9	1.1	18.6	0.1	1.3	2.8	3.1
21	Prostrate knotweed	5.0	1.2	24.2	0.1	1.7	6.6	3.1
22	Hemp-nettle	2.5	0.9	36.7	0.1	3.3	4.4	2.2
23	Stork's-bill	0.8	0.8	90.0	0.1	17.8	17.8	2.1
24	Chickweed	0.8	0.6	75.0	0.1	13.4	13.4	1.7
25	Field horsetail	0.8	0.7	80.0	0.1	10.8	10.8	1.6
26	Volunteer wheat	3.4	0.3	10.0	< 0.1	0.5	1.0	1.3
27	Foxtail barley	3.4	0.2	6.3	< 0.1	0.7	1.4	1.2
28	Volunteer alfalfa	0.8	0.3	35.0	< 0.1	5.0	5.0	0.8
29	Pineappleweed	1.7	0.1	7.5	< 0.1	0.4	0.6	0.6
30	Black medick	0.8	0.2	25.0	< 0.1	2.2	2.2	0.6
31	Alsike clover	1.7	0.1	5.0	< 0.1	0.2	0.2	0.5
32	Common pepper-grass	0.8	0.2	25.0	< 0.1	1.0	1.0	0.5
33	Wormseed mustard	0.8	0.1	15.0	< 0.1	1.2	1.2	0.4
34	Cleavers	0.8	0.1	10.0	< 0.1	0.6	0.6	0.3
35	Tumble pigweed	0.8	0.1	10.0	< 0.1	0.6	0.6	0.3
36	Prostrate pigweed	0.8	< 0.1	5.0	< 0.1	0.4	0.4	0.3
37	Tumble mustard	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3
38	Wild mustard	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3
39	Annual sow-thistle	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3
40	Wild tomato	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3
41	Unknown grass species	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3
42	Volunteer flax	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3

Table 170. All fields in the Fescue Grassland Ecoregion in 1997

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All Occurrence	All Occurrence	All	Occurrence	High	
1	Wild buckwheat	58.9	22.9	38.9	3.5	5.9	42.6	40.4
2	Stinkweed	53.6	16.1	30.0	4.1	7.7	136.8	37.3
3	Wild oats	53.6	13.8	25.8	2.8	5.3	60.6	30.5
4	Canada thistle	62.5	13.8	22.1	1.2	1.9	8.6	25.3
5	Chickweed	23.2	7.2	31.2	3.0	12.8	135.0	21.2
6	Dandelion	41.1	9.0	22.0	0.7	1.7	10.8	16.2
7	Shepherd's-purse	30.4	7.8	25.6	1.2	3.9	35.6	15.5
8	Volunteer wheat	10.7	2.9	26.7	2.5	23.0	131.6	13.9
9	Lamb's-quarters	26.8	4.6	17.0	0.6	2.2	17.8	10.2
10	Hemp-nettle	21.4	5.5	25.8	0.5	2.5	13.2	9.8
11	Quack grass	21.4	3.4	15.8	0.4	1.9	10.8	7.7
12	Cleavers	8.9	4.5	50.0	0.7	7.3	15.8	7.3
13	Pale smartweed	21.4	3.1	14.6	0.2	0.9	2.8	6.6
14	Redroot pigweed	16.1	1.8	11.1	0.1	0.7	2.0	4.4
15	Green foxtail	7.1	2.1	28.8	0.4	5.0	11.6	4.1
16	Rose species	12.5	1.6	12.9	0.2	1.2	5.2	3.9
17	Persian darnel	5.4	1.7	31.7	0.4	7.7	16.8	3.8
18	Perennial sow-thistle	10.7	1.7	15.8	0.2	1.6	7.2	3.7
19	Volunteer canola	8.9	1.6	18.0	0.2	1.8	7.2	3.3
20	Round-leaved mallow	10.7	1.4	13.3	0.1	0.8	2.4	3.2
21	Annual sow-thistle	5.4	2.1	38.3	0.2	3.1	5.6	3.0
22	White cockle	1.8	1.5	85.0	0.4	20.4	20.4	2.9
23	Alsike clover	5.4	1.0	18.3	0.2	4.3	12.4	2.5
24	Narrow-leaved hawk's-beard	7.1	1.2	16.3	0.1	1.2	2.0	2.4
25	Flixweed	7.1	1.0	13.8	0.1	0.9	1.8	2.2
26	Field bindweed	7.1	0.8	11.3	0.1	0.9	2.0	2.0
27	Bluebur	1.8	1.3	70.0	0.2	9.6	9.6	1.9
28	Volunteer alfalfa	1.8	1.0	55.0	0.2	9.8	9.8	1.7
29	Wild rye species	1.8	0.8	45.0	0.1	7.0	7.0	1.4
30	Foxtail barley	5.4	0.5	10.0	< 0.1	0.4	0.6	1.4
31	Unknown grass species	5.4	0.4	6.7	< 0.1	0.8	2.0	1.3
32	Prostrate knotweed	5.4	0.4	6.7	< 0.1	0.3	0.4	1.2
33	Volunteer barley	3.6	0.4	12.5	< 0.1	0.7	1.2	1.0
34	Barnyard grass	3.6	0.3	7.5	< 0.1	0.4	0.4	0.9
35	Unknown weed species	3.6	0.2	5.0	< 0.1	0.2	0.2	0.8
36	Kochia	1.8	0.4	25.0	< 0.1	1.0	1.0	0.7
37	Purslane speedwell	1.8	0.4	25.0	< 0.1	1.0	1.0	0.7
38	Downy brome	1.8	0.3	15.0	< 0.1	1.8	1.8	0.6
39	Prostrate pigweed	1.8	0.3	15.0	< 0.1	0.8	0.8	0.6
40	Volunteer white mustard	1.8	0.2	10.0	< 0.1	0.4	0.4	0.5
41	Pineappleweed	1.8	0.1	5.0	< 0.1	0.8	0.8	0.4
42	Yellow toadflax	1.8	0.1	5.0	< 0.1	0.6	0.6	0.4
43	Broad-leaved plantain	1.8	0.1	5.0	< 0.1	0.4	0.4	0.4
44	Field horsetail	1.8	0.1	5.0	< 0.1	0.2	0.2	0.4
45	Stork's-bill	1.8	0.1	5.0	< 0.1	0.2	0.2	0.4
46	Perennial rye grass	1.8	0.1	5.0	< 0.1	0.2	0.2	0.4

Table 171. All fields in the Mixed Grassland Ecoregion in 1997

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	70.6	19.7	27.9	2.9	4.2	16.0	67.1
2	Wild buckwheat	54.4	15.3	28.1	2.0	3.7	29.6	49.8
3	Kochia	35.3	8.1	22.9	1.8	5.2	26.0	34.4
4	Russian thistle	25.0	7.1	28.5	1.0	3.9	14.4	23.5
5	Green foxtail	23.5	5.5	23.4	1.1	4.5	20.4	21.8
6	Redroot pigweed	25.0	4.9	19.4	1.0	3.9	32.4	20.6
7	Canada thistle	26.5	5.5	20.8	0.5	2.0	5.2	18.1
8	Stinkweed	13.2	2.6	19.4	0.4	2.8	10.2	9.7
9	Lamb's-quarters	14.7	2.2	15.0	0.3	1.9	10.2	8.9
10	Dandelion	16.2	2.5	15.5	0.2	1.0	3.6	8.6
11	Barnyard grass	5.9	1.9	32.5	0.2	3.3	7.4	5.5
12	Foxtail barley	11.8	1.0	8.8	0.1	1.1	3.6	5.4
13	Pale smartweed	5.9	0.7	12.5	< 0.1	0.8	1.0	2.8
14	Volunteer alfalfa	5.9	0.6	10.0	< 0.1	0.5	0.8	2.5
15	Perennial sow-thistle	5.9	0.5	8.8	< 0.1	0.5	0.8	2.4
16	Volunteer oats	1.5	0.9	60.0	0.1	7.6	7.6	2.4
17	Flixweed	5.9	0.3	5.0	< 0.1	0.4	0.6	2.1
18	Chickweed	2.9	0.6	20.0	0.1	2.0	3.6	2.0
19	Narrow-leaved hawk's-beard	2.9	0.3	10.0	< 0.1	0.4	0.4	1.2
20	Cow cockle	2.9	0.2	7.5	< 0.1	0.7	1.2	1.2
21	Shepherd's-purse	1.5	0.4	25.0	< 0.1	1.8	1.8	1.1
22	Round-leaved mallow	1.5	0.1	5.0	0.1	4.6	4.6	1.0
23	Tumble mustard	2.9	0.1	5.0	< 0.1	0.2	0.2	1.0
24	Annual sow-thistle	2.9	0.1	5.0	< 0.1	0.2	0.2	1.0
25	Canada fleabane	1.5	0.3	20.0	< 0.1	1.6	1.6	0.9
26	Common pepper-grass	1.5	0.2	15.0	< 0.1	0.8	0.8	0.8
27	Black medick	1.5	0.1	10.0	< 0.1	0.4	0.4	0.6
28	Black nightshade	1.5	0.1	5.0	< 0.1	0.6	0.6	0.6
29	Sedge species	1.5	0.1	5.0	< 0.1	0.6	0.6	0.6
30	Sunflower	1.5	0.1	5.0	< 0.1	0.6	0.6	0.6
31	Downy brome	1.5	0.1	5.0	< 0.1	0.2	0.2	0.5
32	Oak-leaved goosefoot	1.5	0.1	5.0	< 0.1	0.2	0.2	0.5
33	Blue lettuce	1.5	0.1	5.0	< 0.1	0.2	0.2	0.5
34	Wild tomato	1.5	0.1	5.0	< 0.1	0.2	0.2	0.5

Abstract for Poster

The comparison of the relative abundance of weeds in Alberta in 2001 with results from the 1997, 1987-1989 and 1973-1977 provincial surveys enables the identification of recent shifts in selected weed populations. In 2001, 1153 fields of spring wheat, durum, barley, oat, canola and field pea were surveyed in Alberta. These fields were selected using a stratified random sampling procedure based on ecodistricts. In each field, weeds were counted in 20 quadrats (50 by 50 cm) in late summer. Weed data are summarized using a relative abundance index based on frequency, field uniformity and density. Wild buckwheat was the most abundant weed in 2001, wild oats ranked second, and chickweed ranked third. The list of the twenty most abundant species included five perennials (Canada thistle, dandelion, field horsetail, quack grass and perennial sow-thistle). The results from the 2001 survey are compared to results from surveys of 685 fields in 1997, 1113 fields in 1987-1989 and 3109 fields in 1973-1977. Weed community composition has been similar since the 1970's; however, shifts have occurred in relative abundance of the top twenty species. Twelve species have been ranked amongst the top twenty most abundant species in each survey. These species are the thirteen most abundant species in 2001 with the exception of cleavers. Seven species ranked in the top twenty species in the 1970's and/or 1980's have since declined (Tartary buckwheat, wild mustard, corn spurry, redroot pigweed, clover species, Russian thistle, bluebur). Six species have appeared in top twenty most abundant species in the 1997 and/or 2001 (cleavers, annual sow-thistle, volunteer wheat, pineappleweed, quack grass, narrow-leaved hawk's-beard).

Recent Weed Population Shifts in Alberta

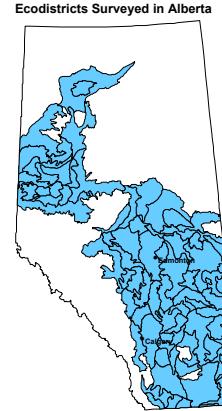
A. Gordon Thomas¹, Julia Y. Leeson¹, Linda M. Hall², John Huffman², Trevor Kloeck², Russel Horvey² and Rob Dunn²

¹Agriculture and Agri-Food Canada, Saskatoon, SK; ²Alberta Agriculture, Food and Rural Development



Objectives

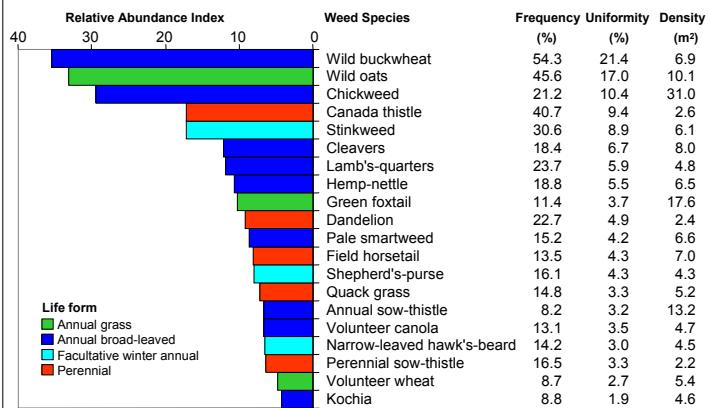
- Compare the relative abundance of weeds in Alberta in 2001 with results from the 1997, 1987-1989 and 1973-1977 provincial surveys
- Identify recent shifts in selected weed populations



Methods

- Used stratified random sampling procedure to select fields in ecodistricts shown on map
- Surveyed 1153 dryland fields of spring wheat, durum, barley, oat, canola and field pea
- Counted weeds in 20 quadrats (50 by 50 cm) per field in late summer
- Summarized weed data using a relative abundance index based on frequency, field 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 occurrence fields
- Compared results with surveys of
 - 685 fields in 1997
 - 1113 fields in 1987-1989
 - 3109 fields in 1973-1977

Top 20 Species in 2001 Survey



Shifts in Weed Populations

	Change in Relative Abundance Rank 1970's to 1980's to 1997 to 2001	Percent of Relative Abundance of Top 20 Species Accounted for by Each Life Form
Annual grass		
Volunteer wheat	11 3 14	~20
Wild oats	0 1 0 1	~15
Green foxtail	-4 -12 9 -7	~15
Annual broad-leaved		
Cleavers	14 22 1 37	~50
Annual sow-thistle	11 13 13 24	~45
Pineappleweed	3 13 -4 12	~40
Kochia	3 -2 7 8	~35
Common groundsel	17 1 -10 8	~30
Wild buckwheat	2 -2 3 3	~25
Chickweed	1 3 -2 2	~20
Hemp-nettle	0 -3 2 -1	~15
Lamb's-quarters	1 -3 1 -1	~15
Pale smartweed	-4 -2 3 -3	~15
Volunteer canola	-8 -1 5 -4	~15
Russian thistle	4 -21 7 -10	~15
Redroot pigweed	-5 -3 -3 -11	~15
Corn spurry	-9 -3 -4 -16	~15
Wild mustard	-20 -9 8 -21	~15
Tartary buckwheat	-8 -9 -36 -53	~15
Facultative winter annual		
Shepherd's-purse	10 3 -7 6	~20
Narrow-leaved hawk's-beard	9 2 -6 5	~15
Stinkweed	0 -2 -2 -4	~15
Bluebur	0 -8 -1 -9	~15
Perennial		
Quack grass	0 5 2 7	~20
Canada thistle	-2 6 1 5	~15
Dandelion	-2 5 2 5	~15
Field horsetail	5 -1 -3 1	~15
Perennial sow-thistle	-5 7 -3 -1	~15
Clover species	-10 -1 -11	~15

Numbers in italics are changes from the 1980's surveys to 2001; these species were not identified in the 1970's surveys

Summary

- Composition of weed community has been similar since the 1970's
- Shifts have occurred in the relative abundance of the top 20 species
- Twelve species have been present in the top 20 in each survey since the 1970's
 - These species are the top 13 species in 2001 with the exception of cleavers
- Seven species in top 20 in the 1970's and/or 1980's have declined
 - Tartary buckwheat, wild mustard, corn spurry, redroot pigweed, clover species, Russian thistle, bluebur
- Six species have appeared in top 20 in 1997 and/or 2001
 - Cleavers, annual sow-thistle, volunteer wheat, pineappleweed, quack grass, narrow-leaved hawk's-beard

Acknowledgements

- The weed surveys were only possible because of the cooperation of over 6000 producers
- Special thanks to the many municipal, provincial and federal staff and survey personnel who participated in the 2001 survey
- Funded in part by 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, and by Alberta Agriculture, Food and Rural Development Farming for the Future Program and Matching Investment Initiative (MII) of Agriculture and Agri-Food Canada

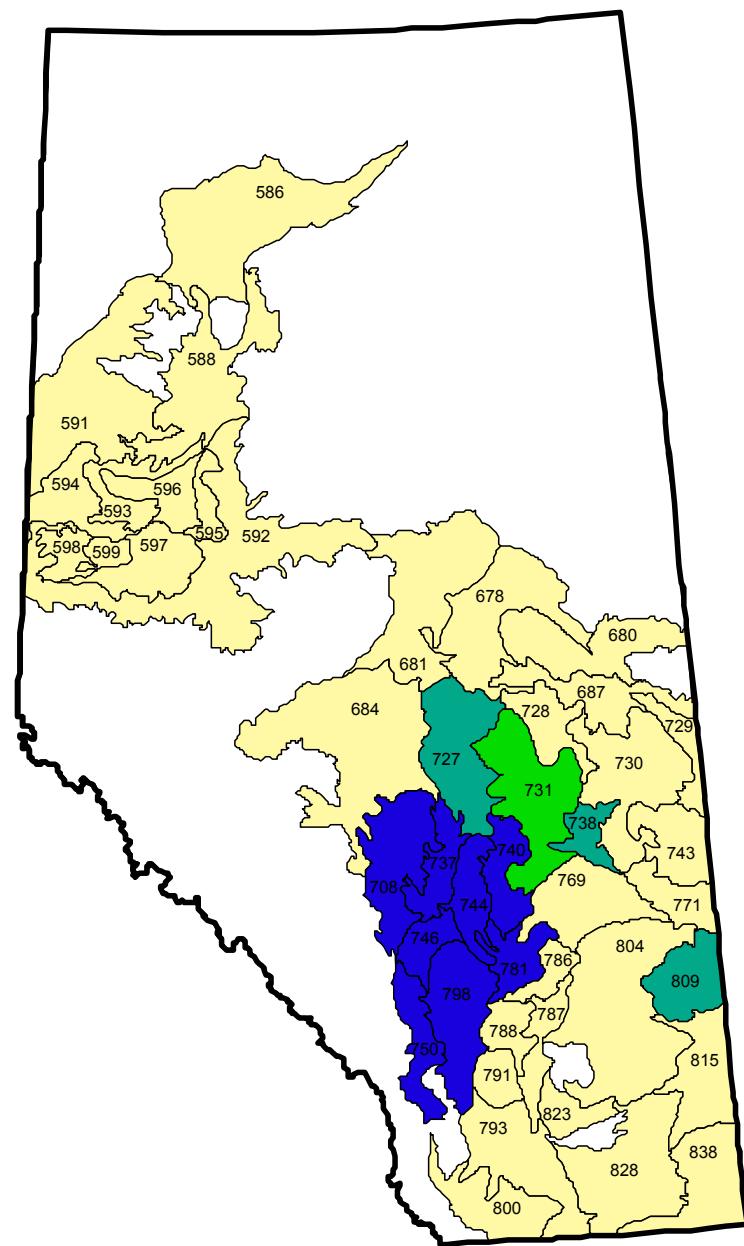
Sources

- Thomas, A.G. and R.F. Wise. 1985. Dew's Alberta Weed Survey 1973-1977. Agriculture Canada Weed Survey Series Publication 85-3.
- Maurice, D.C., J.T. O'Donovan and D.J. Pickle. 1990. Alberta Cereals & Oilseeds Crop Protection Survey. Alberta Agriculture (internal report).
- Thomas, A.G., B.L. Frick, and L.M. Hall. 1998. Weed survey of Alberta cereal and oilseed crops in 1997. Agriculture and Agri-Food Canada Weed Survey Series Publication 98-2.
- Thomas, A.G., J.Y. Leeson, and L.M. Hall. 2002. Weed survey of Alberta cereal, oilseed and pulse crops in 2001. Agriculture and Agri-Food Canada Weed Survey Series Publication 02-1. (In preparation)

List of Distribution Maps

Annual sow-thistle.....	218
Ball mustard.....	219
Biennial wormwood	220
Bluebur	221
Broad-leaved plantain.....	222
Canada thistle	223
Chickweed	224
Cleavers	225
Common groundsel.....	226
Corn spurry	227
Cow cockle	228
Dandelion	229
Field horsetail.....	230
Flixweed	231
Foxtail barley.....	232
Green foxtail.....	233
Hemp-nettle	234
Kochia	235
Lamb's-quarters	236
Night-flowering catchfly	237
Narrow-leaved hawk's-beard	238
Pale smartweed	239
Perennial sow-thistle.....	240
Pineappleweed	241
Prostrate knotweed	242
Prostrate pigweed	243
Quack grass	244
Redroot pigweed.....	245
Rose species.....	246
Rough cinquefoil	247
Round-leaved mallow.....	248
Russian thistle.....	249
Scentless chamomile.....	250
Shepherd's-purse.....	251
Spiny annual sow-thistle.....	252
Stinkweed	253
Stork's-bill	254
Thyme-leaved spurge	255
Volunteer barley	256
Volunteer canola.....	257
Volunteer wheat.....	258
Wild buckwheat.....	259
Wild mustard.....	260
Wild oats.....	261
White cockle.....	262
Yellow toadflax	263

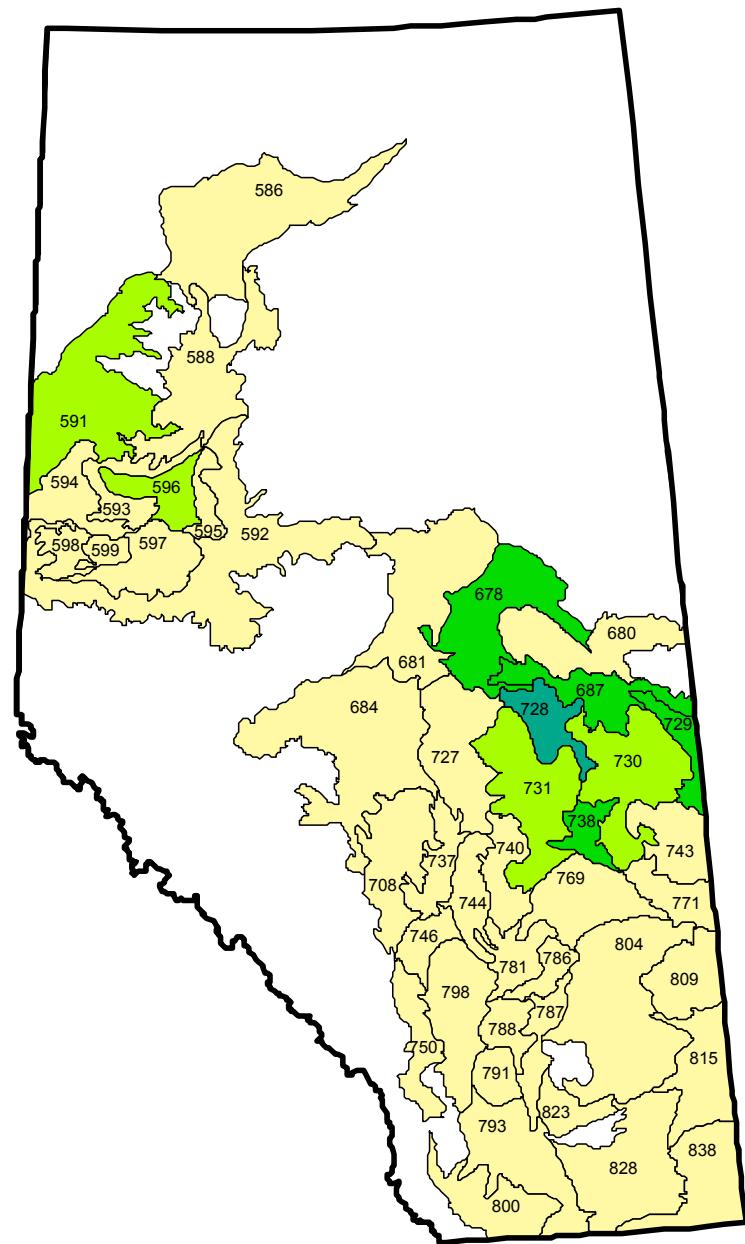
Annual sow-thistle



Relative Abundance Index

- Not included 1.1 to 4
- Absent 4.1 to 10
- 0.1 to 1 More than 10

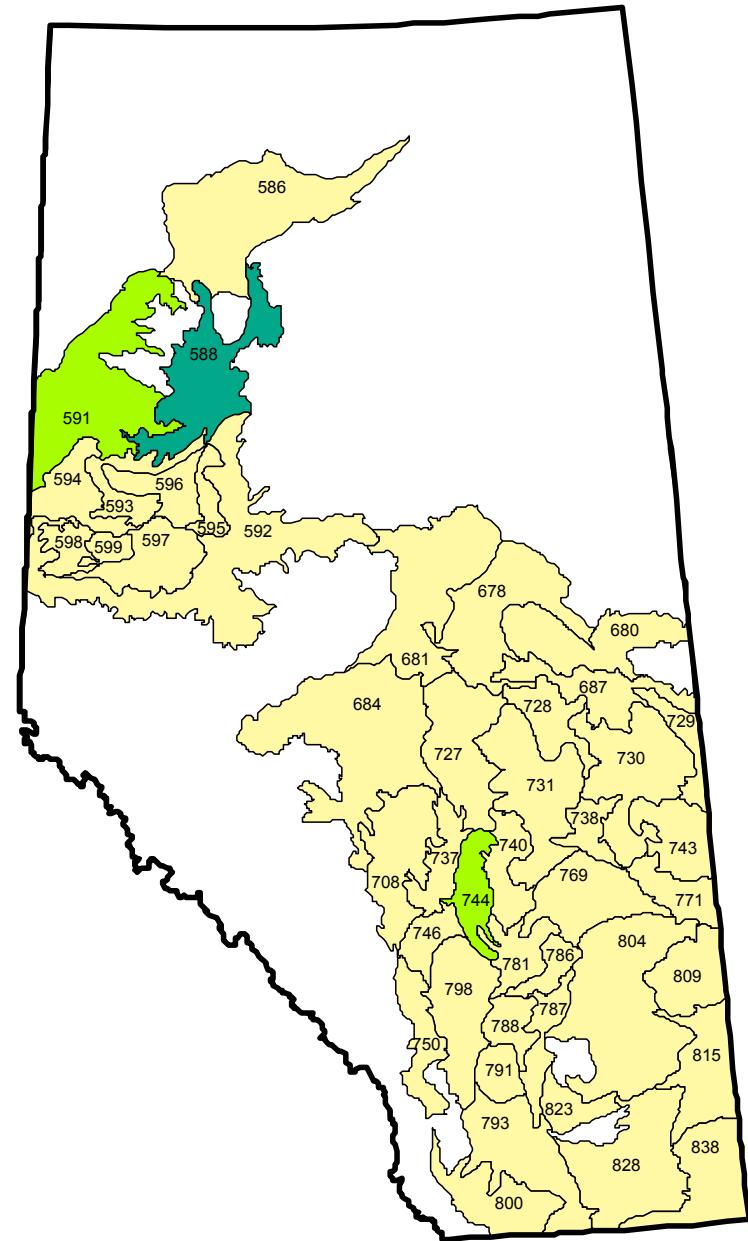
Ball mustard



Relative Abundance Index

- | | |
|---------------------------------------|---|
| <input type="checkbox"/> Not included | █ 1.1 to 4 |
| <input type="checkbox"/> Absent | █ 4.1 to 10 |
| <input type="checkbox"/> 0.1 to 1 | █ More than 10 |

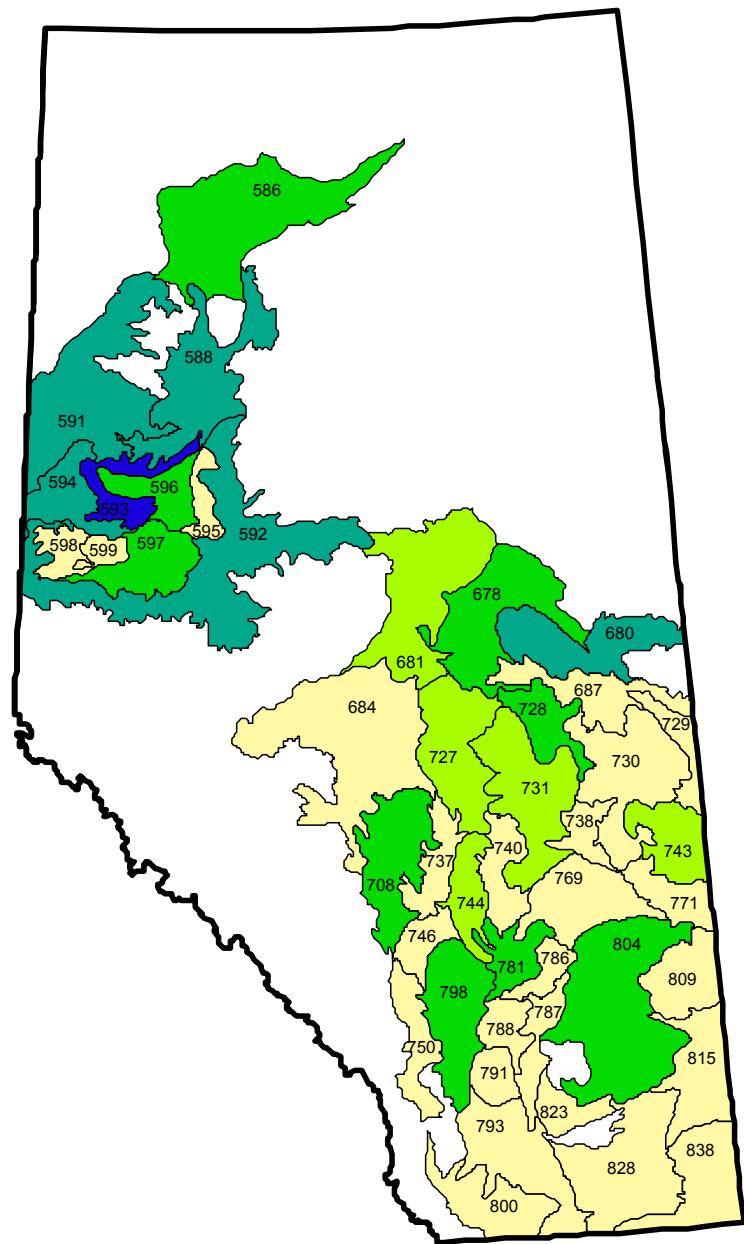
Biennial wormwood



Relative Abundance Index

- | | | |
|--|--------------|--|
| <input type="checkbox"/> | Not included | █ 1.1 to 4 |
| | Absent | █ 4.1 to 10 |
| █ | 0.1 to 1 | █ More than 10 |

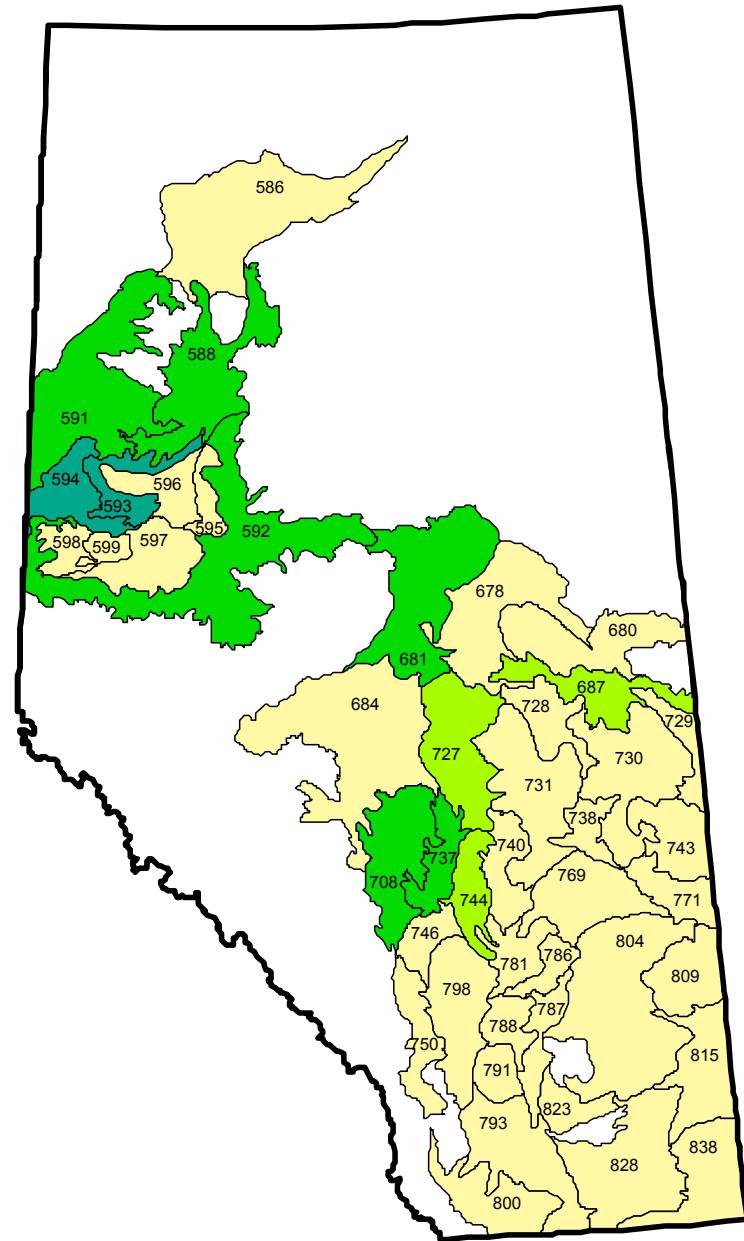
Bluebur



Relative Abundance Index

- | | |
|---------------------------------------|---|
| <input type="checkbox"/> Not included | █ 1.1 to 4 |
| <input type="checkbox"/> Absent | █ 4.1 to 10 |
| <input type="checkbox"/> 0.1 to 1 | █ More than 10 |

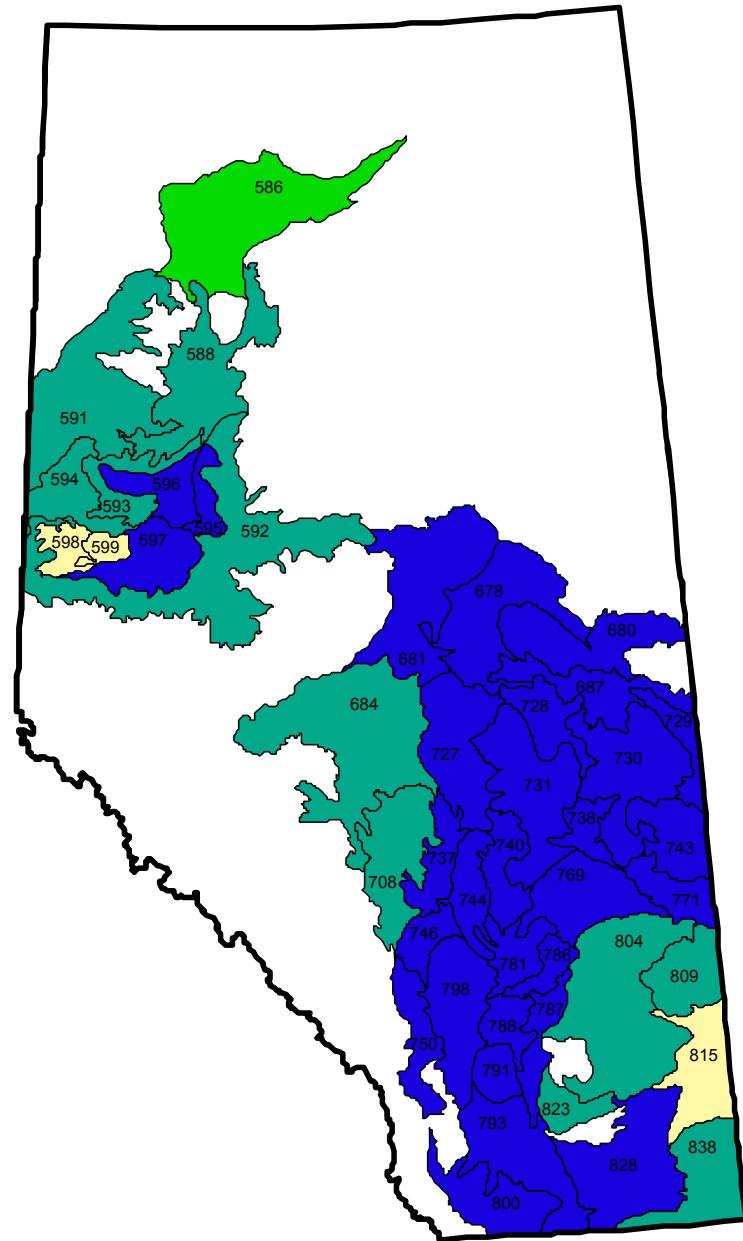
Broad-leaved plantain



Relative Abundance Index

- | | | |
|---|--------------|--|
| <input type="checkbox"/> | Not included | █ 1.1 to 4 |
| | Absent | █ 4.1 to 10 |
| | 0.1 to 1 | █ More than 10 |

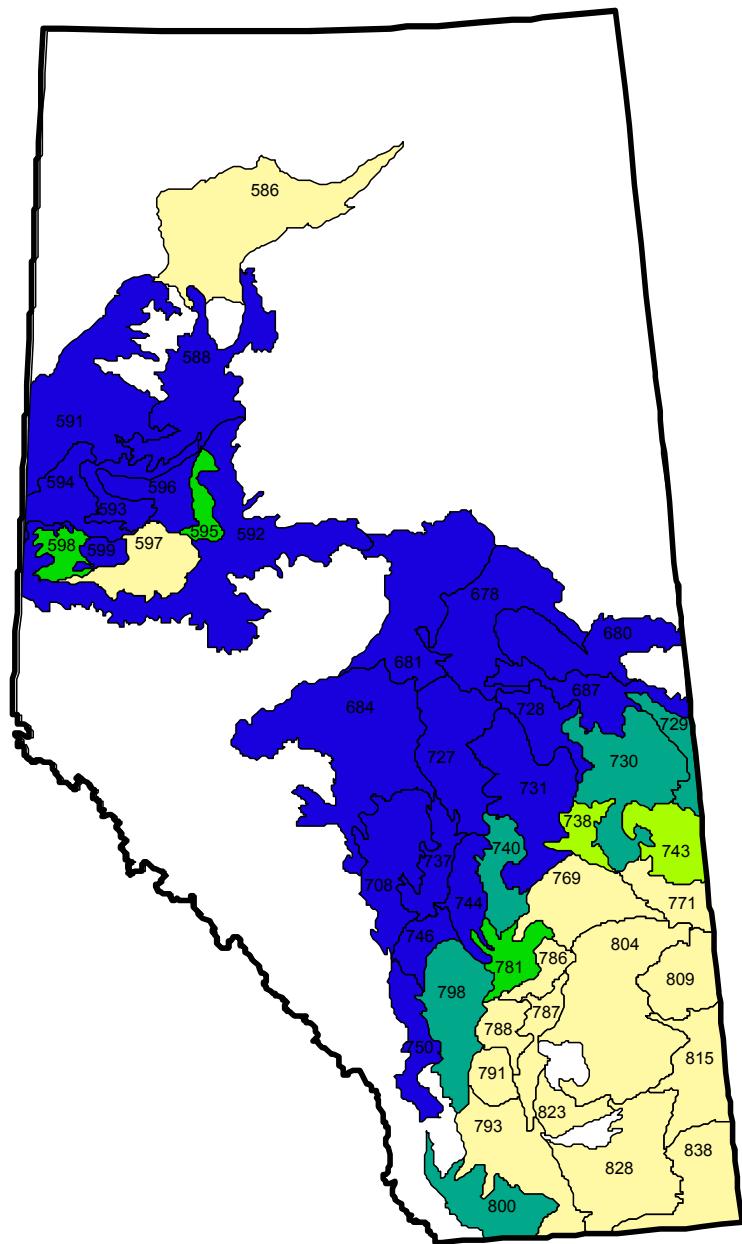
Canada thistle



Relative Abundance Index

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> Not included | █ 1.1 to 4 |
| <input type="checkbox"/> Absent | █ 4.1 to 10 |
| <input type="checkbox"/> 0.1 to 1 | █ More than 10 |

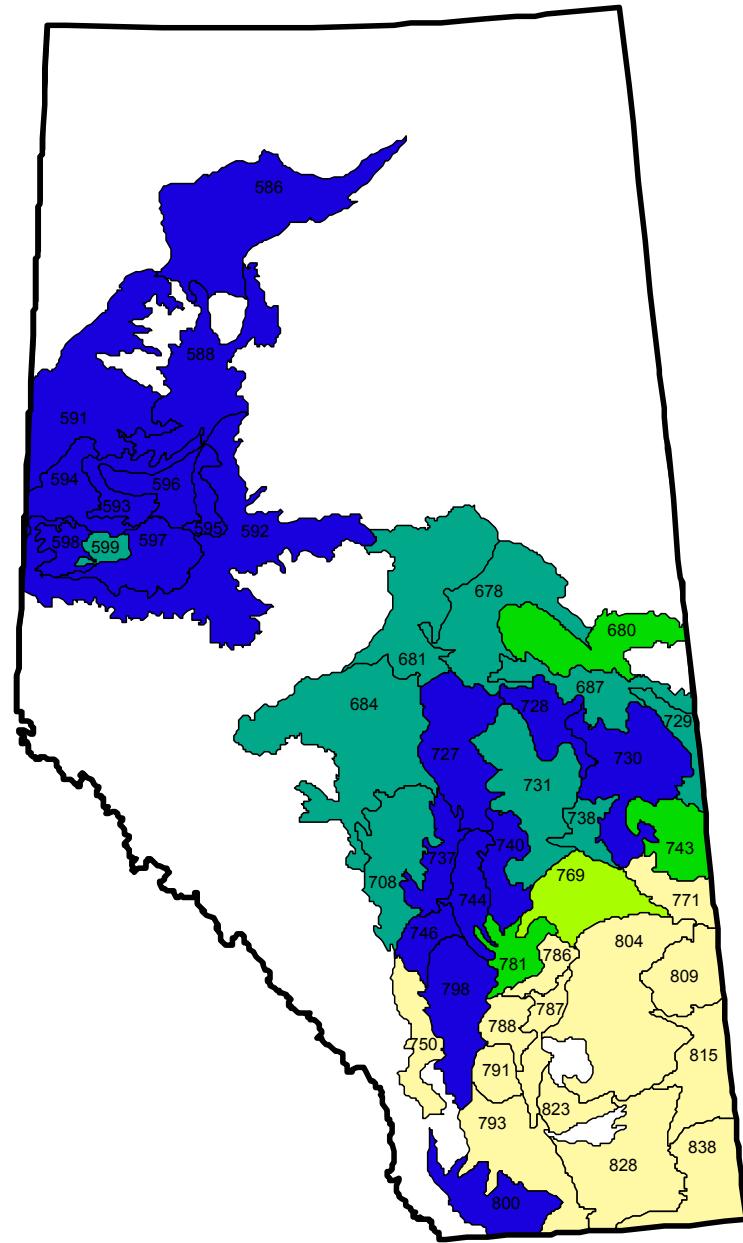
Chickweed



Relative Abundance Index

- Not included
- Absent
- 0.1 to 1
- 1.1 to 4
- 4.1 to 10
- More than 10

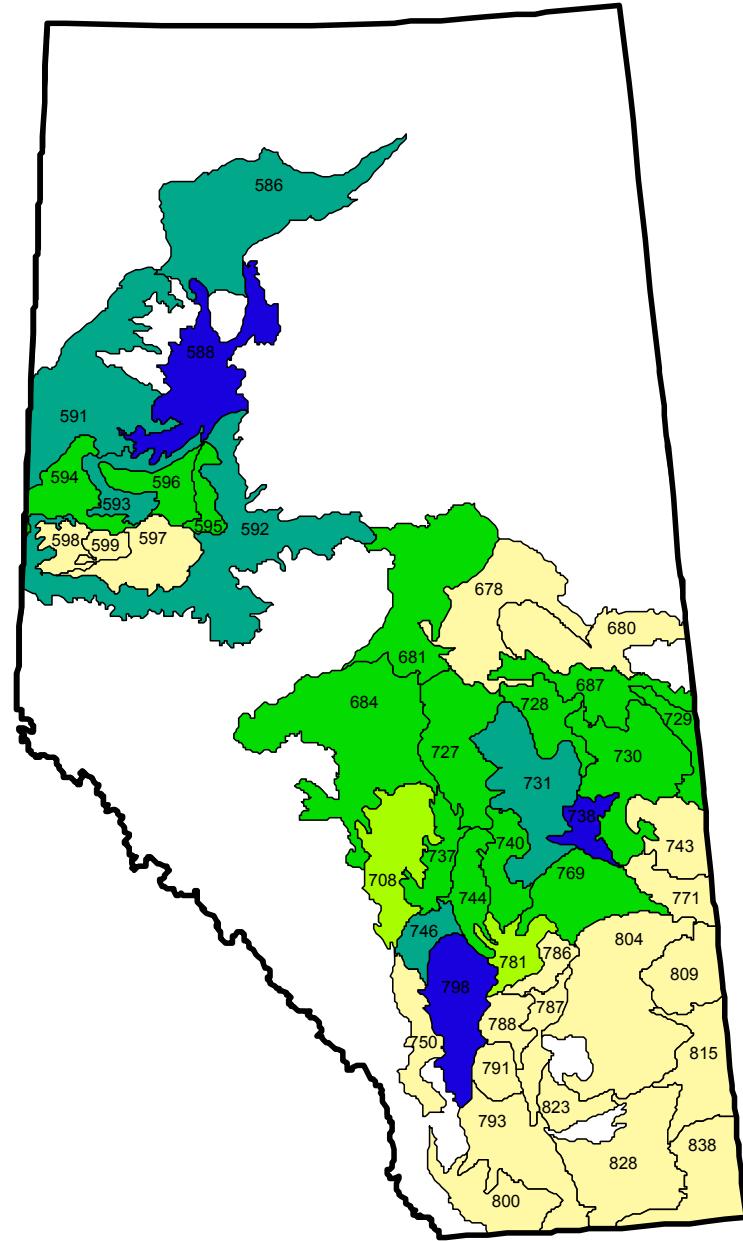
Cleavers



Relative Abundance Index

- | | | |
|--|--------------|--|
| <input type="checkbox"/> | Not included | █ 1.1 to 4 |
| █ | Absent | █ 4.1 to 10 |
| █ | 0.1 to 1 | █ More than 10 |

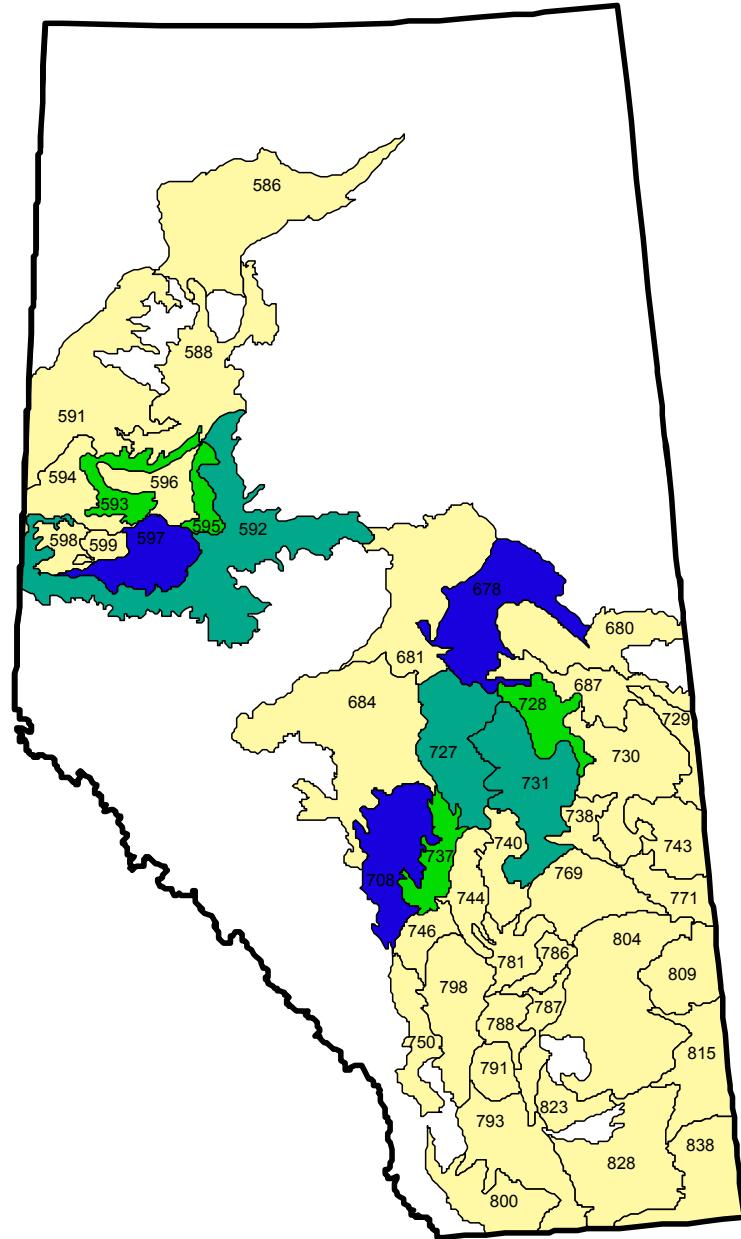
Common groundsel



Relative Abundance Index

- | | | |
|--|--------------|--|
| <input type="checkbox"/> | Not included | █ 1.1 to 4 |
| █ | Absent | █ 4.1 to 10 |
| █ | 0.1 to 1 | █ More than 10 |

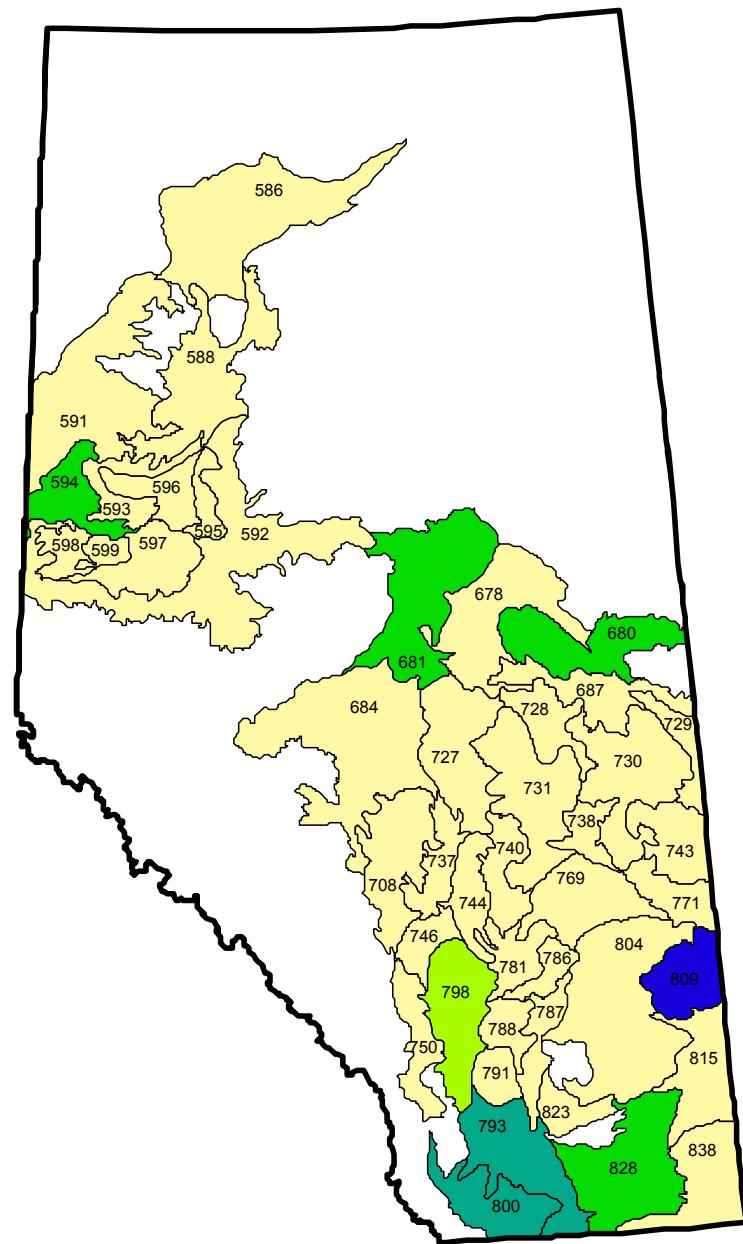
Corn spurry



Relative Abundance Index

- Not included █ 1.1 to 4
- Absent █ 4.1 to 10
- 0.1 to 1 █ More than 10

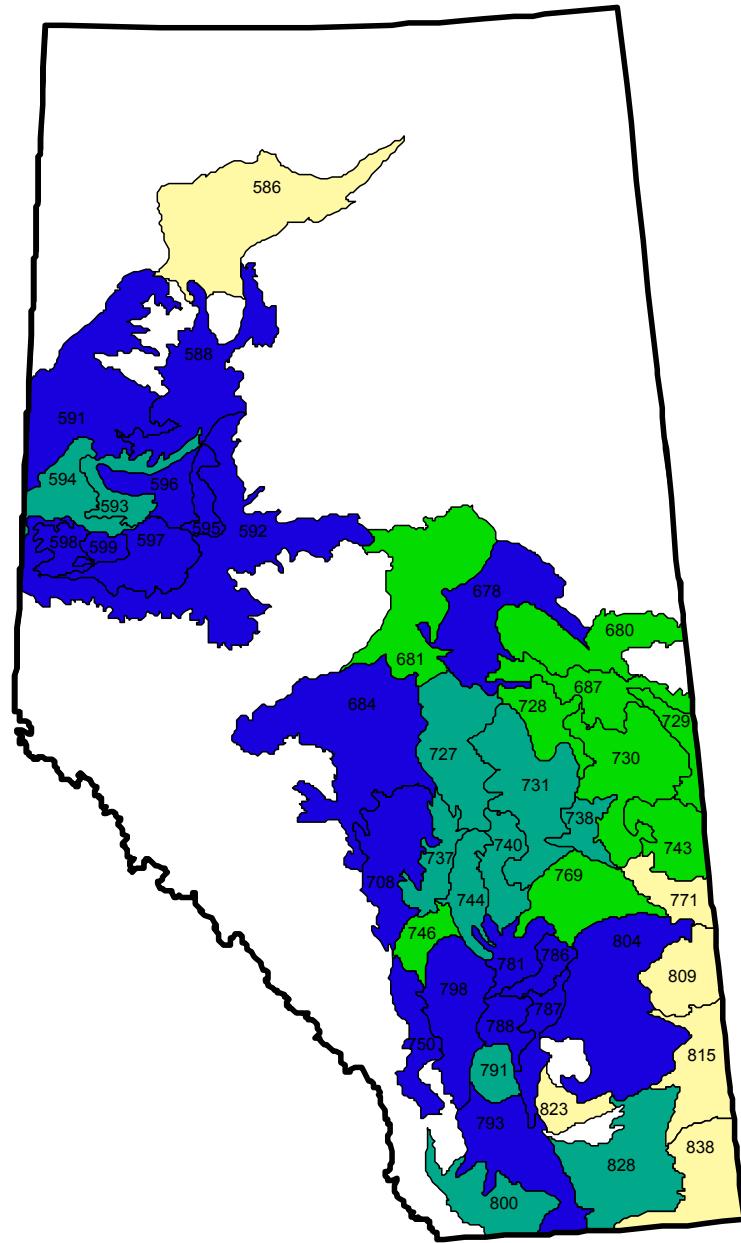
Cow cockle



Relative Abundance Index

- | | | | |
|--------------------------|--------------|--------------------------|--------------|
| <input type="checkbox"/> | Not included | <input type="checkbox"/> | 1.1 to 4 |
| <input type="checkbox"/> | Absent | <input type="checkbox"/> | 4.1 to 10 |
| <input type="checkbox"/> | 0.1 to 1 | <input type="checkbox"/> | More than 10 |

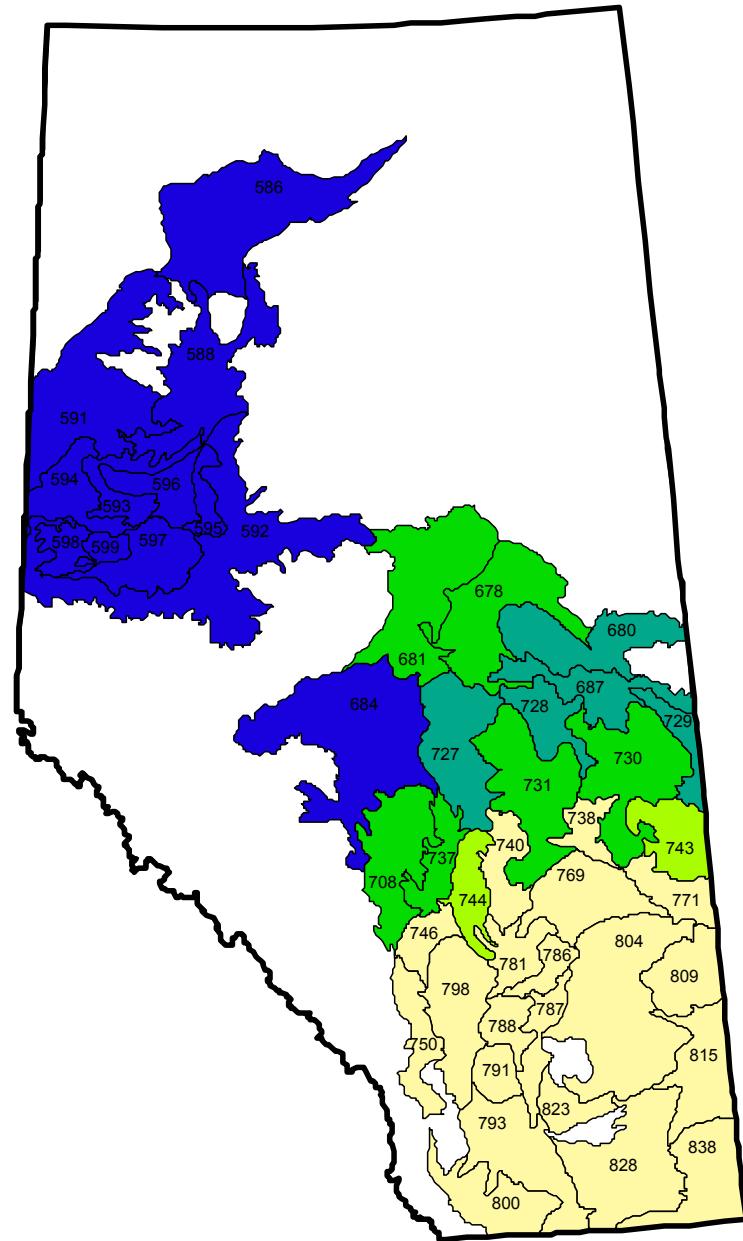
Dandelion



Relative Abundance Index

- | | |
|----------------|----------------|
| □ Not included | ■ 1.1 to 4 |
| ■ Absent | ■ 4.1 to 10 |
| ■ 0.1 to 1 | ■ More than 10 |

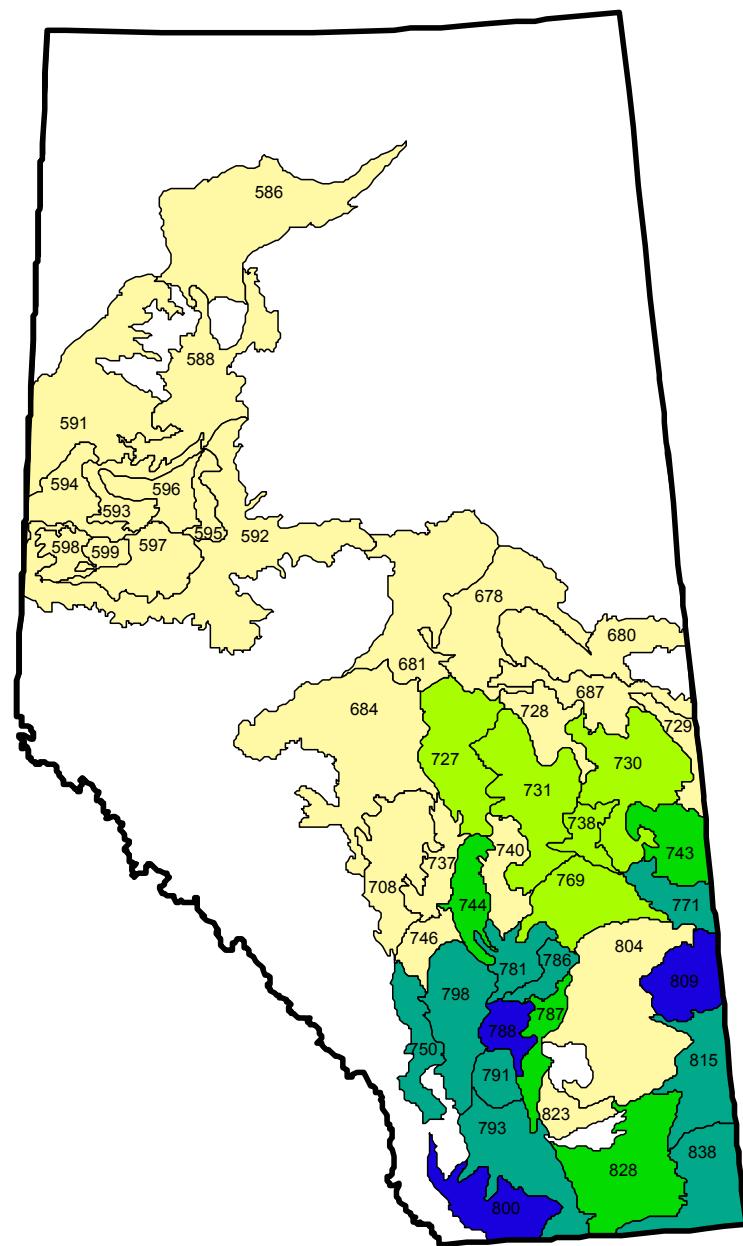
Field horsetail



Relative Abundance Index

- | | |
|---------------------------------------|---|
| <input type="checkbox"/> Not included | █ 1.1 to 4 |
| <input type="checkbox"/> Absent | █ 4.1 to 10 |
| <input type="checkbox"/> 0.1 to 1 | █ More than 10 |

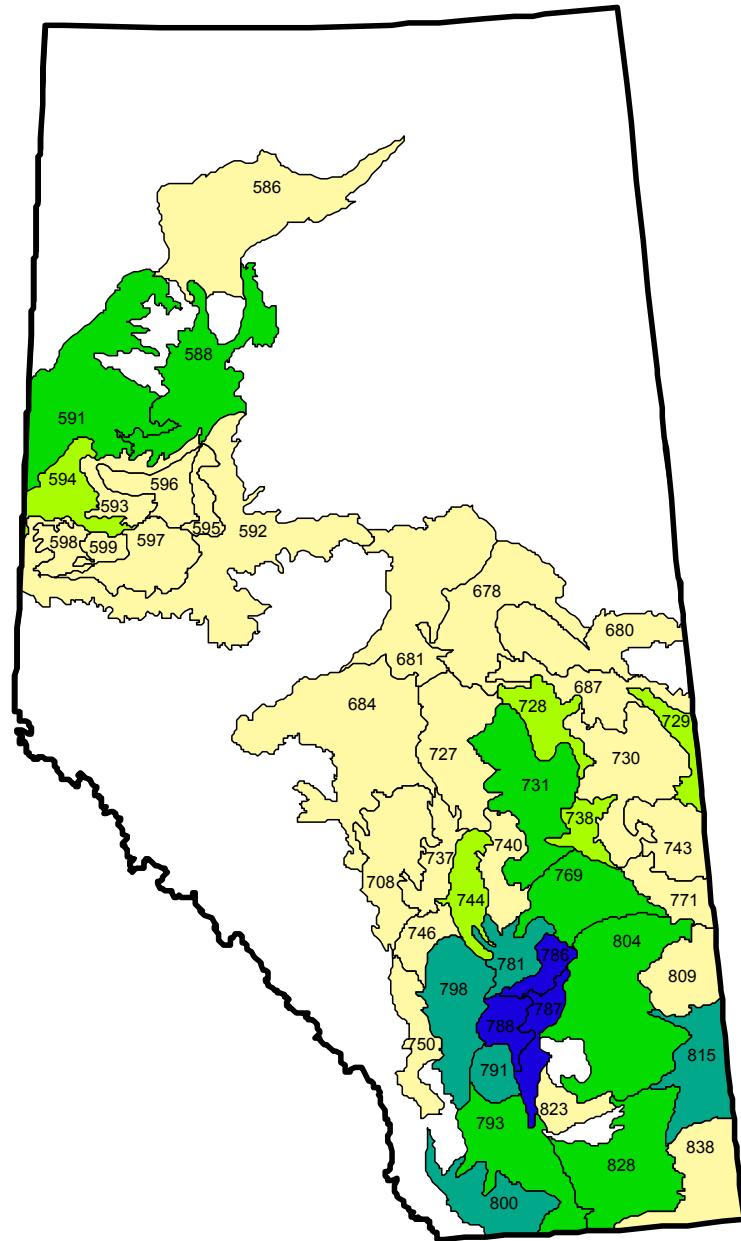
Flixweed



Relative Abundance Index

- Not included
- Absent
- 0.1 to 1
- 1.1 to 4
- 4.1 to 10
- More than 10

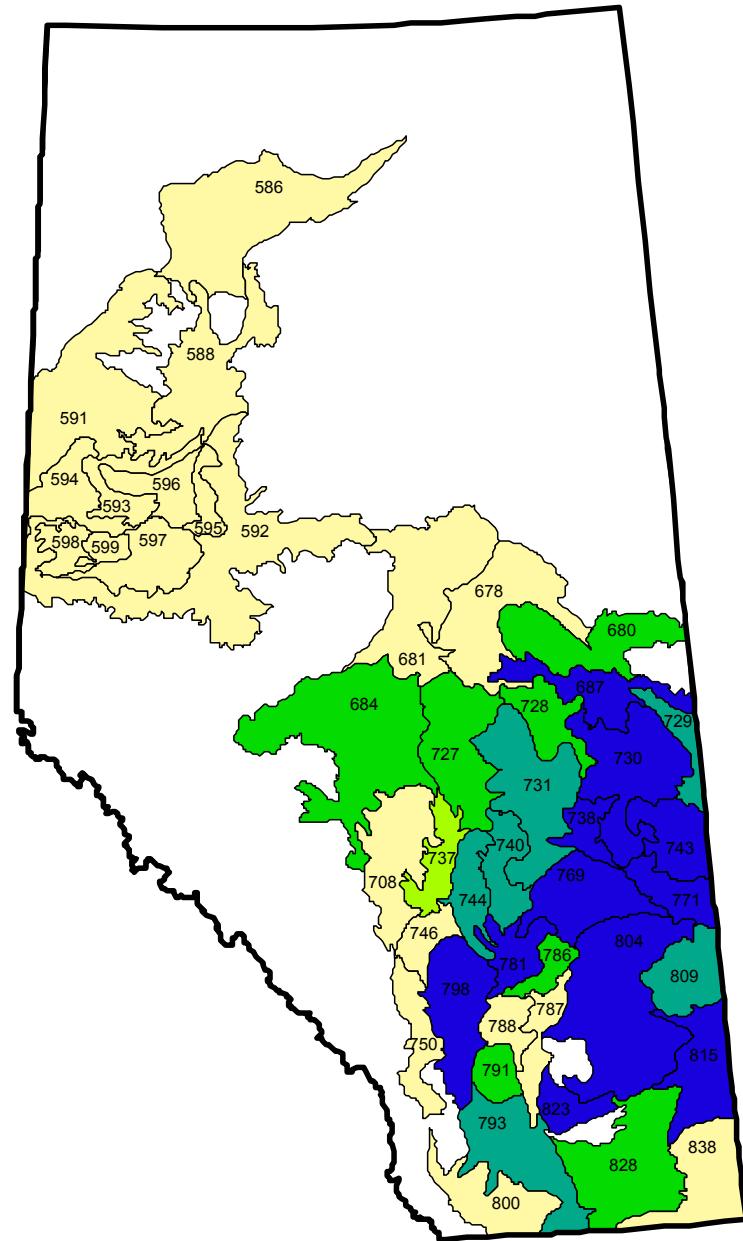
Foxtail barley



Relative Abundance Index

- Not included █ 1.1 to 4
- Absent █ 4.1 to 10
- 0.1 to 1 █ More than 10

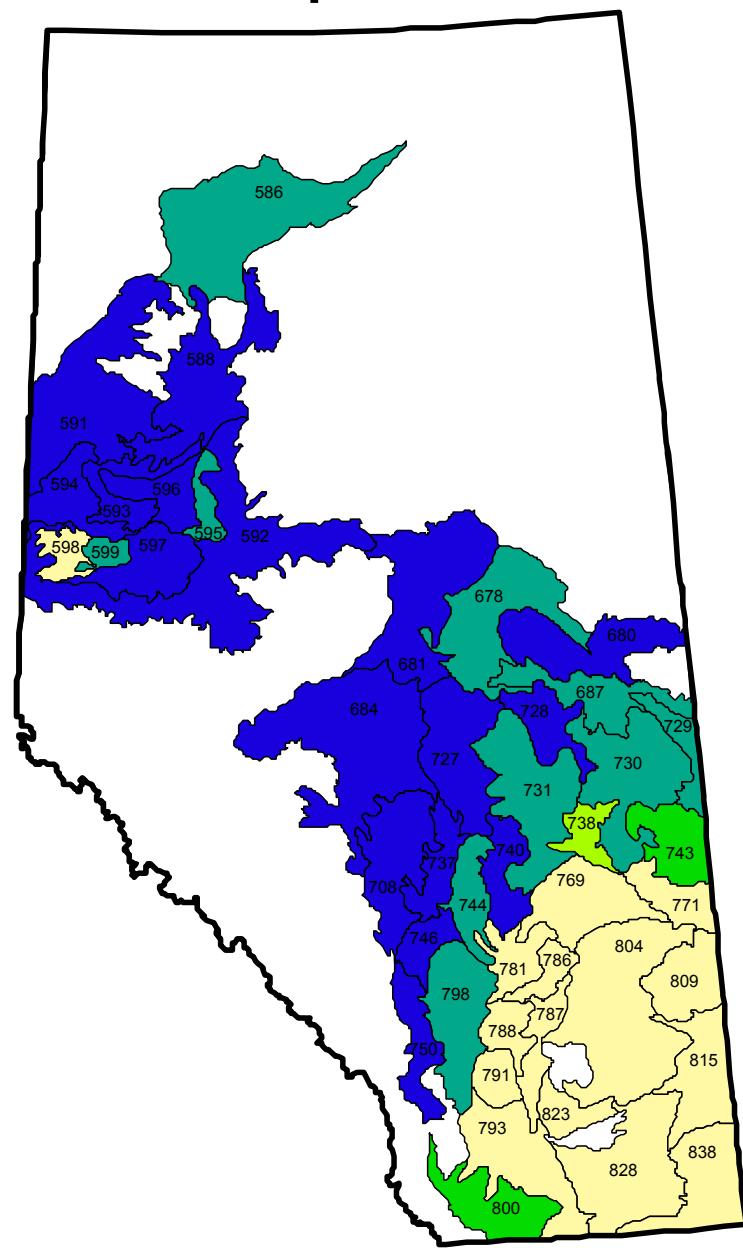
Green foxtail



Relative Abundance Index

- | | | | |
|--------------------------|--------------|--------------------------|--------------|
| <input type="checkbox"/> | Not included | <input type="checkbox"/> | 1.1 to 4 |
| <input type="checkbox"/> | Absent | <input type="checkbox"/> | 4.1 to 10 |
| <input type="checkbox"/> | 0.1 to 1 | <input type="checkbox"/> | More than 10 |

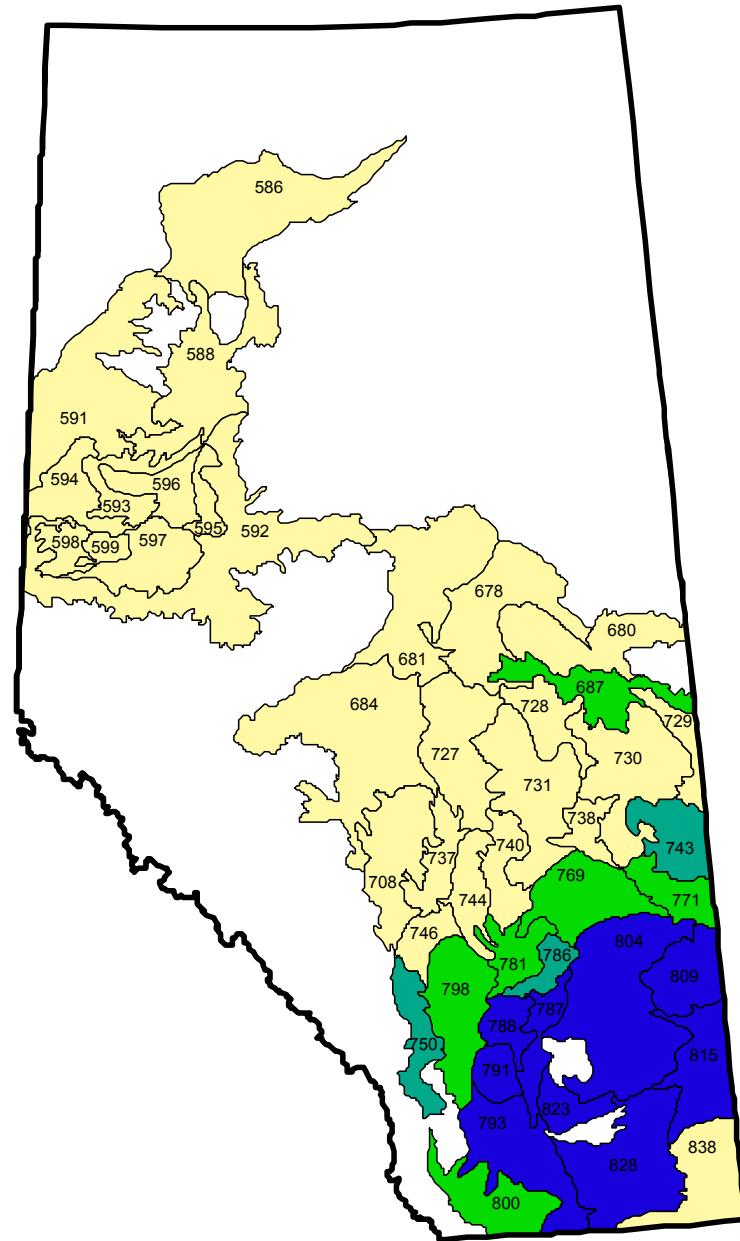
Hemp-nettle



Relative Abundance Index

- | | |
|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> Not included | <input type="checkbox"/> 1.1 to 4 |
| <input type="checkbox"/> Absent | <input type="checkbox"/> 4.1 to 10 |
| <input type="checkbox"/> 0.1 to 1 | <input type="checkbox"/> More than 10 |

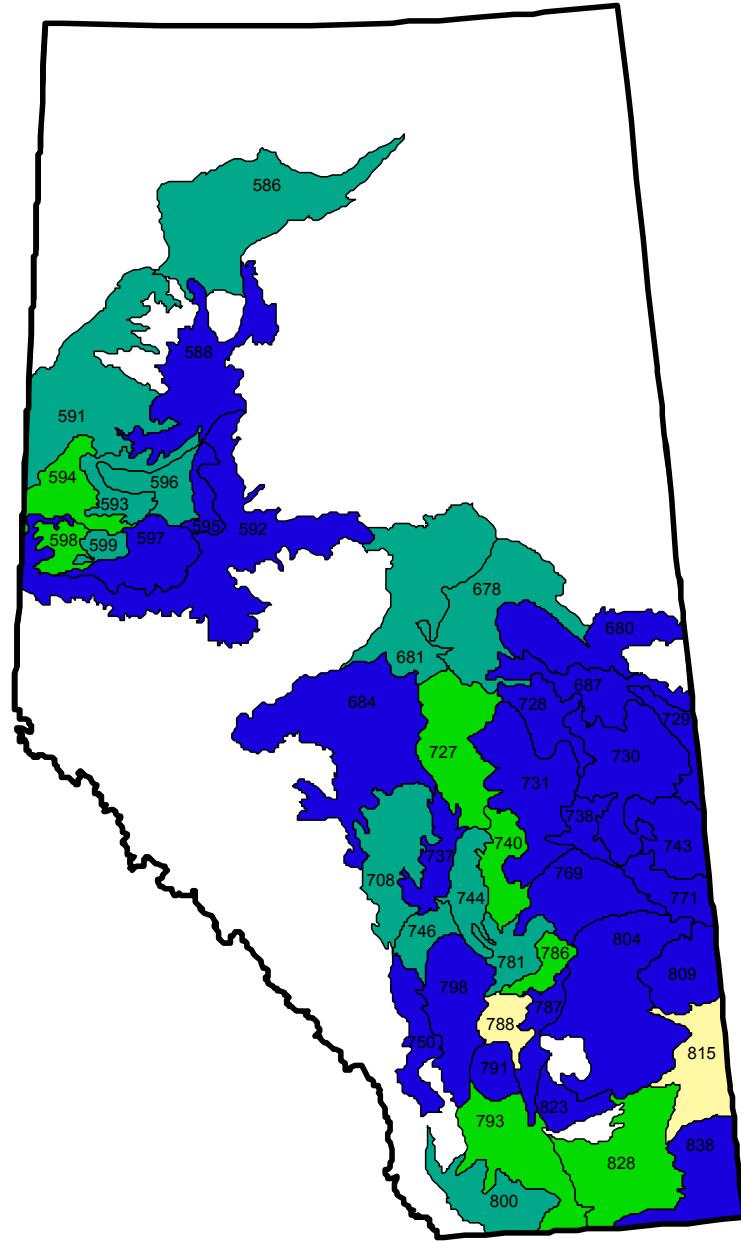
Kochia



Relative Abundance Index

- Not included
- Absent
- 0.1 to 1
- 1.1 to 4
- 4.1 to 10
- More than 10

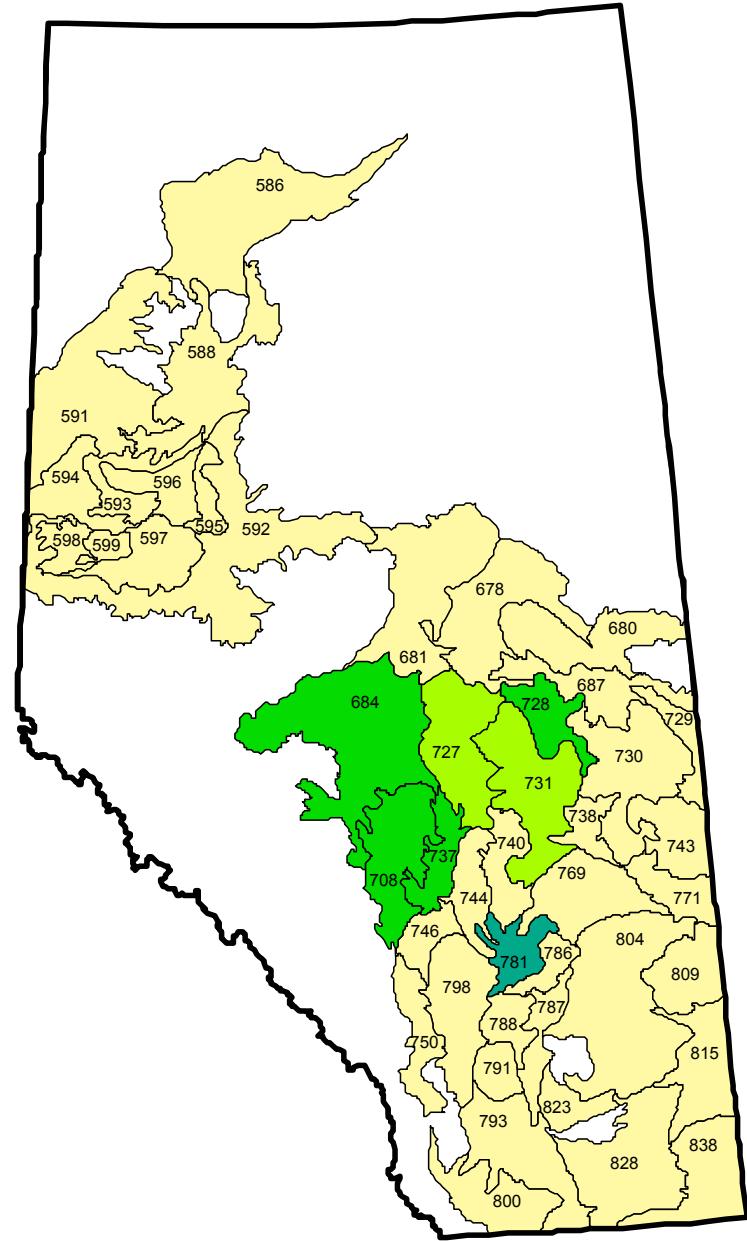
Lamb's-quarters



Relative Abundance Index

- Not included
- Absent
- 0.1 to 1
- 1.1 to 4
- 4.1 to 10
- More than 10

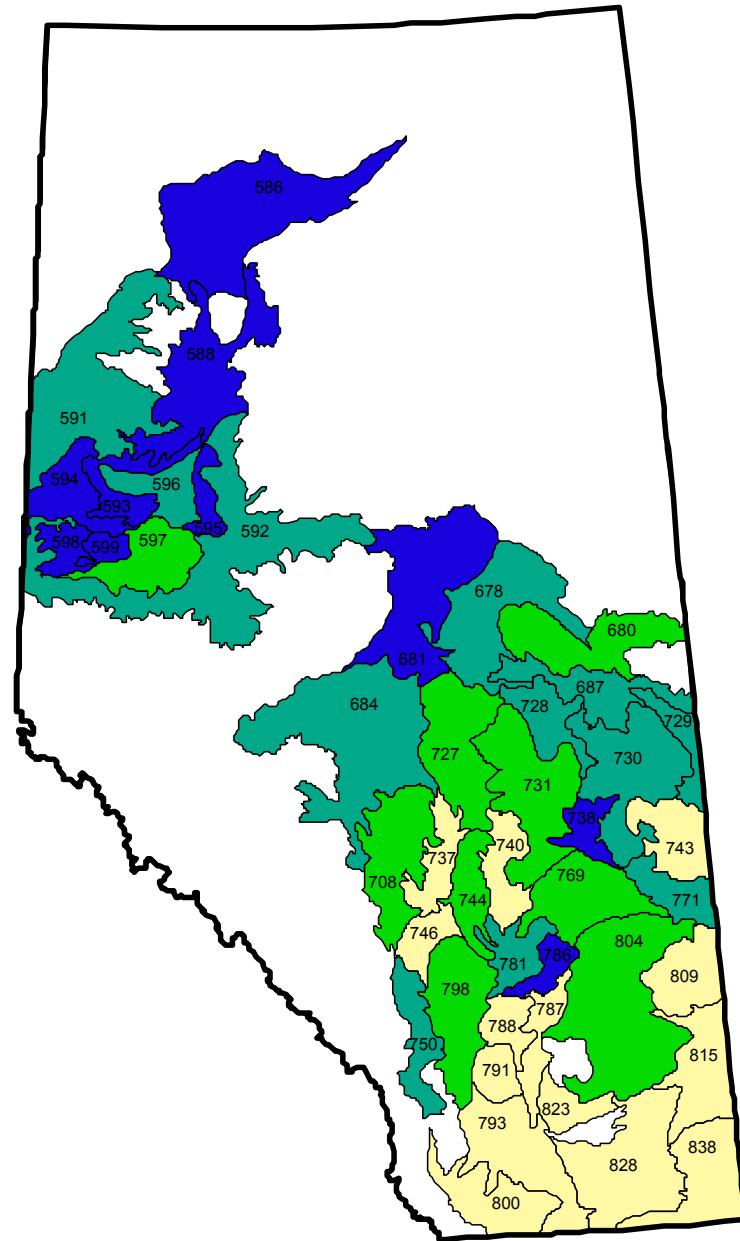
Night-flowering catchfly



Relative Abundance Index

- | | |
|---|--|
| <input type="checkbox"/> Not included | █ 1.1 to 4 |
| <input type="checkbox"/> Absent | █ 4.1 to 10 |
| █ 0.1 to 1 | █ More than 10 |

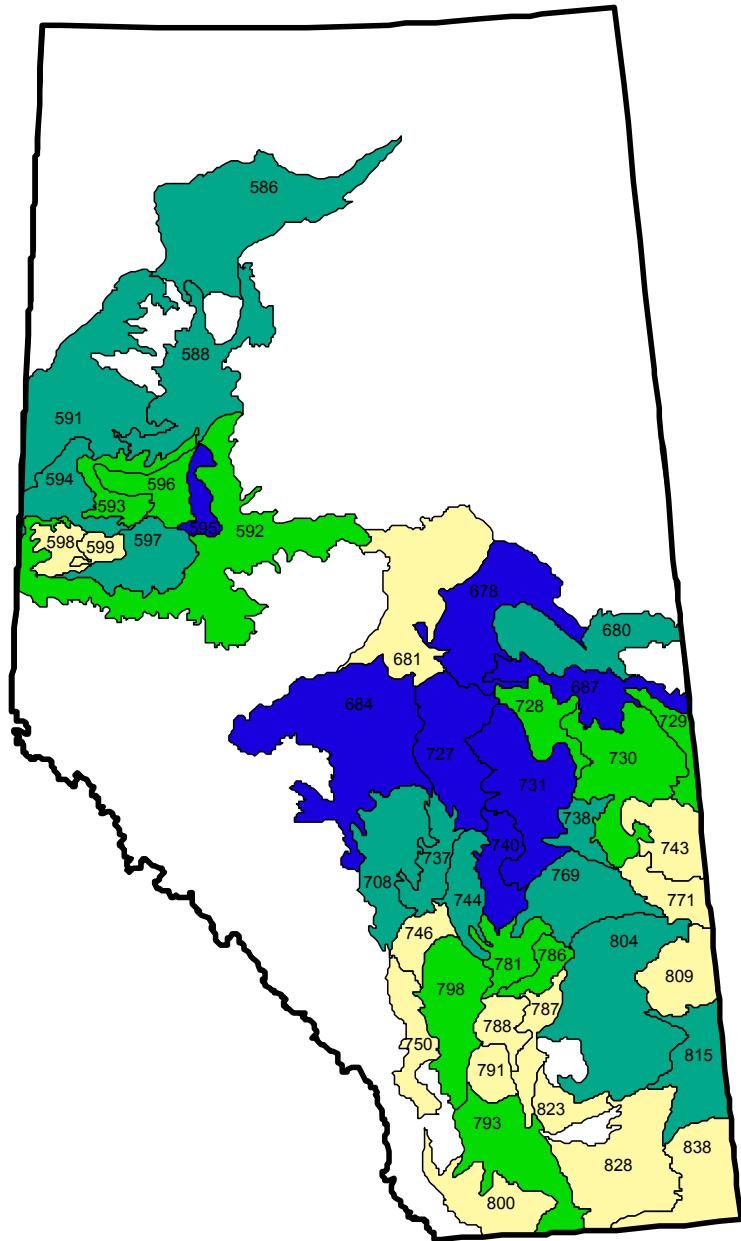
Narrow-leaved hawk's-beard



Relative Abundance Index

- | | |
|----------------|----------------|
| □ Not included | ■ 1.1 to 4 |
| ■ Absent | ■ 4.1 to 10 |
| ■ 0.1 to 1 | ■ More than 10 |

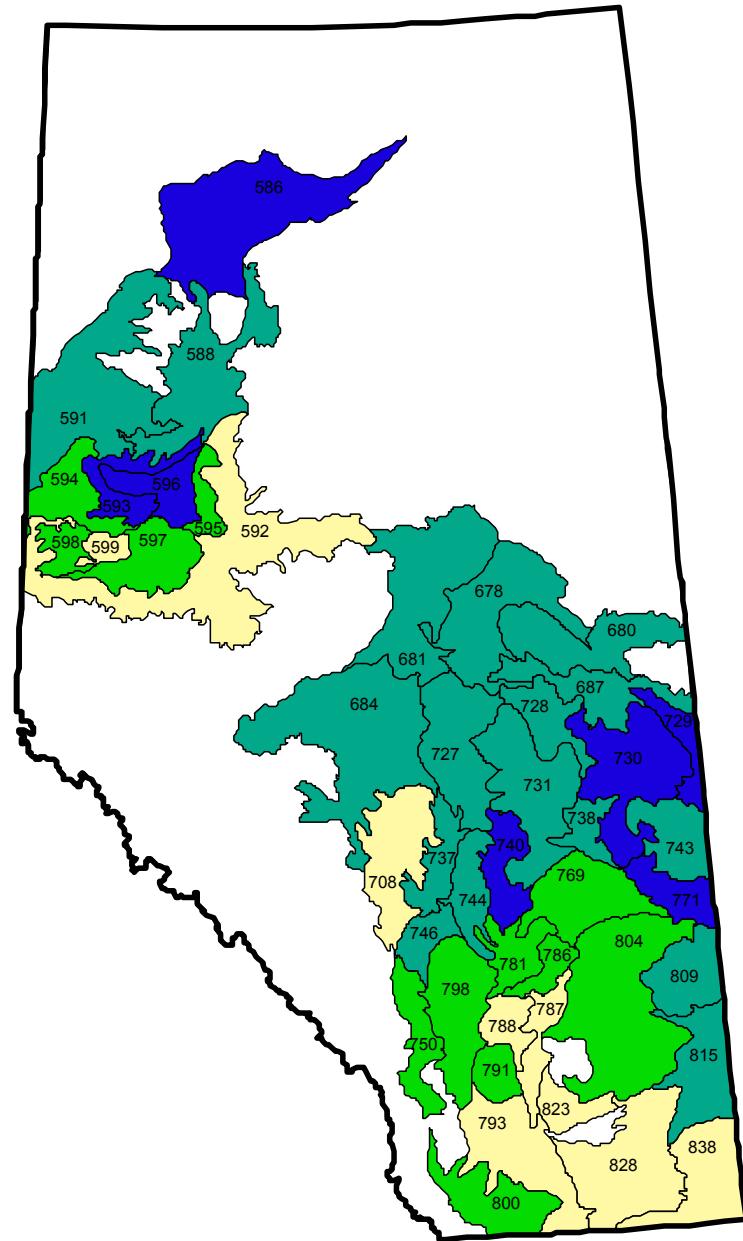
Pale smartweed



Relative Abundance Index

- Not included
- Absent
- 0.1 to 1
- 1.1 to 4
- 4.1 to 10
- More than 10

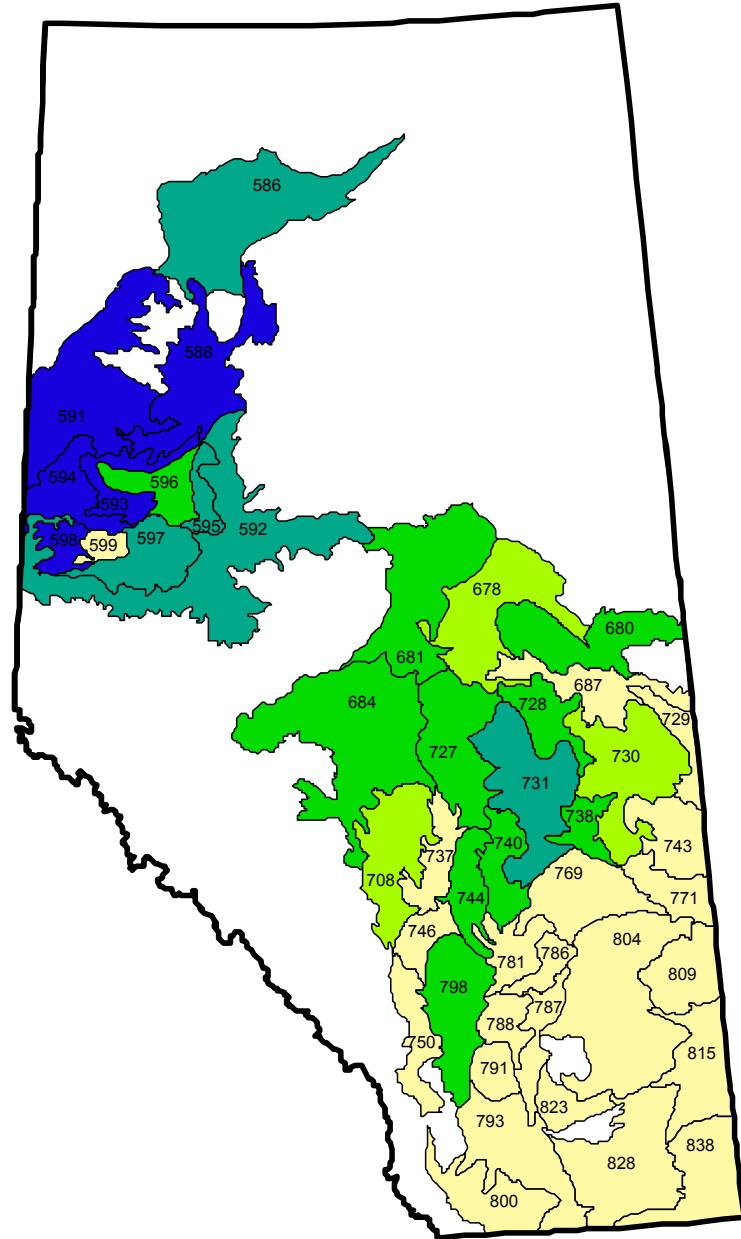
Perennial sow-thistle



Relative Abundance Index

- Not included
 - 1.1 to 4
 - 4.1 to 10
 - More than 10
- Absent
 - 0.1 to 1

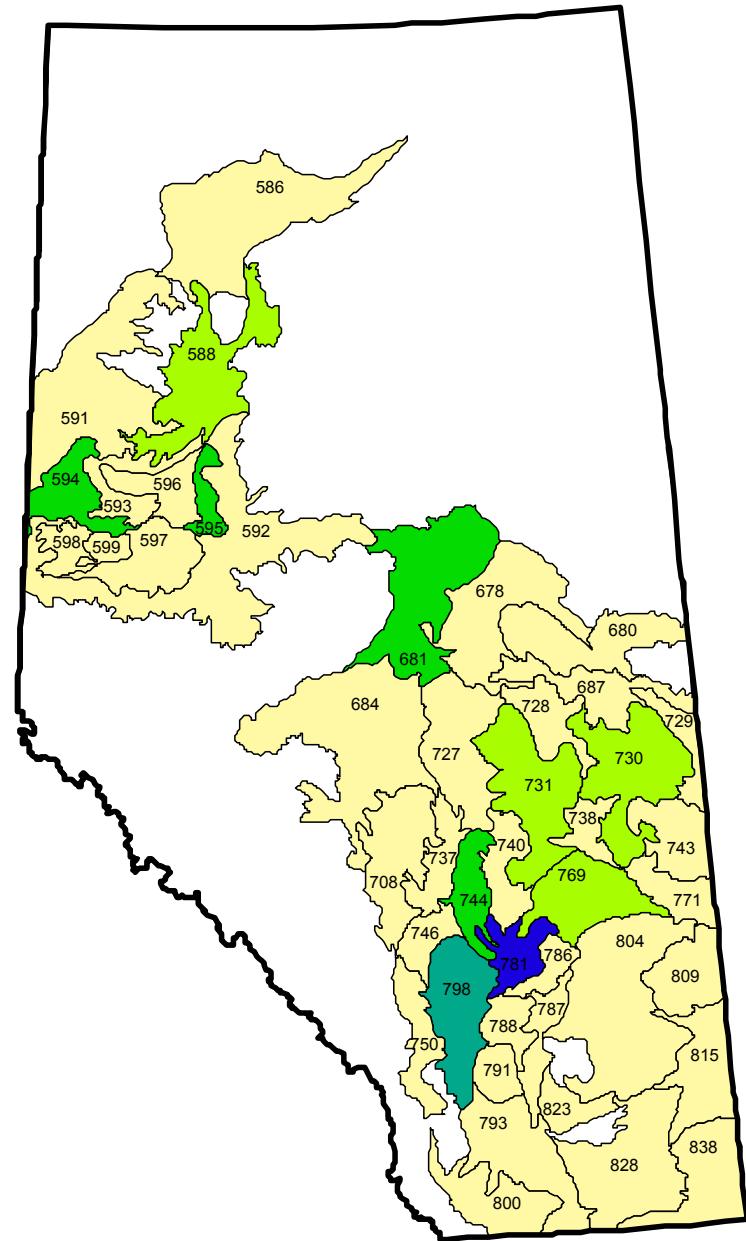
Pineappleweed



Relative Abundance Index

- Not included
- 1.1 to 4
- 4.1 to 10
- 0.1 to 1
- More than 10

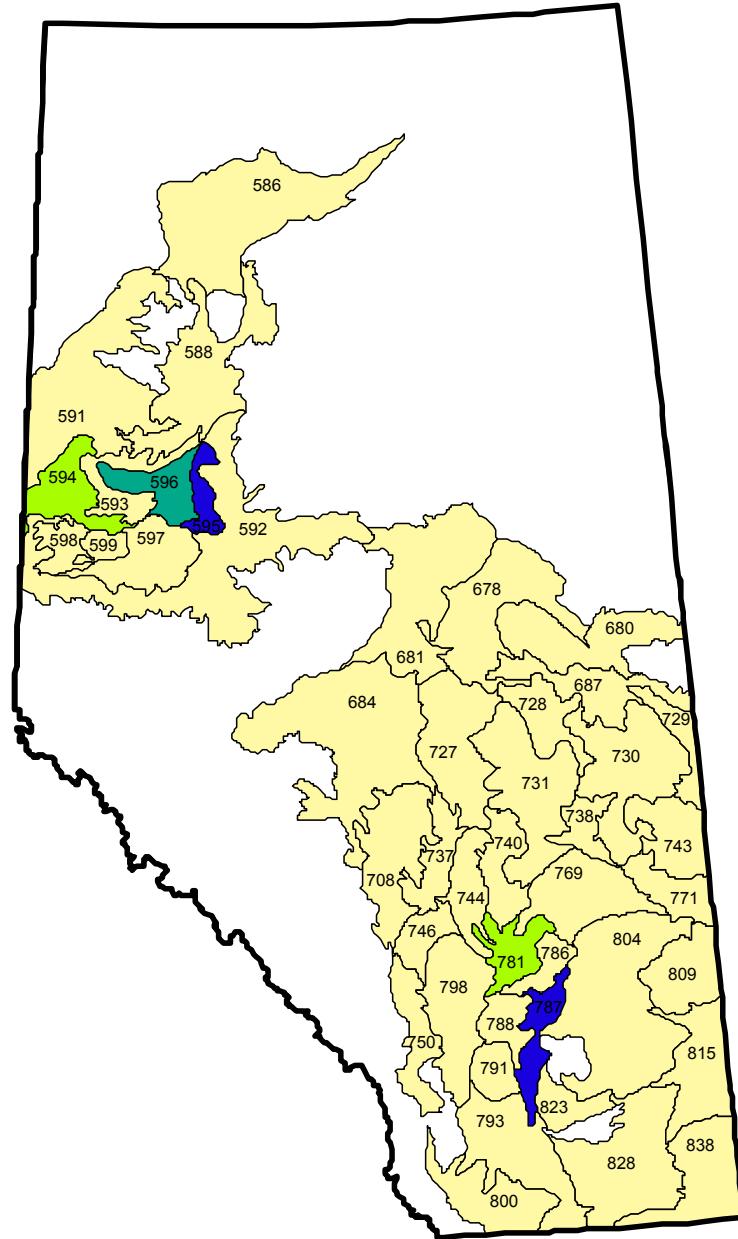
Prostrate knotweed



Relative Abundance Index

- Not included █ 1.1 to 4
- Absent █ 4.1 to 10
- 0.1 to 1 █ More than 10

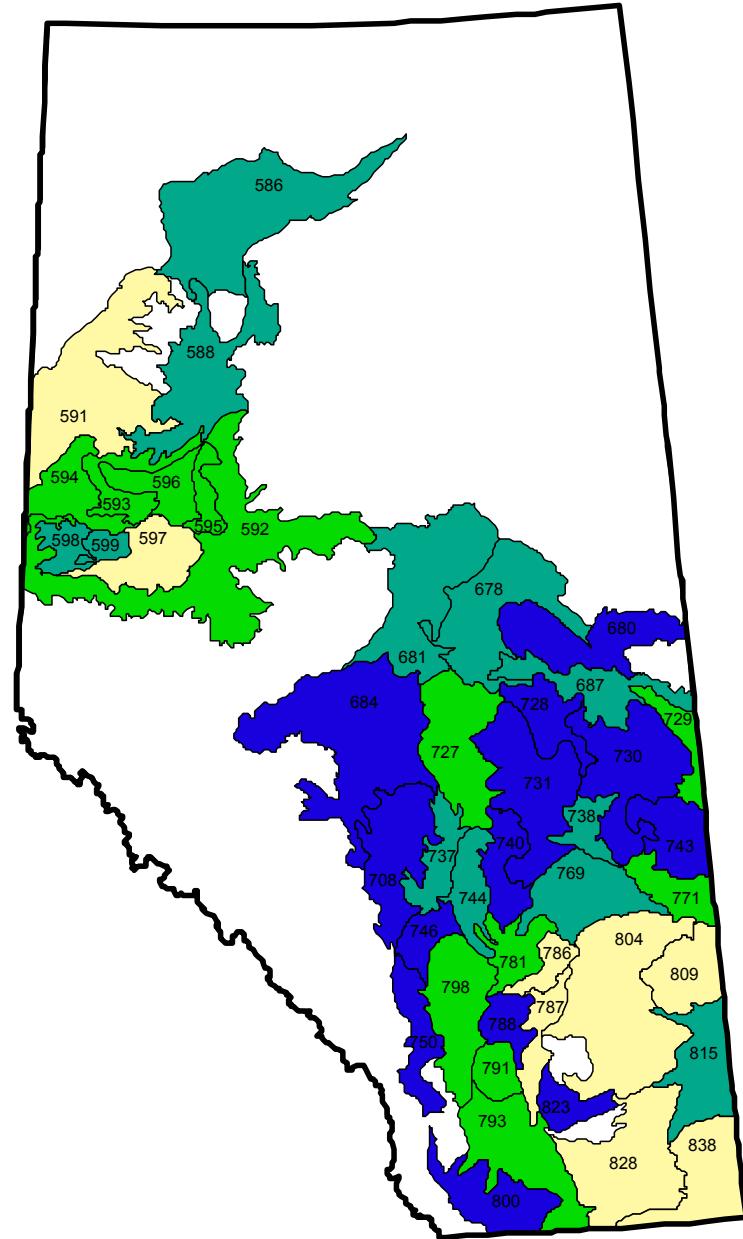
Prostrate pigweed



Relative Abundance Index

- | Relative Abundance Index | Color | States |
|--------------------------|-------------|--|
| Not included | White | N/A |
| Absent | Yellow | Most states |
| 0.1 to 1 | Light Green | Northwest (e.g., Sonora, Chihuahua) |
| 4.1 to 10 | Teal | North (e.g., Coahuila, Nuevo Leon) |
| More than 10 | Dark Blue | Central (e.g., Tamaulipas, San Luis Potosi) and Southern (e.g., Veracruz, Puebla, Oaxaca, Chiapas) regions |

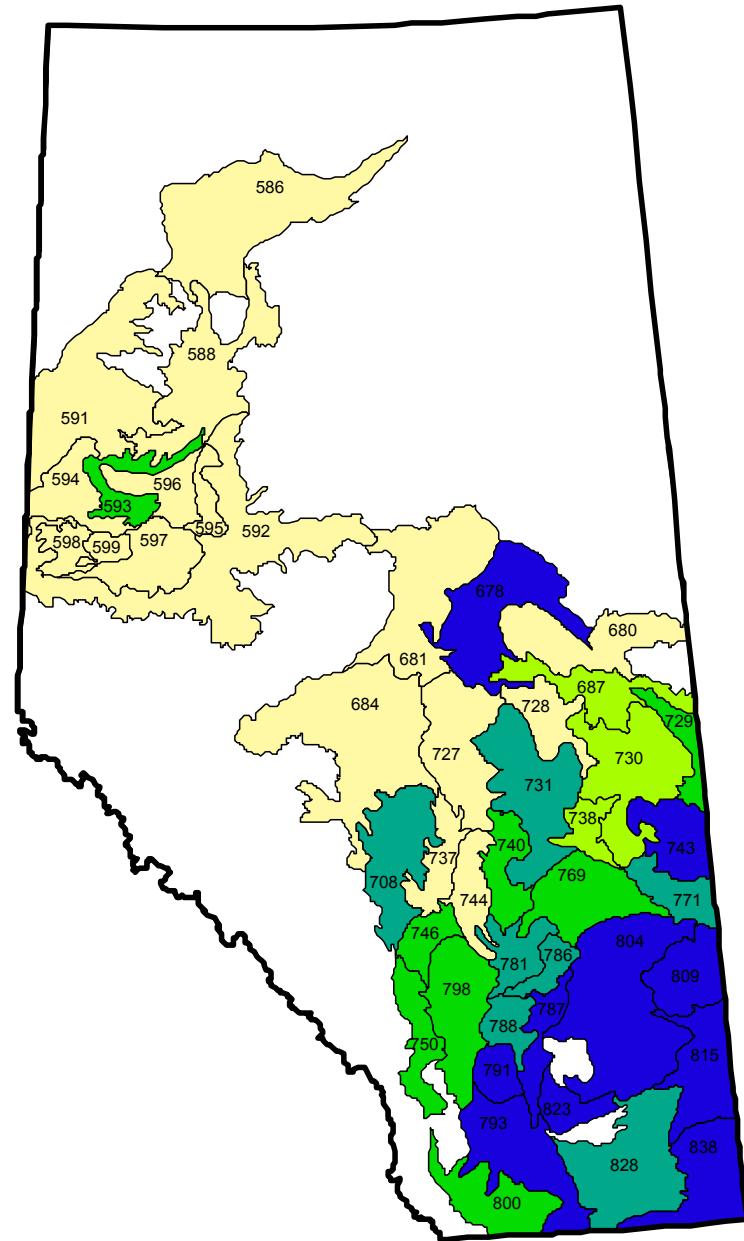
Quack grass



Relative Abundance Index

- Not included
- 1.1 to 4
- Absent
- 4.1 to 10
- 0.1 to 1
- More than 10

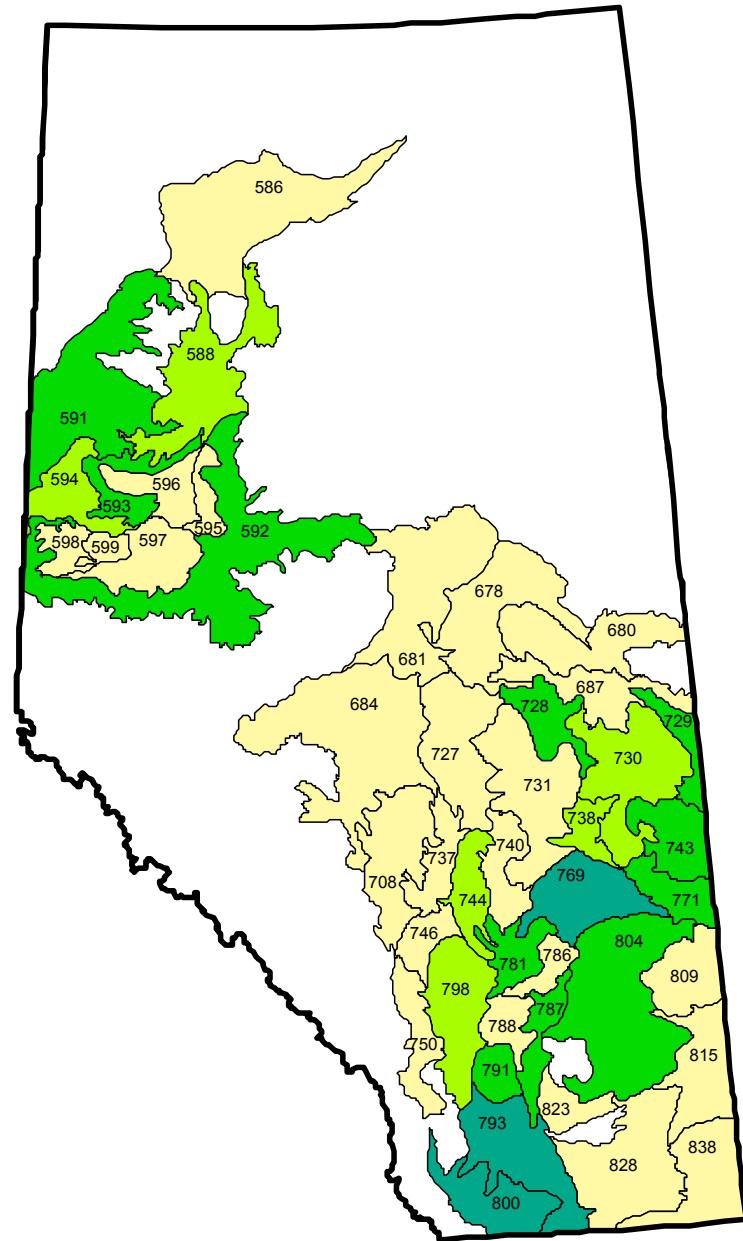
Redroot pigweed



Relative Abundance Index

- | | | | |
|--------------------------|--------------|--------------------------|--------------|
| <input type="checkbox"/> | Not included | <input type="checkbox"/> | 1.1 to 4 |
| <input type="checkbox"/> | Absent | <input type="checkbox"/> | 4.1 to 10 |
| <input type="checkbox"/> | 0.1 to 1 | <input type="checkbox"/> | More than 10 |

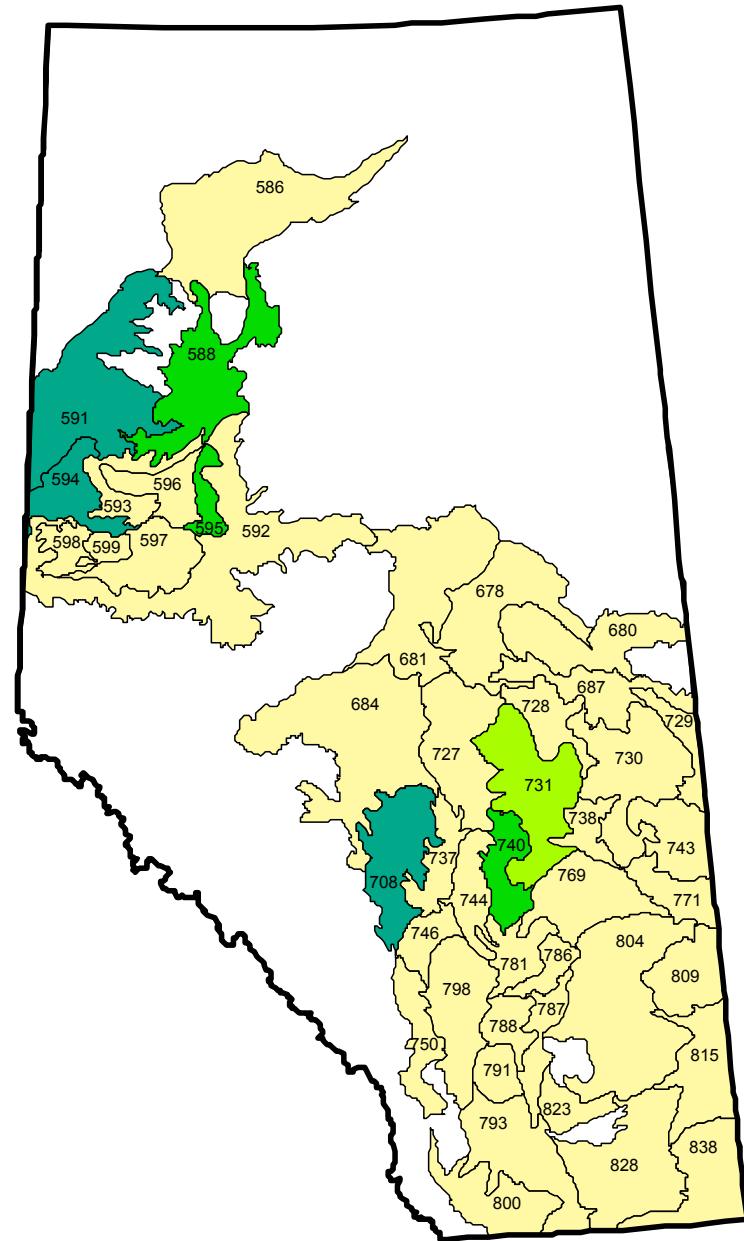
Rose species



Relative Abundance Index

- Not included
- 1.1 to 4
- Absent
- 4.1 to 10
- 0.1 to 1
- More than 10

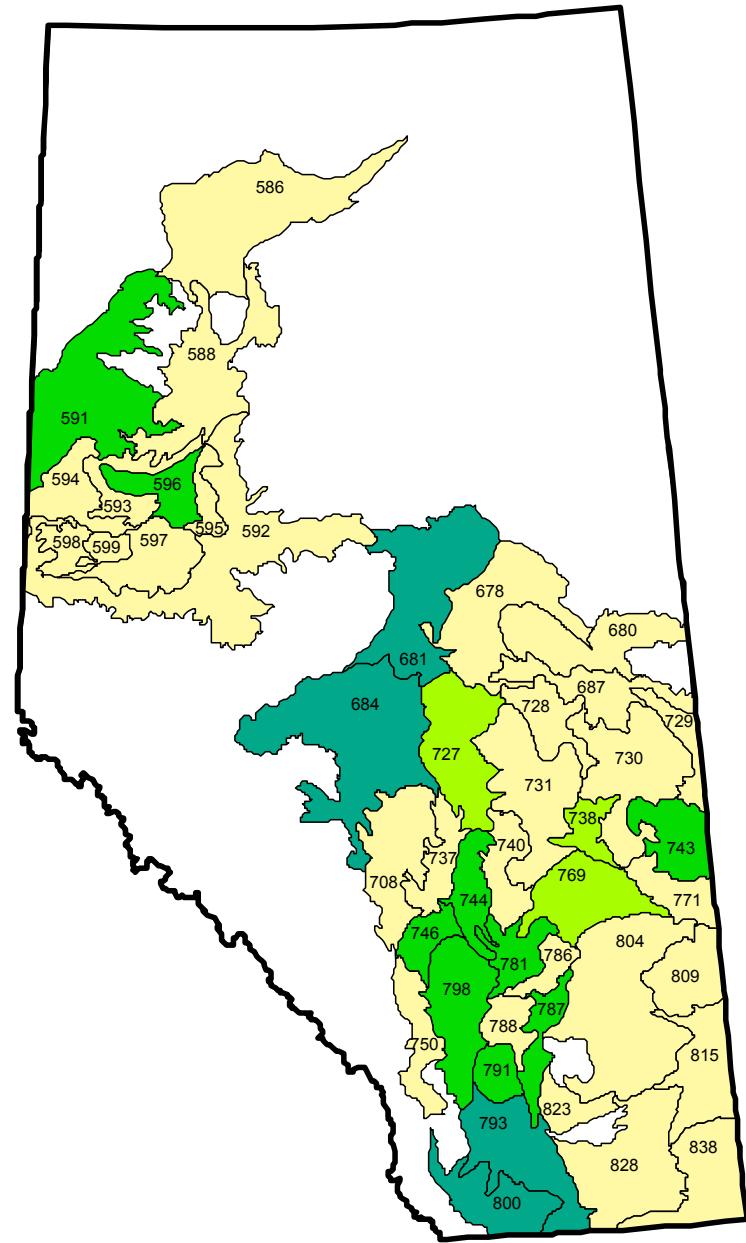
Rough cinquefoil



Relative Abundance Index

- | | |
|----------------|----------------|
| □ Not included | ■ 1.1 to 4 |
| ■ Absent | ■ 4.1 to 10 |
| ■ 0.1 to 1 | ■ More than 10 |

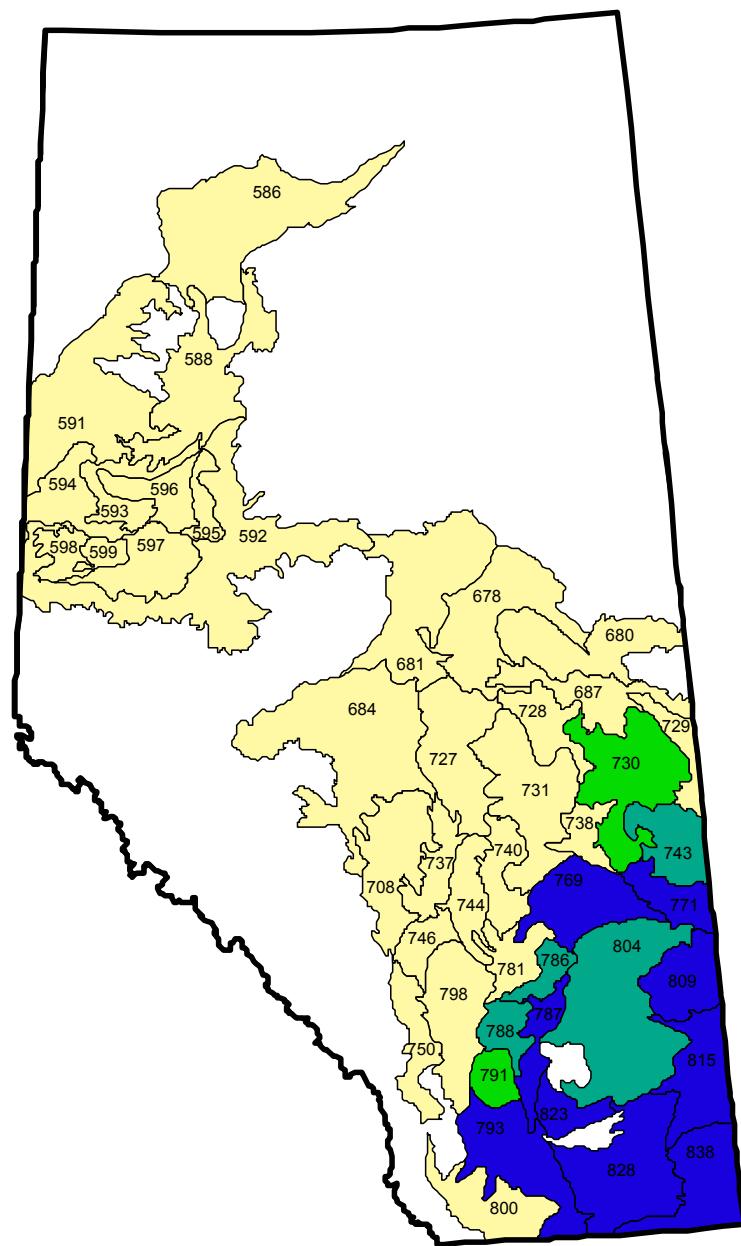
Round-leaved mallow



Relative Abundance Index

- Not included
- 1.1 to 4
- Absent
- 0.1 to 1
- 4.1 to 10
- More than 10

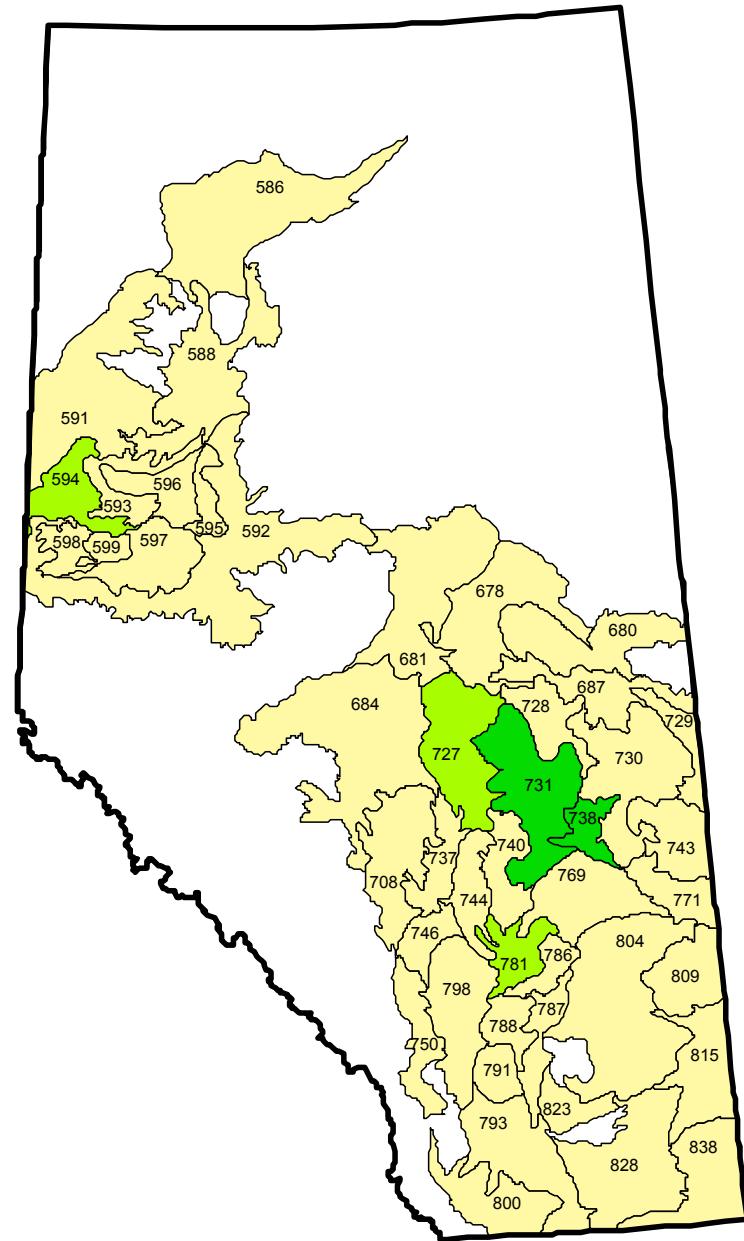
Russian thistle



Relative Abundance Index

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> Not included | █ 1.1 to 4 |
| <input type="checkbox"/> Absent | █ 4.1 to 10 |
| <input type="checkbox"/> 0.1 to 1 | █ More than 10 |

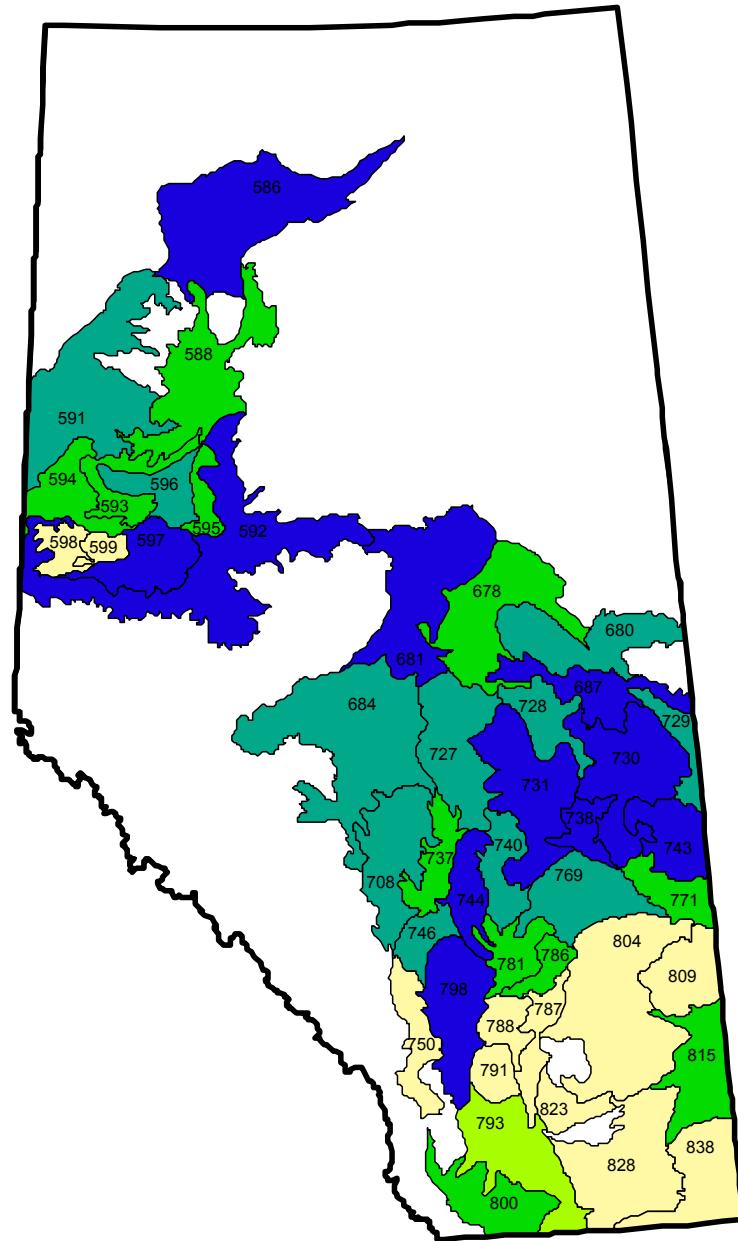
Scentless chamomile



Relative Abundance Index

- | | |
|---|--|
| <input type="checkbox"/> Not included | █ 1.1 to 4 |
| <input type="checkbox"/> Absent | █ 4.1 to 10 |
| █ 0.1 to 1 | █ More than 10 |

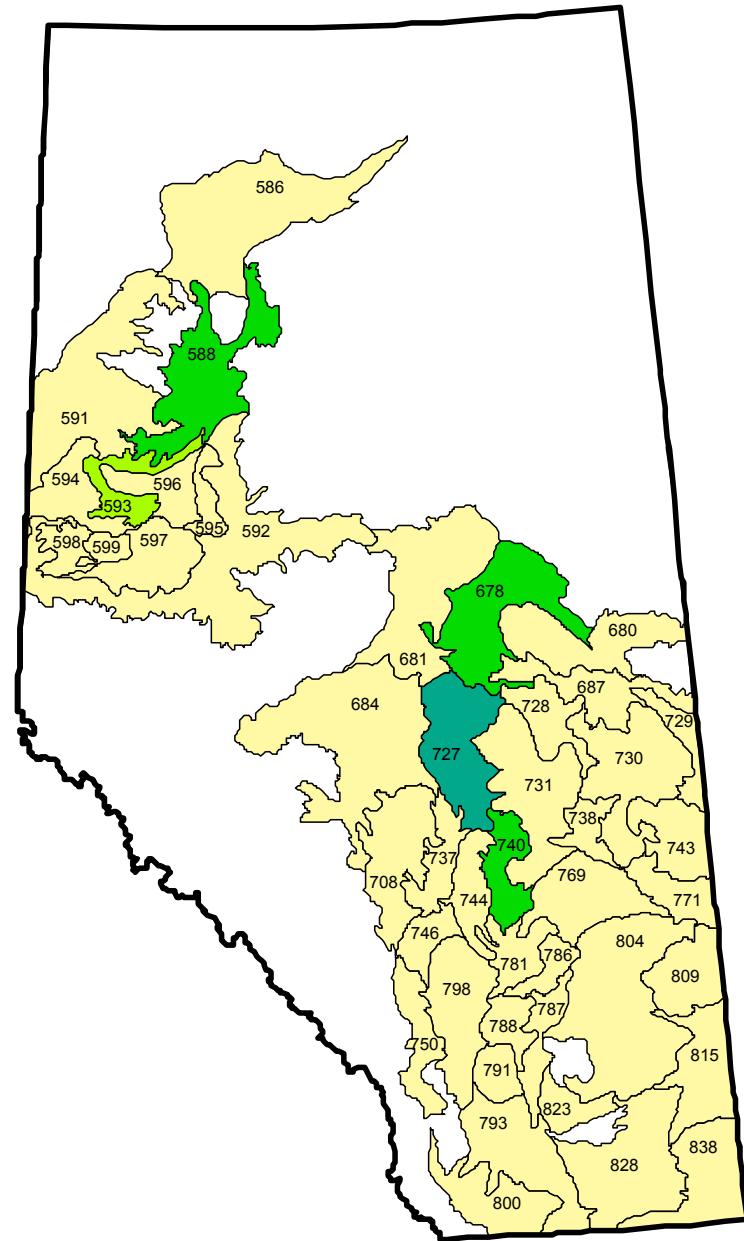
Shepherd's-purse



Relative Abundance Index

- Not included
- 1.1 to 4
- Absent
- 4.1 to 10
- 0.1 to 1
- More than 10

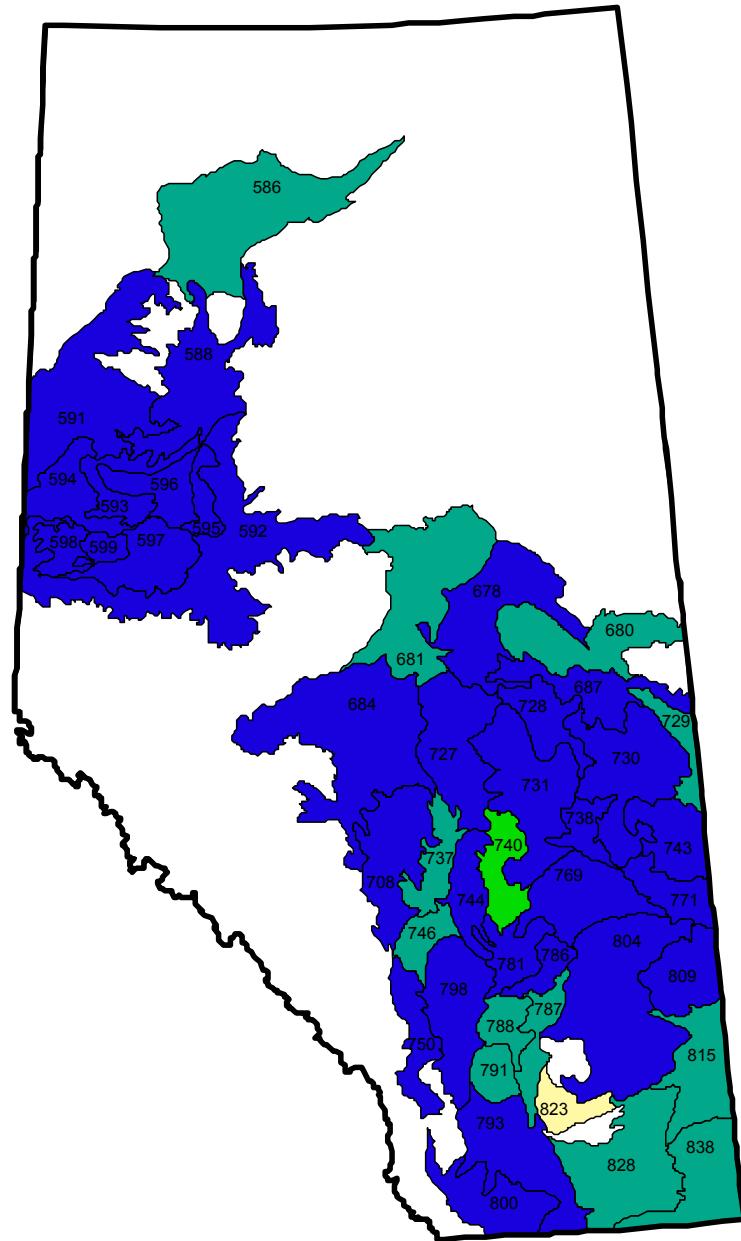
Spiny annual sow-thistle



Relative Abundance Index

- | | |
|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> Not included | <input type="checkbox"/> 1.1 to 4 |
| <input type="checkbox"/> Absent | <input type="checkbox"/> 4.1 to 10 |
| <input type="checkbox"/> 0.1 to 1 | <input type="checkbox"/> More than 10 |

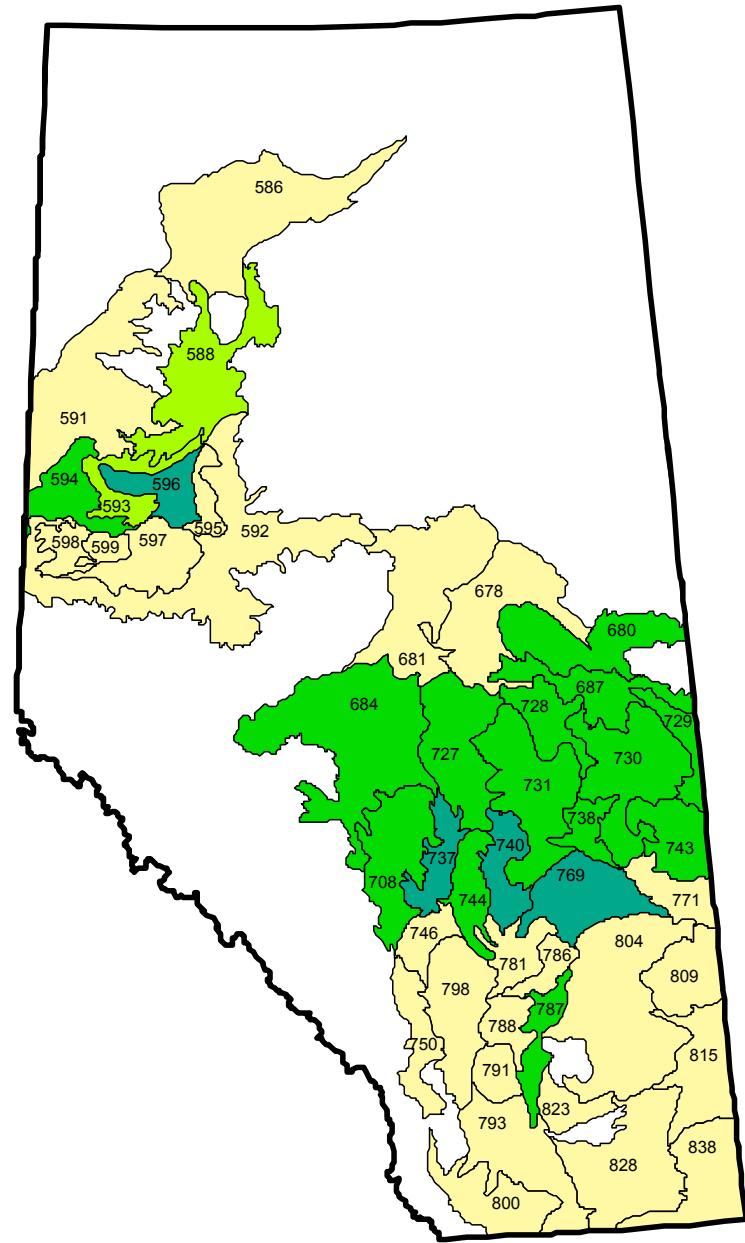
Stinkweed



Relative Abundance Index

- Not included
- 1.1 to 4
- Absent
- 0.1 to 1
- 4.1 to 10
- More than 10

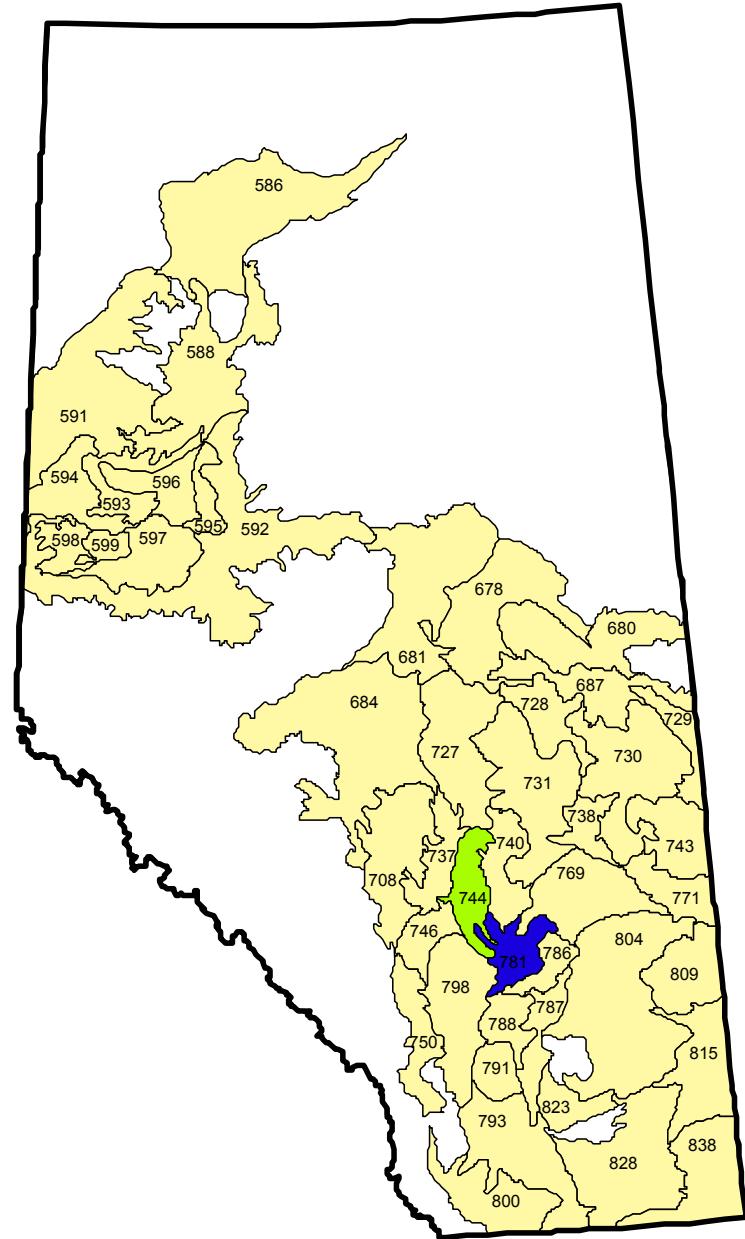
Stork's-bill



Relative Abundance Index

- | | |
|---|--|
| <input type="checkbox"/> Not included | █ 1.1 to 4 |
| <input type="checkbox"/> Absent | █ 4.1 to 10 |
| █ 0.1 to 1 | █ More than 10 |

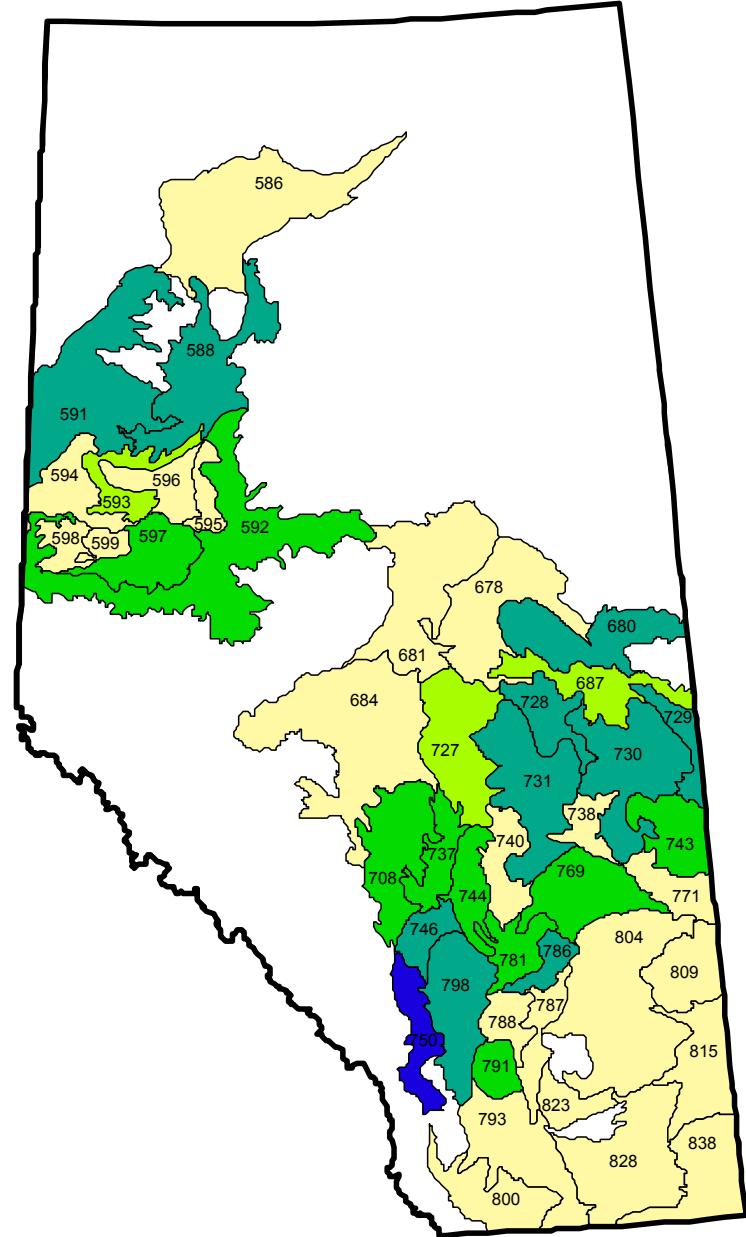
Thyme-leaved spurge



Relative Abundance Index

- | | |
|---|--|
| <input type="checkbox"/> Not included | █ 1.1 to 4 |
| <input type="checkbox"/> Absent | █ 4.1 to 10 |
| █ 0.1 to 1 | █ More than 10 |

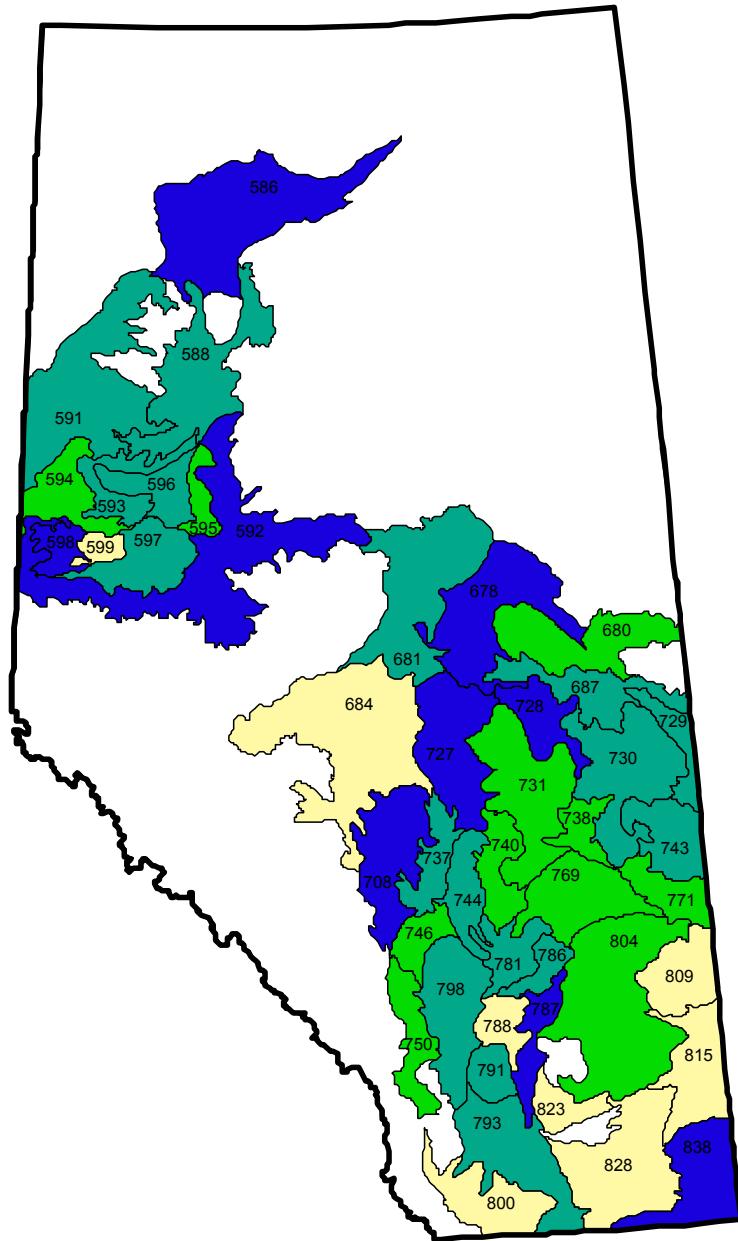
Volunteer barley



Relative Abundance Index

- Not included
- 1.1 to 4
- Absent
- 4.1 to 10
- 0.1 to 1
- More than 10

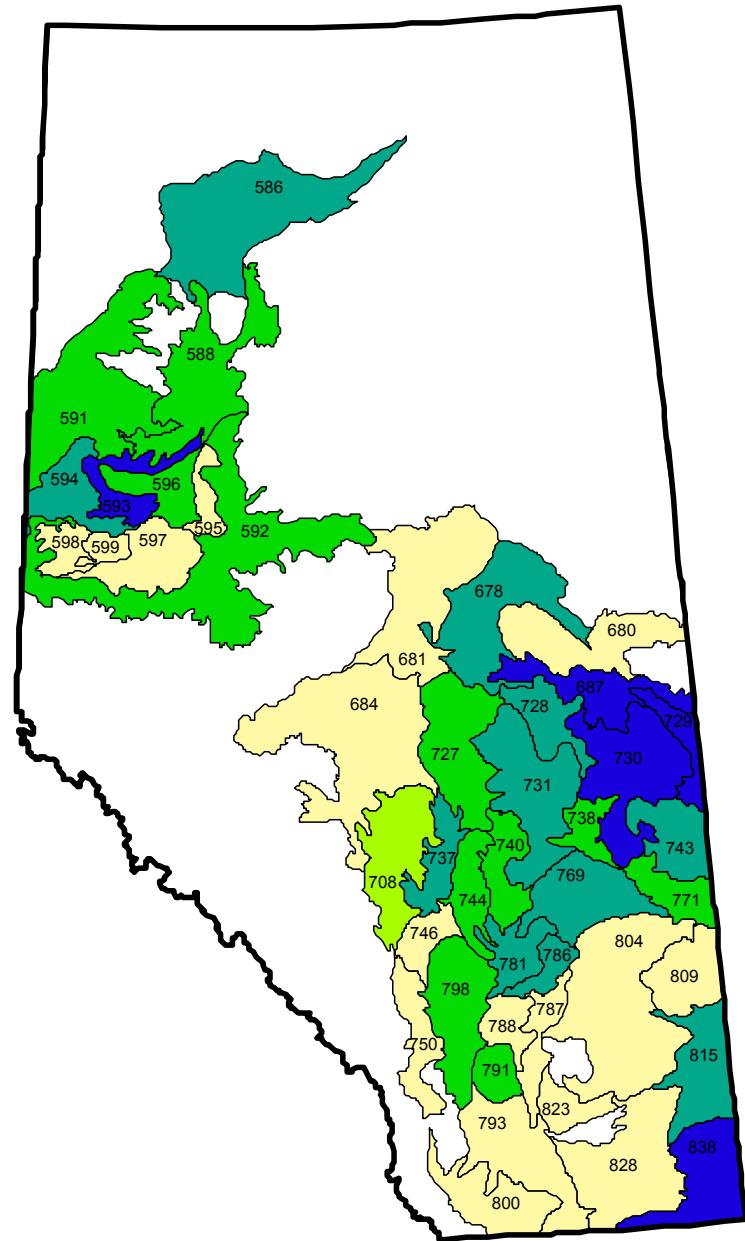
Volunteer canola



Relative Abundance Index

- Not included
 - 1.1 to 4
 - 4.1 to 10
 - More than 10
- Absent
 - 0.1 to 1

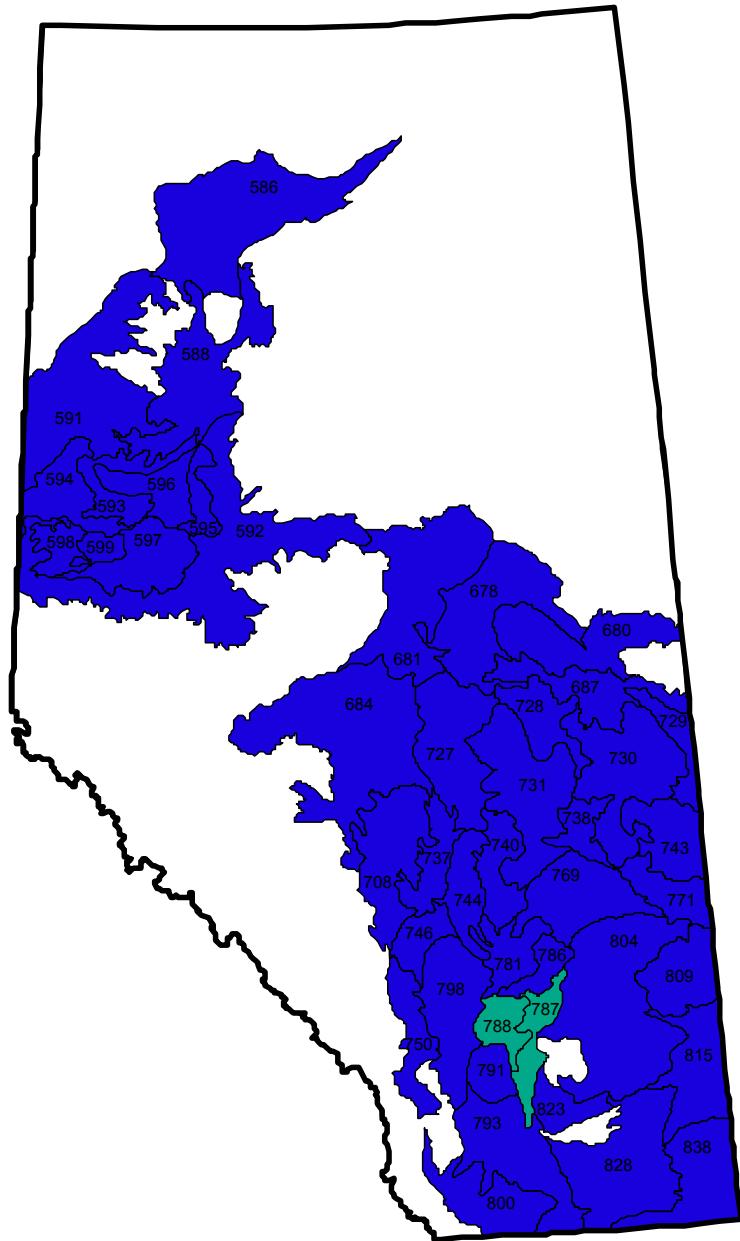
Volunteer wheat



Relative Abundance Index

- Not included
- 1.1 to 4
- Absent
- 4.1 to 10
- 0.1 to 1
- More than 10

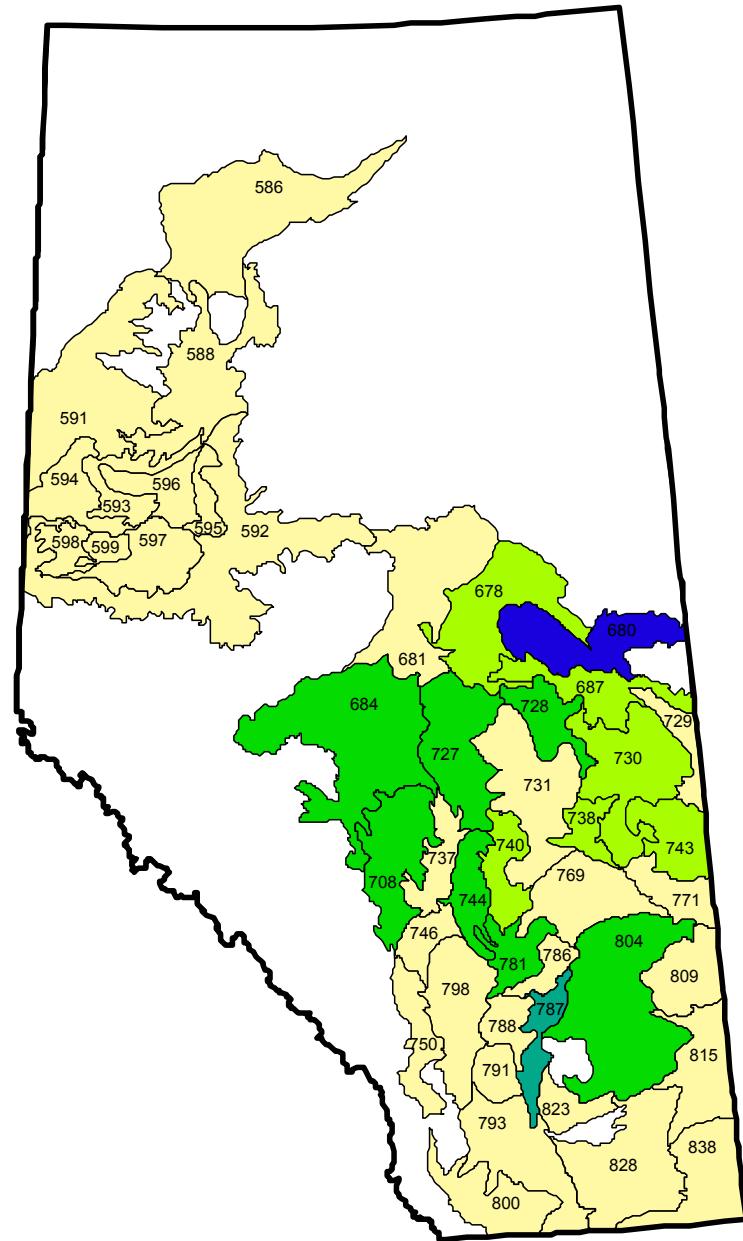
Wild buckwheat



Relative Abundance Index

- Not included
- Absent
- 0.1 to 1
- 1.1 to 4
- 4.1 to 10
- More than 10

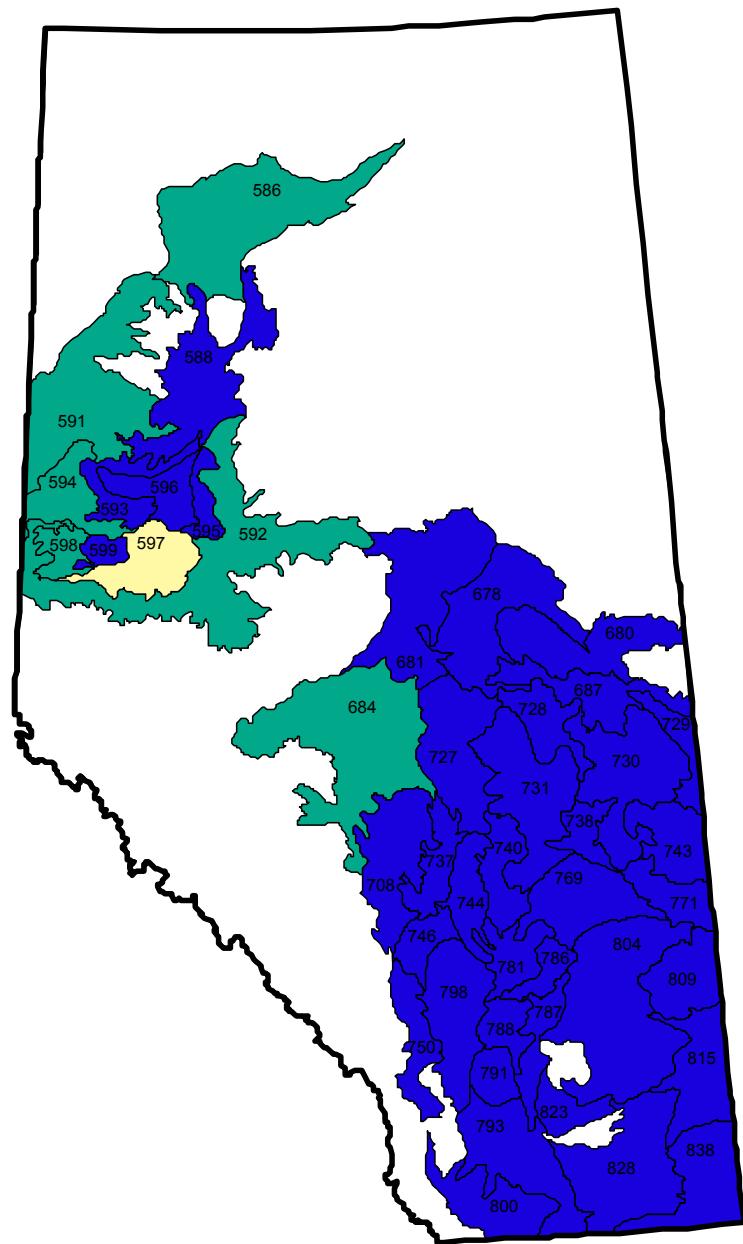
Wild mustard



Relative Abundance Index

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> Not included | █ 1.1 to 4 |
| <input type="checkbox"/> Absent | █ 4.1 to 10 |
| <input type="checkbox"/> 0.1 to 1 | █ More than 10 |

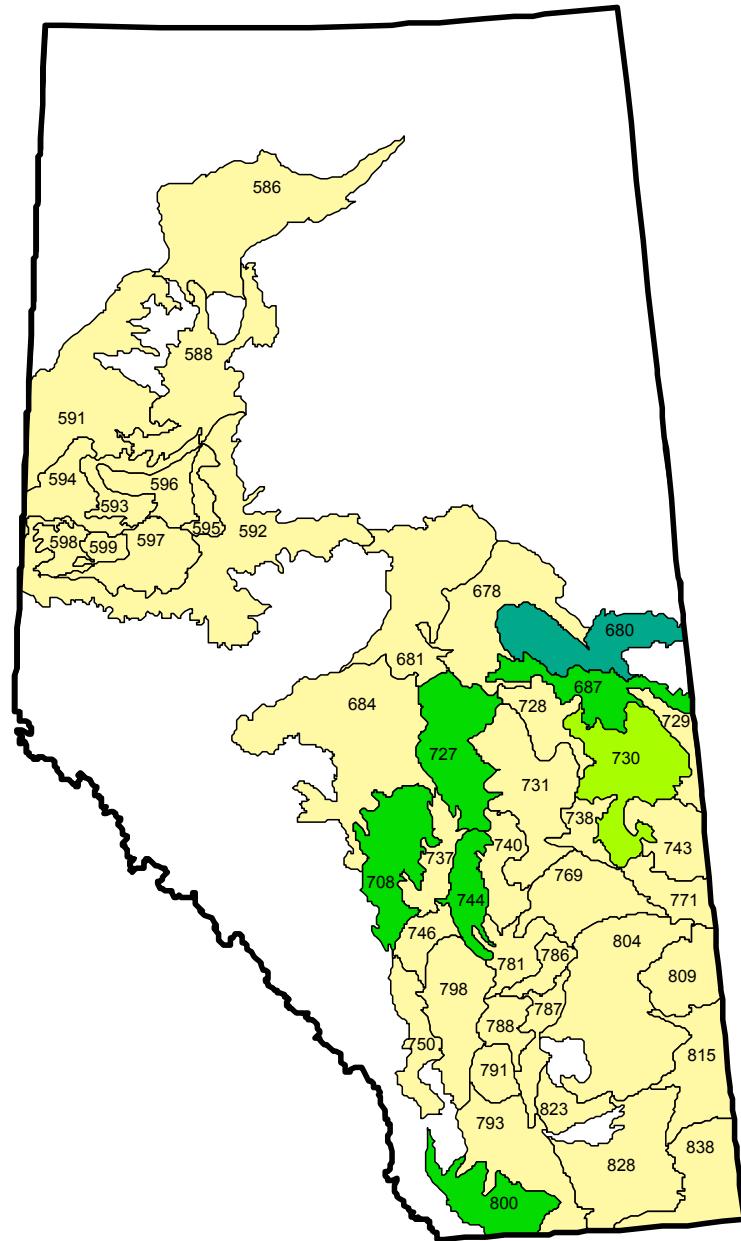
Wild oats



Relative Abundance Index

- Not included ■ 1.1 to 4
- Absent ■ 4.1 to 10
- 0.1 to 1 ■ More than 10

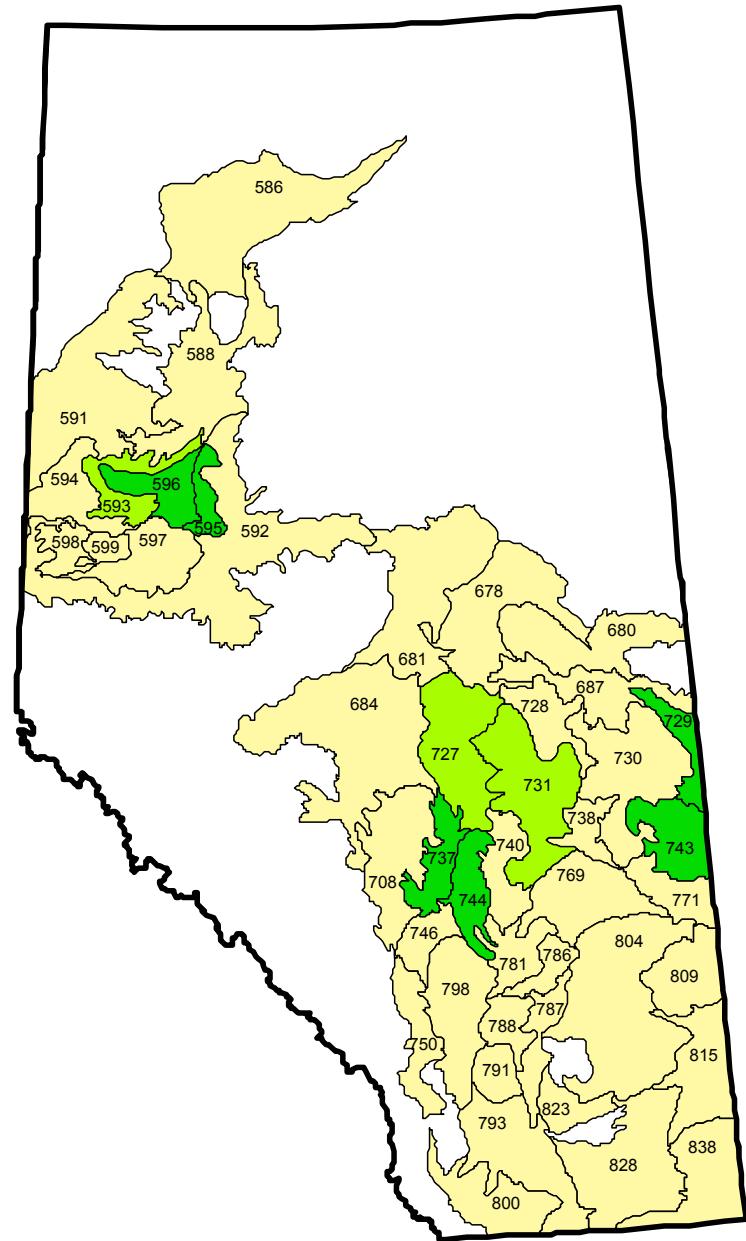
White cockle



Relative Abundance Index

- | | |
|---------------------------------------|---------------------------------------|
| <input type="checkbox"/> Not included | <input type="checkbox"/> 1.1 to 4 |
| <input type="checkbox"/> Absent | <input type="checkbox"/> 4.1 to 10 |
| <input type="checkbox"/> 0.1 to 1 | <input type="checkbox"/> More than 10 |

Yellow toadflax



Relative Abundance Index

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> Not included | █ 1.1 to 4 |
| <input type="checkbox"/> Absent | █ 4.1 to 10 |
| <input type="checkbox"/> 0.1 to 1 | █ More than 10 |