

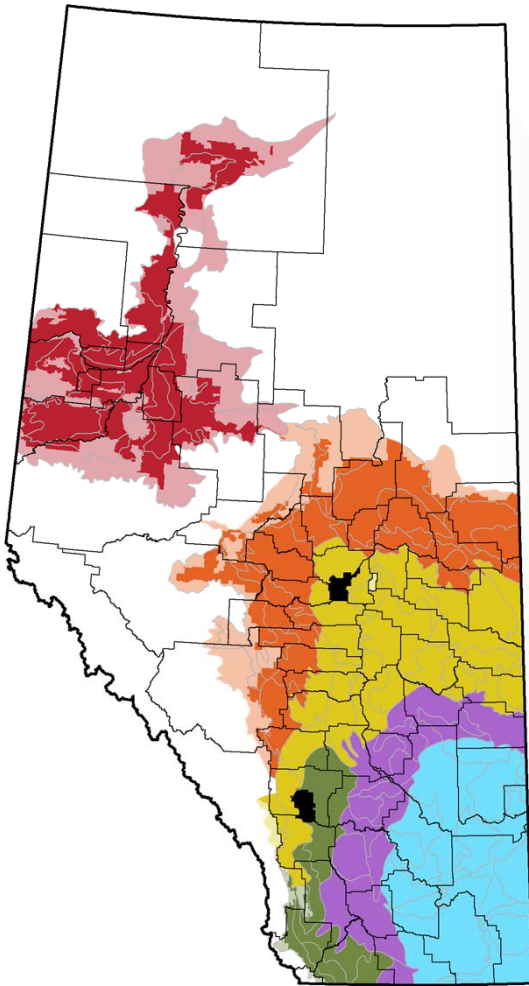


Agriculture and
Agri-Food Canada

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Agroalimentaire Canada



Alberta Weed Survey



**Dryland
2010**

**Julia Y. Leeson
Chris Neeser
Nicole Kimmel
Maureen Vadnais**



Weed Survey Series

Alberta Weed Survey of Dryland Crops in 2010

by

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PREVIOUSLY PUBLISHED REPORTS IN THE WEED SURVEY SERIES



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

(Table continued on next page)

Previously Published Reports in the Weed Survey Series

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

Number	Title
99-3	Farm management practices in Manitoba - 1997 weed survey questionnaire results
99-4	Saskatchewan weed survey: herbicide-resistant wild oat 1997
02-1	Alberta weed survey of cereal, oilseed and pulse crops in 2001
02-2	Manitoba weed survey of cereal and oilseed crops in 2002
03-1	Saskatchewan weed survey of cereal, oilseed and pulse crops in 2003
04-1	Alberta weed survey of herbicide-resistant weeds in 2001
04-2	Manitoba weed survey of herbicide-resistant weeds in 2002
05-1	Prairie weed surveys of cereal, oilseed and pulse crops from the 1970s to the 2000s
05-2	Farm management practices in Alberta - 1997 weed survey questionnaire results
05-3	Farm management practices in Alberta - 2001 weed survey questionnaire results
06-1	Saskatchewan weed survey of herbicide-resistant weeds in 2003
06-2	Prairie weed survey of herbicide-resistant wild oat from 2001 to 2003
10-1	Alberta weed survey of irrigated fields in 2009



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Taber	Ken Coles	Shauna Fankhaser, Mike Gretzinger, Kristina Halma, Jeff Hansen, Janis Procyk, Kevin Simmill
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Wheatland	Russel Muenchrath	Russel Muenchrath, Sarah Schumacher
Willow Creek	Ron MacKay Ken Coles	Mike Gretzinger, Kristina Halma, Jeff Hansen, Janis Procyk

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Lacombe	Alec McClay	Alec McClay
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Special Area 4
Starland
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North Region:

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Athabasca
Barrhead
Beaver
Bonnyville
Camrose
Flagstaff
Lac La Biche
Lac Ste. Anne
Lamont
Leduc
Lesser Slave River
Minburn
Parkland
Provost
Smoky Lake
St. Paul
Strathcona
Sturgeon
Thorhild
Two Hills
Vermillion River
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Clear Hills
Fairview
Greenview

Northern Lights
Northern Sunrise
Peace
Smoky River
Spirit River

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Julia Y. Leeson, Chris Neeser, Nicole Kimmel and Maureen Vadnais



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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 post-emergent 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.

Introduction – The 2010 Alberta Weed Survey Project

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 ecodistricts 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 last provincial survey of Alberta was completed in 2001 and summarized in a Weed Survey Series Report by Leeson, Thomas, and Hall (2002)⁸. While the protocol was similar to the previous survey, more fields were included. The survey was part of a project to survey 4000 fields across all Prairie Provinces; therefore, the total number of fields surveyed in Alberta was proportional to the farm area in Alberta relative to Saskatchewan and Manitoba. Of the allocated 1203 fields, 1153 were surveyed. The survey included the major annual cereal, oilseed and pulse crops (spring wheat, durum, barley, oats, canola and field pea).

In 2009, the first separate weed survey of irrigated fields was conducted in Alberta (Leeson et al. 2010)⁹. This survey provided a baseline to enable the detection of future changes in weed populations in irrigated land in Alberta and emphasized unique weed problems facing producers on irrigated land.

The 2010 Alberta Weed Survey Project

Rationale

Nine years have past since the fourth survey in Alberta was conducted in 2001. 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 2001, 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.

The 2010 Alberta weed survey was planned in conjunction with the 2009 survey of irrigated land in Alberta. A comparison of the results of the two surveys will reveal unique and shared weed problems faced by producers using dryland and irrigated production.

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.

⁸ **Leeson, J. Y., A. G. Thomas and L. M. Hall.** 2002. Alberta weed survey of cereal, oilseed and pulse crops in 2001. Weed Survey Series Publication 02-1, Agriculture and Agri-Food Canada, Saskatoon Research Centre, Saskatoon, Saskatchewan. 263 pp. 46 maps.

⁹ **Leeson, J. Y., C. Neeser, N. Kimmel and M. Vadnais.** 2010. Alberta weed survey of irrigated fields in 2009. Weed Survey Series Publication 10-1, Agriculture and Agri-Food Canada, Saskatoon Research Centre, Saskatoon, Saskatchewan. 271 pp. 50 maps.

The 2010 survey is the first provincial survey to include perennials in Alberta. Previous weed surveys have only included major annual crops. This survey will provide a baseline to enable the detection of future changes in weed populations in perennial crops in Alberta.

Objective

The objective of the project was to conduct in 2010 the fifth 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 annual and perennial crops grown without irrigation 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 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 54E 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 120EW and between 55 and 59E N).

Ecoregions

The majority of the fields surveyed (98%) are located in six ecoregions¹⁰ (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 Western Boreal and Mid-Boreal Uplands were combined with the sites in the Peace Lowland in the summary tables.

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. Sites located in adjacent areas in the Western Alberta Upland were combined with the sites in the Aspen Parkland Ecoregion.

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 Solonchic 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. Sites located in adjacent areas in the Northern Continental Divide were combined with the sites in the Fescue Grassland Ecoregion in the summary tables.

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

¹⁰**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.

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.

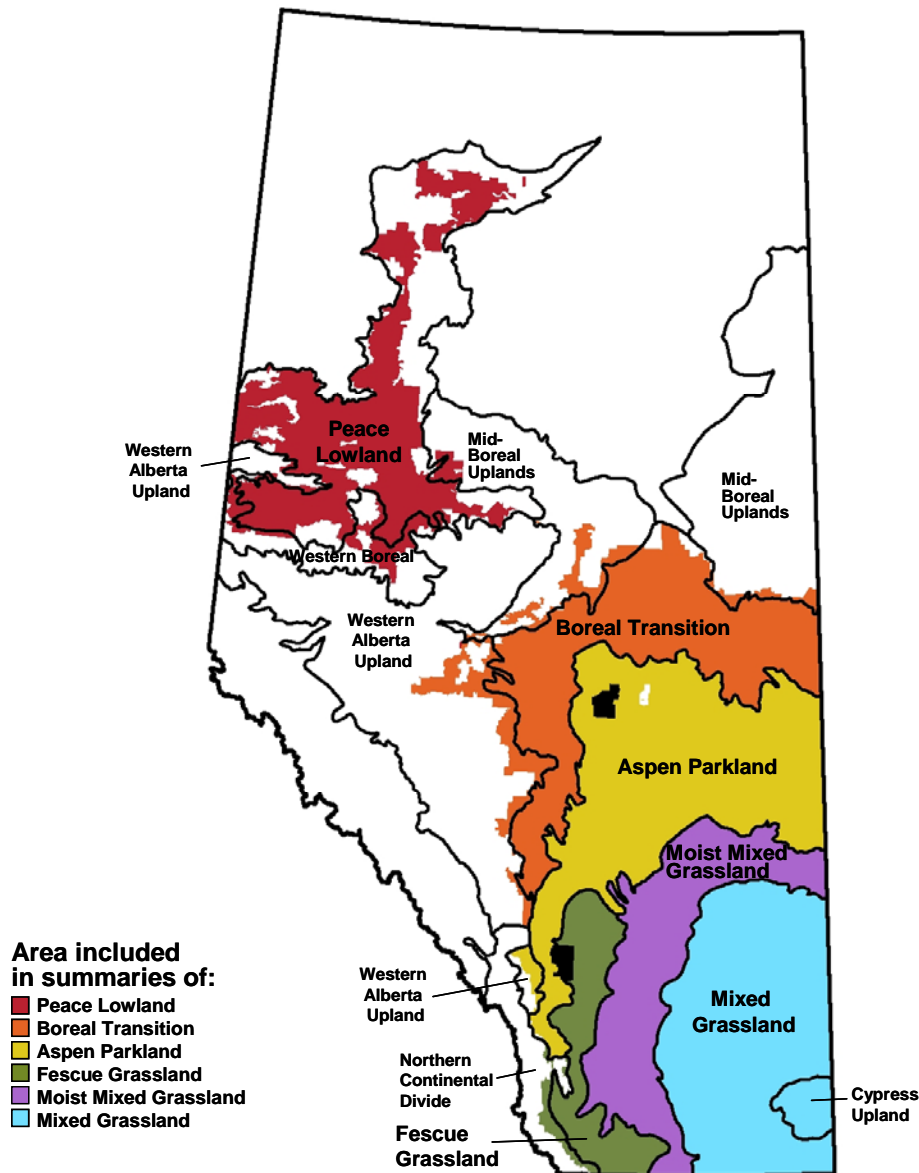


Figure 1. Surveyed agricultural areas in ecoregions included in the weed survey. Major ecoregions are indicated by larger font. Ecoregions that are grouped in summaries are shaded with the same colour. Map derived from Canadian Soil Information website¹¹.

¹¹**Agriculture and Agri-Food Canada.** 2003. A national ecological framework for Canada: GIS data. [Online] Available: http://sis.agr.gc.ca/cansis/nsdb/ecostrat/gis_data.html [30 January 2012].

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 ecodistricts included in the survey is given in Table 1.

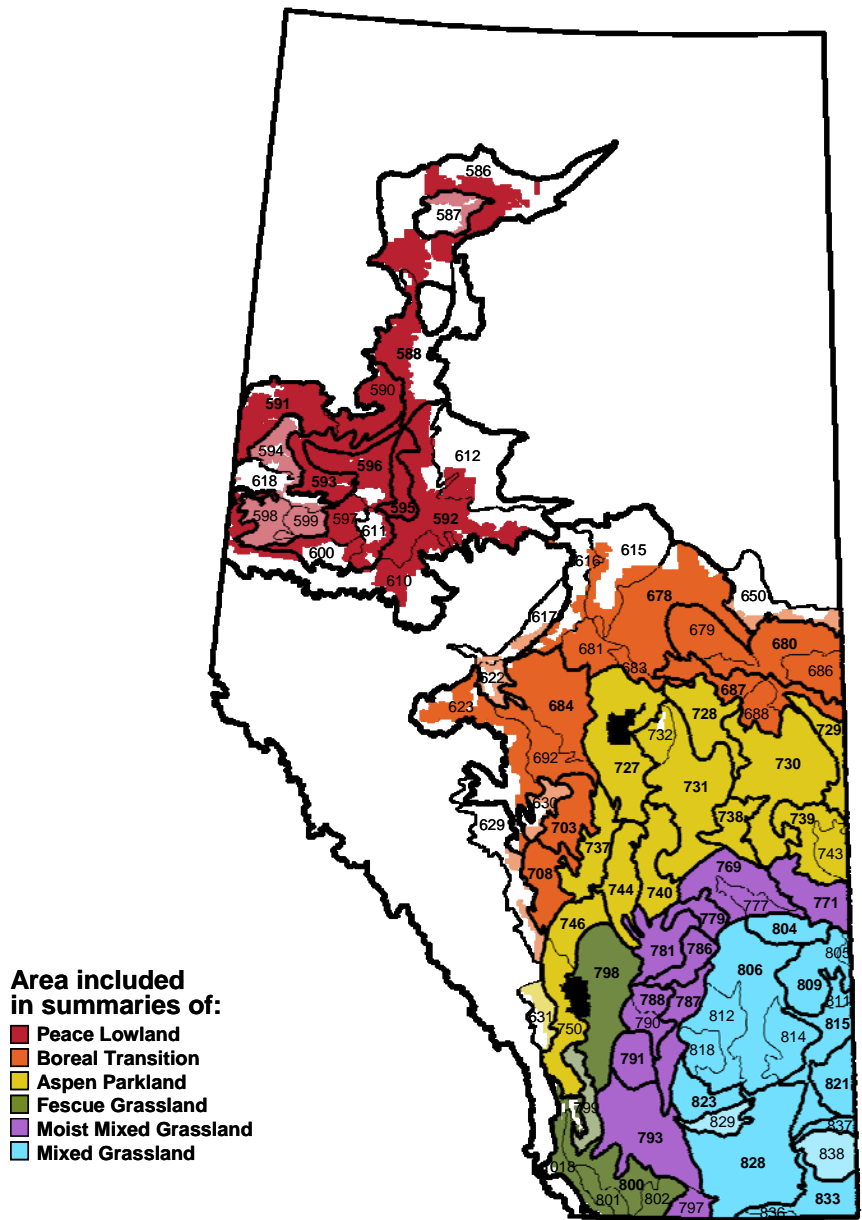


Figure 2. Ecodistricts included in the weed survey. Major ecodistricts are indicated by bold font. Ecodistricts that are surrounded by a thick black line on the map are grouped in summaries. Ecodistrict names are found in Table 1. Ecodistricts with allocated sites that were not surveyed a lighter shade than those with surveyed sites. Map derived from Canadian Soil Information website¹².

¹²Agriculture and Agri-Food Canada. 2003. A national ecological framework for Canada: GIS data. [Online] Available: http://sis.agr.gc.ca/cansis/nsdb/ecostrat/gis_data.html [30 January 2012].

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

Ecoregion and Ecodistrict ³	Average Daily Temperature (°C)		Annual Precipitation (mm)	Precipitation Surplus/Deficit (mm)	Growing Season Length (days)
	January	July			
Peace Lowland including <i>Western Boreal (610, 611) and Mid-Boreal Uplands (612)</i>					
Manning Plain (588)	-20.4	15.5	386	-128	167
High Level Plain (586)	-21.8	16.2	381	-144	167
Worsley Plain (591)	-15.9	15.2	468	-46	170
Grimshaw Plain (590)	-17.5	15.7	406	-116	172
McLennan Plain (592)	-16.5	15.7	456	-66	174
Iosegun Plain (610)	-13.8	15.0	507	-11	177
Heart River Upland (612)	-16.3	15.1	469	-48	175
Rycroft Plain (593)	-15.6	16.3	451	-86	177
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
Boreal Transition including <i>Mid-Boreal Uplands (615, 616) and Western Alberta Upland (623)</i>					
Athabasca Plain (678)	-16.1	16.1	475	-48	175
Cross Lake Upland (615)	-17.0	15.8	484	-32	173
Hondo Plain (616)	-16.1	15.5	490	-24	173
Westlock Plain (681)	-13.8	16.0	492	-33	178
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
Frog Lake Upland (686)	-17.7	16.8	429	-100	176
Lac Ste Anne Upland (684)	-13.9	16.0	532	9	177
Breton Upland (692)	-12.9	15.9	561	38	178
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
Rimbey Upland (703)	-13.2	15.6	532	17	178
Caroline Plain (708)	-13.0	14.8	510	13	173
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
Ribstone Plain (739)	-17.1	17.3	413	-119	178
Provost Plain (743)	-17.5	17.6	408	-127	178
Bashaw Upland (740)	-13.5	16.8	429	-102	181
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

(Table continued on next page)

Description Of Surveyed Area – Ecodistricts

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

Ecoregion and Ecodistrict ³	Average Daily Temperature (°C)		Annual Precipitation (mm)	Precipitation Surplus/ Deficit (mm)	Growing Season Length (days)
	January	July			
Moist Mixed Grassland					
Castor Plain (769)	-14.3	17.2	400	-135	182
Sullivan Lake Plain (777)	-15.2	17.2	367	-162	179
Neutral Hills (771)	-15.7	17.7	367	-169	179
Endiang Upland (779)	-13.8	17.2	394	-140	181
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
Fescue Grassland including Northern Continental Divide (1018)					
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
Blairmore Foothills (1018)	-8.1	15.3	633	135	179
Mixed Grassland including Cypress Upland (837)					
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
Bow City Plain (818)	-12	18.3	348	-204	189
Oyen Upland (809)	-14.4	18.5	312	-237	184
Sibbald Plain (805)	-14.6	18.5	302	-249	184
Bindloss Plain (815)	-11.6	19.7	300	-277	194
Acadia Valley Plain (811)	-13.0	19.3	282	-286	189
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
Wild Horse Plain (833)	-12.9	18.8	333	-205	180
Cypress Slope (837)	-11.3	19.2	352	-207	192
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://sis.agr.gc.ca/cansis/nsdb/ecostrat/district/climate.html> [15 December 2010]

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 crops to be included in the survey was based on the 2009 seeded area in the province (Table 2). It was assumed that a similar proportion of crops would be grown in the survey year. A minimum of 20 fields was set as the limit for inclusion of a crop in the survey. Based on a survey target of 1200 fields in Alberta, four cereal crops, one oilseed crop, one pulse crop and one perennial crop were selected.

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

Crop	Seeded area ¹ (1,000 ha)	Proportion of area (%)	Expected number of fields
Cereal			
Spring wheat	5875	25	299
Durum	930	4	47
Oats	835	4	42
Barley	3960	17	201
Oilseed			
Canola	5000	21	254
Pulse			
Dry peas	800	3	41
Perennial			
Tame hay	6200	26	315
Total	23600	100	1200

¹ **Alberta Agriculture and Rural Development, Economics and Competiveness Division, Statistics and Data Development Branch.** 2009. November Estimate of Production of Principal Field Crops, Alberta 2009. Agri-Food Statistics Update, No. CR09-4, Edmonton, AB.

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 2006 census data of Statistics Canada for each soil landscape complex (a subunit of ecodistrict) was obtained from the Soil Landscapes of Canada Database¹³ and summed to obtain hectarage per ecodistrict. To facilitate the organization of the survey, fields allocated to ecodistricts were subsequently allocated to municipalities, counties or special areas (Figure 3) based on proportion of each ecodistrict's area cultivated in each municipal jurisdiction.

¹³ **Agriculture and Agri-Food Canada.** 2008. Interpolated Census of Agriculture to Soil Landscapes, Ecological Frameworks and Drainage Areas of Canada [Online] Available: <http://www4.agr.gc.ca/AAFC-AAC/display-afficher.do?id=1227624499292&lang=eng> [30 January 2012].

Methodology – Stratification of Sites

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

Ecoregion and Ecodistrict	Allocated	Surveyed
Peace Lowland	141	81
High Level Plain (586)	10	2
Boyer Plain (587)	3	0
Manning Plain (588)	11	9
Grimshaw Plain (590)	9	7
Worsley Plain (591)	13	9
McLennan Plain (592)	15	12
Rycroft Plain (593)	22	15
Blueberry Upland (594)	7	0
Falher Plain (595)	14	17
Dunvegan Plain (596)	9	5
Debolt Plain (597)	6	4
Beaverlodge Plain (598)	12	0
Grande Prairie Plain (599)	9	0
Smoky Plain (600)	1	1
Western Boreal	7	4
Iosegun Plain (610)	6	3
Puskwaska Upland (611)	1	1
Mid-Boreal Uplands	8	6
Heart River Upland (612)	1	1
Cross Lake Upland (615)	3	2
Hondo Plain (616)	2	3
Freeman Upland (617)	1	0
Pinehurst Upland (650)	1	0
Western Alberta Upland	12	2
Saddle Upland (618)	2	0
Blueridge Upland (622)	2	0
Edson Plain (623)	5	2
O'Chiese Upland (629)	1	0
Winfield Upland (630)	1	0
Bragg Creek Foothills (631)	1	0
Boreal Transition	171	134
Athabasca Plain (678)	26	24
Whitefish Upland (679)	4	4
Beaver River Plain (680)	23	21
Westlock Plain (681)	17	4
Redwater Plain (683)	8	7
Lac Ste Anne Upland (684)	27	22
Frog Lake Upland (686)	2	2
Onion Lake Plain (687)	13	11
Myrnam Upland (688)	11	7
Breton Upland (692)	9	5
Rimbey Upland (703)	13	13
Caroline Plain (708)	18	14
Aspen Parkland	420	387
Leduc Plain (727)	62	51
Andrew Plain (728)	22	18
Lloydminster Plain (729)	19	15
Vermilion Upland (730)	65	75
Daysland Plain (731)	82	90
Cooking Lake Upland (732)	3	1
Red Deer Plain (737)	24	19
Sedgewick Plain (738)	21	16
Ribstone Plain (739)	12	7
Bashaw Upland (740)	26	30

(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)		
Provost Plain (743)	9	7
Pine Lake Upland (744)	37	33
Olds Plain (746)	27	24
Black Diamond Upland (750)	11	1
Moist Mixed Grassland	204	221
Castor Plain (769)	16	21
Neutral Hills (771)	14	16
Sullivan Lake Plain (777)	5	1
Endiang Upland (779)	6	10
Drumheller Plain (781)	33	33
Wintering Hills (786)	15	13
Majorville Upland (787)	16	18
Standard Plain (788)	9	7
Blackfoot Plain (790)	7	5
Vulcan Plain (791)	27	36
Lethbridge Plain (793)	52	56
Milk River Upland (797)	4	5
Fescue Grassland	98	48
Delacour Plain (798)	69	27
Willow Creek Upland (799)	6	0
Cardston Plain (800)	13	12
Twin Butte Foothills (801)	4	5
Del Bonita Plateau (802)	6	4
Mixed Grassland	131	134
Sounding Creek Plain (804)	9	13
Sibbald Plain (805)	1	3
Berry Creek Plain (806)	10	9
Oyen Upland (809)	11	8
Acadia Valley Plain (811)	3	3
Brooks Plain (812)	2	1
Rainy Hills Upland (814)	2	2
Bindloss Plain (815)	7	8
Bow City Plain (818)	2	2
Schuler Upland (821)	11	15
Vauxhall Plain (823)	8	11
Foremost Plain (828)	57	52
Purple Springs Plain (829)	2	0
Wild Horse Plain (833)	4	6
Sweetgrass Upland (836)	2	1
Cypress Upland	5	3
Cypress Slope (837)	3	3
Cypress Hills (838)	2	0
Northern Continental Divide	3	1
Blairmore Foothills (1018)	3	1
Alberta	1200	1021

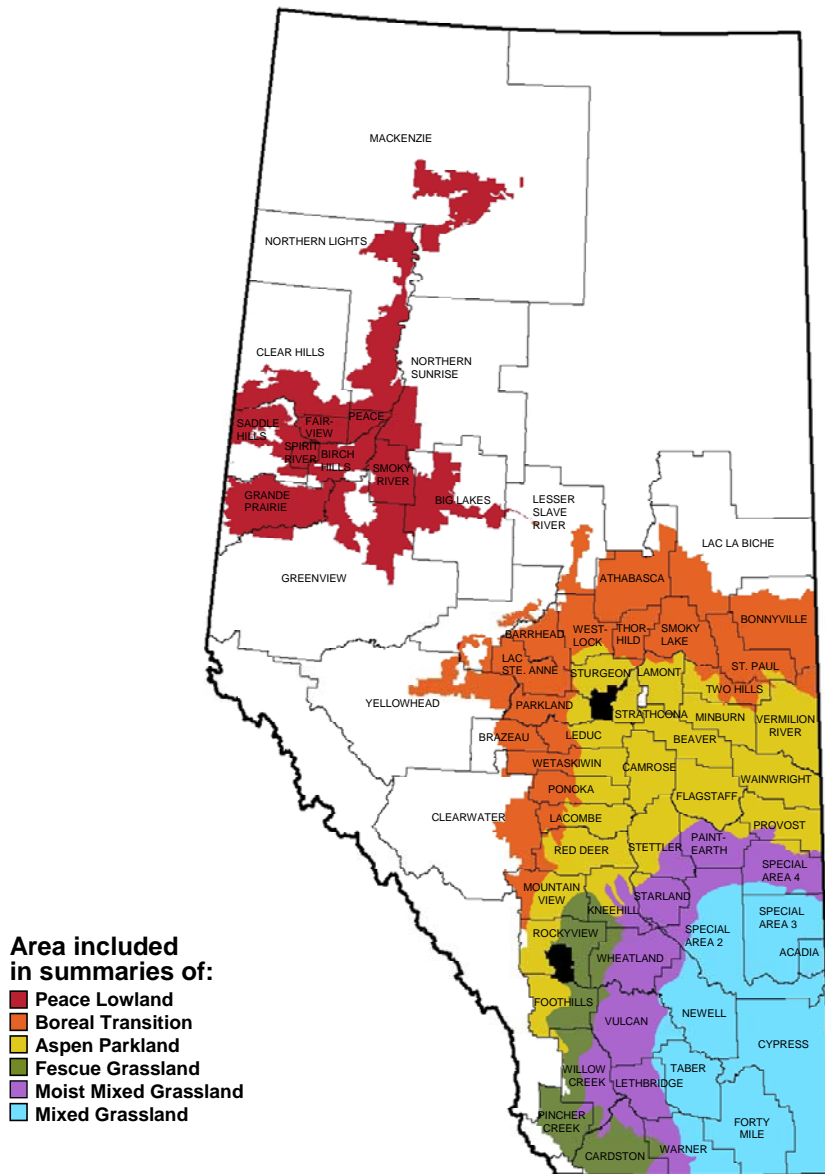


Figure 3. Municipal jurisdictions included in the weed survey.

Random Site Selection

The random selection of sites used the grid established by the Dominion Land Survey System¹⁴ 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 ten times the allocated number of sites was developed for each ecodistrict.

Ownership of the land was determined using the Alberta land titles database¹⁵. 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?
3. Is the field at least 16 hectares in size?
4. Have you farmed the identified field for a minimum of five years (including 2010)?
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?

If a field in a quarter section did not qualify but the producer was willing to participate, an attempt was made to qualify a field in another quarter of the same section. This step was followed only if the land was farmed by the same person as the preselected quarter section. Producer responses to the qualifying questions were recorded in a form; as well the following information for qualified fields:

- (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 list was exhausted without qualifying the required number of fields, an additional list of randomly selected sites was generated.

Field Survey Personnel and Orientation Sessions

The fields were allocated to survey personnel by the regional coordinator in each municipal jurisdiction. In some cases they opted to hire a contractor to carry out the survey; however, in most cases the task was carried out by county weed inspectors or other temporary staff. A total 88 people contributed to the weed counts.

Training material was provided to each regional coordinator and they were asked to insure that their staff understood the material and was competent to correctly carry out the survey. Alberta Agriculture and Rural Development provided additional training on a regional basis in conjunction with the training offered to weed inspectors.

¹⁴ **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.

¹⁵ **Government of Alberta.** 2009. SPIN2 Spatial Information System. [Online] Available: <http://www.spin.gov.ab.ca> [4 September 2009]

Methodology – Weed Counts

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 4). 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 m² quadrat (50 cm by 50 cm) at each of the 20 locations. The procedure was modified when necessary to compensate for sloughs, odd-shaped fields and other irregularities.

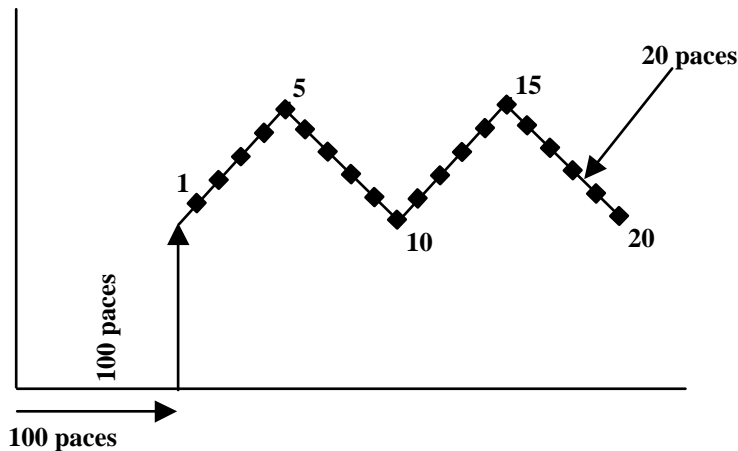


Figure 4. W pattern used for field counts.

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 152 weeds found in 2010 are listed in Table 4.

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

Common Name	Scientific Name
Alfalfa	<i>Medicago sativa</i> L.
Alsike clover (reported with clover species)	<i>Trifolium hybridum</i> L.
American dragonhead	<i>Dracocephalum parviflorum</i> Nutt.
American vetch	<i>Vicia americana</i> Muhl. ex Willd. var. <i>americana</i>
Annual blue grass	<i>Poa annua</i> L.
Annual sow-thistle (reported with spiny annual sow-thistle)	<i>Sonchus oleraceus</i> L.
Ball mustard	<i>Neslia paniculata</i> (L.) Desv.
Barley	<i>Hordeum vulgare</i> L.
Barnyard grass (includes western barnyard grass)	<i>Echinochloa crusgalli</i> (L.) P. Beauv.
Biennial wormwood	<i>Artemisia biennis</i> Willd.
Black medick	<i>Medicago lupulina</i> L.
Blue lettuce	<i>Lactuca tatarica</i> (L.) C.A. Mey. subsp. <i>pulchella</i> (Pursh) Stebbins
Bluebur (includes western bluebur)	<i>Lappula squarrosa</i> (Retz.) Dumort.
Borage	<i>Borago officinalis</i> L.
Broad-leaved plantain	<i>Plantago major</i> L.
Canada fleabane	<i>Conyza canadensis</i> (L.) Cronquist
Canada thistle	<i>Cirsium arvense</i> (L.) Scop.
Canola/rapeseed	<i>Brassica napus</i> L. and <i>B. rapa</i> L.
Caraway	<i>Carum carvi</i> L.
Chickweed	<i>Stellaria media</i> (L.) Vill.
Cicer milk-vetch	<i>Astragalus cicer</i> L.
Cleavers	<i>Galium aparine</i> L.
(includes false cleavers and may include other Galium species)	
Clover species (includes alsike, white and red clover)	<i>Trifolium</i> spp.
Common burdock	<i>Arctium minus</i> Bernh. subsp. <i>minus</i>
Common groundsel	<i>Senecio vulgaris</i> L.
Common milkweed (reported with showy milkweed)	<i>Asclepias syriaca</i> L.
Common pepper-grass (may include field pepper-grass)	<i>Lepidium densiflorum</i> Schrad.
Common reed	<i>Phragmites australis</i> (Cav.) Trin ex Steud.
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.
Crested wheat grass	<i>Agropyron cristatum</i> (L.) Gaertn.
Curled dock (reported with dock species)	<i>Rumex crispus</i> L.
Dandelion (includes red-seeded dandelion)	<i>Taraxacum officinale</i> Weber in F.H. Wigg.
Dock species	<i>Rumex</i> spp
(includes curled, field, western and willow-leaved dock)	.
Dog mustard	<i>Erucastrum gallicum</i> (Willd.) O.E. Schultz
Dogbane species	<i>Apocynum</i> spp.
Downy brome	<i>Bromus tectorum</i> L.
Durum (reported with wheat)	<i>Triticum durum</i> Desf.
Erect knotweed (reported with prostrate knotweed)	<i>Polygonum erectum</i> L.
False cleavers (reported with cleavers)	<i>Galium spurium</i> L.
False ragweed	<i>Iva xanthifolia</i> Nutt.
Field bindweed	<i>Convolvulus arvensis</i> L.
Field dock (reported with dock species)	<i>Rumex pseudonatronatus</i> (Borbas) Murb.
Field horsetail	<i>Equisetum arvense</i> L.
Field mint	<i>Mentha arvensis</i> L.
Field peas	<i>Pisum arvense</i> L.
Field pepper-grass (reported with common pepper-grass)	<i>Lepidium campestre</i> (L.) R. Br. in W.T. Aiton
Flax	<i>Linum usitatissimum</i> L.
Flixweed (includes grey and green tansy mustard)	<i>Descurainia sophia</i> (L.) Webb ex Prantl

(Table continued on next page)

Methodology – Weed List

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

Common Name	Scientific Name
Foxtail barley	<i>Hordeum jubatum</i> L.
Goat's-beard	<i>Tragopogon dubius</i> Scop.
Golden corydalis (may include other <i>Corydalis</i> species)	<i>Corydalis aurea</i> Willd.
Goldenrod species	<i>Solidago</i> spp.
Green foxtail	<i>Setaria viridis</i> (L.) P. Beauv.
Green smartweed (reported with pale smartweed)	<i>Polygonum scabrum</i> Moench
Green tansy mustard (reported with flixweed)	<i>Descurainia pinnata</i> (Walter) Britton var. <i>brachycarpa</i> (Richardson) Fernald
Grey tansy mustard (reported with flixweed)	<i>Descurainia incana</i> (Bernh. ex Fisch. & C.A. Mey.) Dorn
Hemp-nettle	<i>Galeopsis tetrahit</i> L.
Henbit	<i>Lamium amplexicaule</i> L.
Kentucky blue grass	<i>Poa pratensis</i> L.
Kochia	<i>Kochia scoparia</i> (L.) Schrad.
Lamb's-quarters (includes net-seeded lamb's-quarters)	<i>Chenopodium album</i> L.
Linear-leaved plantain	<i>Plantago elongata</i> Pursh
Low cudweed (reported with Western marsh cudweed)	<i>Gnaphalium uliginosum</i> L.
Low larkspur	<i>Delphinium bicolor</i> Nutt.
Marsh hedge-nettle	<i>Stachys palustris</i> L.
Marsh yellow cress (may include other yellow cress species)	<i>Rorippa palustris</i> (L.) Besser
Meadow brome	<i>Bromus riparius</i> Rehmman
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 milk-vetch	<i>Astragalus pectinatus</i> (Hook.) Douglas ex G. Don
Net-seeded lamb's-quarters (reported with lamb's-quarters)	<i>Chenopodium berlandieri</i> var. <i>zschackei</i> (Murr) Murr ex Asch.
Night-flowering catchfly	<i>Silene noctiflora</i> L.
Northern bedstraw	<i>Galium boreale</i> L.
Nuttall's alkali grass	<i>Puccinellia nuttalliana</i> (Schult.) Hitchc.
Oats	<i>Avena sativa</i> L.
Orchard grass	<i>Dactylis glomerata</i> L.
Pale smartweed (includes green smartweed)	<i>Polygonum lapathifolium</i> L.
Pasture sage (may include other wormwood species)	<i>Artemisia frigida</i> Willd.
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.
Poplar species	<i>Populus</i> spp.
Povertyweed	<i>Iva axillaris</i> Pursh
Prairie sage	<i>Artemisia ludoviciana</i> Nutt.
Prickly lettuce	<i>Lactuca serriola</i> L.
Prostrate knotweed (includes striate and erect knotweed)	<i>Polygonum aviculare</i> L.
Prostrate pigweed	<i>Amaranthus blitoides</i> S. Watson
Purple vetchling	<i>Lathyrus venosus</i> Muhl. ex Willd.
Purslane	<i>Portulaca oleracea</i> L.
Purslane speedwell	<i>Veronica peregrina</i> L.
Pygmyflower	<i>Androsace septentrionalis</i> L.
Quack grass	<i>Elytrigia repens</i> (L.) Desv. ex B. D. Jacks
Red fescue (may include other fescue species)	<i>Festuca rubra</i> L.
Redroot pigweed	<i>Amaranthus retroflexus</i> L.
Red-seeded dandelion (reported with dandelion)	<i>Taraxacum erythrospermum</i> Andr. ex Besser
Ridge-seeded spurge (reported with thyme-leaved spurge)	<i>Euphorbia glyptosperma</i> Engelm.
Red clover (reported with clover species)	<i>Trifolium pratense</i> L.
Rose species	<i>Rosa</i> spp.

(Table continued on next page)

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

Common Name	Scientific Name
Rough cinquefoil (may include other cinquefoil species)	<i>Potentilla norvegica</i> L.
Round-leaved mallow	<i>Malva pusilla</i> Sm.
Russian thistle	<i>Salsola tragus</i> L.
Scarlet mallow	<i>Sphaeralcea coccinea</i> (Nutt.) Rydb.
Scentless chamomile	<i>Matricaria perforata</i> Merat
Scouring-rush	<i>Equisetum hyemale</i> L.
Sheep sorrel	<i>Rumex acetosella</i> var. <i>pyrenaicus</i> (Pourr.) Timb.-Lagr.
Shepherd's-purse	<i>Capsella bursa-pastoris</i> (L.) Medik.
Showy milkweed (may include common milkweed)	<i>Asclepias speciosa</i> Torr.
Silvery lupin	<i>Lupinus argenteus</i> Pursh
Slender wheat grass (may include other perennial wheat grass species)	<i>Elymus trachycaulus</i> (Link) Gould ex. Shinners
Slough grass	<i>Beckmannia syzigachne</i> (Steud.) Fernald
Small-seeded false flax	<i>Camelina microcarpa</i> DC.
Smooth brome (includes other perennial brome species)	<i>Bromus inermis</i> Leyss.
Spear-leaved goosefoot (may include other goosefoot species)	<i>Monolepis nuttalliana</i> (Schult.) Greene
Spiny annual sow-thistle (includes 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 (reported with prostrate knotweed)	<i>Polygonum achoreum</i> S.F. Blake
Sunflower species	<i>Helianthus</i> spp.
Sweet grass	<i>Hierochloa odorata</i> (L.) Beauv.
Tall buttercup	<i>Ranunculus acris</i> L.
Tansy	<i>Tanacetum vulgare</i> L.
Tartary buckwheat	<i>Fagopyrum tataricum</i> (L.) Gaertn.
Thyme-leaved spurge (includes ridge-seeded spurge)	<i>Euphorbia serpyllifolia</i> Pers.
Timothy	<i>Phleum pratense</i> L.
Two-grooved milk-vetch	<i>Astragalus bisulcatus</i> (Hook.) A. Gray
Unknown grass species (may include multiple species)	
Volunteer grain	
Water smartweed	<i>Polygonum amphibium</i> L. subsp. <i>laevimarginatum</i> Hultén
Western barnyard grass (reported with barnyard grass)	<i>Echinochloa microstachya</i> (Wiegand) Rydb.
Western bluebur (reported with bluebur)	<i>Lappula occidentalis</i> (S. Watson) Greene
Western dock (reported with dock species)	<i>Rumex occidentalis</i> S. Wats
Western marsh cudweed (includes low cudweed)	<i>Gnaphalium palustre</i> Nutt.
Western snowberry	<i>Symphoricarpos occidentalis</i> Hook.
Wheat (includes durum)	<i>Triticum aestivum</i> L.
White clover (reported with clover species)	<i>Trifolium repens</i> L.
White cockle	<i>Silene pratensis</i> (Raf.) Godr. & Gren.
White mustard	<i>Sinapis alba</i> L.
White sweet-clover (reported with yellow sweet-clover)	<i>Melilotus albus</i> Medik.
Wild buckwheat	<i>Polygonum convolvulus</i> L.
Wild chamomile	<i>Matricaria recutita</i> L.
Wild mustard	<i>Sinapis arvensis</i> L.
Wild oats	<i>Avena fatua</i> L.
Wild tomato	<i>Solanum triflorum</i> Nutt.
Willow-leaved dock (reported with dock species)	<i>Rumex triangulivalvis</i> (Danser) Rech. F.
Willowherb species	<i>Epilobium</i> spp.
Wood whitlow-grass	<i>Draba nemorosa</i> L.
Wormseed mustard	<i>Erysimum cheiranthoides</i> L.
Yellow alyssum	<i>Alyssum desertorum</i> Stapf

(Table continued on next page)

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

Common Name	Scientific Name
Yellow sweet-clover (includes white 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.

All data were weighted to account for sites not surveyed. The field weights were calculated by taking the ratio of the expected number of fields in the ecodistrict to the number of fields surveyed in the ecodistrict. To account for ecodistricts without any surveyed sites, weights were multiplied by the ratio of the expected number of fields within the ecoregion to the number of fields surveyed within the ecoregion. The median density, mean density, mean number of species per field and percentage of weed free quadrats were calculated for each crop, ecoregion, extension region and municipal jurisdiction based on the weighted data. Standard errors were calculated for the means and percentage of weed free quadrats.

Weed data were summarized in tables using ecological, agronomic, and jurisdictional variables including ecoregion, ecodistrict, crop, Alberta Agriculture, Food and Rural Development Regions, counties, municipalities and special areas. A minimum of ten sites 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 Peace Lowland Ecoregion was not provided; however, the fields were included in the overall summary for Alberta field peas. Geographic areas (ecoregions, ecodistricts and municipal jurisdictions) with fewer fields than required were combined with adjacent areas.

The geographic distribution of each species is presented in maps produced with ArcMap GIS 9.3 from Environmental Systems Research Institute, Inc.. Inverse Distance Weighting was used to estimate frequency of the species by interpolating presence/absence data. The interpolation included all sites within used a fixed radius of 0.2° (approximately 22 km) extended if necessary to include a minimum of ten sites. The sites were given a weight of inverse of the square root of the distance to the interpolated point. The data presented is smoothed using nearest neighbour focal statistics, based on the means within a four cell radius. The maps of volunteer crops (alfalfa, barley, canola, field peas, oats and wheat) do not include fields planted to the volunteer crop.

Data were summarized using seven quantitative variables. Details for the calculation of these variables are described elsewhere¹⁶.

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).

¹⁶**Thomas, A.G.** 1985. Weed survey system used in Saskatchewan for cereal and oilseed crops. *Weed Science* 33: 34-43

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.

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 annual crop summary table (Table 6). A **frequency** of 51.2% shows that wild buckwheat occurred at least once in 506 of the 986 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 15.9% 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 31.1% of the quadrats when considering only the 506 occurrence fields.

Three density variables are included in the tables. Wild buckwheat had an **occurrence field density** of 4.5 plants per square metre and an **all field density** of 2.3 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 313.6 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 oats and dandelion. Because the all field uniformity and all field density values of wild oats are larger than that for dandelion, wild oats is ranked higher, even though dandelion has a higher frequency. The relative abundance value of 21.2 for wild oats is higher than the value of 14.6 for dandelion.

Methodology – Limitations

Limitations, Constraints and Biases

Six municipal jurisdictions with allocated sites were not surveyed (Figure 5). In the Peace Region the counties of Grande Prairie and Saddle Hills were excluded. This resulted in three ecodistricts (594, 598 and 599) without any representative sites. The exclusion of the other counties, Brazeau and Westlock in the North Region, and the municipal districts of Rocky View and Foothills in the Central and Southern Regions, respectively, did not result in any missing ecodistricts. In each of these cases, ecodistricts partially within the counties were underrepresented in the data. Weighting was used to overcome this problem; however, the accuracy of regional summaries is expected to be lowered. Species distribution maps are interpolated for these areas based on surrounding sites.

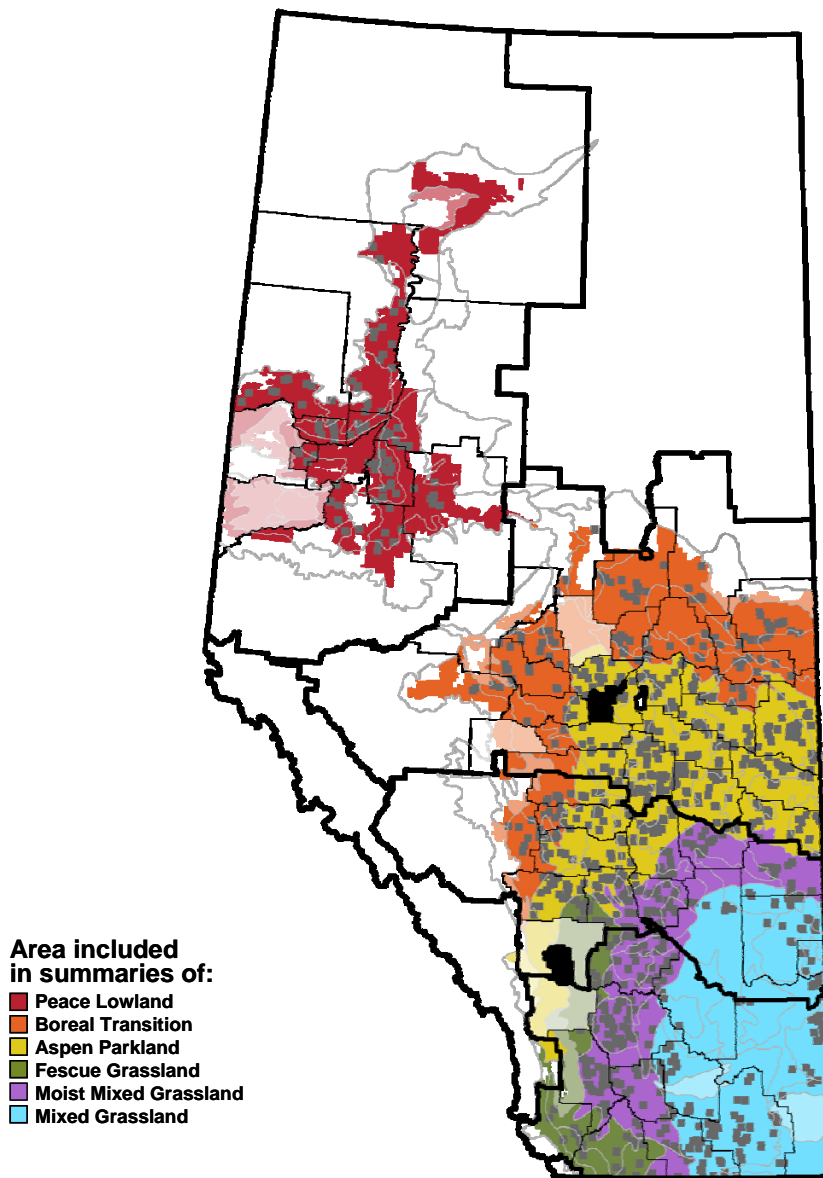


Figure 5. Locations of surveyed sites. Municipal jurisdictions and ecodistricts without any surveyed sites are a lighter shade than those with surveyed sites. Grey lines are ecodistrict borders. Thin black lines are municipal jurisdiction boundaries and thick black lines define extension regions. Squares indicate locations of surveyed fields.

The actual number of tame hay fields surveyed was much lower than predicted based on the cropped area (expected ~300 fields, surveyed 33). This reduced the number of summaries that could be made using the data for this crop. The proportion of fields surveyed in each of the annual crops was close to that expected based on the seeded acreage in 2010¹⁷. However, there were slightly more durum, barley and field pea fields and less oat and canola fields than expected. These differences may be partially attributable to the missed areas and will slightly impact the overall summaries.

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 cereal crops and in one case the field was planted to mixture of the selected cereal and broad-leaved annual crops. These fields were included in overall summaries, but a separate summary was not made for mixed crops. The type of cereal was not recorded for four fields; these fields were only included in the cereal and annual crop summaries.

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 2010. It might be argued that 2010 is not indicative of a typical year as much of the area north west of Edmonton received very little precipitation and the south-eastern agricultural areas had record high precipitation¹⁸. The drought was particularly severe in the Peace Region, with exception of the most northerly area. Along the eastern edge

¹⁷ **Alberta Agriculture and Rural Development, Economics and Competiveness Division, Statistics and Data Development Branch.** 2011. November Estimate of Production of Principal Field Crops, Alberta 2011. Agri-Food Statistics Update, No. CR11-4, Edmonton, AB.

¹⁸ **National Agroclimate Information Service (NAIS).** 2010. Precipitation compared to historical distribution (Prairie Region) April 1 to August 16, 2010 [Online] Available: <http://www4.agr.gc.ca/DW-GS/historical-historiques.jsp?lang=eng&jsEnabled=true> [8 February 2012]

Methodology – Limitations

of the province many areas had record high 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.



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Field Survey Summary Tables – Density, Species Richness and Weed-Free Quadrats by Crop

Table 5. Number of fields surveyed, density, species richness and weed-free quadrats in the surveyed crops in Alberta

Crop	Number of fields surveyed	Density (number/m ²)			Species (number /field)		Weed-free quadrats	
		mean	SE	median	mean	SE	%	SE
Annual crops	986	22.0	1.7	5.8	4.4	0.1	46.4	1.6
Cereal crops	668	24.6	2.3	6.0	4.3	0.1	45.5	1.9
Spring wheat	336	21.9	2.8	6.4	4.1	0.2	46.4	2.7
Barley	242	24.2	3.8	5.4	4.3	0.2	46.1	3.2
Durum	33	11.1	4.4	2.6	3.6	0.5	57.2	8.6
Oat	41	54.9	18.3	16.9	5.5	0.6	32.1	7.3
Broad-leaved annual crops	317	17.0	2.0	5.2	4.5	0.2	48.0	2.8
Canola	252	12.7	1.2	4.8	4.1	0.2	51.5	3.1
Field pea	65	32.4	7.8	8.6	5.8	0.5	35.8	5.9
Perennial crops	35	37.7	13.0	20.1	3.9	0.4	22.2	7.0

Field Survey Summary Tables –Annual Crops

Table 6. 2010 annual crops in Alberta (986 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	51.2	15.9	31.1	2.3	4.5	313.6	38.1
2	Wild oats	21.8	6.2	28.5	2.2	10.2	284.6	21.2
3	Cleavers	16.2	4.5	27.6	1.6	9.8	147.0	15.3
4	Canada thistle	33.4	5.3	15.8	0.5	1.6	16.2	15.2
5	Dandelion	25.8	5.5	21.4	0.7	2.7	102.4	14.6
6	Canola	20.9	5.6	26.9	0.9	4.2	85.4	14.3
7	Chickweed	13.0	4.6	35.1	1.4	11.0	174.0	14.0
8	Lamb's-quarters	17.5	3.6	20.6	0.9	5.1	328.8	11.7
9	Spiny annual sow-thistle	12.5	3.7	29.9	0.8	6.5	101.0	10.2
10	Narrow-leaved hawk's-beard	14.7	3.5	23.8	0.6	4.2	148.2	9.6
11	Stinkweed	14.9	3.1	21.0	0.6	4.3	57.6	9.4
12	Hemp-nettle	14.0	3.0	21.2	0.7	4.9	184.8	9.3
13	Perennial sow-thistle	12.4	2.6	20.7	0.5	3.8	189.4	7.6
14	Field horsetail	10.5	2.2	21.2	0.6	6.1	50.4	7.5
15	Shepherd's-purse	12.0	2.7	22.6	0.4	3.7	32.2	7.5
16	Western marsh cudweed	2.2	0.8	34.3	1.3	59.7	709.8	7.3
17	Wheat	9.8	2.7	27.6	0.4	4.0	31.8	6.7
18	Green foxtail	7.0	1.9	27.7	0.6	8.2	186.0	6.2
19	Kochia	9.9	1.9	19.2	0.3	3.1	62.2	5.5
20	Corn spurry	2.1	0.8	38.8	0.9	41.8	362.0	5.2
21	Redroot pigweed	9.8	1.6	16.4	0.2	1.9	20.6	4.7
22	Quack grass	7.2	1.6	22.3	0.3	4.4	59.8	4.6
23	Pale smartweed	6.9	1.3	18.6	0.3	4.5	151.0	4.2
24	Clover species	5.0	1.0	20.2	0.3	6.3	162.4	3.6
25	Stork's-bill	4.7	1.1	23.5	0.2	4.7	57.0	3.1
26	Foxtail barley	5.9	0.9	15.2	0.1	2.0	13.4	2.8
27	Pineappleweed	3.6	0.8	21.7	0.2	6.5	57.8	2.7
28	Russian thistle	4.0	1.0	25.7	0.2	4.1	35.4	2.7
29	Flixweed	5.8	0.7	12.0	< 0.1	0.8	7.0	2.2
30	Barley	4.4	0.8	18.7	0.1	2.1	14.4	2.2
31	Prostrate knotweed	3.4	0.7	20.5	0.1	1.6	7.2	1.7
32	Tartary buckwheat	2.8	0.8	28.3	0.1	2.4	11.8	1.7
33	Alfalfa	2.9	0.6	19.1	0.1	2.5	25.4	1.5
34	Common groundsel	3.2	0.4	11.9	0.1	2.4	35.0	1.5
35	Downy brome	1.4	0.2	17.1	0.2	14.3	187.6	1.4
36	Field bindweed	1.7	0.5	29.0	< 0.1	2.2	9.0	1.1
37	Round-leaved mallow	2.5	0.3	14.0	< 0.1	1.3	7.8	1.1
38	Scentless chamomile	1.1	0.4	32.7	0.1	7.7	69.2	1.0
39	Henbit	1.3	0.2	17.2	0.1	7.0	47.0	1.0
40	Prostrate pigweed	1.3	0.4	27.2	< 0.1	3.5	15.6	0.9
41	Bluebur	1.9	0.2	11.9	< 0.1	2.6	18.8	0.9
42	Field peas	1.7	0.3	19.7	< 0.1	1.2	6.2	0.8
43	Wild mustard	1.3	0.3	23.7	< 0.1	3.1	14.6	0.8
44	Oats	1.1	0.3	23.6	< 0.1	4.3	12.2	0.7
45	Broad-leaved plantain	2.0	0.2	8.6	< 0.1	0.6	2.0	0.7
46	Dock species	0.7	0.1	19.1	0.1	11.6	56.0	0.7
47	Meadow brome	0.5	0.3	65.0	< 0.1	8.4	8.4	0.6
48	Yellow toadflax	1.2	0.2	14.3	< 0.1	3.4	10.0	0.6
49	Povertyweed	1.0	0.2	15.2	< 0.1	4.6	20.0	0.6
50	Thyme-leaved spurge	0.9	0.2	24.8	< 0.1	3.4	15.0	0.6
51	White cockle	0.8	0.2	20.9	< 0.1	5.3	26.4	0.6
52	Cow cockle	1.4	0.2	12.4	< 0.1	0.7	3.2	0.6

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Table 6. 2010 annual crops in Alberta (986 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Rough cinquefoil	1.1	0.2	17.4	< 0.1	1.4	7.4	0.5
54	Slough grass	0.3	0.1	23.3	0.1	25.2	74.2	0.5
55	Barnyard grass	0.6	0.1	21.2	< 0.1	4.6	15.8	0.4
56	Red fescue	1.0	0.1	10.3	< 0.1	0.8	1.4	0.4
57	Pasture sage	0.5	0.1	25.6	< 0.1	4.1	7.2	0.3
58	Purple vetchling	1.1	0.1	8.0	< 0.1	0.4	0.8	0.3
59	Pygmyflower	0.5	0.1	29.3	< 0.1	3.7	11.6	0.3
60	Black medick	0.5	0.1	28.5	< 0.1	4.3	11.8	0.3
61	American vetch	0.7	0.1	12.5	< 0.1	2.9	18.4	0.3
62	Ball mustard	0.6	0.1	20.2	< 0.1	2.6	7.4	0.3
63	Biennial wormwood	0.8	0.1	10.9	< 0.1	0.8	3.0	0.3
64	Yellow sweet-clover	0.8	0.1	10.8	< 0.1	0.7	1.6	0.3
65	Purslane	0.4	0.1	27.7	< 0.1	2.0	4.4	0.3
66	Wild tomato	0.8	0.1	7.7	< 0.1	0.5	2.4	0.2
67	Canada fleabane	0.4	0.1	23.8	< 0.1	2.0	4.0	0.2
68	American dragonhead	0.5	0.1	18.5	< 0.1	1.6	2.6	0.2
69	Goat's-beard	0.6	0.1	11.8	< 0.1	0.6	1.4	0.2
70	Purslane speedwell	0.4	0.1	24.0	< 0.1	2.1	5.4	0.2
71	Night-flowering catchfly	0.4	0.1	15.2	< 0.1	2.4	8.6	0.2
72	Yellow alyssum	0.2	0.1	49.1	< 0.1	9.4	15.4	0.2
73	False ragweed	0.3	0.1	47.3	< 0.1	2.2	3.2	0.2
74	Rose species	0.6	< 0.1	7.3	< 0.1	0.5	1.0	0.2
75	Wild chamomile	0.2	0.1	40.5	< 0.1	4.7	7.2	0.2
76	Common pepper-grass	0.3	0.1	22.6	< 0.1	2.1	4.2	0.2
77	Kentucky blue grass	0.2	< 0.1	13.0	< 0.1	14.7	32.8	0.2
78	Volunteer grain	0.3	0.1	22.5	< 0.1	1.4	2.6	0.2
79	Field mint	0.2	< 0.1	21.3	< 0.1	9.2	16.2	0.2
80	Small-seeded false flax	0.4	< 0.1	10.0	< 0.1	1.2	2.0	0.2
81	Grass	0.3	< 0.1	8.6	< 0.1	0.9	1.6	0.1
82	Spear-leaved goosefoot	0.3	< 0.1	8.0	< 0.1	0.6	1.2	0.1
83	Prickly lettuce	0.3	< 0.1	5.8	< 0.1	2.0	4.2	0.1
84	Narrow-leaved milk-vetch	0.1	< 0.1	50.0	< 0.1	11.6	11.6	0.1
85	Borage	0.1	< 0.1	45.0	< 0.1	4.6	4.6	0.1
86	Marsh yellow cress	0.2	< 0.1	14.4	< 0.1	1.1	2.4	0.1
87	Orchard grass	0.2	< 0.1	15.9	< 0.1	0.6	0.8	0.1
88	Showy milkweed	0.2	< 0.1	17.5	< 0.1	1.1	1.4	0.1
89	Smooth brome	0.2	< 0.1	6.8	< 0.1	0.6	1.0	0.1
90	Prairie sage	0.2	< 0.1	7.5	< 0.1	0.4	0.6	0.1
91	Wood whitlow-grass	0.2	< 0.1	17.5	< 0.1	1.1	1.4	0.1
92	Golden corydalis	0.2	< 0.1	11.3	< 0.1	1.2	2.6	0.1
93	Scouring-rush	0.1	< 0.1	15.0	< 0.1	4.4	4.4	0.1
94	Willowherb species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
95	Flax	0.1	< 0.1	20.0	< 0.1	3.6	3.6	0.1
96	Slender wheat grass	0.2	< 0.1	7.3	< 0.1	0.3	0.4	0.1
97	Nuttall's alkali grass	0.1	< 0.1	5.0	< 0.1	9.2	9.2	0.1
98	Common burdock	0.2	< 0.1	7.5	< 0.1	0.3	0.4	0.1
99	Persian darnel	0.1	< 0.1	20.0	< 0.1	2.0	2.0	0.1
100	Common yarrow	0.2	< 0.1	7.7	< 0.1	0.5	0.8	0.1
101	Poplar species	0.2	< 0.1	5.0	< 0.1	0.3	0.4	< 0.1
102	Sunflower	0.1	< 0.1	5.0	< 0.1	3.2	3.2	< 0.1
103	Scarlet mallow	0.1	< 0.1	15.0	< 0.1	0.6	0.6	< 0.1
104	Tansy	0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1

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Field Survey Summary Tables –Annual Crops

Table 6. 2010 annual crops in Alberta (986 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
105	Wormseed mustard	0.1	< 0.1	7.1	< 0.1	0.3	0.4	< 0.1
106	Dog mustard	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
107	Two-grooved milk-vetch	0.1	< 0.1	10.0	< 0.1	3.0	3.0	< 0.1
108	Western snowberry	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
109	Northern bedstraw	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
110	Tall buttercup	0.1	< 0.1	10.0	< 0.1	1.2	1.2	< 0.1
111	Linear-leaved plantain	0.1	< 0.1	15.0	< 0.1	1.2	1.2	< 0.1
112	Dogbane species	0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
113	Sheep sorrel	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
114	Cream-colored vetchling	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
115	Cicer milk-vetch	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
116	Goldenrod species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
117	Caraway	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
118	Water smartweed	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
119	White mustard	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
120	Blue lettuce	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
121	Mouse-eared chickweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
122	Low larkspur	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
123	Silvery lupin	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
124	Timothy	< 0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
125	Crested wheat grass	< 0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1

Table 7. 2010 cereal crops in Alberta (668 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	53.2	17.4	32.6	2.7	5.2	313.6	40.3
2	Wild oats	22.8	6.9	30.1	2.9	12.7	284.6	23.7
3	Canola	26.6	7.5	28.0	1.1	4.3	44.4	18.0
4	Dandelion	26.5	6.0	22.8	0.9	3.4	102.4	15.7
5	Canada thistle	33.3	5.5	16.5	0.6	1.7	16.2	15.3
6	Chickweed	12.8	4.9	38.3	1.6	12.5	174.0	14.3
7	Hemp-nettle	15.4	3.8	24.7	1.0	6.4	184.8	11.2
8	Lamb's-quarters	13.1	3.2	24.3	1.1	8.4	328.8	10.5
9	Spiny annual sow-thistle	12.1	4.2	35.0	0.8	6.9	76.2	10.3
10	Cleavers	13.6	3.6	26.8	0.7	5.5	147.0	9.7
11	Narrow-leaved hawk's-beard	12.9	3.3	25.9	0.7	5.4	148.2	9.0
12	Western marsh cudweed	2.0	0.8	38.2	1.8	88.4	709.8	8.4
13	Green foxtail	9.2	2.7	29.4	0.9	9.3	186.0	8.2
14	Stinkweed	12.7	2.8	22.4	0.6	4.5	57.6	8.0
15	Corn spurry	2.4	1.1	46.9	1.3	55.1	362.0	6.9
16	Perennial sow-thistle	10.7	2.0	19.1	0.5	4.7	189.4	6.5
17	Kochia	12.2	2.2	18.2	0.3	2.7	52.8	6.3
18	Redroot pigweed	12.0	2.0	16.9	0.2	2.1	20.6	5.8
19	Shepherd's-purse	10.5	2.0	19.4	0.3	3.1	32.2	5.7
20	Pale smartweed	7.9	1.5	19.2	0.4	5.5	151.0	5.1
21	Field horsetail	7.2	1.1	15.7	0.3	4.6	50.4	4.1
22	Clover species	4.0	1.1	27.8	0.4	11.2	162.4	3.8
23	Quack grass	5.7	1.1	20.0	0.3	5.2	59.8	3.6
24	Foxtail barley	7.5	1.2	15.5	0.2	2.1	13.4	3.5
25	Russian thistle	5.2	1.4	26.3	0.2	4.4	35.4	3.4
26	Stork's-bill	4.9	1.2	24.1	0.2	5.0	57.0	3.3
27	Wheat	3.0	0.8	27.6	0.2	5.7	31.8	2.2
28	Flixweed	5.6	0.7	12.9	< 0.1	0.9	7.0	2.2
29	Prostrate knotweed	4.1	0.9	21.8	0.1	1.9	7.2	2.1
30	Pineappleweed	2.9	0.5	16.5	0.2	6.5	57.8	1.9
31	Downy brome	1.7	0.3	14.9	0.3	16.8	187.6	1.8
32	Common groundsel	3.4	0.4	12.4	0.1	2.7	35.0	1.6
33	Alfalfa	2.2	0.5	23.7	0.1	4.0	25.4	1.4
34	Tartary buckwheat	2.0	0.6	31.1	< 0.1	2.3	9.6	1.3
35	Prostrate pigweed	1.8	0.5	30.2	0.1	3.9	15.6	1.2
36	Field peas	2.3	0.5	19.7	< 0.1	1.2	6.2	1.1
37	Field bindweed	1.8	0.5	26.3	< 0.1	2.1	7.6	1.0
38	Round-leaved mallow	2.5	0.3	13.0	< 0.1	1.1	6.0	1.0
39	Broad-leaved plantain	2.9	0.3	8.7	< 0.1	0.6	2.0	1.0
40	Meadow brome	0.8	0.5	65.0	0.1	8.4	8.4	0.9
41	Henbit	1.7	0.2	12.5	0.1	4.8	43.4	0.9
42	Yellow toadflax	1.7	0.3	15.2	0.1	3.6	10.0	0.9
43	Wild mustard	1.3	0.4	29.9	0.1	4.3	14.6	0.9
44	Dock species	0.8	0.2	21.7	0.1	15.7	56.0	0.8
45	Scentless chamomile	0.6	0.3	44.1	0.1	17.9	69.2	0.8
46	Oats	1.2	0.3	23.8	< 0.1	4.1	9.8	0.7
47	Cow cockle	1.9	0.2	12.9	< 0.1	0.7	3.2	0.7
48	Slough grass	0.3	0.1	27.5	0.1	37.3	74.2	0.6
49	White cockle	1.0	0.1	14.9	0.1	5.7	26.4	0.6
50	Barnyard grass	0.9	0.2	21.2	< 0.1	4.6	15.8	0.6
51	Barley	1.1	0.2	21.6	< 0.1	1.5	5.6	0.6
52	Pasture sage	0.8	0.2	25.6	< 0.1	4.1	7.2	0.5

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Field Survey Summary Tables – Cereal Crops

Table 7. 2010 cereal crops in Alberta (668 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	American vetch	1.0	0.1	12.5	< 0.1	2.9	18.4	0.5
54	Red fescue	1.2	0.1	11.4	< 0.1	1.0	1.4	0.5
55	Rough cinquefoil	1.1	0.2	15.2	< 0.1	1.4	7.4	0.5
56	Black medick	0.6	0.2	31.6	< 0.1	5.1	11.8	0.4
57	Bluebur	1.1	0.1	6.7	< 0.1	0.9	5.8	0.4
58	Wild tomato	1.1	0.1	7.7	< 0.1	0.5	2.4	0.4
59	American dragonhead	0.7	0.1	18.5	< 0.1	1.6	2.6	0.3
60	Purslane	0.5	0.2	33.8	< 0.1	2.4	4.4	0.3
61	Ball mustard	0.6	0.1	19.2	< 0.1	1.8	5.4	0.3
62	Night-flowering catchfly	0.7	0.1	15.2	< 0.1	2.4	8.6	0.3
63	Canada fleabane	0.5	0.1	32.4	< 0.1	2.8	4.0	0.3
64	Yellow alyssum	0.3	0.1	49.1	< 0.1	9.4	15.4	0.3
65	Biennial wormwood	0.7	0.1	13.2	< 0.1	1.1	3.0	0.3
66	Thyme-leaved spurge	0.6	0.1	15.0	< 0.1	1.7	4.4	0.3
67	Wild chamomile	0.3	0.1	40.5	< 0.1	4.7	7.2	0.3
68	Purslane speedwell	0.4	0.1	23.4	< 0.1	2.5	5.4	0.2
69	Pygmyflower	0.5	0.1	13.0	< 0.1	0.6	0.8	0.2
70	Common pepper-grass	0.4	0.1	20.8	< 0.1	1.6	3.6	0.2
71	Small-seeded false flax	0.5	0.1	11.4	< 0.1	1.3	2.0	0.2
72	Field mint	0.2	0.1	35.0	< 0.1	16.2	16.2	0.2
73	Rose species	0.5	< 0.1	8.7	< 0.1	0.6	0.8	0.2
74	Grass	0.5	< 0.1	8.6	< 0.1	0.9	1.6	0.2
75	Yellow sweet-clover	0.5	< 0.1	7.7	< 0.1	0.7	1.4	0.2
76	Narrow-leaved milk-vetch	0.1	0.1	50.0	< 0.1	11.6	11.6	0.2
77	Borage	0.2	0.1	45.0	< 0.1	4.6	4.6	0.1
78	Marsh yellow cress	0.3	< 0.1	14.4	< 0.1	1.1	2.4	0.1
79	Showy milkweed	0.3	< 0.1	17.5	< 0.1	1.1	1.4	0.1
80	Povertyweed	0.4	< 0.1	5.0	< 0.1	1.4	3.4	0.1
81	Smooth brome	0.4	< 0.1	6.8	< 0.1	0.6	1.0	0.1
82	Prairie sage	0.4	< 0.1	7.5	< 0.1	0.4	0.6	0.1
83	Wood whitlow-grass	0.3	< 0.1	17.5	< 0.1	1.1	1.4	0.1
84	Goat's-beard	0.4	< 0.1	5.9	< 0.1	0.4	0.6	0.1
85	Purple vetchling	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
86	Spear-leaved goosefoot	0.3	< 0.1	5.0	< 0.1	0.3	0.4	0.1
87	Scouring-rush	0.2	< 0.1	15.0	< 0.1	4.4	4.4	0.1
88	Willowherb species	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
89	Slender wheat grass	0.3	< 0.1	7.3	< 0.1	0.3	0.4	0.1
90	Flax	0.2	< 0.1	20.0	< 0.1	3.6	3.6	0.1
91	Prickly lettuce	0.3	< 0.1	6.3	< 0.1	0.6	0.8	0.1
92	Orchard grass	0.2	< 0.1	20.0	< 0.1	0.8	0.8	0.1
93	Nuttall's alkali grass	0.1	< 0.1	5.0	< 0.1	9.2	9.2	0.1
94	Persian darnel	0.2	< 0.1	20.0	< 0.1	2.0	2.0	0.1
95	Poplar species	0.2	< 0.1	5.0	< 0.1	0.3	0.4	0.1
96	Volunteer grain	0.2	< 0.1	15.0	< 0.1	1.0	1.0	0.1
97	Scarlet mallow	0.2	< 0.1	15.0	< 0.1	0.6	0.6	0.1
98	Sunflower	0.2	< 0.1	5.0	< 0.1	3.2	3.2	0.1
99	False ragweed	0.1	< 0.1	25.0	< 0.1	1.4	1.4	0.1
100	Wormseed mustard	0.2	< 0.1	7.1	< 0.1	0.3	0.4	0.1
101	Golden corydalis	0.1	< 0.1	20.0	< 0.1	2.6	2.6	0.1
102	Kentucky blue grass	0.1	< 0.1	5.0	< 0.1	2.6	2.6	0.1
103	Dog mustard	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
104	Common burdock	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1

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Table 7. 2010 cereal crops in Alberta (668 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
105	Western snowberry	0.1	< 0.1	10.0	< 0.1	0.4	0.4	< 0.1
106	Northern bedstraw	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
107	Tall buttercup	0.1	< 0.1	10.0	< 0.1	1.2	1.2	< 0.1
108	Dogbane species	0.1	< 0.1	5.0	< 0.1	0.6	0.6	< 0.1
109	Sheep sorrel	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
110	Cicer milk-vetch	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
111	Goldenrod species	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
112	Water smartweed	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
113	White mustard	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1
114	Common yarrow	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
115	Blue lettuce	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
116	Mouse-eared chickweed	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
117	Low larkspur	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
118	Silvery lupin	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
119	Timothy	0.1	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1
120	Crested wheat grass	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1

Field Survey Summary Tables – Spring wheat

Table 8. 2010 spring wheat fields in Alberta (336 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	55.9	19.2	34.4	2.5	4.4	74.2	45.1
2	Wild oats	24.0	7.5	31.3	3.7	15.2	184.0	30.4
3	Canola	32.2	8.7	27.0	1.2	3.8	40.6	22.6
4	Canada thistle	33.8	5.2	15.5	0.5	1.6	10.0	16.2
5	Western marsh cudweed	3.1	1.1	36.6	2.9	91.8	709.8	15.1
6	Spiny annual sow-thistle	12.8	4.9	38.5	1.1	8.3	76.2	13.1
7	Chickweed	9.6	4.0	41.0	1.2	12.4	111.4	12.0
8	Cleavers	13.0	3.8	29.1	1.0	7.9	147.0	11.8
9	Dandelion	22.7	3.7	16.2	0.3	1.3	15.0	10.7
10	Green foxtail	8.8	2.2	25.5	0.9	10.7	186.0	8.8
11	Perennial sow-thistle	10.5	2.4	22.9	0.8	7.4	189.4	8.6
12	Narrow-leaved hawk's-beard	13.1	2.5	19.3	0.4	3.4	148.2	7.8
13	Shepherd's-purse	11.7	2.5	21.6	0.5	4.0	32.2	7.6
14	Hemp-nettle	11.6	2.2	19.3	0.3	2.9	38.0	6.7
15	Lamb's-quarters	12.2	1.8	14.7	0.3	2.2	38.4	6.1
16	Field horsetail	7.9	1.6	19.9	0.5	6.3	50.4	5.8
17	Pale smartweed	6.3	1.2	19.8	0.6	9.0	151.0	5.4
18	Redroot pigweed	11.3	1.4	12.8	0.1	1.3	18.0	4.9
19	Kochia	11.0	1.5	13.4	0.1	1.1	9.6	4.8
20	Stinkweed	9.1	1.1	12.3	0.1	1.4	8.8	4.0
21	Russian thistle	5.0	1.4	27.0	0.3	5.8	35.4	4.0
22	Foxtail barley	6.1	1.4	22.2	0.2	2.7	13.4	3.7
23	Quack grass	6.1	1.2	19.2	0.2	3.0	25.0	3.6
24	Pineappleweed	3.4	0.7	20.9	0.4	10.6	57.8	3.2
25	Prostrate knotweed	4.6	1.3	28.9	0.1	2.4	7.2	3.0
26	Common groundsel	3.5	0.6	15.6	0.2	4.7	35.0	2.2
27	Tartary buckwheat	3.4	1.0	27.9	0.1	2.0	9.6	2.1
28	Flixweed	5.0	0.6	12.0	< 0.1	0.8	3.2	2.0
29	Wheat	1.7	0.6	35.9	0.2	10.8	31.8	1.9
30	Field peas	3.3	0.6	17.7	< 0.1	1.0	3.6	1.5
31	Stork's-bill	2.6	0.5	17.2	0.1	3.1	19.6	1.5
32	Slough grass	0.6	0.2	27.5	0.2	37.3	74.2	1.4
33	Yellow toadflax	1.6	0.4	24.9	0.1	6.0	10.0	1.3
34	Clover species	2.2	0.3	12.6	0.1	4.2	23.4	1.2
35	Corn spurry	1.4	0.3	23.5	0.1	4.5	12.4	1.0
36	Field bindweed	1.3	0.4	32.4	< 0.1	2.7	5.0	0.9
37	Downy brome	2.2	0.2	8.8	< 0.1	2.1	14.6	0.9
38	Barley	1.8	0.3	15.7	< 0.1	1.1	1.8	0.8
39	Oats	0.9	0.3	30.8	0.1	7.1	9.8	0.8
40	Dock species	1.2	0.2	20.7	< 0.1	3.8	14.0	0.8
41	Barnyard grass	0.9	0.3	31.8	0.1	6.3	15.8	0.8
42	Bluebur	2.0	0.1	6.3	< 0.1	1.0	5.8	0.7
43	Alfalfa	1.5	0.3	16.7	< 0.1	1.1	2.6	0.7
44	Purslane	1.0	0.3	33.8	< 0.1	2.4	4.4	0.7
45	Broad-leaved plantain	1.9	0.1	7.0	< 0.1	0.5	0.6	0.7
46	Prostrate pigweed	1.2	0.2	16.2	< 0.1	2.8	6.2	0.6
47	Round-leaved mallow	1.5	0.2	10.9	< 0.1	0.6	1.4	0.6
48	Wild chamomile	0.7	0.3	40.5	< 0.1	4.7	7.2	0.6
49	Canada fleabane	0.7	0.3	38.1	< 0.1	3.5	4.0	0.5
50	Wild tomato	1.3	0.1	9.1	< 0.1	0.7	2.4	0.5
51	Rough cinquefoil	1.3	0.1	5.7	< 0.1	0.4	1.0	0.4
52	Cow cockle	1.1	0.1	9.9	< 0.1	0.4	1.4	0.4

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Table 8. 2010 spring wheat fields in Alberta (336 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Field mint	0.3	0.1	35.0	< 0.1	16.2	16.2	0.4
54	Biennial wormwood	1.0	0.1	10.6	< 0.1	0.9	2.8	0.4
55	Night-flowering catchfly	0.5	0.1	26.4	< 0.1	5.3	8.6	0.4
56	Henbit	0.8	0.1	13.4	< 0.1	0.9	2.2	0.4
57	American vetch	0.9	< 0.1	5.0	< 0.1	0.4	1.0	0.3
58	Borage	0.3	0.1	45.0	< 0.1	4.6	4.6	0.3
59	Red fescue	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
60	Scentsless chamomile	0.3	0.2	60.0	< 0.1	4.0	4.0	0.3
61	Showy milkweed	0.6	0.1	17.5	< 0.1	1.1	1.4	0.3
62	Povertyweed	0.7	< 0.1	5.0	< 0.1	1.4	3.4	0.3
63	Black medick	0.3	0.1	20.0	< 0.1	11.8	11.8	0.3
64	Wood whitlow-grass	0.5	0.1	17.5	< 0.1	1.1	1.4	0.2
65	Common pepper-grass	0.4	0.1	30.3	< 0.1	2.4	3.6	0.2
66	Small-seeded false flax	0.7	< 0.1	5.0	< 0.1	1.0	2.0	0.2
67	Pygmyflower	0.4	0.1	20.0	< 0.1	0.8	0.8	0.2
68	Marsh yellow cress	0.4	0.1	20.0	< 0.1	1.7	2.4	0.2
69	Scouring-rush	0.3	0.1	15.0	< 0.1	4.4	4.4	0.2
70	Pasture sage	0.2	0.1	40.0	< 0.1	7.2	7.2	0.2
71	Willowherb species	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
72	American dragonhead	0.5	< 0.1	5.0	< 0.1	0.9	1.4	0.2
73	White cockle	0.5	< 0.1	5.0	< 0.1	0.7	0.8	0.2
74	Grass	0.4	< 0.1	10.0	< 0.1	1.6	1.6	0.2
75	False ragweed	0.3	0.1	25.0	< 0.1	1.4	1.4	0.1
76	Prairie sage	0.4	< 0.1	10.0	< 0.1	0.6	0.6	0.1
77	Wild mustard	0.3	< 0.1	12.9	< 0.1	0.6	0.8	0.1
78	Rose species	0.3	< 0.1	10.0	< 0.1	0.6	0.6	0.1
79	Smooth brome	0.3	< 0.1	5.0	< 0.1	1.0	1.0	0.1
80	Slender wheat grass	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
81	Northern bedstraw	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
82	Ball mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
83	Sheep sorrel	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
84	Yellow alyssum	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
85	Cicer milk-vetch	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	Thyme-leaved spurge	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
88	Purslane speedwell	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
89	Water smartweed	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
90	Poplar species	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
91	White mustard	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
92	Common yarrow	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
93	Blue lettuce	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
94	Prickly lettuce	0.1	< 0.1	10.0	< 0.1	0.4	0.4	0.1
95	Crested wheat grass	0.1	< 0.1	5.0	< 0.1	0.4	0.4	< 0.1

Field Survey Summary Tables – Barley

Table 9. 2010 barley fields in Alberta (242 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	48.8	15.4	31.6	3.4	7.0	313.6	40.5
2	Wild oats	22.0	6.6	30.0	2.3	10.7	284.6	21.3
3	Chickweed	18.0	6.1	33.8	2.2	12.5	174.0	19.4
4	Canada thistle	35.3	5.8	16.5	0.6	1.6	16.2	16.3
5	Canola	21.3	6.7	31.2	1.2	5.4	43.6	16.2
6	Dandelion	27.8	6.8	24.4	0.7	2.4	29.0	15.9
7	Hemp-nettle	17.6	4.3	24.2	0.9	4.8	45.6	11.8
8	Corn spurry	2.2	1.0	46.2	2.4	107.3	362.0	11.5
9	Cleavers	17.7	4.6	26.1	0.6	3.5	34.8	11.3
10	Narrow-leaved hawk's-beard	12.2	4.3	35.4	1.0	8.3	31.2	11.2
11	Lamb's-quarters	11.4	2.7	23.3	1.3	11.1	328.8	10.5
12	Stinkweed	14.0	3.1	22.3	0.7	4.7	57.6	9.1
13	Spiny annual sow-thistle	11.9	3.4	28.8	0.6	5.2	37.8	8.6
14	Kochia	12.9	2.9	22.2	0.5	3.6	25.6	7.7
15	Green foxtail	9.4	2.6	27.6	0.6	6.1	90.0	7.1
16	Redroot pigweed	11.1	2.7	24.1	0.4	3.5	20.6	6.8
17	Stork's-bill	7.9	2.4	30.6	0.5	6.9	57.0	6.5
18	Perennial sow-thistle	11.4	1.9	17.1	0.3	2.5	24.4	5.7
19	Quack grass	5.6	1.2	20.5	0.4	7.2	59.8	4.1
20	Shepherd's-purse	9.1	1.2	13.2	0.2	1.9	12.0	4.0
21	Pale smartweed	8.1	1.4	17.9	0.1	1.6	7.0	3.8
22	Wheat	5.6	1.4	24.7	0.2	3.8	24.0	3.5
23	Downy brome	1.0	0.4	39.3	0.7	70.5	187.6	3.5
24	Foxtail barley	7.2	0.9	12.7	0.2	2.3	10.4	3.3
25	Clover species	4.5	0.9	19.9	0.2	3.8	18.2	2.6
26	Meadow brome	2.1	1.4	65.0	0.2	8.4	8.4	2.5
27	Field horsetail	6.0	0.5	8.4	0.1	1.6	7.4	2.3
28	Henbit	2.7	0.4	14.0	0.2	7.6	43.4	1.8
29	Scentless chamomile	0.9	0.5	49.3	0.3	28.1	69.2	1.7
30	Wild mustard	2.1	0.7	34.3	0.1	5.8	14.6	1.7
31	Round-leaved mallow	3.9	0.6	14.6	0.1	1.4	6.0	1.7
32	Alfalfa	2.8	0.6	20.4	0.1	3.2	25.4	1.6
33	Prostrate pigweed	2.1	0.7	33.3	0.1	4.3	15.6	1.5
34	Prostrate knotweed	3.5	0.4	12.9	< 0.1	1.3	3.6	1.4
35	Cow cockle	3.2	0.5	15.1	< 0.1	0.9	3.2	1.3
36	Dock species	0.5	0.1	25.0	0.3	56.0	56.0	1.3
37	Common groundsel	4.0	0.3	7.3	< 0.1	0.3	0.8	1.3
38	Western marsh cudweed	0.9	0.3	29.6	0.2	16.6	33.4	1.1
39	Russian thistle	2.6	0.4	14.2	< 0.1	0.8	2.0	1.0
40	Flixweed	2.6	0.3	11.4	< 0.1	0.6	1.2	1.0
41	Red fescue	2.1	0.3	15.0	< 0.1	1.4	1.4	0.9
42	Broad-leaved plantain	2.5	0.2	6.5	< 0.1	0.5	1.0	0.8
43	Oats	1.6	0.3	16.0	< 0.1	2.3	6.8	0.8
44	Pineappleweed	1.9	0.2	11.7	< 0.1	1.3	4.2	0.8
45	Yellow alyssum	0.4	0.3	75.0	0.1	15.4	15.4	0.7
46	Field bindweed	2.0	0.2	10.9	< 0.1	0.4	0.6	0.7
47	Pasture sage	1.3	0.2	17.4	< 0.1	2.7	5.8	0.7
48	Yellow toadflax	1.9	0.1	6.0	< 0.1	1.5	2.2	0.7
49	American dragonhead	1.1	0.3	27.2	< 0.1	2.0	2.6	0.7
50	Black medick	0.8	0.3	39.6	< 0.1	3.6	7.2	0.6
51	Barnyard grass	1.1	0.1	13.5	< 0.1	3.7	10.0	0.6
52	Tartary buckwheat	0.6	0.2	30.0	< 0.1	2.3	4.0	0.4

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Table 9. 2010 barley fields in Alberta (242 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Thyme-leaved spurge	0.8	0.1	16.7	< 0.1	1.5	3.0	0.4
54	Yellow sweet-clover	1.0	0.1	8.6	< 0.1	0.8	1.4	0.3
55	Purple vetchling	1.0	0.1	5.0	< 0.1	0.2	0.2	0.3
56	Field peas	0.7	0.1	13.8	< 0.1	0.7	1.4	0.3
57	American vetch	0.9	0.1	7.0	< 0.1	0.3	0.4	0.3
58	Spear-leaved goosefoot	0.9	< 0.1	5.0	< 0.1	0.3	0.4	0.3
59	Grass	0.8	0.1	7.8	< 0.1	0.5	1.0	0.3
60	Night-flowering catchfly	0.8	0.1	7.5	< 0.1	0.6	1.0	0.3
61	Flax	0.4	0.1	20.0	< 0.1	3.6	3.6	0.2
62	Small-seeded false flax	0.4	0.1	25.0	< 0.1	2.0	2.0	0.2
63	Nuttall's alkali grass	0.3	< 0.1	5.0	< 0.1	9.2	9.2	0.2
64	Orchard grass	0.5	0.1	20.0	< 0.1	0.8	0.8	0.2
65	Common pepper-grass	0.6	0.1	12.4	< 0.1	1.0	1.4	0.2
66	Rose species	0.7	< 0.1	7.2	< 0.1	0.4	0.4	0.2
67	Persian darnel	0.4	0.1	20.0	< 0.1	2.0	2.0	0.2
68	Sunflower	0.4	< 0.1	5.0	< 0.1	3.2	3.2	0.2
69	Kentucky blue grass	0.4	< 0.1	5.0	< 0.1	2.6	2.6	0.2
70	Dog mustard	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
71	Prairie sage	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
72	Ball mustard	0.3	< 0.1	10.0	< 0.1	0.6	0.6	0.1
73	Smooth brome	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
74	Common burdock	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
75	Bluebur	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
76	Slender wheat grass	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
77	Prickly lettuce	0.4	< 0.1	5.0	< 0.1	0.8	0.8	0.1
78	Dogbane species	0.4	< 0.1	5.0	< 0.1	0.6	0.6	0.1
79	Barley	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
80	Goat's-beard	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
81	Poplar species	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
82	Pygmyflower	0.3	< 0.1	5.0	< 0.1	0.6	0.6	0.1
83	Wild tomato	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
84	Low larkspur	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
85	Silvery lupin	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
86	Timothy	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Field Survey Summary Tables – Durum

Table 10. 2010 durum fields in Alberta (33 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	37.6	8.8	23.4	3.2	8.6	162.4	52.2
2	Russian thistle	36.5	11.7	32.1	1.6	4.4	17.8	41.5
3	Kochia	30.9	8.1	26.1	2.1	6.8	52.8	39.1
4	Wild buckwheat	43.6	6.5	14.9	0.4	0.9	2.8	25.0
5	Dandelion	23.0	5.0	21.6	1.1	4.9	28.2	23.7
6	Redroot pigweed	35.9	5.5	15.3	0.6	1.6	7.6	23.2
7	Flixweed	22.8	3.8	16.6	0.3	1.4	7.0	14.6
8	Prostrate pigweed	8.6	3.9	44.8	0.4	4.8	9.6	11.7
9	Field peas	8.7	2.7	31.7	0.2	2.4	6.2	8.2
10	Canada thistle	14.9	1.5	10.4	0.1	0.7	2.0	7.3
11	Narrow-leaved hawk's-beard	10.5	1.7	16.3	0.2	1.6	4.8	6.9
12	Foxtail barley	15.6	1.0	6.2	0.1	0.6	1.8	6.5
13	Stinkweed	9.5	0.9	9.0	< 0.1	0.4	0.6	4.2
14	Spiny annual sow-thistle	3.6	1.1	30.0	0.2	4.6	4.6	4.1
15	Perennial sow-thistle	4.3	0.9	20.0	0.1	2.5	3.6	3.4
16	Green foxtail	6.8	0.8	11.6	< 0.1	0.7	1.4	3.4
17	Canola	6.0	0.6	10.0	0.1	1.2	1.8	3.2
18	Prostrate knotweed	3.6	0.9	25.0	0.1	1.8	1.8	2.9
19	Oats	2.9	1.0	35.0	0.1	2.0	2.0	2.8
20	Field bindweed	3.6	0.5	15.0	< 0.1	1.2	1.2	2.2
21	Purslane speedwell	3.6	0.4	10.0	0.1	2.0	2.0	2.2
22	Volunteer grain	3.6	0.5	15.0	< 0.1	1.0	1.0	2.1
23	Goat's-beard	5.1	0.3	6.4	< 0.1	0.5	0.6	2.1
24	Scarlet mallow	3.6	0.5	15.0	< 0.1	0.6	0.6	2.0
25	Downy brome	5.1	0.3	5.0	< 0.1	0.3	0.4	1.9
26	Wild tomato	3.8	0.2	5.0	< 0.1	0.2	0.2	1.4
27	Thyme-leaved spurge	2.3	0.2	10.0	< 0.1	0.6	0.6	1.1
28	Henbit	1.4	0.1	5.0	< 0.1	0.2	0.2	0.5
29	Prickly lettuce	1.4	0.1	5.0	< 0.1	0.2	0.2	0.5

Table 11. 2010 oat fields in Alberta (41 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Dandelion	48.4	20.7	42.8	7.4	15.3	102.4	34.2
2	Hemp-nettle	33.2	13.0	39.1	7.1	21.3	184.8	26.3
3	Wild buckwheat	49.3	16.9	34.3	2.5	5.0	18.2	23.2
4	Lamb's-quarters	31.7	11.7	36.9	5.0	15.8	67.2	21.6
5	Clover species	14.4	8.0	55.8	5.2	36.1	162.4	16.7
6	Canola	29.6	9.1	30.6	1.5	5.2	44.4	13.4
7	Corn spurry	8.2	5.1	61.4	4.6	56.2	160.0	12.9
8	Stinkweed	23.4	8.3	35.3	1.8	7.8	38.4	12.4
9	Green foxtail	10.2	8.6	84.8	2.7	26.1	40.4	11.7
10	Canada thistle	26.8	7.1	26.5	0.7	2.6	11.8	10.2
11	Western marsh cudweed	1.6	1.6	95.0	4.8	295.0	295.0	10.0
12	Narrow-leaved hawk's-beard	17.8	6.3	35.2	1.5	8.2	22.4	9.5
13	Chickweed	14.4	7.1	49.2	1.3	9.3	24.8	9.1
14	Pale smartweed	19.2	4.4	23.1	1.4	7.2	47.2	8.6
15	Spiny annual sow-thistle	11.3	3.9	34.6	0.8	7.3	30.4	5.8
16	Shepherd's-purse	11.3	4.6	40.9	0.5	4.0	7.2	5.6
17	Field horsetail	12.8	2.7	20.7	0.8	6.1	25.6	5.3
18	Alfalfa	6.7	3.1	45.6	0.8	11.4	19.2	4.4
19	Flixweed	15.4	2.1	13.7	0.1	0.8	2.6	4.2
20	Wild oats	8.7	2.4	27.5	0.6	7.3	14.2	4.1
21	White cockle	6.5	1.5	23.0	0.9	13.7	26.4	3.7
22	Foxtail barley	13.6	1.5	10.8	0.1	0.9	1.4	3.6
23	Perennial sow-thistle	14.9	1.3	8.4	0.1	0.4	0.8	3.6
24	Quack grass	7.7	1.6	21.3	0.4	4.7	12.0	3.0
25	Broad-leaved plantain	10.5	1.5	13.8	0.1	1.0	2.0	2.9
26	Rough cinquefoil	6.9	2.1	30.2	0.2	2.9	7.4	2.8
27	Field bindweed	3.2	2.4	75.0	0.2	7.6	7.6	2.4
28	Pineappleweed	8.8	0.8	8.9	0.1	0.6	1.6	2.2
29	Redroot pigweed	8.0	0.9	11.2	0.1	1.1	1.8	2.1
30	American vetch	2.4	1.2	50.0	0.4	18.4	18.4	1.9
31	Cleavers	6.8	0.6	9.5	< 0.1	0.7	1.0	1.7
32	Barley	2.3	1.7	75.0	0.1	5.6	5.6	1.7
33	Pasture sage	3.1	1.2	40.0	0.2	6.2	6.2	1.6
34	Narrow-leaved milk-vetch	2.2	1.1	50.0	0.3	11.6	11.6	1.5
35	Tartary buckwheat	1.9	1.5	80.0	0.1	6.6	6.6	1.5
36	Wild mustard	3.3	0.9	26.7	0.1	2.5	5.6	1.3
37	Purslane speedwell	1.6	1.0	60.0	0.1	5.4	5.4	1.0
38	Round-leaved mallow	3.9	0.4	10.1	< 0.1	0.9	1.6	1.0
39	Stork's-bill	3.8	0.4	10.0	< 0.1	0.6	0.6	1.0
40	Wild tomato	3.8	0.3	7.6	< 0.1	0.5	0.8	0.9
41	Pygmyflower	3.5	0.3	10.0	< 0.1	0.4	0.4	0.9
42	Common groundsel	2.3	0.6	25.0	0.1	2.2	2.2	0.8
43	Biennial wormwood	1.6	0.6	35.0	< 0.1	3.0	3.0	0.7
44	Ball mustard	3.2	0.2	5.0	< 0.1	0.2	0.2	0.7
45	Henbit	3.1	0.2	5.0	< 0.1	0.2	0.2	0.7
46	Rose species	2.3	0.2	10.0	< 0.1	0.8	0.8	0.6
47	Wheat	1.6	0.3	20.0	< 0.1	2.0	2.0	0.5
48	Tall buttercup	1.9	0.2	10.0	< 0.1	1.2	1.2	0.5
49	Kochia	2.3	0.1	5.0	< 0.1	0.2	0.2	0.5
50	Night-flowering catchfly	1.9	0.2	10.0	< 0.1	0.4	0.4	0.5
51	Goldenrod species	2.2	0.1	5.0	< 0.1	0.2	0.2	0.5
52	Marsh yellow cress	1.9	0.1	5.0	< 0.1	0.2	0.2	0.4

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Field Survey Summary Tables – Oat

Table 11. 2010 oat fields in Alberta (41 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Wormseed mustard	1.9	0.1	5.0	< 0.1	0.2	0.2	0.4
54	Cow cockle	1.9	0.1	5.0	< 0.1	0.2	0.2	0.4
55	Prostrate knotweed	1.6	0.1	5.0	< 0.1	0.4	0.4	0.4
56	Scentless chamomile	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
57	Barnyard grass	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
58	Smooth brome	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3
59	Mouse-eared chickweed	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3

Table 12. 2010 broad-leaved annual crops in Alberta (317 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	47.3	13.2	27.8	1.5	3.2	72.8	33.1
2	Cleavers	21.5	6.2	28.6	3.2	15.1	135.8	30.3
3	Wheat	23.2	6.4	27.6	0.8	3.5	28.8	16.7
4	Field horsetail	17.0	4.4	25.8	1.3	7.4	50.2	15.8
5	Canada thistle	33.5	4.9	14.5	0.5	1.4	16.0	15.2
6	Wild oats	19.5	4.8	24.6	0.9	4.4	32.8	14.4
7	Lamb's-quarters	26.4	4.5	17.1	0.5	2.0	22.8	13.6
8	Chickweed	13.4	3.9	29.1	1.1	8.1	41.2	13.4
9	Stinkweed	19.4	3.7	19.1	0.8	3.9	35.2	12.6
10	Dandelion	24.3	4.5	18.4	0.3	1.2	10.0	11.8
11	Shepherd's-purse	15.0	4.0	27.0	0.7	4.5	31.2	11.5
12	Narrow-leaved hawk's-beard	18.4	3.8	20.9	0.5	2.6	24.4	10.9
13	Spiny annual sow-thistle	13.3	2.8	20.7	0.8	5.7	101.0	10.3
14	Perennial sow-thistle	15.9	3.6	22.9	0.4	2.7	69.0	9.8
15	Quack grass	10.0	2.5	24.8	0.3	3.4	24.2	6.8
16	Canola	9.8	2.0	20.8	0.3	3.5	85.4	6.3
17	Barley	10.7	1.9	18.1	0.2	2.2	14.4	5.8
18	Hemp-nettle	11.3	1.3	11.8	0.1	1.0	4.0	4.6
19	Pineappleweed	5.0	1.4	27.6	0.3	6.5	32.4	4.5
20	Western marsh cudweed	2.7	0.8	28.5	0.5	17.8	76.0	4.2
21	Kochia	5.3	1.2	23.4	0.3	4.9	62.2	4.0
22	Stork's-bill	4.1	0.9	21.9	0.2	4.1	29.2	2.8
23	Clover species	7.1	0.8	11.7	0.1	0.8	3.2	2.8
24	Tartary buckwheat	4.2	1.1	25.7	0.1	2.5	11.8	2.6
25	Redroot pigweed	5.6	0.8	14.5	0.1	1.4	4.6	2.6
26	Flixweed	6.2	0.7	10.5	< 0.1	0.6	2.8	2.3
27	Pale smartweed	4.9	0.8	16.7	0.1	1.2	3.6	2.3
28	Bluebur	3.3	0.5	15.4	0.1	3.7	18.8	2.0
29	Alfalfa	4.3	0.6	14.3	< 0.1	1.0	7.2	1.8
30	Povertyweed	2.3	0.4	18.3	0.1	5.6	20.0	1.7
31	Scentless chamomile	2.2	0.6	26.9	0.1	2.6	8.2	1.5
32	Green foxtail	2.8	0.5	16.3	< 0.1	1.6	6.0	1.3
33	Common groundsel	3.0	0.3	10.8	0.1	1.8	8.8	1.3
34	Foxtail barley	2.8	0.4	13.8	< 0.1	1.5	4.8	1.3
35	Field bindweed	1.7	0.6	34.3	< 0.1	2.5	9.0	1.2
36	Round-leaved mallow	2.5	0.4	15.9	< 0.1	1.7	7.8	1.2
37	Thyme-leaved spurge	1.4	0.5	33.1	0.1	4.8	15.0	1.2
38	Henbit	0.7	0.3	39.7	0.1	17.6	47.0	1.2
39	Russian thistle	1.6	0.4	21.5	< 0.1	2.6	10.8	1.0
40	Purple vetchling	2.4	0.2	8.9	< 0.1	0.5	0.8	0.8
41	Prostrate knotweed	1.9	0.3	14.8	< 0.1	0.7	1.0	0.8
42	Corn spurry	1.5	0.2	14.1	< 0.1	1.5	4.4	0.7
43	Pygmyflower	0.4	0.3	70.0	< 0.1	11.6	11.6	0.7
44	Oats	0.9	0.2	23.1	< 0.1	4.8	12.2	0.7
45	Rough cinquefoil	1.2	0.3	21.4	< 0.1	1.3	2.6	0.6
46	Wild mustard	1.3	0.2	11.9	< 0.1	1.0	1.2	0.5
47	Yellow sweet-clover	1.3	0.2	13.2	< 0.1	0.7	1.6	0.5
48	False ragweed	0.5	0.3	57.9	< 0.1	2.6	3.2	0.5
49	Downy brome	0.7	0.2	27.2	< 0.1	3.0	5.2	0.5
50	White cockle	0.5	0.2	42.9	< 0.1	3.8	6.8	0.5
51	Kentucky blue grass	0.2	< 0.1	25.0	0.1	32.8	32.8	0.5
52	Goat's-beard	1.0	0.2	15.9	< 0.1	0.7	1.4	0.4

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Field Survey Summary Tables – Broad-leaved annual crops

Table 12. 2010 broad-leaved annual crops in Alberta (317 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Ball mustard	0.5	0.1	22.5	< 0.1	4.5	7.4	0.4
54	Volunteer grain	0.6	0.2	26.7	< 0.1	1.6	2.6	0.4
55	Biennial wormwood	1.0	0.1	7.6	< 0.1	0.5	1.2	0.3
56	Purslane speedwell	0.4	0.1	25.1	< 0.1	1.5	2.8	0.3
57	Dock species	0.6	0.1	12.5	< 0.1	1.2	2.2	0.3
58	Field peas	0.5	0.1	19.7	< 0.1	1.0	1.6	0.2
59	Cow cockle	0.6	0.1	9.3	< 0.1	0.5	1.0	0.2
60	Rose species	0.7	< 0.1	5.0	< 0.1	0.4	1.0	0.2
61	Prickly lettuce	0.3	< 0.1	5.0	< 0.1	4.2	4.2	0.2
62	Prostrate pigweed	0.5	< 0.1	7.5	< 0.1	0.3	0.4	0.2
63	Common pepper-grass	0.2	0.1	30.0	< 0.1	4.2	4.2	0.1
64	Red fescue	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Spear-leaved goosefoot	0.3	< 0.1	15.0	< 0.1	1.2	1.2	0.1
66	Slough grass	0.3	< 0.1	15.0	< 0.1	1.0	1.0	0.1
67	Tansy	0.4	< 0.1	5.0	< 0.1	0.6	0.6	0.1
68	Purslane	0.3	< 0.1	10.0	< 0.1	0.8	0.8	0.1
69	Canada fleabane	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
70	Black medick	0.3	< 0.1	15.0	< 0.1	0.6	0.6	0.1
71	Two-grooved milk-vetch	0.2	< 0.1	10.0	< 0.1	3.0	3.0	0.1
72	Common yarrow	0.3	< 0.1	10.0	< 0.1	0.8	0.8	0.1
73	Yellow toadflax	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
74	Orchard grass	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
75	Golden corydalis	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
76	Linear-leaved plantain	0.2	< 0.1	15.0	< 0.1	1.2	1.2	0.1
77	Field mint	0.3	< 0.1	5.0	< 0.1	1.0	1.0	0.1
78	Small-seeded false flax	0.3	< 0.1	5.0	< 0.1	0.8	0.8	0.1
79	Common burdock	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Cream-colored vetchling	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
81	Caraway	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
82	Broad-leaved plantain	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 13. 2010 canola fields in Alberta (252 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	47.2	13.7	29.0	1.6	3.4	72.8	40.2
2	Wheat	25.0	6.7	26.9	0.9	3.5	28.8	21.0
3	Cleavers	21.6	4.9	22.8	1.0	4.5	60.6	18.7
4	Lamb's-quarters	26.1	4.6	17.7	0.6	2.2	22.8	16.3
5	Wild oats	18.1	4.3	24.0	0.7	4.0	26.0	15.2
6	Canada thistle	28.9	4.2	14.4	0.4	1.4	16.0	15.0
7	Shepherd's-purse	15.6	3.9	25.1	0.7	4.6	31.2	14.0
8	Field horsetail	18.6	3.7	19.8	0.6	3.3	42.6	13.7
9	Stinkweed	18.1	3.6	19.7	0.6	3.5	35.2	13.6
10	Dandelion	21.9	3.9	18.0	0.3	1.3	10.0	12.1
11	Narrow-leaved hawk's-beard	14.2	3.3	23.0	0.5	3.3	24.4	11.0
12	Spiny annual sow-thistle	9.2	1.7	19.0	0.7	8.1	101.0	10.1
13	Quack grass	11.5	2.7	23.3	0.4	3.3	24.2	8.9
14	Perennial sow-thistle	13.1	3.0	22.9	0.2	1.5	6.6	8.3
15	Chickweed	11.5	2.0	17.1	0.4	3.1	36.2	7.9
16	Western marsh cudweed	3.1	0.9	28.4	0.6	18.3	76.0	6.3
17	Pineappleweed	4.1	1.5	35.7	0.4	9.1	32.4	5.7
18	Hemp-nettle	10.5	1.3	12.7	0.1	1.0	4.0	5.0
19	Barley	8.3	1.4	16.4	0.1	1.8	14.4	4.8
20	Stork's-bill	4.9	1.1	23.0	0.2	4.3	29.2	4.2
21	Kochia	4.2	0.7	16.7	0.2	5.0	62.2	3.5
22	Redroot pigweed	5.5	0.8	14.6	0.1	1.3	4.6	2.8
23	Clover species	6.6	0.7	10.4	< 0.1	0.7	2.4	2.8
24	Flixweed	6.1	0.6	10.3	< 0.1	0.6	2.8	2.5
25	Bluebur	3.1	0.5	17.6	0.1	4.5	18.8	2.5
26	Green foxtail	3.3	0.5	16.9	0.1	1.7	6.0	1.9
27	Henbit	0.9	0.4	39.7	0.2	17.6	47.0	1.9
28	Thyme-leaved spurge	1.4	0.6	42.4	0.1	6.3	15.0	1.7
29	Tartary buckwheat	3.1	0.5	14.8	0.1	1.7	6.0	1.7
30	Alfalfa	2.6	0.6	23.6	< 0.1	1.7	7.2	1.7
31	Round-leaved mallow	2.8	0.5	16.1	0.1	1.9	7.8	1.6
32	Povertyweed	2.3	0.3	14.3	0.1	3.6	10.4	1.6
33	Scentless chamomile	1.5	0.5	32.9	0.1	3.8	8.2	1.4
34	Foxtail barley	2.6	0.4	15.1	< 0.1	1.7	4.8	1.4
35	Pale smartweed	3.5	0.3	9.1	< 0.1	0.5	1.4	1.4
36	Common groundsel	2.4	0.3	11.4	0.1	2.5	8.8	1.4
37	Canola	1.8	0.4	20.3	< 0.1	1.5	4.6	1.1
38	Pygmyflower	0.5	0.4	70.0	0.1	11.6	11.6	1.1
39	Oats	1.2	0.3	23.1	0.1	4.8	12.2	1.0
40	Prostrate knotweed	2.0	0.3	17.1	< 0.1	0.8	1.0	1.0
41	Field bindweed	1.8	0.3	19.0	< 0.1	1.0	4.6	1.0
42	Rough cinquefoil	1.5	0.3	21.4	< 0.1	1.3	2.6	0.9
43	Corn spurry	1.7	0.3	15.7	< 0.1	1.3	4.4	0.9
44	Kentucky blue grass	0.2	0.1	25.0	0.1	32.8	32.8	0.8
45	Wild mustard	1.7	0.2	11.9	< 0.1	1.0	1.2	0.8
46	False ragweed	0.7	0.4	57.9	< 0.1	2.6	3.2	0.7
47	Yellow sweet-clover	1.6	0.2	13.2	< 0.1	0.7	1.6	0.7
48	Ball mustard	0.6	0.1	22.5	< 0.1	4.5	7.4	0.6
49	Purple vetchling	1.1	0.1	6.9	< 0.1	0.6	0.8	0.4
50	Downy brome	0.6	0.1	20.3	< 0.1	1.8	2.2	0.4
51	Purslane speedwell	0.6	0.1	25.1	< 0.1	1.5	2.8	0.4
52	Dock species	0.8	0.1	12.5	< 0.1	1.2	2.2	0.4

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Field Survey Summary Tables – Canola

Table 13. 2010 canola fields in Alberta (252 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Field peas	0.6	0.1	19.7	< 0.1	1.0	1.6	0.3
54	Rose species	0.9	< 0.1	5.0	< 0.1	0.4	1.0	0.3
55	White cockle	0.4	0.1	30.0	< 0.1	1.6	1.6	0.3
56	Volunteer grain	0.4	0.1	20.0	< 0.1	0.8	0.8	0.2
57	Common pepper-grass	0.2	0.1	30.0	< 0.1	4.2	4.2	0.2
58	Russian thistle	0.5	0.1	10.0	< 0.1	0.4	0.4	0.2
59	Red fescue	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
60	Spear-leaved goosefoot	0.4	0.1	15.0	< 0.1	1.2	1.2	0.2
61	Slough grass	0.4	0.1	15.0	< 0.1	1.0	1.0	0.2
62	Tansy	0.5	< 0.1	5.0	< 0.1	0.6	0.6	0.2
63	Canada fleabane	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.2
64	Cow cockle	0.3	< 0.1	15.0	< 0.1	1.0	1.0	0.2
65	Biennial wormwood	0.5	< 0.1	5.0	< 0.1	0.3	0.4	0.2
66	Black medick	0.3	< 0.1	15.0	< 0.1	0.6	0.6	0.2
67	Two-grooved milk-vetch	0.3	< 0.1	10.0	< 0.1	3.0	3.0	0.2
68	Yellow toadflax	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
69	Linear-leaved plantain	0.2	< 0.1	15.0	< 0.1	1.2	1.2	0.1
70	Field mint	0.3	< 0.1	5.0	< 0.1	1.0	1.0	0.1
71	Golden corydalis	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
72	Small-seeded false flax	0.3	< 0.1	5.0	< 0.1	0.8	0.8	0.1
73	Prostrate pigweed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
74	Caraway	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
75	Goat's-beard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
76	Broad-leaved plantain	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 14. 2010 field pea fields in Alberta (65 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Cleavers	21.4	10.5	49.3	11.3	52.9	135.8	46.4
2	Chickweed	20.1	10.7	53.2	3.7	18.3	41.2	22.8
3	Wild buckwheat	47.8	11.2	23.5	1.2	2.5	20.8	20.2
4	Field horsetail	11.5	7.0	60.3	3.6	30.8	50.2	18.1
5	Canola	37.9	7.9	20.9	1.5	3.9	85.4	16.9
6	Canada thistle	50.1	7.3	14.6	0.7	1.3	9.2	16.1
7	Wild oats	24.5	6.5	26.5	1.4	5.6	32.8	13.2
8	Perennial sow-thistle	25.5	5.8	22.7	1.3	4.9	69.0	12.6
9	Spiny annual sow-thistle	28.0	6.4	22.8	0.8	3.0	29.2	12.1
10	Dandelion	33.0	6.4	19.4	0.4	1.1	2.6	11.5
11	Narrow-leaved hawk's-beard	33.1	5.8	17.6	0.5	1.5	5.8	11.5
12	Stinkweed	23.8	4.2	17.7	1.2	5.1	11.4	10.9
13	Wheat	16.9	5.3	31.6	0.6	3.5	9.8	8.7
14	Lamb's-quarters	27.2	4.1	15.1	0.3	1.1	4.4	8.6
15	Barley	19.5	4.0	20.6	0.5	2.7	9.6	8.0
16	Shepherd's-purse	12.7	4.5	35.1	0.5	4.3	16.6	7.2
17	Kochia	9.0	3.1	34.5	0.4	4.7	23.4	5.2
18	Tartary buckwheat	8.0	3.2	40.5	0.3	3.5	11.8	4.6
19	Pale smartweed	9.6	2.6	26.7	0.2	2.1	3.6	4.2
20	Hemp-nettle	14.1	1.3	9.3	0.1	0.9	2.4	3.8
21	Quack grass	5.0	1.9	37.6	0.2	4.3	11.0	2.9
22	Clover species	8.7	1.3	15.1	0.1	1.2	3.2	2.8
23	Pineappleweed	8.2	1.0	12.8	0.1	1.7	2.8	2.6
24	Russian thistle	5.6	1.4	25.4	0.2	3.3	10.8	2.6
25	Alfalfa	10.3	0.6	6.0	< 0.1	0.3	1.6	2.3
26	Redroot pigweed	6.2	0.9	13.9	0.1	1.8	4.6	2.1
27	Povertyweed	2.3	0.7	32.5	0.3	12.6	20.0	1.8
28	Flixweed	6.7	0.7	11.0	< 0.1	0.5	1.2	1.8
29	Purple vetchling	7.0	0.7	10.0	< 0.1	0.4	0.4	1.8
30	Field bindweed	1.5	1.5	100.0	0.1	9.0	9.0	1.8
31	Scentsless chamomile	4.7	0.9	20.0	0.1	1.2	1.2	1.7
32	Common groundsel	4.9	0.5	9.7	< 0.1	0.6	1.6	1.3
33	Goat's-beard	3.7	0.7	18.9	< 0.1	0.8	1.4	1.2
34	Bluebur	3.9	0.4	9.4	0.1	1.4	4.0	1.1
35	Foxtail barley	3.8	0.4	10.8	< 0.1	1.0	1.4	1.1
36	Western marsh cudweed	1.2	0.3	30.0	0.2	13.6	13.6	0.9
37	White cockle	1.0	0.6	60.0	0.1	6.8	6.8	0.8
38	Downy brome	1.1	0.5	40.0	0.1	5.2	5.2	0.7
39	Biennial wormwood	2.7	0.2	9.3	< 0.1	0.6	1.2	0.7
40	Volunteer grain	1.2	0.4	35.0	< 0.1	2.6	2.6	0.6
41	Prickly lettuce	1.5	0.1	5.0	0.1	4.2	4.2	0.5
42	Round-leaved mallow	1.5	0.2	15.0	< 0.1	0.6	0.6	0.5
43	Purslane	1.5	0.2	10.0	< 0.1	0.8	0.8	0.4
44	Prostrate knotweed	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
45	Thyme-leaved spurge	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
46	Cow cockle	1.5	0.1	5.0	< 0.1	0.2	0.2	0.3
47	Common yarrow	1.2	0.1	10.0	< 0.1	0.8	0.8	0.3
48	Prostrate pigweed	1.2	0.1	10.0	< 0.1	0.4	0.4	0.3
49	Orchard grass	1.2	0.1	10.0	< 0.1	0.4	0.4	0.3
50	Corn spurry	1.0	0.1	5.0	< 0.1	2.4	2.4	0.3
51	Green foxtail	1.0	0.1	10.0	< 0.1	0.4	0.4	0.3
52	Common burdock	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2

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Field Survey Summary Tables – Field pea

Table 14. 2010 field pea fields in Alberta (65 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Stork's-bill	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
54	Cream-colored vetchling	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2

Table 15. 2010 perennial crops in Alberta (35 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Dandelion	85.7	56.6	66.0	16.3	19.1	102.0	114.9
2	Downy brome	6.9	6.9	100.0	6.4	93.0	93.0	24.7
3	Timothy	13.1	11.4	86.7	4.1	30.9	81.6	24.1
4	Quack grass	16.9	5.9	34.8	5.0	29.8	348.0	22.9
5	Canada thistle	23.3	3.3	14.0	0.3	1.1	2.8	9.6
6	Common yarrow	6.3	2.7	43.7	0.9	14.2	25.4	6.4
7	Wild buckwheat	17.9	1.6	9.0	0.1	0.5	1.0	6.3
8	Smooth brome	11.4	2.1	18.8	0.4	3.2	5.2	5.8
9	Narrow-leaved hawk's-beard	12.1	2.6	21.5	0.2	1.3	2.2	5.8
10	Rough cinquefoil	10.5	2.3	22.1	0.3	2.7	3.8	5.5
11	Spiny annual sow-thistle	7.8	2.3	29.9	0.3	3.2	9.8	4.7
12	Lamb's-quarters	9.9	1.6	16.0	0.2	1.8	2.6	4.5
13	Goat's-beard	13.9	0.7	5.0	< 0.1	0.2	0.2	4.3
14	Perennial sow-thistle	10.5	1.3	12.8	0.1	1.1	3.8	4.2
15	Annual blue grass	1.2	0.6	50.0	1.2	101.6	101.6	4.0
16	Clover species	11.8	0.6	5.5	0.1	0.7	3.2	3.9
17	Hemp-nettle	8.5	1.3	15.5	0.2	1.9	3.6	3.8
18	Field horsetail	7.1	1.6	22.7	0.2	2.6	5.6	3.8
19	Wild oats	7.6	1.4	18.3	0.2	2.4	2.8	3.7
20	Foxtail barley	10.3	0.7	6.5	0.1	0.6	0.8	3.4
21	Stinkweed	10.8	0.5	5.0	< 0.1	0.3	0.4	3.4
22	Chickweed	5.3	1.2	21.9	0.2	3.0	7.8	2.8
23	Broad-leaved plantain	6.8	0.7	10.0	< 0.1	0.4	0.6	2.4
24	Rose species	7.5	0.4	5.0	< 0.1	0.4	1.2	2.4
25	Barnyard grass	1.2	0.2	20.0	0.6	55.2	55.2	2.2
26	Sweet grass	5.1	0.5	10.0	0.1	1.0	1.0	1.9
27	Canola	6.1	0.3	5.0	< 0.1	0.2	0.2	1.9
28	Common reed	5.1	0.5	10.0	< 0.1	0.6	0.6	1.9
29	American vetch	4.1	0.4	10.0	0.1	1.4	1.4	1.6
30	Goldenrod species	3.5	0.5	15.0	0.1	1.8	1.8	1.5
31	Cleavers	3.8	0.5	13.3	< 0.1	0.8	1.2	1.5
32	Stork's-bill	3.8	0.3	6.7	< 0.1	0.3	0.4	1.2
33	Shepherd's-purse	2.8	0.2	7.2	< 0.1	0.7	1.0	1.0
34	Marsh hedge-nettle	3.0	0.2	5.0	< 0.1	0.2	0.2	0.9
35	Pineappleweed	2.8	0.1	5.0	< 0.1	0.2	0.2	0.9
36	Green foxtail	1.5	0.3	20.0	< 0.1	2.4	2.4	0.8
37	Common pepper-grass	1.5	0.3	20.0	< 0.1	0.8	0.8	0.7
38	Biennial wormwood	1.5	0.1	5.0	0.1	4.0	4.0	0.6
39	Prostrate knotweed	1.5	0.2	10.0	< 0.1	1.2	1.2	0.6
40	Flixweed	1.5	0.1	5.0	< 0.1	0.8	0.8	0.5
41	Redroot pigweed	1.5	0.1	5.0	< 0.1	0.2	0.2	0.5
42	Pygmyflower	1.5	0.1	5.0	< 0.1	0.6	0.6	0.5
43	Prostrate pigweed	1.5	0.1	5.0	< 0.1	0.2	0.2	0.5
44	Canada fleabane	1.3	0.1	10.0	< 0.1	0.4	0.4	0.5
45	Pasture sage	1.3	0.1	10.0	< 0.1	0.4	0.4	0.5
46	Narrow-leaved milk-vetch	0.7	0.1	10.0	< 0.1	0.6	0.6	0.3

Field Survey Summary Tables – Number of Fields by Crop by Ecoregion

Table 16. Number of fields surveyed by crop in each ecoregion

	Annual crops								Perennial crops
	Cereal					Broad-leaved			
	Spring wheat	Durum	Barley	Oat	Mixed cereal	Canola	Field peas	Mixed annuals	Perennial crops
Peace Lowland	21	-	10	6	-	37	8	-	4
Boreal Transition	18	-	42	17	7	39	3	1	14
Aspen Parkland	127	-	87	10	3	122	26	-	12
Moist Mixed Grassland	93	8	57	6	4	31	19	-	3
Fescue Grassland	13	-	17	1	1	14	2	-	1
Mixed Grassland	64	25	29	1	1	9	7	-	1
Alberta	336	33	242	41	16	252	65	1	35

Field Survey Summary Tables – Density, Species Richness and Weed-Free Quadrats by Ecoregion

Table 17. Density, species richness and weed-free quadrats in the surveyed crops in each ecoregion

Area	Number of fields surveyed	Density (number/m ²)			Species (number /field)		Weed-free quadrats	
		mean	SE	median	mean	SE	%	SE
Peace Lowland								
Annual crops	82	43.9	10.4	5.3	5.4	0.5	49.5	5.5
Cereal crops	37	55.1	19.7	4.8	5.2	0.7	50.1	8.2
Spring wheat	21	17.7	8.1	3.9	4.4	0.7	58.0	10.8
Barley	10	78.3	38.0	33.6	6.9	1.5	37.6	15.3
Broad-leaved annual crops	45	35.3	10.0	5.3	5.6	0.7	49.0	7.5
Canola	37	15.9	4.0	4.6	4.8	0.6	54.5	8.2
Boreal Transition								
Annual crops	127	22.4	4.8	7.6	4.3	0.3	40.4	4.4
Cereal crops	84	28.6	7.0	8.8	4.6	0.4	38.5	5.3
Spring wheat	18	11.8	4.5	5.0	3.8	0.7	51.7	11.8
Barley	42	31.2	13.2	5.5	4.0	0.4	40.3	7.6
Oat	17	25.3	8.0	15.5	5.9	0.9	26.0	10.6
Broad-leaved annual crops	42	10.1	2.3	6.6	3.8	0.4	43.5	7.7
Canola	39	8.5	1.7	5.4	3.6	0.4	47.4	8.0
Perennial crops	14	26.5	4.2	20.1	3.5	0.7	13.6	9.2
Aspen Parkland								
Annual crops	375	20.7	1.9	8.0	4.5	0.2	42.0	2.5
Cereal crops	227	25.0	2.9	10.1	4.6	0.2	39.4	3.2
Spring wheat	127	26.7	4.0	10.6	4.3	0.3	39.0	4.3
Barley	87	20.9	3.8	7.0	4.8	0.3	41.2	5.3
Oat	10	42.4	23.5	8.4	5.0	1.1	37.6	15.3
Broad-leaved annual crops	148	13.7	1.6	5.9	4.4	0.3	46.2	4.1
Canola	122	11.3	1.5	4.7	3.9	0.3	51.2	4.5
Field pea	26	25.0	5.2	13.1	6.7	0.6	22.6	8.2
Perennial crops	12	39.4	9.0	27.7	5.1	0.6	13.4	9.8
Moist Mixed Grassland								
Annual crops	218	21.1	4.1	4.8	4.2	0.2	49.8	3.4
Cereal crops	168	23.7	5.3	5.0	4.1	0.3	49.4	3.9
Spring wheat	93	26.3	8.4	4.9	4.1	0.3	49.4	5.2
Barley	57	17.5	5.5	4.8	3.7	0.4	52.0	6.6
Broad-leaved annual crops	50	13.1	3.0	3.8	4.4	0.4	51.1	7.1
Canola	31	18.7	4.6	4.8	4.9	0.6	45.2	8.9
Field pea	19	3.9	0.8	2.8	3.5	0.5	60.9	11.2
Fescue Grassland								
Annual crops	48	13.2	3.1	3.3	3.7	0.5	52.0	7.2
Cereal crops	32	13.2	3.6	4.0	3.5	0.5	52.5	8.8
Spring wheat	13	15.4	5.1	9.8	4.1	0.8	43.4	13.7
Barley	17	10.8	5.6	2.2	3.1	0.7	62.9	11.7
Broad-leaved annual crops	16	13.2	5.6	2.9	3.9	1.0	51.1	12.5
Canola	14	13.9	6.3	2.9	4.1	1.1	52.3	13.3
Mixed Grassland								
Annual crops	136	13.3	2.7	4.2	4.0	0.3	52.4	4.3
Cereal crops	120	14.2	3.1	4.1	3.9	0.3	51.9	4.6
Spring wheat	64	13.4	3.1	4.3	3.7	0.4	52.6	6.2
Durum	25	9.6	3.7	2.4	3.7	0.6	58.6	9.9
Barley	29	19.6	10.4	4.3	4.3	0.6	46.7	9.3
Broad-leaved annual crops	16	7.9	2.0	4.8	4.2	1.0	55.4	12.4

Field Survey Summary Tables –Peace Lowland Annual Crops

Table 18. 2010 annual crops in the Peace Lowland Ecoregion (82 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Cleavers	37.4	11.9	31.8	8.6	22.9	135.8	36.3
2	Wild buckwheat	45.2	13.7	30.3	5.8	12.8	313.6	32.9
3	Field horsetail	45.2	12.1	26.8	4.4	9.8	50.4	28.6
4	Dandelion	29.8	9.4	31.5	2.5	8.4	102.4	19.1
5	Narrow-leaved hawk's-beard	34.2	9.3	27.1	2.0	5.9	28.8	18.6
6	Stinkweed	27.1	5.9	21.9	2.1	7.8	57.6	14.8
7	Canola	26.8	7.2	26.8	1.3	5.0	25.6	14.0
8	Lamb's-quarters	27.4	5.9	21.5	1.6	6.0	65.6	13.7
9	Clover species	25.3	4.4	17.5	2.0	8.0	162.4	13.0
10	Hemp-nettle	24.4	4.5	18.6	1.4	5.6	57.6	11.4
11	Chickweed	10.6	5.0	47.3	2.1	20.3	41.2	11.0
12	Spiny annual sow-thistle	13.6	3.2	23.3	1.7	12.6	101.0	9.1
13	Canada thistle	28.1	2.8	10.0	0.5	1.6	16.0	8.6
14	Corn spurry	2.0	1.8	91.3	2.6	130.6	160.0	7.8
15	Wild oats	17.6	2.4	13.8	0.3	1.8	6.6	6.0
16	Pineappleweed	7.9	2.1	27.2	1.0	12.9	57.8	5.6
17	Pale smartweed	11.4	1.7	14.8	0.5	4.2	47.2	4.6
18	Quack grass	9.6	1.6	17.2	0.6	5.8	23.2	4.4
19	Meadow brome	4.5	3.0	65.0	0.4	8.4	8.4	4.2
20	Shepherd's-purse	12.8	1.3	10.5	0.3	2.1	12.0	4.1
21	Alfalfa	10.7	1.6	15.2	0.3	2.4	19.2	3.9
22	Wheat	9.8	1.2	12.1	0.2	2.0	8.6	3.3
23	Perennial sow-thistle	11.6	0.8	7.3	0.2	1.5	9.6	3.2
24	Red fescue	8.6	0.9	10.3	0.1	0.8	1.4	2.5
25	Common groundsel	8.4	0.5	6.2	0.1	1.3	8.8	2.2
26	Purple vetchling	8.2	0.7	8.4	< 0.1	0.4	0.8	2.2
27	Barley	6.7	0.8	11.3	0.1	1.7	2.2	2.1
28	Dock species	1.9	0.3	15.7	0.6	30.1	56.0	1.9
29	Redroot pigweed	6.0	0.5	7.8	0.1	2.2	8.0	1.8
30	White cockle	1.2	0.5	40.0	0.3	26.4	26.4	1.3
31	American vetch	2.0	0.5	23.8	0.2	7.8	18.4	1.1
32	Foxtail barley	4.1	0.3	8.2	< 0.1	0.6	1.8	1.1
33	Rough cinquefoil	2.4	0.4	15.0	< 0.1	0.8	0.8	0.8
34	Broad-leaved plantain	3.1	0.2	6.6	< 0.1	0.7	1.0	0.8
35	Bluebur	2.4	0.3	11.8	< 0.1	0.7	0.8	0.7
36	Yellow sweet-clover	1.8	0.2	12.5	< 0.1	0.6	0.8	0.5
37	Willowherb species	1.8	0.1	5.0	< 0.1	0.2	0.2	0.4
38	Rose species	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Grass	1.0	0.1	10.0	< 0.1	1.6	1.6	0.3
40	Oats	1.2	0.1	5.0	< 0.1	1.6	1.6	0.3
41	Spear-leaved goosefoot	0.9	0.1	15.0	< 0.1	1.2	1.2	0.3
42	Henbit	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.2
43	Northern bedstraw	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
44	Tartary buckwheat	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
45	Golden corydalis	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
46	Kochia	0.1	< 0.1	10.0	< 0.1	4.0	4.0	< 0.1

Field Survey Summary Tables – Peace Lowland Cereal Crops

Table 19. 2010 cereal crops in the Peace Lowland Ecoregion (37 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	48.2	18.8	39.1	11.8	24.6	313.6	45.1
2	Dandelion	36.4	13.5	37.1	5.3	14.6	102.4	26.9
3	Narrow-leaved hawk's-beard	36.5	14.5	39.7	4.0	11.0	28.8	25.3
4	Canola	45.3	14.1	31.1	2.9	6.5	25.6	24.8
5	Clover species	30.9	6.3	20.6	4.4	14.3	162.4	18.8
6	Field horsetail	38.1	6.5	17.0	2.6	6.8	50.4	17.0
7	Hemp-nettle	25.6	7.4	28.9	2.8	11.0	57.6	15.7
8	Corn spurry	4.5	4.2	91.3	5.9	130.6	160.0	14.8
9	Lamb's-quarters	12.1	5.9	49.0	2.8	23.0	65.6	11.8
10	Cleavers	29.8	5.9	19.8	0.6	2.1	11.2	11.4
11	Meadow brome	10.4	6.8	65.0	0.9	8.4	8.4	8.7
12	Pale smartweed	14.6	2.8	19.5	1.0	7.1	47.2	6.9
13	Stinkweed	7.2	3.1	42.7	1.7	23.7	57.6	6.8
14	Pineappleweed	6.6	2.1	31.7	1.5	23.1	57.8	5.6
15	Red fescue	16.3	1.9	11.4	0.2	1.0	1.4	4.9
16	Canada thistle	15.4	1.8	11.6	0.2	1.2	3.2	4.7
17	Chickweed	9.4	2.3	24.0	0.6	6.0	24.8	4.5
18	Spiny annual sow-thistle	6.6	2.6	40.0	0.5	7.7	14.0	4.2
19	Perennial sow-thistle	15.4	0.8	5.0	0.3	1.9	9.6	4.1
20	Redroot pigweed	13.6	1.1	7.8	0.3	2.2	8.0	4.0
21	Alfalfa	6.1	2.3	37.3	0.5	8.7	19.2	3.9
22	Shepherd's-purse	10.6	1.2	11.4	0.5	4.6	12.0	3.9
23	Quack grass	5.2	1.6	31.1	0.9	16.4	23.2	3.8
24	Common groundsel	14.8	0.8	5.7	< 0.1	0.2	0.4	3.6
25	Wild oats	12.1	1.0	8.1	0.3	2.2	6.6	3.6
26	Dock species	2.4	0.6	25.0	1.3	56.0	56.0	3.3
27	White cockle	2.6	1.1	40.0	0.7	26.4	26.4	2.6
28	American vetch	4.5	1.1	23.8	0.4	7.8	18.4	2.3
29	Broad-leaved plantain	7.0	0.5	6.6	< 0.1	0.7	1.0	1.8
30	Foxtail barley	5.3	0.3	5.0	< 0.1	0.2	0.2	1.3
31	Willowherb species	4.2	0.2	5.0	< 0.1	0.2	0.2	1.0
32	Grass	2.4	0.2	10.0	< 0.1	1.6	1.6	0.7
33	Oats	2.6	0.1	5.0	< 0.1	1.6	1.6	0.7
34	Purple vetchling	2.6	0.1	5.0	< 0.1	0.2	0.2	0.6
35	Wheat	2.2	0.1	5.0	< 0.1	0.2	0.2	0.5
36	Northern bedstraw	2.0	0.1	5.0	< 0.1	0.2	0.2	0.5
37	Kochia	0.3	< 0.1	10.0	< 0.1	4.0	4.0	0.1

Field Survey Summary Tables –Peace Lowland Spring Wheat

Table 20. 2010 spring wheat fields in the Peace Lowland Ecoregion (21 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	51.9	10.4	20.0	3.8	7.3	74.2	48.3
2	Field horsetail	39.7	8.1	20.4	3.9	9.7	50.4	42.6
3	Canola	43.5	10.7	24.5	2.2	5.2	25.6	38.1
4	Pineappleweed	8.7	3.9	45.0	3.0	34.4	57.8	24.5
5	Clover species	22.0	3.0	13.5	1.2	5.4	23.4	16.0
6	Canada thistle	30.5	3.5	11.6	0.4	1.2	3.2	14.0
7	Spiny annual sow-thistle	8.7	4.3	50.0	0.9	10.9	14.0	13.6
8	Narrow-leaved hawk's-beard	27.1	3.6	13.4	0.4	1.5	3.2	13.6
9	Dandelion	24.2	3.4	14.2	0.2	0.9	4.0	11.6
10	Wild oats	24.1	1.9	8.1	0.5	2.2	6.6	11.2
11	Cleavers	20.2	2.6	12.8	0.1	0.7	1.6	9.2
12	Lamb's-quarters	10.6	3.3	31.4	0.3	2.8	6.4	9.0
13	Hemp-nettle	18.9	2.3	12.2	0.1	0.7	1.4	8.3
14	Redroot pigweed	21.8	1.3	6.1	0.2	0.8	1.6	7.8
15	Pale smartweed	14.6	0.7	5.0	< 0.1	0.2	0.2	4.5
16	Alfalfa	6.9	1.4	20.0	0.1	0.8	0.8	3.9
17	Shepherd's-purse	11.2	0.6	5.5	0.1	0.7	5.6	3.9
18	Red fescue	11.8	0.6	5.0	< 0.1	0.2	0.2	3.7
19	Foxtail barley	10.6	0.5	5.0	< 0.1	0.2	0.2	3.3
20	Willowherb species	8.4	0.4	5.0	< 0.1	0.2	0.2	2.6
21	Grass	4.7	0.5	10.0	0.1	1.6	1.6	2.2
22	Chickweed	5.3	0.3	5.0	< 0.1	0.2	0.2	1.6
23	Perennial sow-thistle	4.7	0.2	5.0	< 0.1	0.8	0.8	1.6
24	Broad-leaved plantain	4.3	0.2	5.0	< 0.1	0.4	0.4	1.4
25	Common groundsel	4.3	0.2	5.0	< 0.1	0.2	0.2	1.3
26	Northern bedstraw	4.0	0.2	5.0	< 0.1	0.2	0.2	1.2
27	Quack grass	1.4	0.1	5.0	< 0.1	2.0	2.0	0.6
28	Kochia	0.6	0.1	10.0	< 0.1	4.0	4.0	0.3

Table 21. 2010 barley fields in the Peace Lowland Ecoregion (10 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	51.8	36.8	71.0	28.1	54.2	313.6	61.3
2	Narrow-leaved hawk's-beard	54.1	31.9	59.0	9.0	16.7	28.8	35.0
3	Canola	57.8	24.9	43.1	5.2	8.9	16.8	27.2
4	Dandelion	51.4	19.4	37.8	1.7	3.4	5.0	19.2
5	Meadow brome	30.7	19.9	65.0	2.6	8.4	8.4	17.5
6	Hemp-nettle	34.0	12.7	37.2	4.8	14.2	45.6	17.4
7	Cleavers	57.8	13.6	23.5	1.6	2.8	11.2	17.2
8	Corn spurry	7.8	6.6	85.0	8.5	109.4	109.4	15.2
9	Stinkweed	21.2	9.0	42.7	5.0	23.7	57.6	13.9
10	Clover species	44.9	5.9	13.2	1.5	3.4	18.2	11.5
11	Perennial sow-thistle	38.5	1.9	5.0	0.8	2.1	9.6	7.7
12	Red fescue	30.7	4.6	15.0	0.4	1.4	1.4	7.3
13	Dock species	6.9	1.7	25.0	3.9	56.0	56.0	6.8
14	Common groundsel	37.1	2.2	5.9	0.1	0.2	0.4	6.7
15	Field horsetail	30.7	1.5	5.0	0.2	0.6	0.6	5.5
16	Shepherd's-purse	14.7	2.6	17.9	1.3	9.0	12.0	5.2
17	Quack grass	7.8	2.7	35.0	1.8	23.2	23.2	4.8
18	Chickweed	14.2	2.3	16.3	0.2	1.7	2.8	3.5
19	Broad-leaved plantain	14.2	1.0	7.3	0.1	0.8	1.0	2.8
20	Redroot pigweed	7.8	1.2	15.0	0.6	8.0	8.0	2.5
21	Pale smartweed	7.8	1.6	20.0	0.3	4.0	4.0	2.3
22	Spiny annual sow-thistle	6.4	1.3	20.0	0.1	1.2	1.2	1.7
23	Oats	7.8	0.4	5.0	0.1	1.6	1.6	1.5
24	American vetch	7.8	0.4	5.0	< 0.1	0.2	0.2	1.4
25	Purple vetchling	7.8	0.4	5.0	< 0.1	0.2	0.2	1.4
26	Pineappleweed	6.4	0.3	5.0	< 0.1	0.4	0.4	1.1
27	Lamb's-quarters	6.4	0.3	5.0	< 0.1	0.2	0.2	1.1
28	Wheat	6.4	0.3	5.0	< 0.1	0.2	0.2	1.1

Field Survey Summary Tables –Peace Lowland Broad-Leaved Annual Crops

Table 22. 2010 broad-leaved annual crops in the Peace Lowland Ecoregion (45 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Cleavers	43.2	16.5	38.1	14.7	34.0	135.8	64.5
2	Field horsetail	50.8	16.5	32.4	5.8	11.5	50.2	40.7
3	Stinkweed	42.6	8.2	19.2	2.4	5.7	35.2	21.9
4	Wild buckwheat	42.8	9.7	22.6	1.1	2.5	20.8	19.5
5	Chickweed	11.5	7.1	62.1	3.4	29.4	41.2	18.1
6	Lamb's-quarters	39.3	5.9	14.9	0.8	1.9	17.6	14.5
7	Spiny annual sow-thistle	19.1	3.6	18.8	2.7	14.0	101.0	14.3
8	Canada thistle	37.9	3.6	9.5	0.7	1.7	16.0	11.9
9	Narrow-leaved hawk's-beard	32.4	5.2	16.1	0.4	1.4	10.6	11.8
10	Dandelion	24.7	6.2	25.1	0.3	1.4	2.6	11.1
11	Wild oats	21.8	3.5	16.2	0.3	1.6	5.2	8.1
12	Hemp-nettle	23.5	2.3	9.9	0.2	1.0	4.0	7.0
13	Clover species	21.0	3.0	14.1	0.2	0.9	2.4	7.0
14	Wheat	15.8	2.0	12.9	0.3	2.2	8.6	5.6
15	Pineappleweed	8.9	2.2	24.7	0.6	7.2	32.4	5.4
16	Quack grass	12.9	1.7	12.8	0.3	2.4	7.0	4.7
17	Shepherd's-purse	14.5	1.5	10.0	0.1	0.6	1.8	4.2
18	Canola	12.5	1.8	14.7	0.1	0.7	1.2	4.2
19	Barley	11.8	1.3	11.3	0.2	1.7	2.2	3.9
20	Alfalfa	14.3	1.1	7.9	< 0.1	0.3	1.0	3.7
21	Purple vetchling	12.5	1.1	8.9	0.1	0.5	0.8	3.4
22	Perennial sow-thistle	8.7	0.9	10.5	0.1	0.9	1.2	2.6
23	Pale smartweed	9.0	0.8	8.9	0.1	0.6	1.4	2.5
24	Rough cinquefoil	4.3	0.6	15.0	< 0.1	0.8	0.8	1.4
25	Common groundsel	3.5	0.3	7.6	0.2	4.6	8.8	1.3
26	Bluebur	4.3	0.5	11.8	< 0.1	0.7	0.8	1.3
27	Foxtail barley	3.1	0.4	12.5	< 0.1	1.2	1.8	1.0
28	Yellow sweet-clover	3.1	0.4	12.5	< 0.1	0.6	0.8	1.0
29	Rose species	2.8	0.1	5.0	< 0.1	0.2	0.2	0.6
30	Red fescue	2.6	0.1	5.0	< 0.1	0.2	0.2	0.6
31	Spear-leaved goosefoot	1.6	0.2	15.0	< 0.1	1.2	1.2	0.6
32	Henbit	1.7	0.1	5.0	< 0.1	0.2	0.2	0.4
33	Tartary buckwheat	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
34	Golden corydalis	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
35	Dock species	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4

Table 23. 2010 canola fields in the Peace Lowland Ecoregion (37 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Field horsetail	52.3	11.4	21.8	2.3	4.4	42.6	39.8
2	Cleavers	38.9	8.3	21.3	2.5	6.4	60.6	34.0
3	Spiny annual sow-thistle	14.7	4.3	29.0	3.5	24.0	101.0	30.6
4	Stinkweed	34.3	7.6	22.0	1.8	5.4	35.2	28.2
5	Lamb's-quarters	35.9	6.0	16.7	0.9	2.5	17.6	20.7
6	Wild buckwheat	34.7	6.9	20.0	0.5	1.5	6.6	19.1
7	Canada thistle	29.2	3.5	12.1	0.7	2.3	16.0	14.7
8	Wild oats	23.1	4.0	17.5	0.4	1.7	5.2	12.3
9	Narrow-leaved hawk's-beard	19.4	4.3	21.9	0.4	1.9	10.6	11.7
10	Pineappleweed	8.2	2.6	31.3	0.8	9.2	32.4	9.7
11	Dandelion	19.9	3.3	16.7	0.2	0.9	2.2	9.4
12	Quack grass	17.2	2.2	12.8	0.4	2.4	7.0	9.0
13	Clover species	19.9	2.9	14.5	0.2	0.9	2.4	8.9
14	Wheat	17.4	1.8	10.4	0.4	2.0	8.6	8.1
15	Hemp-nettle	18.3	1.9	10.4	0.2	1.1	4.0	7.4
16	Shepherd's-purse	17.0	1.7	10.1	0.1	0.6	1.8	6.4
17	Pale smartweed	12.0	1.1	8.9	0.1	0.6	1.4	4.3
18	Perennial sow-thistle	8.1	0.7	8.6	0.1	0.8	1.0	3.0
19	Rough cinquefoil	5.7	0.9	15.0	< 0.1	0.8	0.8	2.5
20	Bluebur	5.7	0.7	11.8	< 0.1	0.7	0.8	2.3
21	Alfalfa	4.8	0.8	16.3	< 0.1	0.7	1.0	2.2
22	Common groundsel	2.4	0.2	10.0	0.2	8.8	8.8	2.2
23	Purple vetchling	5.8	0.4	6.9	< 0.1	0.6	0.8	1.9
24	Foxtail barley	4.2	0.5	12.5	0.1	1.2	1.8	1.8
25	Chickweed	4.5	0.3	7.7	0.1	1.4	2.4	1.8
26	Yellow sweet-clover	4.2	0.5	12.5	< 0.1	0.6	0.8	1.7
27	Rose species	3.7	0.2	5.0	< 0.1	0.2	0.2	1.0
28	Spear-leaved goosefoot	2.1	0.3	15.0	< 0.1	1.2	1.2	1.0
29	Red fescue	3.4	0.2	5.0	< 0.1	0.2	0.2	1.0
30	Barley	2.7	0.1	5.0	< 0.1	0.2	0.2	0.8
31	Henbit	2.3	0.1	5.0	< 0.1	0.2	0.2	0.6
32	Tartary buckwheat	2.1	0.1	5.0	< 0.1	0.2	0.2	0.6
33	Golden corydalis	2.1	0.1	5.0	< 0.1	0.2	0.2	0.6
34	Dock species	2.1	0.1	5.0	< 0.1	0.2	0.2	0.6

Field Survey Summary Tables – Boreal Transition Annual Crops

Table 24. 2010 annual crops in the Boreal Transition Ecoregion (127 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Corn spurry	10.7	4.4	41.2	5.0	46.4	362.0	28.3
2	Wild buckwheat	39.5	14.4	36.5	1.6	4.0	27.8	27.9
3	Dandelion	35.7	9.8	27.4	1.1	3.1	29.0	21.1
4	Chickweed	21.5	7.7	35.8	2.1	9.6	56.0	20.4
5	Canada thistle	35.7	8.2	23.1	0.8	2.4	16.2	18.7
6	Lamb's-quarters	19.5	6.8	34.8	1.8	9.1	67.2	18.0
7	Stinkweed	17.9	7.6	42.5	1.5	8.4	32.8	17.0
8	Hemp-nettle	25.8	6.9	26.6	1.1	4.3	33.2	16.4
9	Canola	26.7	7.0	26.0	0.6	2.4	17.8	14.7
10	Wild oats	24.1	5.9	24.5	0.9	3.6	18.6	14.3
11	Quack grass	9.4	3.4	35.8	0.9	9.9	59.8	9.1
12	Cleavers	13.3	4.3	32.2	0.6	4.2	19.6	9.0
13	Perennial sow-thistle	13.4	4.4	32.7	0.5	3.4	27.0	8.7
14	Pale smartweed	14.5	3.6	25.1	0.4	2.7	28.2	8.1
15	Clover species	9.6	3.1	31.8	0.5	5.5	16.4	7.1
16	Tartary buckwheat	10.4	3.3	31.6	0.3	2.5	11.8	6.3
17	Shepherd's-purse	10.3	2.6	25.1	0.3	2.5	7.2	5.6
18	Field horsetail	11.8	2.2	18.7	0.2	2.0	11.2	5.6
19	Spiny annual sow-thistle	4.0	1.9	47.2	0.5	11.7	36.4	4.5
20	Narrow-leaved hawk's-beard	8.0	1.5	18.8	0.2	3.0	17.2	4.1
21	Alfalfa	5.0	1.5	30.5	0.2	4.9	25.4	3.5
22	Barley	5.2	1.7	32.5	0.2	4.0	14.4	3.5
23	Flixweed	4.8	0.7	15.1	< 0.1	0.7	1.2	1.8
24	False ragweed	2.3	1.1	47.3	0.1	2.2	3.2	1.6
25	Scentless chamomile	3.6	0.7	18.6	< 0.1	1.1	1.2	1.6
26	Green foxtail	3.8	0.5	14.3	< 0.1	0.9	1.2	1.5
27	Field bindweed	1.1	0.8	75.0	0.1	7.6	7.6	1.3
28	Ball mustard	2.2	0.6	27.5	0.1	2.8	5.4	1.3
29	White cockle	2.5	0.5	20.1	0.1	2.2	6.8	1.2
30	Redroot pigweed	3.4	0.3	10.1	< 0.1	0.6	1.2	1.2
31	Wheat	2.7	0.4	16.2	< 0.1	1.3	1.8	1.1
32	Rough cinquefoil	1.9	0.5	28.7	0.1	2.9	7.4	1.1
33	Night-flowering catchfly	1.6	0.4	27.2	0.1	5.1	8.6	1.1
34	Stork's-bill	1.7	0.4	26.6	0.1	3.6	5.6	1.0
35	Black medick	0.8	0.6	75.0	0.1	7.2	7.2	1.0
36	Common groundsel	1.6	0.5	27.5	< 0.1	2.5	2.8	0.9
37	Wild mustard	1.6	0.4	24.2	< 0.1	2.0	5.6	0.8
38	Oats	0.7	0.3	40.0	0.1	12.2	12.2	0.8
39	Small-seeded false flax	1.8	0.3	15.0	< 0.1	2.0	2.0	0.8
40	Pineappleweed	2.2	0.3	13.3	< 0.1	0.5	0.8	0.8
41	Yellow toadflax	1.7	0.2	10.3	< 0.1	2.6	4.6	0.7
42	Foxtail barley	1.8	0.3	14.2	< 0.1	0.8	1.4	0.7
43	Showy milkweed	1.6	0.3	17.5	< 0.1	1.1	1.4	0.7
44	Pasture sage	0.6	0.2	40.0	< 0.1	7.2	7.2	0.5
45	Henbit	0.8	0.2	30.0	< 0.1	2.2	2.2	0.5
46	Prostrate knotweed	1.4	0.1	8.2	< 0.1	0.3	0.4	0.4
47	Yellow sweet-clover	1.3	0.1	7.7	< 0.1	0.8	1.4	0.4
48	Broad-leaved plantain	1.2	0.1	5.0	< 0.1	0.7	1.2	0.4
49	Wormseed mustard	1.2	0.1	7.1	< 0.1	0.3	0.4	0.4
50	Golden corydalis	0.7	0.1	20.0	< 0.1	2.6	2.6	0.3
51	Two-grooved milk-vetch	0.6	0.1	10.0	< 0.1	3.0	3.0	0.3
52	Slender wheat grass	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3

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Table 24. 2010 annual crops in the Boreal Transition Ecoregion (127 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Common pepper-grass	0.6	0.1	15.0	< 0.1	1.4	1.4	0.3
54	Tall buttercup	0.7	0.1	10.0	< 0.1	1.2	1.2	0.3
55	Grass	0.6	0.1	10.0	< 0.1	1.0	1.0	0.2
56	Marsh yellow cress	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
57	Barnyard grass	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
58	American vetch	0.5	0.1	10.0	< 0.1	0.6	0.6	0.2
59	Smooth brome	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
60	Mouse-eared chickweed	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Field Survey Summary Tables – Boreal Transition Cereal Crops

Table 25. 2010 cereal crops in the Boreal Transition Ecoregion (84 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Corn spurry	11.3	5.8	50.8	7.4	64.9	362.0	32.3
2	Wild buckwheat	44.9	16.3	36.3	1.8	4.1	27.8	27.9
3	Dandelion	39.4	12.4	31.5	1.5	3.8	29.0	22.6
4	Chickweed	22.9	9.7	42.2	2.6	11.5	56.0	21.1
5	Canada thistle	37.5	10.1	26.9	1.1	3.0	16.2	19.3
6	Hemp-nettle	30.6	9.3	30.2	1.6	5.2	33.2	18.9
7	Lamb's-quarters	19.5	7.8	40.2	2.5	12.8	67.2	18.6
8	Canola	34.0	9.1	26.7	0.9	2.5	17.8	16.9
9	Stinkweed	17.3	8.1	47.1	1.8	10.7	32.8	16.1
10	Wild oats	26.4	6.7	25.4	1.1	4.0	18.6	14.2
11	Cleavers	16.4	4.8	29.3	0.6	3.9	19.6	9.3
12	Perennial sow-thistle	13.8	4.5	32.7	0.6	4.1	27.0	8.2
13	Clover species	9.5	4.3	45.8	0.8	8.0	16.4	7.8
14	Pale smartweed	15.7	3.7	23.5	0.5	3.0	28.2	7.7
15	Shepherd's-purse	12.2	2.8	22.7	0.3	2.2	7.2	5.6
16	Spiny annual sow-thistle	5.2	2.7	52.0	0.7	13.3	36.4	5.5
17	Quack grass	5.3	1.4	26.8	0.9	17.5	59.8	5.4
18	Tartary buckwheat	10.0	2.3	22.9	0.2	1.6	6.6	4.4
19	Alfalfa	6.5	2.1	32.9	0.3	5.4	25.4	4.2
20	Field horsetail	9.7	1.3	13.4	0.2	1.9	8.4	3.7
21	Narrow-leaved hawk's-beard	8.4	0.9	11.1	0.1	0.9	3.4	2.8
22	Ball mustard	3.4	0.9	27.5	0.1	2.8	5.4	1.7
23	Field bindweed	1.7	1.3	75.0	0.1	7.6	7.6	1.7
24	Green foxtail	4.5	0.6	12.7	< 0.1	0.8	1.2	1.5
25	Rough cinquefoil	2.8	0.8	28.7	0.1	2.9	7.4	1.5
26	Night-flowering catchfly	2.4	0.7	27.2	0.1	5.1	8.6	1.4
27	Black medick	1.2	0.9	75.0	0.1	7.2	7.2	1.2
28	Barley	1.2	0.9	75.0	0.1	5.6	5.6	1.2
29	Wild mustard	2.4	0.6	24.2	< 0.1	2.0	5.6	1.1
30	Pineappleweed	3.3	0.4	13.3	< 0.1	0.5	0.8	1.1
31	Small-seeded false flax	2.7	0.4	15.0	0.1	2.0	2.0	1.1
32	Yellow toadflax	2.6	0.3	10.3	0.1	2.6	4.6	1.0
33	Flixweed	3.0	0.4	12.1	< 0.1	0.5	1.2	1.0
34	Stork's-bill	1.4	0.5	40.0	0.1	5.6	5.6	1.0
35	Foxtail barley	2.8	0.4	14.2	< 0.1	0.8	1.4	1.0
36	Showy milkweed	2.5	0.4	17.5	< 0.1	1.1	1.4	0.9
37	White cockle	2.7	0.1	5.0	< 0.1	0.4	0.8	0.7
38	Redroot pigweed	2.1	0.2	11.4	< 0.1	0.7	1.2	0.7
39	Pasture sage	0.9	0.4	40.0	0.1	7.2	7.2	0.7
40	Henbit	1.2	0.4	30.0	< 0.1	2.2	2.2	0.6
41	Prostrate knotweed	2.1	0.2	8.2	< 0.1	0.3	0.4	0.6
42	Common groundsel	1.2	0.3	25.0	< 0.1	2.2	2.2	0.6
43	Yellow sweet-clover	1.9	0.1	7.7	< 0.1	0.8	1.4	0.6
44	Broad-leaved plantain	1.8	0.1	5.0	< 0.1	0.7	1.2	0.5
45	Wormseed mustard	1.8	0.1	7.1	< 0.1	0.3	0.4	0.5
46	False ragweed	1.1	0.3	25.0	< 0.1	1.4	1.4	0.5
47	Golden corydalis	1.0	0.2	20.0	< 0.1	2.6	2.6	0.4
48	Slender wheat grass	1.4	0.1	5.0	< 0.1	0.2	0.2	0.4
49	Tall buttercup	1.0	0.1	10.0	< 0.1	1.2	1.2	0.3
50	Common pepper-grass	0.9	0.1	15.0	< 0.1	1.4	1.4	0.3
51	Grass	0.9	0.1	10.0	< 0.1	1.0	1.0	0.3
52	Marsh yellow cress	1.0	0.1	5.0	< 0.1	0.2	0.2	0.3

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Field Survey Summary Tables – Boreal Transition Cereal Crops

Table 25. 2010 cereal crops in the Boreal Transition Ecoregion (84 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Barnyard grass	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.3
54	Scentless chamomile	0.8	0.1	10.0	< 0.1	0.6	0.6	0.2
55	American vetch	0.8	0.1	10.0	< 0.1	0.6	0.6	0.2
56	Smooth brome	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
57	Mouse-eared chickweed	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Field Survey Summary Tables – Boreal Transition Spring Wheat

Table 26. 2010 spring wheat fields in the Boreal Transition Ecoregion (18 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Canola	49.4	10.6	21.4	0.8	1.6	9.8	31.3
2	Perennial sow-thistle	25.3	9.8	38.6	1.6	6.2	27.0	30.7
3	Cleavers	28.2	10.0	35.5	1.4	5.0	19.6	30.4
4	Wild buckwheat	33.4	11.0	32.9	0.8	2.3	6.6	27.4
5	Canada thistle	30.7	7.8	25.4	1.0	3.4	10.0	25.4
6	Chickweed	15.8	6.6	42.2	1.6	10.2	33.4	25.0
7	Wild oats	33.6	5.0	14.8	0.8	2.5	9.4	21.4
8	Hemp-nettle	19.8	5.9	29.6	1.0	4.9	21.8	19.9
9	Dandelion	19.4	4.7	24.1	0.5	2.6	8.4	14.5
10	Tartary buckwheat	25.5	3.2	12.4	0.1	0.6	1.4	11.5
11	Field horsetail	12.2	3.1	25.7	0.5	4.2	8.4	11.0
12	Night-flowering catchfly	5.1	2.0	40.0	0.4	8.6	8.6	7.2
13	Showy milkweed	9.1	1.6	17.5	0.1	1.1	1.4	5.0
14	Pasture sage	3.3	1.3	40.0	0.2	7.2	7.2	4.4
15	Yellow toadflax	5.1	0.8	15.0	0.2	4.6	4.6	4.1
16	Green foxtail	8.9	0.9	10.7	0.1	0.8	1.2	4.0
17	Henbit	4.5	1.4	30.0	0.1	2.2	2.2	3.5
18	Pale smartweed	3.8	1.1	30.0	0.1	1.6	1.6	2.8
19	False ragweed	4.1	1.0	25.0	0.1	1.4	1.4	2.7
20	Quack grass	4.5	0.7	15.0	0.1	1.6	1.6	2.5
21	Small-seeded false flax	5.1	0.3	5.0	0.1	2.0	2.0	2.5
22	Shepherd's-purse	5.1	0.5	10.0	0.1	1.2	1.2	2.4
23	Prostrate knotweed	5.1	0.5	10.0	< 0.1	0.4	0.4	2.1
24	Pineappleweed	3.3	0.7	20.0	< 0.1	0.8	0.8	1.8
25	Corn spurry	3.3	0.7	20.0	< 0.1	0.8	0.8	1.8
26	Lamb's-quarters	5.1	0.3	5.0	< 0.1	0.2	0.2	1.7
27	Narrow-leaved hawk's-beard	4.5	0.2	5.0	< 0.1	0.2	0.2	1.5
28	White cockle	3.8	0.2	5.0	< 0.1	0.8	0.8	1.5

Table 27. 2010 barley fields in the Boreal Transition Ecoregion (42 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Corn spurry	12.6	4.3	34.1	13.5	106.6	362.0	49.9
2	Wild buckwheat	39.1	16.2	41.4	2.1	5.2	27.8	29.9
3	Chickweed	29.4	12.5	42.4	3.4	11.5	56.0	28.7
4	Dandelion	41.6	12.6	30.2	1.8	4.4	29.0	26.8
5	Canada thistle	37.8	10.2	27.1	1.1	3.0	16.2	21.7
6	Wild oats	27.6	8.8	31.9	1.3	4.7	18.6	18.5
7	Canola	28.0	9.2	32.8	1.1	3.9	17.8	18.2
8	Spiny annual sow-thistle	9.8	5.8	59.2	1.5	15.5	36.4	12.2
9	Hemp-nettle	19.7	4.8	24.2	0.4	2.1	8.4	10.3
10	Pale smartweed	16.4	4.5	27.7	0.4	2.5	5.2	9.3
11	Cleavers	14.4	4.0	27.9	0.5	3.8	16.0	8.7
12	Lamb's-quarters	13.2	3.5	26.3	0.5	3.9	18.6	7.8
13	Quack grass	6.9	2.1	30.4	1.3	19.2	59.8	7.7
14	Alfalfa	10.4	3.5	33.5	0.6	6.0	25.4	7.5
15	Perennial sow-thistle	10.9	3.6	32.8	0.3	2.6	4.2	6.6
16	Clover species	5.7	2.5	44.5	0.4	6.9	10.4	4.8
17	Black medick	2.7	2.0	75.0	0.2	7.2	7.2	3.0
18	Stinkweed	7.4	1.1	14.5	0.1	1.0	2.8	3.0
19	Tartary buckwheat	4.5	1.4	30.0	0.1	2.3	4.0	2.6
20	Shepherd's-purse	6.7	0.7	10.5	0.1	0.9	1.4	2.5
21	Stork's-bill	3.0	1.2	40.0	0.2	5.6	5.6	2.3
22	Narrow-leaved hawk's-beard	6.4	0.6	9.0	< 0.1	0.6	1.2	2.2
23	Green foxtail	4.7	0.7	15.0	< 0.1	0.7	1.0	1.9
24	Redroot pigweed	4.7	0.5	11.4	< 0.1	0.7	1.2	1.7
25	Small-seeded false flax	3.0	0.8	25.0	0.1	2.0	2.0	1.6
26	Yellow sweet-clover	4.3	0.3	7.7	< 0.1	0.8	1.4	1.5
27	Wild mustard	3.7	0.4	10.0	< 0.1	0.4	0.4	1.3
28	Field horsetail	3.7	0.3	7.7	< 0.1	0.7	0.8	1.2
29	Pineappleweed	3.0	0.5	15.0	< 0.1	0.6	0.6	1.2
30	Flixweed	2.7	0.3	10.0	< 0.1	0.4	0.4	0.9
31	Slender wheat grass	3.0	0.2	5.0	< 0.1	0.2	0.2	0.9
32	Common pepper-grass	2.0	0.3	15.0	< 0.1	1.4	1.4	0.8
33	Grass	2.0	0.2	10.0	< 0.1	1.0	1.0	0.7
34	Barnyard grass	2.2	0.1	5.0	< 0.1	0.2	0.2	0.7
35	Scentsless chamomile	1.7	0.2	10.0	< 0.1	0.6	0.6	0.6
36	Foxtail barley	1.7	0.1	5.0	< 0.1	0.4	0.4	0.5

Field Survey Summary Tables – Boreal Transition Oat

Table 28. 2010 oat fields in the Boreal Transition Ecoregion (17 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Hemp-nettle	54.7	17.8	32.6	2.9	5.3	33.2	30.4
2	Dandelion	50.0	23.0	46.0	2.0	4.0	6.8	28.9
3	Lamb's-quarters	36.8	9.1	24.7	3.4	9.3	67.2	24.8
4	Stinkweed	36.4	14.0	38.4	2.5	6.8	27.0	23.5
5	Wild buckwheat	45.9	16.0	34.8	1.6	3.5	14.6	22.8
6	Canola	40.6	11.2	27.6	0.8	2.0	7.0	16.2
7	Canada thistle	35.2	10.8	30.8	1.0	3.0	6.2	16.0
8	Clover species	19.7	9.9	50.3	1.8	9.3	16.4	15.9
9	Corn spurry	9.5	7.6	80.0	2.3	24.6	24.6	15.0
10	Shepherd's-purse	22.7	11.2	49.3	1.2	5.2	7.2	14.6
11	Wild oats	21.5	6.5	30.4	1.2	5.7	12.8	12.0
12	Field bindweed	9.5	7.1	75.0	0.7	7.6	7.6	8.3
13	Rough cinquefoil	16.0	4.6	28.7	0.5	2.9	7.4	7.0
14	Chickweed	12.8	4.8	37.3	0.5	3.6	5.8	6.6
15	Barley	7.0	5.2	75.0	0.4	5.6	5.6	5.5
16	Tartary buckwheat	5.8	4.7	80.0	0.4	6.6	6.6	5.0
17	Alfalfa	10.2	3.2	31.4	0.4	3.8	6.0	5.0
18	Pale smartweed	10.2	2.5	25.0	0.2	2.3	3.6	4.0
19	Cleavers	12.7	1.6	12.3	0.1	0.8	1.0	3.4
20	Foxtail barley	11.3	2.0	17.7	0.1	0.9	1.4	3.4
21	Narrow-leaved hawk's-beard	7.0	1.7	25.0	0.2	3.4	3.4	3.1
22	Wild mustard	4.4	2.4	55.0	0.2	5.6	5.6	3.0
23	Flixweed	10.2	1.4	13.6	0.1	0.6	1.2	2.7
24	Common groundsel	7.0	1.7	25.0	0.2	2.2	2.2	2.7
25	Field horsetail	9.5	1.0	10.0	0.1	1.4	1.4	2.7
26	Broad-leaved plantain	10.2	0.5	5.0	0.1	0.7	1.2	2.3
27	White cockle	9.5	0.5	5.0	< 0.1	0.2	0.2	2.0
28	Ball mustard	9.5	0.5	5.0	< 0.1	0.2	0.2	2.0
29	Perennial sow-thistle	7.0	0.7	10.0	0.1	0.8	0.8	1.8
30	Tall buttercup	5.8	0.6	10.0	0.1	1.2	1.2	1.6
31	Night-flowering catchfly	5.8	0.6	10.0	< 0.1	0.4	0.4	1.4
32	Marsh yellow cress	5.8	0.3	5.0	< 0.1	0.2	0.2	1.2
33	Wormseed mustard	5.8	0.3	5.0	< 0.1	0.2	0.2	1.2
34	Pineappleweed	5.8	0.3	5.0	< 0.1	0.2	0.2	1.2
35	Spiny annual sow-thistle	4.3	0.4	10.0	< 0.1	0.4	0.4	1.0
36	Smooth brome	4.3	0.2	5.0	< 0.1	0.2	0.2	0.9
37	Mouse-eared chickweed	4.3	0.2	5.0	< 0.1	0.2	0.2	0.9

Field Survey Summary Tables – Boreal Transition Broad-Leaved Annual Crops

Table 29. 2010 broad-leaved annual crops in the Boreal Transition Ecoregion (42 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	29.2	10.8	37.1	1.1	3.9	16.8	30.5
2	Quack grass	18.0	7.4	41.3	1.0	5.4	24.2	22.3
3	Stinkweed	19.7	6.7	34.3	0.8	4.3	11.4	20.7
4	Chickweed	19.1	3.9	20.2	0.9	4.8	39.0	18.3
5	Canada thistle	32.8	4.6	14.0	0.3	0.9	3.6	16.5
6	Dandelion	29.1	4.7	16.2	0.3	1.2	6.2	16.2
7	Lamb's-quarters	19.9	4.8	24.1	0.3	1.7	3.4	13.7
8	Tartary buckwheat	11.6	5.4	46.8	0.5	4.3	11.8	13.7
9	Wild oats	17.7	3.8	21.4	0.4	2.5	4.4	13.1
10	Field horsetail	16.4	4.1	25.0	0.4	2.2	11.2	12.3
11	Barley	13.4	3.3	24.6	0.5	3.6	14.4	11.9
12	Narrow-leaved hawk's-beard	7.4	2.7	36.5	0.6	7.7	17.2	10.5
13	Perennial sow-thistle	13.0	4.3	32.8	0.2	1.7	3.2	10.2
14	Pale smartweed	12.3	3.6	29.3	0.2	1.9	2.4	9.5
15	Cleavers	7.1	3.3	45.9	0.4	5.7	11.2	9.4
16	Canola	12.3	2.8	22.4	0.2	1.9	4.6	8.5
17	Hemp-nettle	16.6	2.1	12.7	0.1	0.6	0.8	7.6
18	Shepherd's-purse	6.6	2.3	34.6	0.2	3.6	6.8	6.5
19	Corn spurry	9.7	1.8	18.4	0.2	2.1	4.4	6.4
20	Scentless chamomile	9.5	1.9	20.0	0.1	1.2	1.2	5.7
21	False ragweed	4.8	2.8	57.9	0.1	2.6	3.2	5.4
22	Wheat	8.2	1.3	16.2	0.1	1.3	1.8	4.6
23	Flixweed	8.5	1.5	17.3	0.1	0.7	0.8	4.4
24	Oats	2.3	0.9	40.0	0.3	12.2	12.2	4.3
25	Clover species	10.1	0.5	5.0	0.1	0.7	1.0	3.9
26	White cockle	2.1	1.3	60.0	0.1	6.8	6.8	3.3
27	Redroot pigweed	6.1	0.6	9.1	< 0.1	0.5	0.6	2.5
28	Common groundsel	2.5	0.8	30.0	0.1	2.8	2.8	2.2
29	Green foxtail	2.5	0.5	20.0	< 0.1	1.2	1.2	1.5
30	Two-grooved milk-vetch	1.9	0.2	10.0	0.1	3.0	3.0	1.2
31	Alfalfa	2.1	0.3	15.0	< 0.1	1.6	1.6	1.2
32	Stork's-bill	2.3	0.2	10.0	< 0.1	1.2	1.2	1.1
33	Spiny annual sow-thistle	1.6	0.2	15.0	< 0.1	0.8	0.8	0.8

Field Survey Summary Tables – Boreal Transition Boreal Transition Canola

Table 30. 2010 canola fields in the Boreal Transition Ecoregion (39 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	33.8	12.5	37.1	1.3	3.9	16.8	39.5
2	Quack grass	20.8	8.6	41.3	1.1	5.4	24.2	29.0
3	Stinkweed	20.3	6.9	34.2	0.7	3.5	8.4	21.9
4	Canada thistle	37.9	5.3	14.0	0.3	0.9	3.6	20.8
5	Dandelion	31.2	5.1	16.3	0.4	1.2	6.2	18.9
6	Field horsetail	18.9	4.7	25.0	0.4	2.2	11.2	15.7
7	Barley	15.5	3.8	24.6	0.6	3.6	14.4	15.4
8	Lamb's-quarters	20.5	4.7	22.8	0.3	1.5	3.2	14.9
9	Perennial sow-thistle	15.0	4.9	32.8	0.3	1.7	3.2	13.0
10	Cleavers	8.2	3.8	45.9	0.5	5.7	11.2	12.2
11	Narrow-leaved hawk's-beard	6.1	2.4	39.1	0.6	9.3	17.2	11.2
12	Chickweed	19.6	2.0	10.4	0.1	0.6	2.0	9.2
13	Hemp-nettle	16.7	2.3	13.8	0.1	0.6	0.8	8.4
14	Shepherd's-purse	7.6	2.6	34.6	0.3	3.6	6.8	8.4
15	Canola	9.7	2.4	24.7	0.2	2.0	4.6	7.7
16	False ragweed	5.5	3.2	57.9	0.1	2.6	3.2	7.0
17	Corn spurry	8.7	1.9	22.1	0.2	2.0	4.4	6.7
18	Wild oats	9.5	1.6	17.3	0.2	1.7	4.4	6.4
19	Oats	2.6	1.1	40.0	0.3	12.2	12.2	5.7
20	Flixweed	9.8	1.7	17.3	0.1	0.7	0.8	5.6
21	Clover species	11.7	0.6	5.0	0.1	0.7	1.0	4.9
22	Wheat	7.1	1.2	16.6	0.1	1.2	1.8	4.3
23	Redroot pigweed	7.1	0.6	9.1	< 0.1	0.5	0.6	3.1
24	Common groundsel	2.9	0.9	30.0	0.1	2.8	2.8	2.8
25	Green foxtail	2.9	0.6	20.0	< 0.1	1.2	1.2	1.9
26	Two-grooved milk-vetch	2.1	0.2	10.0	0.1	3.0	3.0	1.6
27	Pale smartweed	3.2	0.3	10.0	< 0.1	0.4	0.4	1.4
28	Stork's-bill	2.6	0.3	10.0	< 0.1	1.2	1.2	1.4
29	Spiny annual sow-thistle	1.8	0.3	15.0	< 0.1	0.8	0.8	1.0

Field Survey Summary Tables – Boreal Transition Perennial Crops

Table 31. 2010 perennial crops in the Boreal Transition Ecoregion (14 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Dandelion	85.2	75.9	89.1	21.3	24.9	50.4	169.3
2	Canada thistle	40.2	6.7	16.8	0.6	1.4	2.8	19.4
3	Rough cinquefoil	32.8	7.2	22.1	0.9	2.7	3.8	18.8
4	Quack grass	19.3	7.2	37.5	1.1	5.9	13.4	16.0
5	Hemp-nettle	26.6	4.1	15.5	0.5	1.9	3.6	13.1
6	Field horsetail	9.5	3.8	40.0	0.5	5.6	5.6	7.9
7	Canola	18.9	0.9	5.0	< 0.1	0.2	0.2	6.4
8	Lamb's-quarters	12.3	1.2	10.0	0.3	2.6	2.6	5.8
9	Wild buckwheat	14.3	1.0	6.7	0.1	0.4	0.8	5.1
10	Chickweed	4.8	2.7	55.0	0.4	7.8	7.8	5.1
11	Perennial sow-thistle	12.3	0.6	5.0	0.1	1.0	1.0	4.5
12	Stinkweed	9.5	0.5	5.0	< 0.1	0.4	0.4	3.3
13	Marsh hedge-nettle	9.5	0.5	5.0	< 0.1	0.2	0.2	3.2
14	Green foxtail	4.8	1.0	20.0	0.1	2.4	2.4	2.6
15	Common pepper-grass	4.8	1.0	20.0	< 0.1	0.8	0.8	2.4
16	Narrow-leaved hawk's-beard	4.8	0.7	15.0	0.1	1.8	1.8	2.3
17	Biennial wormwood	4.8	0.2	5.0	0.2	4.0	4.0	2.3
18	Foxtail barley	4.8	0.7	15.0	< 0.1	0.8	0.8	2.1
19	Prostrate knotweed	4.8	0.5	10.0	0.1	1.2	1.2	2.0
20	Flixweed	4.8	0.2	5.0	< 0.1	0.8	0.8	1.7
21	Shepherd's-purse	4.8	0.2	5.0	< 0.1	0.4	0.4	1.7
22	Redroot pigweed	4.8	0.2	5.0	< 0.1	0.2	0.2	1.6
23	Pineappleweed	4.8	0.2	5.0	< 0.1	0.2	0.2	1.6
24	Common yarrow	4.8	0.2	5.0	< 0.1	0.2	0.2	1.6

Field Survey Summary Tables – Aspen Parkland Annual Crops

Table 32. 2010 annual crops in the Aspen Parkland Ecoregion (375 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	53.2	15.2	28.5	1.7	3.1	37.4	34.5
2	Wild oats	17.1	6.7	39.0	3.6	20.8	184.0	27.4
3	Chickweed	23.7	8.1	34.1	2.6	10.8	174.0	25.3
4	Canada thistle	40.9	6.9	16.9	0.6	1.5	10.4	18.6
5	Canola	22.3	6.3	28.2	1.1	4.9	85.4	16.3
6	Cleavers	23.7	5.2	22.1	1.0	4.3	147.0	15.2
7	Spiny annual sow-thistle	16.6	5.9	35.6	1.2	7.0	76.2	14.9
8	Hemp-nettle	18.7	4.0	21.3	1.1	5.7	184.8	13.1
9	Dandelion	25.7	4.9	19.1	0.4	1.5	24.8	12.3
10	Perennial sow-thistle	18.0	3.7	20.8	0.9	5.2	189.4	12.1
11	Shepherd's-purse	15.3	3.9	25.3	0.6	3.8	29.8	9.9
12	Lamb's-quarters	19.7	3.1	15.5	0.4	1.8	18.2	9.0
13	Wheat	11.2	3.1	27.9	0.4	3.6	28.8	7.4
14	Quack grass	12.5	2.6	21.1	0.4	2.8	25.0	7.0
15	Narrow-leaved hawk's-beard	14.1	2.7	19.2	0.3	1.9	19.2	7.0
16	Stinkweed	9.8	2.0	20.5	0.4	3.9	38.4	6.0
17	Pale smartweed	7.6	1.6	20.9	0.6	7.3	151.0	5.9
18	Stork's-bill	8.8	2.1	23.2	0.3	3.3	29.2	5.3
19	Field horsetail	9.6	1.5	15.9	0.3	3.0	17.0	5.0
20	Green foxtail	6.0	1.5	24.9	0.3	5.8	90.0	4.4
21	Western marsh cudweed	3.2	0.8	25.7	0.6	17.5	76.0	4.2
22	Common groundsel	4.7	0.7	14.4	0.2	3.4	35.0	2.5
23	Tartary buckwheat	4.0	1.1	27.4	0.1	2.4	9.6	2.4
24	Barley	4.7	0.9	19.5	0.1	2.1	11.4	2.4
25	Scentless chamomile	1.6	0.8	47.1	0.2	13.7	69.2	2.2
26	Redroot pigweed	4.3	0.7	15.3	0.1	1.7	15.0	1.9
27	Pineappleweed	4.5	0.5	11.3	0.1	1.2	4.2	1.8
28	Henbit	2.4	0.5	20.2	0.1	5.9	47.0	1.7
29	Bluebur	3.0	0.4	14.9	0.1	4.0	18.8	1.7
30	Povertyweed	2.5	0.4	15.9	0.1	4.9	20.0	1.6
31	Foxtail barley	2.5	0.5	21.7	0.1	2.7	8.0	1.4
32	Slough grass	0.8	0.2	23.3	0.2	25.2	74.2	1.4
33	Broad-leaved plantain	3.5	0.4	10.1	< 0.1	0.6	2.0	1.2
34	Clover species	1.5	0.4	23.7	0.1	4.5	19.8	1.0
35	Oats	1.2	0.4	28.7	0.1	4.9	9.8	0.9
36	Corn spurry	1.4	0.3	18.4	0.1	3.8	12.4	0.8
37	Round-leaved mallow	1.2	0.3	29.1	< 0.1	4.0	7.8	0.8
38	Alfalfa	1.3	0.4	29.2	< 0.1	2.6	7.2	0.8
39	Pasture sage	1.2	0.3	23.5	< 0.1	3.6	6.2	0.8
40	Pygmyflower	0.8	0.3	45.0	< 0.1	6.2	11.6	0.7
41	Downy brome	0.9	0.2	25.0	< 0.1	5.4	14.6	0.7
42	Dock species	1.1	0.2	20.7	< 0.1	3.8	14.0	0.7
43	Thyme-leaved spurge	0.4	0.3	80.0	0.1	15.0	15.0	0.6
44	Field bindweed	1.2	0.3	24.0	< 0.1	2.0	5.0	0.6
45	Yellow toadflax	1.4	0.1	8.0	< 0.1	3.1	10.0	0.6
46	Wild mustard	1.0	0.2	23.1	< 0.1	3.3	10.8	0.6
47	White cockle	1.1	0.2	15.4	< 0.1	0.8	1.6	0.5
48	Canada fleabane	0.6	0.2	38.1	< 0.1	3.5	4.0	0.5
49	Field mint	0.5	0.1	21.3	< 0.1	9.2	16.2	0.4
50	Ball mustard	0.7	0.1	18.3	< 0.1	3.2	7.4	0.4
51	Flixweed	1.2	0.1	7.9	< 0.1	0.4	0.6	0.4
52	Yellow sweet-clover	0.9	0.1	10.4	< 0.1	0.7	1.6	0.3

(Table continued on next page)

Table 32. 2010 annual crops in the Aspen Parkland Ecoregion (375 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Black medick	0.5	0.1	17.5	< 0.1	6.2	11.8	0.3
54	Narrow-leaved milk-vetch	0.2	0.1	50.0	< 0.1	11.6	11.6	0.3
55	Kochia	0.7	0.1	12.5	< 0.1	0.7	0.8	0.2
56	Borage	0.3	0.1	45.0	< 0.1	4.6	4.6	0.2
57	Orchard grass	0.6	0.1	15.9	< 0.1	0.6	0.8	0.2
58	Wild chamomile	0.2	0.1	45.0	< 0.1	6.2	6.2	0.2
59	Prairie sage	0.7	< 0.1	7.5	< 0.1	0.4	0.6	0.2
60	Wood whitlow-grass	0.5	0.1	17.5	< 0.1	1.1	1.4	0.2
61	Prostrate knotweed	0.6	0.1	10.0	< 0.1	0.6	0.8	0.2
62	Wild tomato	0.5	0.1	12.5	< 0.1	1.3	2.4	0.2
63	Cow cockle	0.5	< 0.1	9.6	< 0.1	0.6	1.0	0.2
64	Night-flowering catchfly	0.5	< 0.1	7.5	< 0.1	0.6	1.0	0.2
65	Biennial wormwood	0.5	< 0.1	10.0	< 0.1	0.8	1.2	0.2
66	Nuttall's alkali grass	0.2	< 0.1	5.0	< 0.1	9.2	9.2	0.2
67	Flax	0.3	0.1	20.0	< 0.1	3.6	3.6	0.2
68	Small-seeded false flax	0.5	< 0.1	5.0	< 0.1	0.5	0.8	0.2
69	Common burdock	0.5	< 0.1	7.5	< 0.1	0.3	0.4	0.1
70	Persian darnel	0.3	0.1	20.0	< 0.1	2.0	2.0	0.1
71	Prostrate pigweed	0.2	< 0.1	20.0	< 0.1	3.8	3.8	0.1
72	American vetch	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
73	Poplar species	0.4	< 0.1	5.0	< 0.1	0.3	0.4	0.1
74	Kentucky blue grass	0.3	< 0.1	5.0	< 0.1	2.6	2.6	0.1
75	Rose species	0.3	< 0.1	10.0	< 0.1	0.6	0.6	0.1
76	Spear-leaved goosefoot	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
77	Dog mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
78	Purple vetchling	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
79	Common yarrow	0.2	< 0.1	10.0	< 0.1	0.8	0.8	0.1
80	Barnyard grass	0.3	< 0.1	5.0	< 0.1	0.6	0.6	0.1
81	Purslane speedwell	0.2	< 0.1	10.0	< 0.1	0.6	0.6	0.1
82	Smooth brome	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
83	Western snowberry	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
84	Rough cinquefoil	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
85	Cream-colored vetchling	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
86	Field peas	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
87	Cicer milk-vetch	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
88	Goldenrod species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
89	Caraway	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
90	Water smartweed	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1

Field Survey Summary Tables – Aspen Parkland Cereal Crops

Table 33. 2010 cereal crops in the Aspen Parkland Ecoregion (227 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	55.0	16.7	30.3	1.9	3.4	37.4	34.6
2	Wild oats	16.3	7.4	45.2	5.1	31.0	184.0	30.5
3	Chickweed	25.4	10.0	39.5	3.6	14.3	174.0	29.2
4	Canola	29.6	8.5	28.7	1.4	4.6	44.4	19.7
5	Canada thistle	45.2	7.6	16.8	0.7	1.5	10.4	19.6
6	Spiny annual sow-thistle	19.3	7.4	38.2	1.6	8.1	76.2	17.2
7	Hemp-nettle	24.4	5.7	23.3	1.7	6.8	184.8	17.1
8	Cleavers	23.7	5.7	24.2	1.4	5.8	147.0	15.9
9	Dandelion	26.4	5.1	19.3	0.4	1.7	24.8	12.2
10	Perennial sow-thistle	15.4	3.0	19.7	1.0	6.7	189.4	10.2
11	Pale smartweed	10.4	2.2	21.5	0.9	8.4	151.0	7.8
12	Lamb's-quarters	16.1	2.4	15.0	0.3	1.7	18.2	6.8
13	Shepherd's-purse	12.3	2.6	21.3	0.4	3.1	29.8	6.6
14	Quack grass	12.7	2.3	18.3	0.3	2.5	25.0	6.2
15	Green foxtail	8.5	2.1	25.1	0.5	6.3	90.0	6.0
16	Stork's-bill	11.2	2.4	21.4	0.3	2.3	19.6	5.7
17	Stinkweed	8.4	2.0	23.8	0.4	5.1	38.4	5.4
18	Narrow-leaved hawk's-beard	10.6	1.9	17.8	0.2	1.8	19.2	4.8
19	Field horsetail	8.9	1.3	15.2	0.3	3.4	16.2	4.4
20	Common groundsel	4.9	0.9	17.3	0.2	4.9	35.0	2.8
21	Western marsh cudweed	2.2	0.5	23.3	0.3	14.0	56.2	2.2
22	Scentless chamomile	1.1	0.7	61.7	0.3	26.2	69.2	2.0
23	Tartary buckwheat	2.7	1.1	40.8	0.1	3.1	9.6	1.9
24	Redroot pigweed	4.5	0.7	15.1	0.1	1.6	15.0	1.9
25	Broad-leaved plantain	5.6	0.6	10.1	< 0.1	0.6	2.0	1.9
26	Wheat	2.9	0.8	27.6	0.1	4.3	20.0	1.8
27	Slough grass	0.9	0.2	27.5	0.3	37.3	74.2	1.7
28	Foxtail barley	2.5	0.7	27.3	0.1	3.6	8.0	1.6
29	Pineappleweed	3.8	0.4	10.2	< 0.1	1.0	4.2	1.3
30	Henbit	3.4	0.4	12.2	0.1	1.5	5.8	1.3
31	Oats	1.6	0.5	30.7	0.1	5.1	9.8	1.2
32	Pasture sage	2.0	0.5	23.5	0.1	3.6	6.2	1.1
33	Corn spurry	1.9	0.4	21.5	0.1	4.6	12.4	1.1
34	Dock species	1.7	0.4	20.7	0.1	3.8	14.0	1.0
35	Clover species	0.8	0.3	41.4	0.1	10.3	19.8	0.8
36	Yellow toadflax	1.8	0.2	8.8	0.1	3.8	10.0	0.8
37	Round-leaved mallow	1.1	0.4	34.9	< 0.1	3.4	6.0	0.7
38	Canada fleabane	1.0	0.4	38.1	< 0.1	3.5	4.0	0.7
39	Barley	1.7	0.2	14.2	< 0.1	1.1	1.8	0.7
40	Wild mustard	0.8	0.3	38.8	< 0.1	5.9	10.8	0.6
41	Bluebur	1.7	0.1	8.2	< 0.1	1.5	5.8	0.6
42	Field bindweed	1.0	0.3	29.9	< 0.1	3.2	5.0	0.6
43	Field mint	0.4	0.2	35.0	0.1	16.2	16.2	0.5
44	Downy brome	0.7	0.1	17.5	0.1	7.4	14.6	0.5
45	White cockle	1.4	0.2	10.7	< 0.1	0.5	0.8	0.5
46	Narrow-leaved milk-vetch	0.4	0.2	50.0	< 0.1	11.6	11.6	0.4
47	Borage	0.4	0.2	45.0	< 0.1	4.6	4.6	0.4
48	Alfalfa	0.9	0.1	14.7	< 0.1	1.4	2.6	0.4
49	Wild chamomile	0.4	0.2	45.0	< 0.1	6.2	6.2	0.3
50	Black medick	0.4	0.1	20.0	< 0.1	11.8	11.8	0.3
51	Prairie sage	1.1	0.1	7.5	< 0.1	0.4	0.6	0.3
52	Wood whitlow-grass	0.8	0.1	17.5	< 0.1	1.1	1.4	0.3

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Field Survey Summary Tables – Aspen Parkland Cereal Crops

Table 33. 2010 cereal crops in the Aspen Parkland Ecoregion (227 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Wild tomato	0.8	0.1	12.5	< 0.1	1.3	2.4	0.3
54	Pygmyflower	0.6	0.1	20.0	< 0.1	0.8	0.8	0.3
55	Night-flowering catchfly	0.8	0.1	7.5	< 0.1	0.6	1.0	0.3
56	Povertyweed	0.7	< 0.1	5.0	< 0.1	1.8	3.4	0.3
57	Flixweed	0.8	0.1	7.7	< 0.1	0.4	0.6	0.3
58	Yellow sweet-clover	0.8	0.1	7.7	< 0.1	0.5	0.8	0.2
59	Flax	0.4	0.1	20.0	< 0.1	3.6	3.6	0.2
60	Nuttall's alkali grass	0.4	< 0.1	5.0	< 0.1	9.2	9.2	0.2
61	Orchard grass	0.5	0.1	20.0	< 0.1	0.8	0.8	0.2
62	Persian darnel	0.4	0.1	20.0	< 0.1	2.0	2.0	0.2
63	Prostrate pigweed	0.4	0.1	20.0	< 0.1	3.8	3.8	0.2
64	American vetch	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
65	Poplar species	0.7	< 0.1	5.0	< 0.1	0.3	0.4	0.2
66	Prostrate knotweed	0.5	0.1	10.0	< 0.1	0.8	0.8	0.2
67	Kochia	0.5	0.1	10.0	< 0.1	0.6	0.6	0.2
68	Kentucky blue grass	0.4	< 0.1	5.0	< 0.1	2.6	2.6	0.2
69	Rose species	0.5	< 0.1	10.0	< 0.1	0.6	0.6	0.2
70	Spear-leaved goosefoot	0.5	< 0.1	5.0	< 0.1	0.4	0.4	0.2
71	Dog mustard	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
72	Purple vetchling	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
73	Small-seeded false flax	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
74	Barnyard grass	0.4	< 0.1	5.0	< 0.1	0.6	0.6	0.1
75	Ball mustard	0.4	< 0.1	10.0	< 0.1	0.6	0.6	0.1
76	Smooth brome	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
77	Common burdock	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
78	Western snowberry	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
79	Cow cockle	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Biennial wormwood	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
81	Rough cinquefoil	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
82	Field peas	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
83	Cicer milk-vetch	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
84	Goldenrod species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
85	Water smartweed	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1

Field Survey Summary Tables – Aspen Parkland Spring Wheat

Table 34. 2010 spring wheat fields in the Aspen Parkland Ecoregion (127 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	15.2	7.7	50.3	7.0	45.8	184.0	36.8
2	Wild buckwheat	53.2	17.1	32.1	1.8	3.4	28.2	35.2
3	Canola	38.0	10.4	27.4	1.5	4.0	37.0	24.3
4	Chickweed	17.5	8.2	46.8	2.8	16.2	111.4	22.4
5	Canada thistle	40.5	6.9	16.9	0.7	1.6	6.4	18.3
6	Spiny annual sow-thistle	17.8	7.5	42.0	1.8	10.0	76.2	17.9
7	Cleavers	20.0	4.4	21.9	1.7	8.3	147.0	15.0
8	Perennial sow-thistle	14.8	3.2	21.6	1.5	10.4	189.4	12.2
9	Pale smartweed	9.2	2.6	27.6	1.5	15.9	151.0	10.0
10	Hemp-nettle	17.3	3.7	21.4	0.6	3.8	38.0	9.9
11	Dandelion	22.9	3.8	16.5	0.3	1.1	5.2	9.8
12	Shepherd's-purse	12.9	3.4	26.2	0.6	4.4	29.8	8.3
13	Quack grass	14.9	2.9	19.8	0.5	3.1	25.0	7.9
14	Lamb's-quarters	18.2	2.5	13.5	0.3	1.4	17.0	7.5
15	Narrow-leaved hawk's-beard	12.0	2.0	16.3	0.2	1.8	19.2	5.4
16	Field horsetail	9.5	1.8	18.6	0.4	4.1	16.2	5.4
17	Common groundsel	6.2	1.3	20.8	0.4	7.0	35.0	4.3
18	Green foxtail	6.6	1.7	26.1	0.2	3.2	12.6	4.0
19	Tartary buckwheat	5.0	2.0	40.8	0.2	3.1	9.6	3.7
20	Stork's-bill	6.2	1.2	18.9	0.2	3.4	19.6	3.3
21	Slough grass	1.6	0.4	27.5	0.6	37.3	74.2	3.1
22	Western marsh cudweed	2.8	0.6	21.2	0.4	15.9	56.2	2.9
23	Redroot pigweed	5.5	1.0	17.6	0.1	2.2	15.0	2.7
24	Stinkweed	5.9	0.6	10.8	0.1	1.4	8.6	2.3
25	Corn spurry	2.6	0.7	26.9	0.2	6.0	12.4	1.9
26	Dock species	3.2	0.7	20.7	0.1	3.8	14.0	1.8
27	Foxtail barley	3.0	0.8	26.6	0.1	2.8	7.2	1.8
28	Wheat	2.0	0.8	36.9	0.1	3.0	4.8	1.4
29	Canada fleabane	1.8	0.7	38.1	0.1	3.5	4.0	1.3
30	Oats	1.6	0.5	33.4	0.1	6.5	9.8	1.3
31	Barley	3.1	0.4	14.2	< 0.1	1.1	1.8	1.3
32	Field bindweed	1.8	0.5	29.9	0.1	3.2	5.0	1.2
33	Broad-leaved plantain	3.5	0.3	8.0	< 0.1	0.4	0.6	1.1
34	Pineappleweed	3.2	0.3	8.2	< 0.1	0.6	1.8	1.1
35	Field mint	0.8	0.3	35.0	0.1	16.2	16.2	1.0
36	Bluebur	2.5	0.2	7.7	< 0.1	1.8	5.8	0.9
37	Yellow toadflax	1.6	0.2	10.5	0.1	7.3	10.0	0.9
38	Downy brome	1.4	0.2	17.5	0.1	7.4	14.6	0.9
39	Borage	0.8	0.4	45.0	< 0.1	4.6	4.6	0.7
40	Scentless chamomile	0.7	0.4	60.0	< 0.1	4.0	4.0	0.7
41	Wild chamomile	0.7	0.3	45.0	< 0.1	6.2	6.2	0.6
42	Wood whitlow-grass	1.4	0.2	17.5	< 0.1	1.1	1.4	0.6
43	Black medick	0.7	0.1	20.0	0.1	11.8	11.8	0.6
44	Wild tomato	1.4	0.2	12.5	< 0.1	1.3	2.4	0.6
45	Pygmyflower	1.1	0.2	20.0	< 0.1	0.8	0.8	0.5
46	Flixweed	1.5	0.1	7.7	< 0.1	0.4	0.6	0.5
47	Povertyweed	1.4	0.1	5.0	< 0.1	1.8	3.4	0.5
48	Alfalfa	0.8	0.2	25.0	< 0.1	2.6	2.6	0.4
49	Henbit	1.5	0.1	5.0	< 0.1	0.2	0.2	0.4
50	American vetch	1.4	0.1	5.0	< 0.1	0.2	0.2	0.4
51	Prostrate pigweed	0.7	0.1	20.0	< 0.1	3.8	3.8	0.4
52	Prairie sage	1.0	0.1	10.0	< 0.1	0.6	0.6	0.3

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Table 34. 2010 spring wheat fields in the Aspen Parkland Ecoregion (127 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Rose species	0.9	0.1	10.0	< 0.1	0.6	0.6	0.3
54	Small-seeded false flax	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
55	Cow cockle	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
56	Biennial wormwood	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.2
57	Rough cinquefoil	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
58	Field peas	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
59	Cicer milk-vetch	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
60	Yellow sweet-clover	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
61	White cockle	0.6	< 0.1	5.0	< 0.1	0.6	0.6	0.2
62	Water smartweed	0.6	< 0.1	5.0	< 0.1	0.4	0.4	0.2
63	Poplar species	0.6	< 0.1	5.0	< 0.1	0.4	0.4	0.2

Field Survey Summary Tables – Aspen Parkland Barley

Table 35. 2010 barley fields in the Aspen Parkland Ecoregion (87 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	35.3	11.5	32.5	4.8	13.5	174.0	40.9
2	Wild buckwheat	57.6	14.6	25.4	1.7	3.0	37.4	33.9
3	Wild oats	20.2	8.1	40.1	3.2	16.0	170.0	27.2
4	Canada thistle	51.6	8.7	16.8	0.8	1.6	10.4	22.8
5	Hemp-nettle	33.2	7.4	22.2	1.3	3.8	34.6	19.9
6	Cleavers	30.3	8.3	27.4	1.2	3.9	34.8	19.6
7	Dandelion	28.8	6.1	21.3	0.5	1.8	10.2	14.2
8	Spiny annual sow-thistle	18.4	5.6	30.6	1.0	5.5	37.8	13.9
9	Canola	19.7	5.8	29.4	0.9	4.7	30.0	13.9
10	Green foxtail	10.1	2.7	27.0	1.0	10.1	90.0	9.6
11	Stork's-bill	15.4	4.0	25.9	0.3	2.2	15.4	8.6
12	Perennial sow-thistle	14.5	2.9	20.1	0.5	3.3	24.4	8.1
13	Stinkweed	10.7	3.1	29.3	0.6	5.2	25.8	7.8
14	Scentless chamomile	1.9	1.2	62.5	0.7	37.3	69.2	4.8
15	Shepherd's-purse	11.3	1.6	14.0	0.2	1.4	8.8	4.6
16	Lamb's-quarters	12.5	1.4	10.9	0.1	0.8	3.6	4.4
17	Pale smartweed	9.9	1.7	17.0	0.1	1.4	7.0	4.3
18	Narrow-leaved hawk's-beard	8.4	1.8	20.9	0.2	2.0	9.4	4.2
19	Quack grass	9.4	1.5	15.9	0.1	1.5	3.4	4.0
20	Field horsetail	9.3	1.0	10.5	0.2	2.3	7.4	3.9
21	Wheat	4.4	1.0	21.8	0.2	5.1	20.0	2.9
22	Henbit	5.2	0.9	16.8	0.1	2.4	5.8	2.5
23	Round-leaved mallow	2.7	0.9	34.9	0.1	3.4	6.0	1.9
24	Pasture sage	3.6	0.6	17.4	0.1	2.7	5.8	1.8
25	Western marsh cudweed	1.9	0.5	27.5	0.2	10.2	11.6	1.8
26	Wild mustard	2.0	0.8	38.8	0.1	5.9	10.8	1.7
27	Foxtail barley	2.3	0.6	28.6	0.1	4.9	8.0	1.6
28	Common groundsel	3.9	0.4	9.9	< 0.1	0.5	0.8	1.3
29	Redroot pigweed	3.8	0.4	10.0	< 0.1	0.4	0.8	1.2
30	Broad-leaved plantain	4.3	0.3	6.1	< 0.1	0.3	0.8	1.2
31	Pineappleweed	2.8	0.4	13.3	0.1	2.0	4.2	1.2
32	Oats	1.9	0.5	27.5	0.1	3.5	6.8	1.2
33	Yellow toadflax	2.4	0.2	7.2	< 0.1	0.7	0.8	0.7
34	Clover species	1.1	0.3	30.0	< 0.1	2.4	2.4	0.7
35	Nuttall's alkali grass	0.9	< 0.1	5.0	0.1	9.2	9.2	0.7
36	Night-flowering catchfly	2.1	0.2	7.5	< 0.1	0.6	1.0	0.7
37	Flax	1.1	0.2	20.0	< 0.1	3.6	3.6	0.6
38	Orchard grass	1.3	0.3	20.0	< 0.1	0.8	0.8	0.6
39	Persian darnel	1.1	0.2	20.0	< 0.1	2.0	2.0	0.5
40	Kochia	1.3	0.1	10.0	< 0.1	0.6	0.6	0.4
41	Kentucky blue grass	1.1	0.1	5.0	< 0.1	2.6	2.6	0.4
42	Spear-leaved goosefoot	1.3	0.1	5.0	< 0.1	0.4	0.4	0.4
43	Yellow sweet-clover	1.1	0.1	10.0	< 0.1	0.8	0.8	0.4
44	Dog mustard	1.3	0.1	5.0	< 0.1	0.2	0.2	0.4
45	Prairie sage	1.3	0.1	5.0	< 0.1	0.2	0.2	0.4
46	Purple vetchling	1.3	0.1	5.0	< 0.1	0.2	0.2	0.4
47	Barnyard grass	1.1	0.1	5.0	< 0.1	0.6	0.6	0.3
48	Ball mustard	0.9	0.1	10.0	< 0.1	0.6	0.6	0.3
49	Smooth brome	0.9	0.1	10.0	< 0.1	0.4	0.4	0.3
50	Common burdock	0.9	0.1	10.0	< 0.1	0.4	0.4	0.3
51	Bluebur	0.9	0.1	10.0	< 0.1	0.4	0.4	0.3
52	Alfalfa	1.1	0.1	5.0	< 0.1	0.2	0.2	0.3

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Table 35. 2010 barley fields in the Aspen Parkland Ecoregion (87 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Poplar species	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3

Field Survey Summary Tables – Aspen Parkland Oat

Table 36. 2010 oat fields in the Aspen Parkland Ecoregion (10 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Hemp-nettle	19.5	12.4	63.3	17.3	88.8	184.8	53.7
2	Wild buckwheat	37.7	16.8	44.4	3.0	7.9	15.4	26.6
3	Dandelion	55.8	13.6	24.4	2.3	4.2	24.8	26.5
4	Canola	27.3	12.6	46.0	4.1	15.0	44.4	24.2
5	Chickweed	29.4	14.5	49.2	2.2	7.6	17.8	21.6
6	Spiny annual sow-thistle	27.8	9.0	32.2	2.6	9.4	30.4	18.2
7	Stinkweed	9.3	8.4	90.0	3.6	38.4	38.4	16.3
8	Lamb's-quarters	19.5	7.5	38.3	1.7	8.8	18.2	13.3
9	Canada thistle	35.6	5.9	16.6	0.3	0.7	1.2	12.0
10	Pale smartweed	31.3	4.0	12.7	0.5	1.6	4.0	10.3
11	Perennial sow-thistle	34.6	2.9	8.4	0.1	0.4	0.6	9.4
12	Clover species	8.2	4.5	55.0	1.6	19.8	19.8	8.7
13	Broad-leaved plantain	21.1	4.6	21.8	0.3	1.4	2.0	8.2
14	Pasture sage	11.8	4.7	40.0	0.7	6.2	6.2	7.5
15	Narrow-leaved milk-vetch	8.2	4.1	50.0	1.0	11.6	11.6	6.9
16	Quack grass	20.1	3.0	15.0	0.3	1.3	1.8	6.8
17	Narrow-leaved hawk's-beard	16.5	2.9	17.6	0.2	1.4	2.6	6.0
18	Pineappleweed	20.1	2.0	10.0	0.1	0.5	0.6	5.7
19	Shepherd's-purse	8.3	2.9	35.0	0.2	2.2	2.2	4.2
20	Stork's-bill	14.5	1.5	10.0	0.1	0.6	0.6	4.2
21	Henbit	11.8	0.6	5.0	< 0.1	0.2	0.2	2.8
22	Corn spurry	10.2	0.5	5.0	< 0.1	0.4	0.4	2.5
23	Cleavers	9.9	0.5	5.0	< 0.1	0.4	0.4	2.4
24	Goldenrod species	8.3	0.4	5.0	< 0.1	0.2	0.2	2.0

Field Survey Summary Tables – Aspen Parkland Broad-Leaved Annual Crops

Table 37. 2010 broad-leaved annual crops in the Aspen Parkland Ecoregion (148 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	50.5	12.8	25.4	1.4	2.8	20.0	35.0
2	Wheat	24.5	6.9	28.0	0.8	3.4	28.8	18.8
3	Wild oats	18.5	5.6	30.0	1.1	6.2	32.8	18.3
4	Shepherd's-purse	20.1	5.9	29.1	0.9	4.5	27.6	17.2
5	Canada thistle	33.9	5.8	17.1	0.4	1.2	6.8	16.9
6	Perennial sow-thistle	22.1	4.9	22.0	0.8	3.5	69.0	15.8
7	Chickweed	20.9	4.9	23.4	0.8	3.8	36.2	15.7
8	Lamb's-quarters	25.5	4.1	16.0	0.5	1.9	18.2	13.6
9	Cleavers	23.6	4.4	18.7	0.5	2.0	12.6	13.3
10	Dandelion	24.5	4.6	18.6	0.3	1.3	6.8	12.6
11	Narrow-leaved hawk's-beard	19.6	4.0	20.5	0.4	1.9	7.0	11.3
12	Spiny annual sow-thistle	12.2	3.5	29.1	0.5	4.2	29.2	10.2
13	Canola	10.4	2.7	25.9	0.7	6.4	85.4	10.0
14	Western marsh cudweed	4.8	1.3	27.4	1.0	20.2	76.0	9.5
15	Quack grass	12.1	3.1	25.9	0.4	3.4	15.4	9.0
16	Stinkweed	12.1	2.0	16.8	0.3	2.5	21.4	7.1
17	Field horsetail	10.8	1.8	16.8	0.3	2.4	17.0	6.2
18	Barley	9.6	2.0	21.0	0.2	2.3	11.4	5.9
19	Stork's-bill	5.0	1.5	29.9	0.3	6.9	29.2	5.2
20	Povertyweed	5.4	1.0	18.3	0.3	5.6	20.0	4.5
21	Hemp-nettle	9.5	1.2	13.1	0.1	1.0	3.4	4.1
22	Bluebur	5.0	0.9	18.6	0.3	5.4	18.8	4.1
23	Tartary buckwheat	6.2	1.1	17.9	0.1	1.9	6.0	3.4
24	Henbit	0.9	0.6	70.5	0.3	33.1	47.0	2.9
25	Pineappleweed	5.7	0.7	12.4	0.1	1.5	3.8	2.6
26	Scentless chamomile	2.4	0.9	36.3	0.1	4.3	8.2	2.2
27	Thyme-leaved spurge	1.0	0.8	80.0	0.1	15.0	15.0	2.1
28	Redroot pigweed	4.0	0.6	15.8	0.1	1.8	4.6	2.1
29	Pygmyflower	1.0	0.7	70.0	0.1	11.6	11.6	1.8
30	Alfalfa	2.0	0.8	39.5	0.1	3.4	7.2	1.7
31	Pale smartweed	3.1	0.5	17.6	0.1	1.6	3.6	1.7
32	Common groundsel	4.3	0.4	9.2	< 0.1	0.8	1.6	1.6
33	Clover species	2.5	0.4	14.5	< 0.1	1.4	3.2	1.2
34	Green foxtail	1.8	0.4	23.4	< 0.1	2.2	6.0	1.1
35	Round-leaved mallow	1.4	0.3	21.6	0.1	4.7	7.8	1.1
36	Foxtail barley	2.3	0.3	11.8	< 0.1	1.1	1.4	1.0
37	Downy brome	1.2	0.4	32.5	< 0.1	3.3	5.2	1.0
38	Ball mustard	1.2	0.3	22.5	0.1	4.5	7.4	1.0
39	Field bindweed	1.4	0.2	17.5	< 0.1	0.7	0.8	0.7
40	Flixweed	1.8	0.1	8.0	< 0.1	0.4	0.6	0.6
41	Yellow sweet-clover	1.2	0.2	13.4	< 0.1	0.9	1.6	0.5
42	Wild mustard	1.3	0.1	7.7	< 0.1	0.8	1.2	0.5
43	White cockle	0.7	0.2	30.0	< 0.1	1.6	1.6	0.5
44	Oats	0.6	0.1	20.0	< 0.1	3.8	3.8	0.4
45	Kochia	0.9	0.1	15.0	< 0.1	0.8	0.8	0.4
46	Slough grass	0.7	0.1	15.0	< 0.1	1.0	1.0	0.3
47	Biennial wormwood	0.6	0.1	15.0	< 0.1	1.2	1.2	0.3
48	Cow cockle	0.6	0.1	15.0	< 0.1	1.0	1.0	0.3
49	Black medick	0.6	0.1	15.0	< 0.1	0.6	0.6	0.3
50	Common yarrow	0.6	0.1	10.0	< 0.1	0.8	0.8	0.2
51	Yellow toadflax	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.2
52	Purslane speedwell	0.6	0.1	10.0	< 0.1	0.6	0.6	0.2

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Field Survey Summary Tables – Aspen Parkland Broad-Leaved Annual Crops

Table 37. 2010 broad-leaved annual crops in the Aspen Parkland Ecoregion (148 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Orchard grass	0.6	0.1	10.0	< 0.1	0.4	0.4	0.2
54	Prostrate knotweed	0.6	0.1	10.0	< 0.1	0.4	0.4	0.2
55	Field mint	0.6	< 0.1	5.0	< 0.1	1.0	1.0	0.2
56	Corn spurry	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
57	Small-seeded false flax	0.6	< 0.1	5.0	< 0.1	0.8	0.8	0.2
58	Common burdock	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
59	Cream-colored vetchling	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
60	Caraway	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 38. 2010 canola fields in the Aspen Parkland Ecoregion (122 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	49.7	13.1	26.3	1.4	2.9	20.0	41.6
2	Wheat	25.6	6.8	26.6	0.8	3.2	28.8	22.1
3	Wild oats	18.8	4.8	25.6	0.7	3.9	19.0	17.2
4	Shepherd's-purse	17.2	4.3	25.2	0.7	4.3	27.6	16.4
5	Chickweed	18.6	3.7	20.0	0.7	3.9	36.2	15.8
6	Canada thistle	27.8	4.6	16.5	0.3	1.2	5.4	15.7
7	Cleavers	22.8	4.3	19.0	0.5	2.0	12.6	15.2
8	Lamb's-quarters	24.8	3.7	15.1	0.5	1.9	18.2	15.2
9	Dandelion	21.2	4.2	19.9	0.3	1.4	6.8	13.3
10	Western marsh cudweed	5.0	1.4	27.1	1.1	21.2	76.0	12.4
11	Perennial sow-thistle	17.3	3.4	19.9	0.2	1.3	6.6	10.7
12	Narrow-leaved hawk's-beard	15.0	2.8	18.4	0.3	1.8	7.0	9.6
13	Quack grass	11.5	2.6	22.6	0.4	3.1	15.4	9.3
14	Field horsetail	12.0	2.1	17.7	0.3	2.6	17.0	8.5
15	Stork's-bill	5.3	1.8	33.4	0.4	7.9	29.2	7.2
16	Stinkweed	10.9	1.6	14.9	0.3	2.3	21.4	7.0
17	Spiny annual sow-thistle	7.2	1.6	21.6	0.2	2.3	14.4	5.3
18	Barley	8.5	1.5	17.4	0.1	1.6	11.4	5.3
19	Bluebur	4.6	0.9	20.6	0.3	6.4	18.8	4.9
20	Hemp-nettle	8.5	1.2	14.2	0.1	1.0	3.4	4.4
21	Henbit	1.1	0.7	70.5	0.3	33.1	47.0	4.3
22	Povertyweed	5.1	0.7	14.3	0.2	3.6	10.4	3.8
23	Tartary buckwheat	6.1	1.0	16.2	0.1	1.9	6.0	3.8
24	Scentsless chamomile	2.9	1.1	36.3	0.1	4.3	8.2	3.1
25	Thyme-leaved spurge	1.2	1.0	80.0	0.2	15.0	15.0	3.1
26	Pygmyflower	1.2	0.8	70.0	0.1	11.6	11.6	2.6
27	Alfalfa	2.4	0.9	39.5	0.1	3.4	7.2	2.5
28	Redroot pigweed	3.4	0.5	14.0	0.1	1.9	4.6	2.0
29	Pineappleweed	3.3	0.3	10.6	0.1	1.6	3.8	1.7
30	Green foxtail	2.2	0.5	23.4	< 0.1	2.2	6.0	1.6
31	Round-leaved mallow	1.6	0.4	21.6	0.1	4.7	7.8	1.5
32	Ball mustard	1.5	0.3	22.5	0.1	4.5	7.4	1.4
33	Common groundsel	3.1	0.2	7.4	< 0.1	0.8	1.2	1.3
34	Field bindweed	1.7	0.3	17.5	< 0.1	0.7	0.8	0.9
35	Yellow sweet-clover	1.4	0.2	13.4	< 0.1	0.9	1.6	0.7
36	Canola	1.5	0.2	12.5	< 0.1	0.7	0.8	0.7
37	Wild mustard	1.6	0.1	7.7	< 0.1	0.8	1.2	0.7
38	White cockle	0.9	0.3	30.0	< 0.1	1.6	1.6	0.7
39	Oats	0.7	0.1	20.0	< 0.1	3.8	3.8	0.6
40	Pale smartweed	1.6	0.1	7.3	< 0.1	0.4	0.6	0.6
41	Kochia	1.0	0.2	15.0	< 0.1	0.8	0.8	0.5
42	Downy brome	0.7	0.2	25.0	< 0.1	1.4	1.4	0.5
43	Foxtail barley	1.0	0.1	10.0	< 0.1	0.8	0.8	0.5
44	Slough grass	0.9	0.1	15.0	< 0.1	1.0	1.0	0.5
45	Cow cockle	0.7	0.1	15.0	< 0.1	1.0	1.0	0.4
46	Black medick	0.7	0.1	15.0	< 0.1	0.6	0.6	0.4
47	Yellow toadflax	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.3
48	Purslane speedwell	0.7	0.1	10.0	< 0.1	0.6	0.6	0.3
49	Prostrate knotweed	0.7	0.1	10.0	< 0.1	0.4	0.4	0.3
50	Field mint	0.7	< 0.1	5.0	< 0.1	1.0	1.0	0.3
51	Flixweed	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
52	Clover species	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3

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Field Survey Summary Tables – Aspen Parkland Aspen Parkland Canola

Table 38. 2010 canola fields in the Aspen Parkland Ecoregion (122 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Corn spurry	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
54	Small-seeded false flax	0.7	< 0.1	5.0	< 0.1	0.8	0.8	0.3
55	Caraway	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 39. 2010 field pea fields in the Aspen Parkland Ecoregion (26 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Canola	52.6	14.6	27.7	3.8	7.2	85.4	31.7
2	Perennial sow-thistle	44.9	11.6	25.9	3.3	7.5	69.0	27.1
3	Spiny annual sow-thistle	35.4	12.9	36.3	2.1	6.0	29.2	21.6
4	Wild oats	17.1	9.1	53.1	3.0	17.8	32.8	20.2
5	Canada thistle	62.8	11.5	18.3	0.9	1.4	6.8	19.8
6	Wild buckwheat	53.9	11.7	21.8	1.2	2.1	9.6	19.8
7	Shepherd's-purse	33.7	13.0	38.5	1.6	4.7	16.6	19.2
8	Narrow-leaved hawk's-beard	41.6	10.0	24.0	0.8	2.0	5.8	15.6
9	Chickweed	31.7	10.5	33.0	1.1	3.6	11.0	15.6
10	Dandelion	40.3	6.2	15.4	0.3	0.8	2.0	11.0
11	Wheat	19.4	7.1	36.6	1.0	4.9	9.8	11.0
12	Lamb's-quarters	28.8	5.7	19.8	0.5	1.7	4.4	9.7
13	Cleavers	27.5	4.8	17.6	0.5	1.7	8.0	8.9
14	Quack grass	15.1	5.7	37.6	0.6	4.3	11.0	8.3
15	Barley	14.6	4.5	30.9	0.6	4.2	9.6	7.4
16	Stinkweed	17.9	4.0	22.3	0.5	2.9	9.4	7.2
17	Povertyweed	6.9	2.2	32.5	0.9	12.6	20.0	5.9
18	Pineappleweed	17.2	2.4	14.0	0.2	1.3	2.8	4.9
19	Pale smartweed	10.4	2.6	25.0	0.3	2.5	3.6	4.2
20	Clover species	10.3	1.9	18.3	0.2	1.9	3.2	3.5
21	Hemp-nettle	13.8	1.4	10.0	0.1	1.0	1.6	3.4
22	Western marsh cudweed	3.5	1.0	30.0	0.5	13.6	13.6	3.0
23	Common groundsel	10.4	1.2	11.6	0.1	0.8	1.6	2.6
24	Tartary buckwheat	6.9	1.7	25.0	0.1	1.7	2.6	2.5
25	Foxtail barley	8.4	1.1	12.9	0.1	1.2	1.4	2.3
26	Redroot pigweed	6.9	1.4	20.0	0.1	1.6	3.0	2.3
27	Bluebur	6.9	0.9	12.5	0.2	2.3	4.0	2.2
28	Downy brome	3.4	1.4	40.0	0.2	5.2	5.2	2.1
29	Flixweed	6.1	0.6	10.0	< 0.1	0.6	0.6	1.4
30	Biennial wormwood	3.5	0.5	15.0	< 0.1	1.2	1.2	1.0
31	Field horsetail	4.7	0.2	5.0	< 0.1	0.2	0.2	0.9
32	Common yarrow	3.5	0.3	10.0	< 0.1	0.8	0.8	0.8
33	Orchard grass	3.5	0.3	10.0	< 0.1	0.4	0.4	0.8
34	Common burdock	3.5	0.2	5.0	< 0.1	0.2	0.2	0.6
35	Stork's-bill	3.5	0.2	5.0	< 0.1	0.2	0.2	0.6
36	Cream-colored vetchling	3.5	0.2	5.0	< 0.1	0.2	0.2	0.6

Field Survey Summary Tables – Aspen Parkland Perennial Crops

Table 40. 2010 perennial crops in the Aspen Parkland Ecoregion (12 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Dandelion	91.1	64.9	71.2	20.3	22.3	53.4	111.9
2	Timothy	42.0	38.1	90.7	10.9	26.0	36.4	60.8
3	Quack grass	33.6	10.3	30.6	2.2	6.4	16.6	19.0
4	Common yarrow	16.6	9.4	56.3	3.1	18.7	25.4	17.3
5	Spiny annual sow-thistle	27.3	8.2	29.9	0.9	3.2	9.8	13.1
6	Perennial sow-thistle	22.9	4.0	17.6	0.3	1.2	3.8	8.0
7	Foxtail barley	30.6	1.5	5.0	0.2	0.5	0.8	7.7
8	Canada thistle	22.2	2.4	11.0	0.2	0.7	1.6	6.5
9	Wild buckwheat	22.2	2.2	10.0	0.1	0.4	1.0	6.2
10	Sweet grass	18.0	1.8	10.0	0.2	1.0	1.0	5.3
11	Common reed	18.0	1.8	10.0	0.1	0.6	0.6	5.1
12	Smooth brome	18.0	0.9	5.0	0.1	0.8	0.8	4.7
13	Clover species	18.0	0.9	5.0	0.1	0.6	0.6	4.6
14	Goldenrod species	12.2	1.8	15.0	0.2	1.8	1.8	4.2
15	Cleavers	13.3	1.8	13.3	0.1	0.8	1.2	4.1
16	Chickweed	13.3	1.1	8.3	0.1	1.0	1.2	3.8
17	Stork's-bill	13.3	0.9	6.7	< 0.1	0.3	0.4	3.4
18	Narrow-leaved hawk's-beard	9.6	1.0	10.0	0.1	0.8	1.0	2.8
19	Rose species	5.2	0.3	5.0	0.1	1.2	1.2	1.4
20	Pygmyflower	5.2	0.3	5.0	< 0.1	0.6	0.6	1.3
21	Shepherd's-purse	4.4	0.4	10.0	< 0.1	1.0	1.0	1.3
22	Prostrate pigweed	5.2	0.3	5.0	< 0.1	0.2	0.2	1.3
23	Wild oats	4.4	0.4	10.0	< 0.1	0.6	0.6	1.3
24	Broad-leaved plantain	4.4	0.4	10.0	< 0.1	0.6	0.6	1.3
25	Canada fleabane	4.4	0.4	10.0	< 0.1	0.4	0.4	1.2
26	Pasture sage	4.4	0.4	10.0	< 0.1	0.4	0.4	1.2
27	Pineappleweed	4.4	0.2	5.0	< 0.1	0.2	0.2	1.1

Field Survey Summary Tables – Moist Mixed Grassland Annual Crops

Table 41. 2010 annual crops in the Moist Mixed Grassland Ecoregion (218 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	55.1	19.7	35.7	2.8	5.0	72.8	49.1
2	Western marsh cudweed	5.5	2.4	43.9	5.8	107.0	709.8	31.7
3	Wild oats	24.3	5.8	23.7	2.3	9.4	284.6	23.3
4	Canola	23.1	5.5	23.7	0.9	4.0	43.6	16.3
5	Canada thistle	34.5	4.5	13.0	0.5	1.5	11.8	16.0
6	Kochia	21.4	4.5	21.2	0.8	3.9	62.2	14.3
7	Dandelion	21.6	4.2	19.3	0.3	1.6	10.0	11.7
8	Spiny annual sow-thistle	17.0	3.9	23.0	0.6	3.5	70.0	11.5
9	Green foxtail	9.3	2.5	26.6	1.2	13.0	186.0	10.8
10	Narrow-leaved hawk's-beard	12.3	3.7	30.0	0.6	5.2	31.2	10.2
11	Wheat	12.7	3.7	29.2	0.5	4.1	24.0	9.8
12	Stinkweed	17.2	2.3	13.4	0.2	1.3	19.6	7.9
13	Lamb's-quarters	14.1	2.5	17.5	0.3	2.4	22.8	7.8
14	Shepherd's-purse	11.6	2.4	20.6	0.4	3.8	32.2	7.7
15	Cleavers	6.1	2.3	37.7	0.7	11.4	62.8	7.5
16	Downy brome	1.8	0.5	26.7	0.9	49.7	187.6	5.2
17	Redroot pigweed	11.1	1.4	12.3	0.2	1.5	9.6	5.1
18	Perennial sow-thistle	8.3	1.4	16.9	0.2	2.2	31.2	4.5
19	Flixweed	9.0	1.0	11.0	0.1	0.6	2.8	3.6
20	Field peas	6.5	1.3	20.6	0.1	1.3	6.2	3.5
21	Foxtail barley	7.9	0.8	9.7	0.1	0.9	4.8	3.2
22	Prostrate knotweed	5.9	0.9	14.6	0.1	1.2	3.6	2.7
23	Pineappleweed	2.9	0.7	24.0	0.2	8.2	56.6	2.6
24	Hemp-nettle	3.6	0.7	18.3	0.1	1.5	4.8	1.9
25	Barley	3.6	0.5	15.1	< 0.1	1.2	3.6	1.7
26	Barnyard grass	1.8	0.5	29.7	0.1	6.8	15.8	1.6
27	Pale smartweed	4.1	0.4	10.0	< 0.1	0.5	2.4	1.6
28	Stork's-bill	4.1	0.4	8.6	< 0.1	0.6	1.6	1.5
29	Rough cinquefoil	2.8	0.5	16.3	< 0.1	1.2	2.8	1.4
30	Russian thistle	3.5	0.3	9.8	< 0.1	0.6	2.4	1.3
31	Thyme-leaved spurge	2.8	0.4	15.0	< 0.1	1.0	3.0	1.3
32	Round-leaved mallow	3.3	0.3	7.6	< 0.1	0.7	2.0	1.2
33	Henbit	0.7	0.1	8.3	0.2	29.0	43.4	1.2
34	Field horsetail	2.7	0.2	9.1	< 0.1	1.8	11.0	1.2
35	Biennial wormwood	2.7	0.3	12.5	< 0.1	1.0	3.0	1.2
36	Prostrate pigweed	2.3	0.3	15.0	< 0.1	1.0	3.2	1.1
37	Quack grass	1.7	0.2	12.3	0.1	4.5	9.2	1.0
38	Oats	1.4	0.3	23.3	0.1	3.9	8.6	1.0
39	Wild mustard	1.9	0.3	17.7	< 0.1	1.4	3.6	0.9
40	Cow cockle	1.9	0.3	15.4	< 0.1	0.9	3.2	0.9
41	Goat's-beard	2.1	0.3	13.0	< 0.1	0.6	1.4	0.9
42	Purslane speedwell	1.0	0.4	38.3	< 0.1	2.9	5.4	0.8
43	Kentucky blue grass	0.3	0.1	25.0	0.1	32.8	32.8	0.7
44	Common pepper-grass	0.7	0.3	38.2	< 0.1	3.9	4.2	0.6
45	Common groundsel	1.9	0.1	6.8	< 0.1	0.4	1.0	0.6
46	Alfalfa	1.8	0.1	7.6	< 0.1	0.4	0.8	0.6
47	Bluebur	1.9	0.1	5.0	< 0.1	0.3	0.4	0.6
48	Wild chamomile	0.7	0.2	37.5	< 0.1	3.7	7.2	0.6
49	Chickweed	1.7	0.1	5.0	< 0.1	0.5	0.8	0.5
50	Clover species	1.2	0.1	9.7	< 0.1	0.4	0.6	0.4
51	Broad-leaved plantain	1.2	0.1	5.0	< 0.1	0.4	0.6	0.4
52	Marsh yellow cress	0.7	0.1	20.0	< 0.1	1.7	2.4	0.4

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Field Survey Summary Tables – Moist Mixed Grassland Annual Crops

Table 41. 2010 annual crops in the Moist Mixed Grassland Ecoregion (218 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Volunteer grain	0.5	0.2	35.0	< 0.1	2.6	2.6	0.4
54	Rose species	0.9	0.1	7.5	< 0.1	0.6	0.8	0.3
55	Prickly lettuce	0.9	0.1	6.3	< 0.1	0.6	0.8	0.3
56	Wild tomato	0.8	0.1	10.0	< 0.1	0.6	0.8	0.3
57	Dock species	0.5	0.1	20.0	< 0.1	2.2	2.2	0.3
58	Black medick	0.5	0.1	25.0	< 0.1	2.2	2.2	0.3
59	Scentless chamomile	0.7	0.1	10.0	< 0.1	0.9	1.6	0.3
60	American dragonhead	0.7	< 0.1	5.0	< 0.1	1.0	1.4	0.2
61	Corn spurry	0.7	< 0.1	7.5	< 0.1	0.6	1.0	0.2
62	American vetch	0.7	< 0.1	5.0	< 0.1	0.7	1.0	0.2
63	Field bindweed	0.5	0.1	15.0	< 0.1	0.6	0.6	0.2
64	Smooth brome	0.5	< 0.1	5.0	< 0.1	1.0	1.0	0.2
65	Slender wheat grass	0.5	< 0.1	10.0	< 0.1	0.4	0.4	0.2
66	Linear-leaved plantain	0.3	< 0.1	15.0	< 0.1	1.2	1.2	0.2
67	Dogbane species	0.5	< 0.1	5.0	< 0.1	0.6	0.6	0.2
68	Yellow sweet-clover	0.3	< 0.1	15.0	< 0.1	0.6	0.6	0.1
69	Ball mustard	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
70	Sheep sorrel	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
71	Grass	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
72	Pygmyflower	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
73	White mustard	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
74	Povertyweed	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
75	Night-flowering catchfly	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Field Survey Summary Tables – Moist Mixed Grassland Cereal Crops

Table 42. 2010 cereal crops in the Moist Mixed Grassland Ecoregion (168 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	56.8	20.4	35.9	2.7	4.8	66.2	48.8
2	Western marsh cudweed	5.6	2.6	47.5	7.5	134.9	709.8	36.1
3	Wild oats	25.3	6.6	26.1	2.9	11.4	284.6	26.0
4	Canola	26.6	6.7	25.0	1.2	4.3	43.6	19.0
5	Canada thistle	33.7	4.6	13.6	0.5	1.5	11.8	15.7
6	Kochia	24.5	5.1	20.9	0.7	3.0	25.6	15.0
7	Green foxtail	10.9	3.1	28.7	1.6	14.6	186.0	12.9
8	Spiny annual sow-thistle	13.8	4.1	30.0	0.7	5.3	70.0	11.2
9	Dandelion	20.0	3.9	19.6	0.3	1.7	9.8	10.8
10	Shepherd's-purse	14.1	3.0	21.1	0.6	3.9	32.2	9.2
11	Narrow-leaved hawk's-beard	9.9	2.9	29.5	0.4	4.5	31.2	7.6
12	Stinkweed	15.5	2.1	13.5	0.2	1.1	9.4	6.9
13	Lamb's-quarters	13.1	2.2	17.1	0.3	2.0	15.2	6.9
14	Downy brome	1.8	0.5	30.0	1.1	62.8	187.6	5.9
15	Redroot pigweed	11.3	1.5	13.1	0.2	1.5	9.6	5.2
16	Cleavers	4.2	1.7	39.9	0.5	12.2	62.8	5.1
17	Perennial sow-thistle	8.5	1.5	17.2	0.2	2.5	31.2	4.7
18	Wheat	6.5	1.8	27.2	0.2	3.5	24.0	4.6
19	Field peas	7.5	1.6	20.8	0.1	1.3	6.2	4.0
20	Flixweed	9.2	1.0	10.5	0.1	0.6	2.6	3.6
21	Foxtail barley	9.0	0.7	7.5	0.1	0.6	3.0	3.2
22	Prostrate knotweed	5.6	1.0	17.1	0.1	1.4	3.6	2.8
23	Pineappleweed	3.4	0.7	19.3	0.3	8.2	56.6	2.7
24	Hemp-nettle	4.0	0.7	18.0	0.1	1.5	4.8	2.1
25	Barnyard grass	2.3	0.7	29.7	0.2	6.8	15.8	2.0
26	Pale smartweed	4.9	0.5	9.6	< 0.1	0.5	2.4	1.9
27	Russian thistle	4.6	0.5	9.8	< 0.1	0.6	2.4	1.8
28	Round-leaved mallow	4.3	0.3	7.6	< 0.1	0.7	2.0	1.6
29	Henbit	0.9	0.1	8.3	0.3	29.0	43.4	1.4
30	Oats	1.8	0.4	23.3	0.1	3.9	8.6	1.2
31	Wild mustard	2.4	0.4	17.7	< 0.1	1.4	3.6	1.2
32	Biennial wormwood	2.6	0.4	15.0	< 0.1	1.2	3.0	1.2
33	Cow cockle	2.5	0.4	15.4	< 0.1	0.9	3.2	1.2
34	Rough cinquefoil	2.8	0.3	10.5	< 0.1	0.9	2.8	1.1
35	Stork's-bill	3.1	0.2	7.6	< 0.1	0.7	1.6	1.1
36	Prostrate pigweed	1.8	0.4	20.0	< 0.1	1.5	3.2	1.0
37	Quack grass	1.3	0.2	15.0	0.1	7.3	9.2	1.0
38	Field horsetail	1.2	0.2	17.4	0.1	4.6	11.0	0.8
39	Wild chamomile	0.9	0.3	37.5	< 0.1	3.7	7.2	0.7
40	Chickweed	2.2	0.1	5.0	< 0.1	0.5	0.8	0.7
41	Purslane speedwell	0.9	0.3	35.0	< 0.1	2.9	5.4	0.7
42	Common groundsel	2.0	0.1	6.1	< 0.1	0.4	1.0	0.7
43	Thyme-leaved spurge	1.3	0.2	16.7	< 0.1	1.5	3.0	0.7
44	Bluebur	1.7	0.1	5.0	< 0.1	0.3	0.4	0.5
45	Barley	1.1	0.2	14.1	< 0.1	0.9	1.4	0.5
46	Common pepper-grass	0.5	0.2	45.0	< 0.1	3.6	3.6	0.5
47	Marsh yellow cress	0.9	0.2	20.0	< 0.1	1.7	2.4	0.5
48	Rose species	1.2	0.1	7.5	< 0.1	0.6	0.8	0.4
49	Alfalfa	1.2	0.1	7.8	< 0.1	0.5	0.8	0.4
50	Clover species	1.1	0.1	9.6	< 0.1	0.4	0.6	0.4
51	Prickly lettuce	1.2	0.1	6.3	< 0.1	0.6	0.8	0.4
52	Wild tomato	1.1	0.1	10.0	< 0.1	0.6	0.8	0.4

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Field Survey Summary Tables – Moist Mixed Grassland Cereal Crops

Table 42. 2010 cereal crops in the Moist Mixed Grassland Ecoregion (168 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Black medick	0.6	0.2	25.0	< 0.1	2.2	2.2	0.4
54	Broad-leaved plantain	1.1	0.1	5.0	< 0.1	0.4	0.6	0.4
55	American dragonhead	0.9	< 0.1	5.0	< 0.1	1.0	1.4	0.3
56	Goat's-beard	0.9	0.1	6.7	< 0.1	0.3	0.6	0.3
57	American vetch	0.9	< 0.1	5.0	< 0.1	0.7	1.0	0.3
58	Field bindweed	0.6	0.1	15.0	< 0.1	0.6	0.6	0.3
59	Smooth brome	0.7	< 0.1	5.0	< 0.1	1.0	1.0	0.2
60	Slender wheat grass	0.6	0.1	10.0	< 0.1	0.4	0.4	0.2
61	Dogbane species	0.6	< 0.1	5.0	< 0.1	0.6	0.6	0.2
62	Ball mustard	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
63	Sheep sorrel	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
64	Grass	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
65	Corn spurry	0.4	< 0.1	10.0	< 0.1	1.0	1.0	0.2
66	Pygmyflower	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.2
67	White mustard	0.5	< 0.1	5.0	< 0.1	0.4	0.4	0.2
68	Povertyweed	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
69	Night-flowering catchfly	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
70	Scentless chamomile	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Field Survey Summary Tables – Moist Mixed Grassland Spring Wheat

Table 43. 2010 spring wheat fields in the Moist Mixed Grassland Ecoregion (93 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	62.7	25.7	41.0	3.6	5.8	66.2	57.6
2	Western marsh cudweed	8.7	3.8	44.3	11.2	129.5	709.8	48.9
3	Canola	29.8	7.0	23.5	1.2	3.9	40.6	19.5
4	Wild oats	22.3	5.5	24.8	1.4	6.2	58.4	16.8
5	Canada thistle	35.6	4.8	13.6	0.5	1.5	8.4	16.1
6	Spiny annual sow-thistle	16.6	5.9	35.7	1.2	7.2	70.0	15.2
7	Green foxtail	8.6	3.1	35.7	2.3	27.2	186.0	14.4
8	Shepherd's-purse	18.4	4.5	24.4	1.0	5.3	32.2	13.1
9	Dandelion	19.1	3.4	17.9	0.2	1.0	2.8	9.2
10	Kochia	20.2	2.6	12.7	0.3	1.3	9.6	8.7
11	Cleavers	6.1	2.8	46.0	0.9	14.7	62.8	8.1
12	Narrow-leaved hawk's-beard	12.3	2.3	18.6	0.2	1.4	5.4	6.2
13	Perennial sow-thistle	10.4	2.0	19.0	0.3	3.2	31.2	6.0
14	Stinkweed	14.7	1.6	10.6	0.1	0.7	2.6	5.7
15	Lamb's-quarters	11.9	1.5	12.8	0.2	2.0	15.2	5.5
16	Pineappleweed	5.4	1.1	20.7	0.5	9.2	56.6	4.5
17	Field peas	8.3	1.5	18.2	0.1	1.0	2.4	4.0
18	Prostrate knotweed	6.6	1.3	19.4	0.1	1.4	3.2	3.4
19	Redroot pigweed	8.5	0.9	10.1	0.1	0.7	1.6	3.2
20	Flixweed	8.6	0.6	6.7	< 0.1	0.3	0.6	2.8
21	Barnyard grass	2.4	0.9	37.8	0.2	7.5	15.8	2.3
22	Pale smartweed	4.8	0.6	12.3	< 0.1	0.7	2.4	2.0
23	Foxtail barley	5.0	0.4	8.9	< 0.1	0.9	2.0	1.9
24	Hemp-nettle	4.1	0.5	13.1	< 0.1	1.0	1.4	1.7
25	Rough cinquefoil	4.4	0.3	5.9	< 0.1	0.5	1.0	1.4
26	Biennial wormwood	3.2	0.4	12.5	< 0.1	1.0	2.8	1.4
27	Field horsetail	2.2	0.4	17.4	0.1	4.6	11.0	1.3
28	Round-leaved mallow	3.9	0.3	7.9	< 0.1	0.3	0.6	1.3
29	Wild chamomile	1.6	0.6	37.5	0.1	3.7	7.2	1.3
30	Chickweed	4.0	0.2	5.0	< 0.1	0.5	0.8	1.3
31	Common groundsel	3.7	0.2	6.1	< 0.1	0.4	1.0	1.2
32	Bluebur	3.1	0.2	5.0	< 0.1	0.3	0.4	1.0
33	Oats	1.1	0.3	25.0	0.1	8.6	8.6	1.0
34	Cow cockle	2.1	0.3	16.3	< 0.1	0.7	1.4	0.9
35	Marsh yellow cress	1.6	0.3	20.0	< 0.1	1.7	2.4	0.9
36	Common pepper-grass	1.0	0.4	45.0	< 0.1	3.6	3.6	0.9
37	Clover species	2.1	0.2	9.6	< 0.1	0.4	0.6	0.8
38	Russian thistle	2.1	0.1	5.0	< 0.1	0.2	0.2	0.6
39	American dragonhead	1.7	0.1	5.0	< 0.1	1.0	1.4	0.6
40	Wild mustard	1.4	0.2	12.9	< 0.1	0.6	0.8	0.6
41	Barley	0.9	0.2	25.0	< 0.1	1.4	1.4	0.5
42	American vetch	1.6	0.1	5.0	< 0.1	0.7	1.0	0.5
43	Quack grass	0.8	0.1	15.0	< 0.1	3.6	3.6	0.4
44	Prostrate pigweed	1.1	0.1	10.0	< 0.1	1.0	1.0	0.4
45	Stork's-bill	1.3	0.1	5.0	< 0.1	1.2	1.2	0.4
46	Smooth brome	1.3	0.1	5.0	< 0.1	1.0	1.0	0.4
47	Slender wheat grass	1.1	0.1	10.0	< 0.1	0.4	0.4	0.4
48	Broad-leaved plantain	1.3	0.1	5.0	< 0.1	0.6	0.6	0.4
49	Wild tomato	1.0	0.1	10.0	< 0.1	0.4	0.4	0.4
50	Downy brome	1.1	0.1	5.0	< 0.1	0.4	0.4	0.4
51	Ball mustard	1.1	0.1	5.0	< 0.1	0.2	0.2	0.3
52	Sheep sorrel	1.1	0.1	5.0	< 0.1	0.2	0.2	0.3

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Field Survey Summary Tables – Moist Mixed Grassland Spring Wheat

Table 43. 2010 spring wheat fields in the Moist Mixed Grassland Ecoregion (93 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Corn spurry	0.8	0.1	10.0	< 0.1	1.0	1.0	0.3
54	Purslane speedwell	0.8	0.1	10.0	< 0.1	0.4	0.4	0.3
55	White mustard	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.3
56	Wheat	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
57	Povertyweed	0.8	< 0.1	5.0	< 0.1	0.4	0.4	0.3
58	Night-flowering catchfly	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
59	Prickly lettuce	0.6	0.1	10.0	< 0.1	0.4	0.4	0.2

Field Survey Summary Tables – Moist Mixed Grassland Barley

Table 44. 2010 barley fields in the Moist Mixed Grassland Ecoregion (57 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	50.1	13.8	27.6	1.7	3.5	34.4	42.5
2	Wild oats	27.5	6.5	23.6	4.0	14.5	284.6	39.2
3	Kochia	29.7	9.1	30.6	1.5	5.2	25.6	29.3
4	Canola	22.1	6.1	27.5	1.3	6.1	43.6	22.0
5	Downy brome	2.6	1.4	55.0	3.2	125.3	187.6	20.9
6	Wheat	15.7	4.7	29.8	0.6	3.9	24.0	14.1
7	Canada thistle	28.9	2.9	10.1	0.3	1.0	3.4	13.6
8	Narrow-leaved hawk's-beard	6.3	4.1	65.2	0.9	14.9	31.2	12.8
9	Dandelion	17.9	2.8	15.5	0.3	1.5	6.4	10.3
10	Lamb's-quarters	12.2	2.9	23.7	0.3	2.3	8.4	8.9
11	Stinkweed	12.8	2.4	19.1	0.3	2.2	9.4	8.5
12	Green foxtail	13.6	2.2	16.2	0.2	1.4	4.4	7.9
13	Redroot pigweed	11.6	1.9	16.5	0.3	2.9	9.6	7.7
14	Spiny annual sow-thistle	9.8	1.4	14.6	0.1	1.2	3.8	5.4
15	Henbit	1.7	0.2	10.0	0.7	43.4	43.4	4.9
16	Shepherd's-purse	9.2	1.2	12.8	0.1	0.7	1.4	4.5
17	Foxtail barley	10.3	0.8	8.2	0.1	0.7	3.0	4.4
18	Flixweed	8.2	1.1	13.5	0.1	0.7	1.2	4.1
19	Russian thistle	7.1	0.8	10.7	< 0.1	0.7	1.2	3.3
20	Western marsh cudweed	1.2	0.4	35.0	0.4	33.4	33.4	3.3
21	Prostrate knotweed	4.4	0.7	15.1	0.1	1.7	3.6	2.5
22	Quack grass	2.4	0.4	15.0	0.2	9.2	9.2	2.5
23	Prostrate pigweed	3.4	0.9	25.0	0.1	1.8	3.2	2.4
24	Stork's-bill	5.4	0.5	9.1	< 0.1	0.6	1.6	2.4
25	Thyme-leaved spurge	3.6	0.6	16.7	0.1	1.5	3.0	2.1
26	Barnyard grass	1.7	0.5	30.0	0.2	10.0	10.0	2.1
27	Pale smartweed	5.0	0.3	6.9	< 0.1	0.3	0.4	2.0
28	Field peas	3.3	0.5	13.8	< 0.1	0.7	1.4	1.7
29	Cow cockle	2.6	0.5	20.0	< 0.1	1.5	3.2	1.6
30	Wild mustard	2.1	0.5	23.8	0.1	2.8	3.6	1.6
31	Cleavers	2.3	0.3	15.0	0.1	2.2	2.2	1.4
32	Round-leaved mallow	3.4	0.2	5.0	< 0.1	1.1	2.0	1.4
33	Alfalfa	3.3	0.3	7.8	< 0.1	0.5	0.8	1.4
34	Perennial sow-thistle	1.7	0.3	20.0	< 0.1	1.4	1.4	1.1
35	Field bindweed	1.7	0.3	15.0	< 0.1	0.6	0.6	0.9
36	Hemp-nettle	1.9	0.2	10.0	< 0.1	0.4	0.4	0.8
37	Oats	1.7	0.2	10.0	< 0.1	1.2	1.2	0.8
38	Prickly lettuce	1.7	0.1	5.0	< 0.1	0.8	0.8	0.7
39	Dogbane species	1.7	0.1	5.0	< 0.1	0.6	0.6	0.6
40	Rose species	1.7	0.1	5.0	< 0.1	0.4	0.4	0.6
41	Barley	1.7	0.1	5.0	< 0.1	0.4	0.4	0.6
42	Goat's-beard	1.7	0.1	5.0	< 0.1	0.2	0.2	0.6
43	Grass	1.7	0.1	5.0	< 0.1	0.2	0.2	0.6

Field Survey Summary Tables – Moist Mixed Grassland Broad-Leaved Annual Crops

Table 45. 2010 broad-leaved annual crops in the Moist Mixed Grassland Ecoregion (50 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	49.6	17.4	35.1	2.9	5.8	72.8	54.3
2	Wheat	32.4	9.9	30.5	1.5	4.6	22.6	30.6
3	Narrow-leaved hawk's-beard	19.9	6.1	30.7	1.2	6.2	24.4	21.4
4	Cleavers	12.4	4.4	35.3	1.3	10.6	13.2	18.2
5	Canada thistle	37.2	4.2	11.3	0.5	1.4	3.2	17.6
6	Dandelion	26.7	4.9	18.5	0.4	1.5	10.0	15.0
7	Kochia	11.6	2.7	23.2	1.1	9.3	62.2	14.2
8	Lamb's-quarters	17.2	3.2	18.5	0.6	3.3	22.8	12.1
9	Stinkweed	22.7	3.0	13.2	0.4	1.8	19.6	12.0
10	Spiny annual sow-thistle	27.2	3.2	11.7	0.2	0.6	2.2	11.4
11	Wild oats	21.1	3.0	14.3	0.3	1.6	10.6	11.1
12	Western marsh cudweed	5.2	1.6	31.6	0.6	11.2	21.0	7.6
13	Canola	12.1	1.8	14.7	0.2	1.4	7.4	6.2
14	Barley	11.6	1.8	15.5	0.2	1.3	3.6	6.0
15	Redroot pigweed	10.7	1.0	9.7	0.2	1.5	4.6	5.0
16	Kentucky blue grass	1.4	0.3	25.0	0.5	32.8	32.8	4.2
17	Perennial sow-thistle	7.6	1.2	16.1	0.1	1.1	2.6	3.9
18	Flixweed	8.4	1.1	12.6	0.1	0.9	2.8	3.8
19	Foxtail barley	4.6	1.1	23.5	0.1	3.0	4.8	3.4
20	Thyme-leaved spurge	7.5	1.1	14.1	0.1	0.7	1.6	3.4
21	Stork's-bill	7.6	0.8	10.0	< 0.1	0.4	0.4	2.9
22	Goat's-beard	5.9	0.9	16.2	< 0.1	0.7	1.4	2.8
23	Prostrate knotweed	6.7	0.5	8.0	< 0.1	0.6	1.0	2.5
24	Field horsetail	7.6	0.4	5.0	< 0.1	0.4	0.4	2.4
25	Rough cinquefoil	2.8	1.0	35.0	0.1	2.4	2.6	2.3
26	Shepherd's-purse	3.8	0.5	14.3	0.1	2.5	6.2	2.2
27	Pineappleweed	1.4	0.8	60.0	0.1	7.8	7.8	2.1
28	Field peas	3.3	0.6	19.7	< 0.1	1.0	1.6	1.8
29	Volunteer grain	1.9	0.7	35.0	0.1	2.6	2.6	1.6
30	Green foxtail	4.3	0.4	10.0	< 0.1	0.4	0.4	1.6
31	Dock species	2.2	0.4	20.0	< 0.1	2.2	2.2	1.4
32	Purslane speedwell	1.4	0.6	45.0	< 0.1	2.8	2.8	1.4
33	Prostrate pigweed	3.9	0.3	7.5	< 0.1	0.3	0.4	1.3
34	Common pepper-grass	1.4	0.4	30.0	0.1	4.2	4.2	1.3
35	Hemp-nettle	2.2	0.4	20.0	< 0.1	1.4	1.4	1.3
36	Alfalfa	3.6	0.3	7.3	< 0.1	0.3	0.4	1.2
37	Quack grass	2.9	0.2	8.3	< 0.1	0.3	0.4	1.0
38	Downy brome	1.6	0.2	15.0	< 0.1	2.2	2.2	0.9
39	Biennial wormwood	2.8	0.1	5.0	< 0.1	0.3	0.4	0.9
40	Bluebur	2.6	0.1	5.0	< 0.1	0.2	0.2	0.8
41	Scentless chamomile	1.4	0.2	15.0	< 0.1	1.6	1.6	0.7
42	Linear-leaved plantain	1.4	0.2	15.0	< 0.1	1.2	1.2	0.7
43	Pale smartweed	1.4	0.2	15.0	< 0.1	0.8	0.8	0.7
44	Yellow sweet-clover	1.4	0.2	15.0	< 0.1	0.6	0.6	0.6
45	Common groundsel	1.4	0.1	10.0	< 0.1	0.4	0.4	0.5
46	Clover species	1.4	0.1	10.0	< 0.1	0.4	0.4	0.5
47	Broad-leaved plantain	1.4	0.1	5.0	< 0.1	0.2	0.2	0.4
48	Corn spurry	1.4	0.1	5.0	< 0.1	0.2	0.2	0.4

Field Survey Summary Tables – Moist Mixed Grassland Canola

Table 46. 2010 canola fields in the Moist Mixed Grassland Ecoregion (31 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	63.2	22.7	35.9	4.3	6.8	72.8	58.6
2	Wheat	37.8	11.3	29.9	2.0	5.2	22.6	29.5
3	Narrow-leaved hawk's-beard	25.1	8.7	34.8	1.9	7.7	24.4	24.1
4	Cleavers	20.0	7.0	35.3	2.1	10.6	13.2	22.4
5	Kochia	9.9	3.3	33.1	1.7	17.0	62.2	14.2
6	Dandelion	24.6	5.8	23.7	0.5	2.1	10.0	13.6
7	Stinkweed	30.7	3.9	12.7	0.6	2.0	19.6	13.6
8	Canada thistle	32.0	3.8	12.0	0.6	1.8	3.2	13.6
9	Lamb's-quarters	20.2	4.4	21.6	0.9	4.3	22.8	13.2
10	Wild oats	26.5	4.3	16.2	0.5	2.0	10.6	12.5
11	Western marsh cudweed	8.3	2.6	31.6	0.9	11.2	21.0	9.3
12	Spiny annual sow-thistle	23.9	1.6	6.8	0.1	0.3	0.6	7.0
13	Kentucky blue grass	2.2	0.6	25.0	0.7	32.8	32.8	4.9
14	Redroot pigweed	10.9	1.2	10.9	0.1	0.9	2.2	4.0
15	Flixweed	9.3	1.5	16.0	0.1	1.2	2.8	4.0
16	Stork's-bill	12.1	1.2	10.0	< 0.1	0.4	0.4	4.0
17	Foxtail barley	4.8	1.6	33.4	0.2	4.4	4.8	3.7
18	Thyme-leaved spurge	7.8	1.5	19.0	0.1	0.9	1.6	3.5
19	Field horsetail	12.1	0.6	5.0	< 0.1	0.4	0.4	3.4
20	Perennial sow-thistle	6.1	1.3	21.5	0.1	1.8	2.6	3.1
21	Rough cinquefoil	4.5	1.6	35.0	0.1	2.4	2.6	3.0
22	Shepherd's-purse	6.0	0.9	14.3	0.2	2.5	6.2	2.9
23	Pineappleweed	2.2	1.3	60.0	0.2	7.8	7.8	2.7
24	Barley	6.7	0.7	10.8	0.1	0.9	1.8	2.4
25	Field peas	5.3	1.0	19.7	0.1	1.0	1.6	2.4
26	Prostrate knotweed	6.5	0.7	10.0	0.1	0.8	1.0	2.3
27	Dock species	3.5	0.7	20.0	0.1	2.2	2.2	1.8
28	Purslane speedwell	2.2	1.0	45.0	0.1	2.8	2.8	1.8
29	Alfalfa	5.8	0.4	7.3	< 0.1	0.3	0.4	1.7
30	Hemp-nettle	3.5	0.7	20.0	< 0.1	1.4	1.4	1.7
31	Common pepper-grass	2.2	0.7	30.0	0.1	4.2	4.2	1.6
32	Quack grass	4.7	0.4	8.3	< 0.1	0.3	0.4	1.4
33	Green foxtail	4.2	0.4	10.0	< 0.1	0.4	0.4	1.4
34	Biennial wormwood	4.5	0.2	5.0	< 0.1	0.3	0.4	1.2
35	Downy brome	2.6	0.4	15.0	0.1	2.2	2.2	1.2
36	Scentless chamomile	2.2	0.3	15.0	< 0.1	1.6	1.6	1.0
37	Linear-leaved plantain	2.2	0.3	15.0	< 0.1	1.2	1.2	0.9
38	Pale smartweed	2.2	0.3	15.0	< 0.1	0.8	0.8	0.9
39	Yellow sweet-clover	2.2	0.3	15.0	< 0.1	0.6	0.6	0.9
40	Prostrate pigweed	3.1	0.2	5.0	< 0.1	0.2	0.2	0.8
41	Common groundsel	2.2	0.2	10.0	< 0.1	0.4	0.4	0.7
42	Clover species	2.2	0.2	10.0	< 0.1	0.4	0.4	0.7
43	Goat's-beard	2.6	0.1	5.0	< 0.1	0.2	0.2	0.7
44	Broad-leaved plantain	2.2	0.1	5.0	< 0.1	0.2	0.2	0.6
45	Corn spurry	2.2	0.1	5.0	< 0.1	0.2	0.2	0.6

Field Survey Summary Tables – Moist Mixed Grassland Field Pea

Table 47. 2010 field pea fields in the Moist Mixed Grassland Ecoregion (19 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wheat	23.4	7.5	32.0	0.7	2.9	6.2	38.3
2	Wild buckwheat	27.0	8.6	31.8	0.5	1.9	5.4	37.0
3	Canada thistle	45.8	4.8	10.5	0.4	0.9	2.2	32.1
4	Canola	32.1	4.7	14.7	0.4	1.4	7.4	29.2
5	Spiny annual sow-thistle	32.7	5.8	17.6	0.3	1.0	2.2	28.6
6	Barley	19.7	3.6	18.1	0.3	1.5	3.6	20.1
7	Dandelion	30.0	3.4	11.5	0.2	0.6	1.6	19.4
8	Redroot pigweed	10.3	0.8	7.5	0.3	2.5	4.6	11.0
9	Goat's-beard	11.3	2.3	20.5	0.1	0.9	1.4	10.2
10	Kochia	14.6	1.8	12.1	0.1	0.7	1.6	10.1
11	Narrow-leaved hawk's-beard	11.4	1.8	15.9	0.1	1.0	1.6	9.5
12	Volunteer grain	5.2	1.8	35.0	0.1	2.6	2.6	8.3
13	Lamb's-quarters	12.1	1.2	10.0	0.1	0.6	0.8	7.5
14	Stinkweed	9.4	1.5	15.9	0.1	0.6	1.0	7.0
15	Wild oats	12.1	0.9	7.1	< 0.1	0.4	0.6	6.2
16	Perennial sow-thistle	10.1	1.1	10.8	< 0.1	0.4	0.6	6.0
17	Bluebur	7.0	0.3	5.0	< 0.1	0.2	0.2	3.0
18	Flixweed	7.0	0.3	5.0	< 0.1	0.2	0.2	3.0
19	Prostrate knotweed	7.0	0.3	5.0	< 0.1	0.2	0.2	3.0
20	Thyme-leaved spurge	7.0	0.3	5.0	< 0.1	0.2	0.2	3.0
21	Prostrate pigweed	5.2	0.5	10.0	< 0.1	0.4	0.4	3.0
22	Green foxtail	4.5	0.4	10.0	< 0.1	0.4	0.4	2.6
23	Foxtail barley	4.3	0.2	5.0	< 0.1	0.2	0.2	1.8

Field Survey Summary Tables – Fescue Grassland Annual Crops

Table 48. 2010 annual crops in the Fescue Grassland Ecoregion (48 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	51.3	16.2	31.5	1.4	2.7	10.6	41.9
2	Wild oats	15.5	7.5	48.3	2.0	12.8	26.2	27.4
3	Canada thistle	37.7	6.0	15.9	0.6	1.5	9.2	21.2
4	Canola	18.9	6.4	33.6	0.6	3.4	10.2	17.0
5	Green foxtail	8.3	3.9	46.7	1.2	14.1	27.6	15.3
6	Wheat	14.3	5.4	37.7	0.6	4.3	12.6	14.3
7	Lamb's-quarters	16.9	4.5	26.8	0.6	3.5	19.6	14.0
8	Foxtail barley	16.2	3.6	22.3	0.6	3.7	10.4	12.9
9	Shepherd's-purse	8.3	3.4	41.7	0.9	10.9	31.2	12.8
10	Stork's-bill	4.6	2.4	52.5	1.1	24.4	57.0	12.5
11	Dandelion	20.2	2.9	14.3	0.2	1.0	3.2	10.2
12	Redroot pigweed	10.3	3.1	30.5	0.4	3.8	15.6	9.2
13	Stinkweed	15.7	2.2	14.2	0.2	1.5	4.0	8.5
14	Cleavers	6.6	3.1	47.9	0.4	5.8	11.8	8.1
15	Field bindweed	11.0	3.1	28.1	0.2	1.9	9.0	8.0
16	Pineappleweed	2.8	2.1	75.0	0.6	20.8	20.8	7.3
17	Perennial sow-thistle	8.5	2.7	31.4	0.2	2.0	4.4	6.4
18	Round-leaved mallow	9.0	1.3	14.5	0.1	0.9	1.8	4.5
19	Yellow toadflax	5.5	1.2	22.5	0.2	3.9	5.6	4.5
20	Kochia	12.2	0.6	5.0	< 0.1	0.2	0.2	4.2
21	Spiny annual sow-thistle	6.0	1.5	24.6	0.1	2.0	3.2	4.2
22	Wild mustard	4.0	1.2	30.3	0.2	5.3	14.6	4.0
23	Hemp-nettle	8.3	1.0	11.7	0.1	1.0	1.8	3.9
24	Flixweed	10.0	0.6	6.4	< 0.1	0.3	0.6	3.7
25	Prostrate knotweed	6.4	1.0	16.2	0.1	0.9	1.6	3.3
26	Chickweed	2.8	1.5	55.0	0.1	4.4	4.4	3.3
27	Cow cockle	5.6	0.9	16.8	0.1	1.0	2.0	3.0
28	Yellow alyssum	1.2	0.9	75.0	0.2	15.4	15.4	2.7
29	American dragonhead	3.1	0.8	27.2	0.1	2.0	2.6	2.2
30	Narrow-leaved hawk's-beard	5.5	0.4	7.5	< 0.1	0.5	0.6	2.2
31	Clover species	3.3	0.2	5.0	< 0.1	0.2	0.2	1.1
32	Downy brome	1.7	0.3	15.4	< 0.1	2.3	2.8	1.1
33	Barley	2.8	0.1	5.0	< 0.1	0.4	0.4	1.0
34	Sunflower	1.2	0.1	5.0	< 0.1	3.2	3.2	0.7
35	Black medick	1.2	0.1	10.0	< 0.1	0.6	0.6	0.5
36	Prostrate pigweed	1.2	0.1	10.0	< 0.1	0.4	0.4	0.5
37	Spear-leaved goosefoot	1.2	0.1	5.0	< 0.1	0.2	0.2	0.4
38	Henbit	1.2	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Quack grass	0.5	0.1	20.0	< 0.1	2.4	2.4	0.4
40	Alfalfa	0.5	0.1	10.0	< 0.1	0.4	0.4	0.2
41	Grass	0.5	0.1	10.0	< 0.1	0.4	0.4	0.2
42	Rose species	0.5	< 0.1	5.0	< 0.1	1.0	1.0	0.2
43	Low larkspur	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.2
44	Silvery lupin	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.2
45	Timothy	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Field Survey Summary Tables – Fescue Grassland Cereal Crops

Table 49. 2010 cereal crops in the Fescue Grassland Ecoregion (32 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	45.0	14.3	31.7	1.1	2.5	9.2	37.8
2	Canola	29.1	9.8	33.6	1.0	3.4	10.2	27.0
3	Wild oats	15.4	7.1	46.0	1.9	12.3	26.2	26.8
4	Canada thistle	43.5	5.8	13.4	0.6	1.5	4.8	24.0
5	Green foxtail	8.5	5.7	67.5	1.8	21.0	27.6	22.4
6	Foxtail barley	24.9	5.6	22.3	0.9	3.7	10.4	20.5
7	Stork's-bill	2.9	2.9	100.0	1.6	57.0	57.0	16.6
8	Stinkweed	23.4	3.3	14.2	0.4	1.5	4.0	13.2
9	Dandelion	21.8	3.8	17.3	0.3	1.3	3.2	12.7
10	Lamb's-quarters	9.0	3.4	37.3	0.6	6.7	19.6	10.9
11	Redroot pigweed	7.4	3.2	42.4	0.5	6.7	15.6	9.5
12	Cleavers	5.0	3.7	73.7	0.5	9.1	10.6	9.2
13	Yellow toadflax	8.5	1.9	22.5	0.3	3.9	5.6	7.1
14	Field bindweed	10.5	2.0	18.9	0.1	1.0	2.8	6.1
15	Spiny annual sow-thistle	8.5	2.1	25.0	0.2	1.9	3.2	6.1
16	Chickweed	4.2	2.3	55.0	0.2	4.4	4.4	5.3
17	Cow cockle	8.6	1.4	16.8	0.1	1.0	2.0	4.8
18	Yellow alyssum	1.9	1.4	75.0	0.3	15.4	15.4	4.3
19	Hemp-nettle	8.5	1.1	12.5	0.1	0.6	1.0	4.0
20	Wild mustard	1.9	1.2	65.0	0.3	14.6	14.6	4.0
21	Kochia	10.3	0.5	5.0	< 0.1	0.2	0.2	3.7
22	American dragonhead	4.8	1.3	27.2	0.1	2.0	2.6	3.5
23	Narrow-leaved hawk's-beard	8.5	0.6	7.5	< 0.1	0.5	0.6	3.5
24	Prostrate knotweed	5.6	0.5	9.6	< 0.1	0.8	1.6	2.6
25	Round-leaved mallow	4.5	0.7	15.3	< 0.1	0.9	1.4	2.4
26	Perennial sow-thistle	4.5	0.7	15.3	< 0.1	0.8	1.0	2.4
27	Flixweed	5.0	0.3	5.0	< 0.1	0.2	0.2	1.8
28	Downy brome	2.7	0.4	15.4	0.1	2.3	2.8	1.7
29	Sunflower	1.9	0.1	5.0	0.1	3.2	3.2	1.1
30	Black medick	1.9	0.2	10.0	< 0.1	0.6	0.6	0.8
31	Prostrate pigweed	1.9	0.2	10.0	< 0.1	0.4	0.4	0.8
32	Spear-leaved goosefoot	1.9	0.1	5.0	< 0.1	0.2	0.2	0.7
33	Henbit	1.9	0.1	5.0	< 0.1	0.2	0.2	0.7
34	Alfalfa	0.8	0.1	10.0	< 0.1	0.4	0.4	0.4
35	Grass	0.8	0.1	10.0	< 0.1	0.4	0.4	0.4
36	Wheat	0.8	< 0.1	5.0	< 0.1	0.4	0.4	0.3
37	Low larkspur	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3
38	Silvery lupin	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3
39	Clover species	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3
40	Timothy	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3

Table 50. 2010 spring wheat fields in the Fescue Grassland Ecoregion (13 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	60.3	24.1	39.9	2.1	3.5	9.2	49.0
2	Canola	53.0	20.8	39.3	2.2	4.1	10.2	44.8
3	Wild oats	31.1	13.5	43.4	3.8	12.1	26.2	43.6
4	Canada thistle	60.3	8.0	13.2	0.9	1.5	2.6	27.8
5	Foxtail barley	23.8	9.4	39.6	1.2	4.9	7.8	21.5
6	Cleavers	9.7	8.3	85.0	1.0	10.6	10.6	16.2
7	Green foxtail	9.7	3.4	35.0	1.4	14.4	14.4	14.4
8	Dandelion	29.9	4.2	14.2	0.4	1.4	3.2	13.7
9	Chickweed	9.7	5.4	55.0	0.4	4.4	4.4	9.7
10	Stinkweed	18.3	2.2	12.0	0.5	2.5	4.0	9.4
11	Yellow toadflax	9.7	3.9	40.0	0.5	5.6	5.6	9.3
12	Hemp-nettle	19.5	2.4	12.5	0.1	0.6	1.0	7.6
13	Spiny annual sow-thistle	9.7	3.4	35.0	0.3	3.2	3.2	7.3
14	Field bindweed	8.6	3.0	35.0	0.2	2.1	2.8	5.8
15	Redroot pigweed	10.5	1.6	15.3	0.1	1.0	1.4	4.6
16	Lamb's-quarters	9.7	1.0	10.0	0.1	0.6	0.6	3.6
17	Narrow-leaved hawk's-beard	9.7	1.0	10.0	< 0.1	0.4	0.4	3.5
18	Kochia	9.7	0.5	5.0	< 0.1	0.2	0.2	2.9
19	Round-leaved mallow	6.2	1.0	15.4	0.1	1.0	1.4	2.7
20	Prostrate knotweed	1.9	0.5	25.0	< 0.1	1.4	1.4	1.0
21	Downy brome	1.9	0.1	5.0	< 0.1	1.2	1.2	0.7
22	Alfalfa	1.9	0.2	10.0	< 0.1	0.4	0.4	0.7

Field Survey Summary Tables – Fescue Grassland Barley

Table 51. 2010 barley fields in the Fescue Grassland Ecoregion (17 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stork's-bill	6.0	6.0	100.0	3.4	57.0	57.0	43.3
2	Canada thistle	35.9	4.9	13.7	0.5	1.4	4.8	23.9
3	Lamb's-quarters	9.9	6.1	61.7	1.2	12.1	19.6	23.9
4	Wild buckwheat	21.5	6.6	30.9	0.4	2.0	2.8	21.4
5	Stinkweed	32.0	4.9	15.4	0.3	1.0	3.2	21.2
6	Redroot pigweed	6.0	5.1	85.0	0.9	15.6	15.6	18.7
7	Foxtail barley	21.4	2.2	10.1	0.8	3.5	10.4	17.4
8	Dandelion	18.2	4.0	21.9	0.2	1.1	1.8	14.2
9	Cow cockle	18.0	3.0	16.8	0.2	1.0	2.0	12.2
10	Yellow alyssum	3.9	2.9	75.0	0.6	15.4	15.4	11.4
11	Wild mustard	3.9	2.5	65.0	0.6	14.6	14.6	10.5
12	Wild oats	3.9	2.5	65.0	0.5	14.0	14.0	10.3
13	American dragonhead	9.9	2.7	27.2	0.2	2.0	2.6	9.2
14	Field bindweed	14.1	1.4	10.0	0.1	0.4	0.6	7.3
15	Perennial sow-thistle	9.4	1.4	15.3	0.1	0.8	1.0	6.0
16	Spiny annual sow-thistle	8.8	1.3	15.0	0.1	0.6	0.6	5.4
17	Kochia	12.7	0.6	5.0	< 0.1	0.2	0.2	5.4
18	Yellow toadflax	8.8	0.4	5.0	0.2	2.2	2.2	5.4
19	Prostrate knotweed	9.9	0.7	7.0	0.1	0.7	1.6	5.0
20	Narrow-leaved hawk's-beard	8.8	0.4	5.0	0.1	0.6	0.6	4.0
21	Downy brome	3.9	0.8	20.0	0.1	2.8	2.8	3.5
22	Sunflower	3.9	0.2	5.0	0.1	3.2	3.2	2.7
23	Round-leaved mallow	3.9	0.6	15.0	< 0.1	0.8	0.8	2.5
24	Black medick	3.9	0.4	10.0	< 0.1	0.6	0.6	2.1
25	Prostrate pigweed	3.9	0.4	10.0	< 0.1	0.4	0.4	2.0
26	Spear-leaved goosefoot	3.9	0.2	5.0	< 0.1	0.2	0.2	1.6
27	Henbit	3.9	0.2	5.0	< 0.1	0.2	0.2	1.6
28	Canola	3.9	0.2	5.0	< 0.1	0.2	0.2	1.6
29	Cleavers	1.7	0.3	15.0	< 0.1	1.4	1.4	1.2
30	Grass	1.7	0.2	10.0	< 0.1	0.4	0.4	0.9
31	Wheat	1.7	0.1	5.0	< 0.1	0.4	0.4	0.7
32	Flixweed	1.7	0.1	5.0	< 0.1	0.2	0.2	0.7
33	Low larkspur	1.7	0.1	5.0	< 0.1	0.2	0.2	0.7
34	Silvery lupin	1.7	0.1	5.0	< 0.1	0.2	0.2	0.7
35	Clover species	1.7	0.1	5.0	< 0.1	0.2	0.2	0.7
36	Timothy	1.7	0.1	5.0	< 0.1	0.2	0.2	0.7

Field Survey Summary Tables – Fescue Grassland Broad-Leaved Annual Crops

Table 52. 2010 broad-leaved annual crops in the Fescue Grassland Ecoregion (16 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	63.0	19.7	31.3	1.8	2.9	10.6	49.0
2	Wheat	39.4	15.3	39.0	1.7	4.4	12.6	38.2
3	Shepherd's-purse	23.6	9.8	41.7	2.6	10.9	31.2	35.3
4	Wild oats	15.7	8.3	52.5	2.1	13.6	26.0	28.4
5	Pineappleweed	7.9	5.9	75.0	1.6	20.8	20.8	20.2
6	Lamb's-quarters	31.5	6.7	21.3	0.6	1.8	4.2	18.9
7	Canada thistle	27.1	6.3	23.1	0.5	1.8	9.2	16.7
8	Perennial sow-thistle	15.7	6.3	40.0	0.4	2.6	4.4	13.3
9	Field bindweed	11.9	5.2	43.4	0.4	3.5	9.0	11.3
10	Redroot pigweed	15.7	3.1	20.0	0.2	1.3	1.6	8.7
11	Round-leaved mallow	17.3	2.4	14.1	0.2	0.9	1.8	8.0
12	Flixweed	19.2	1.4	7.0	0.1	0.4	0.6	6.8
13	Cleavers	9.4	2.1	22.1	0.2	2.4	11.8	6.1
14	Dandelion	17.3	1.3	7.3	0.1	0.3	0.4	6.0
15	Kochia	15.7	0.8	5.0	< 0.1	0.2	0.2	5.0
16	Stork's-bill	7.9	1.6	20.0	0.2	2.2	2.2	4.9
17	Prostrate knotweed	7.9	2.0	25.0	0.1	1.0	1.0	4.5
18	Wild mustard	7.9	1.2	15.0	0.1	1.2	1.2	3.9
19	Hemp-nettle	7.9	0.8	10.0	0.1	1.8	1.8	3.9
20	Green foxtail	7.9	0.4	5.0	< 0.1	0.4	0.4	2.6
21	Barley	7.9	0.4	5.0	< 0.1	0.4	0.4	2.6
22	Clover species	7.9	0.4	5.0	< 0.1	0.2	0.2	2.5
23	Spiny annual sow-thistle	1.5	0.3	20.0	< 0.1	2.8	2.8	1.0
24	Quack grass	1.5	0.3	20.0	< 0.1	2.4	2.4	1.0
25	Stinkweed	1.5	0.2	15.0	< 0.1	0.8	0.8	0.7
26	Rose species	1.5	0.1	5.0	< 0.1	1.0	1.0	0.6

Field Survey Summary Tables – Fescue Grassland Canola

Table 53. 2010 canola fields in the Fescue Grassland Ecoregion (14 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	62.1	21.7	35.0	2.0	3.2	10.6	50.7
2	Wheat	44.4	17.3	39.0	2.0	4.4	12.6	41.7
3	Shepherd's-purse	26.6	11.1	41.7	2.9	10.9	31.2	38.2
4	Wild oats	8.9	7.1	80.0	2.3	26.0	26.0	25.6
5	Pineappleweed	8.9	6.7	75.0	1.8	20.8	20.8	21.9
6	Lamb's-quarters	35.5	7.5	21.3	0.6	1.8	4.2	20.6
7	Canada thistle	26.6	3.6	13.3	0.2	0.7	1.6	11.3
8	Perennial sow-thistle	8.9	5.3	60.0	0.4	4.4	4.4	10.1
9	Redroot pigweed	17.8	3.6	20.0	0.2	1.3	1.6	9.5
10	Round-leaved mallow	19.5	2.7	14.1	0.2	0.9	1.8	8.7
11	Flixweed	21.7	1.5	7.0	0.1	0.4	0.6	7.4
12	Cleavers	10.6	2.3	22.1	0.3	2.4	11.8	6.7
13	Dandelion	19.5	1.4	7.3	0.1	0.3	0.4	6.6
14	Kochia	17.8	0.9	5.0	< 0.1	0.2	0.2	5.5
15	Stork's-bill	8.9	1.8	20.0	0.2	2.2	2.2	5.3
16	Field bindweed	9.5	1.9	20.1	0.1	1.2	4.6	5.0
17	Prostrate knotweed	8.9	2.2	25.0	0.1	1.0	1.0	5.0
18	Wild mustard	8.9	1.3	15.0	0.1	1.2	1.2	4.2
19	Hemp-nettle	8.9	0.9	10.0	0.2	1.8	1.8	4.2
20	Green foxtail	8.9	0.4	5.0	< 0.1	0.4	0.4	2.9
21	Barley	8.9	0.4	5.0	< 0.1	0.4	0.4	2.9
22	Clover species	8.9	0.4	5.0	< 0.1	0.2	0.2	2.7
23	Spiny annual sow-thistle	1.7	0.3	20.0	< 0.1	2.8	2.8	1.1
24	Quack grass	1.7	0.3	20.0	< 0.1	2.4	2.4	1.0
25	Stinkweed	1.7	0.3	15.0	< 0.1	0.8	0.8	0.8
26	Rose species	1.7	0.1	5.0	< 0.1	1.0	1.0	0.6

Field Survey Summary Tables – Mixed Grassland Annual Crops

Table 54. 2010 annual crops in the Mixed Grassland Ecoregion (136 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	55.0	15.5	28.3	1.7	3.2	28.8	46.1
2	Wild oats	38.0	8.3	21.7	1.2	3.2	23.6	29.0
3	Kochia	35.7	7.6	21.2	1.2	3.3	52.8	27.2
4	Russian thistle	26.8	7.8	28.9	1.3	4.9	35.4	26.1
5	Redroot pigweed	33.4	6.0	17.9	0.6	1.9	20.6	20.7
6	Lamb's-quarters	5.9	1.4	24.6	2.2	37.4	328.8	19.7
7	Narrow-leaved hawk's-beard	15.4	4.4	28.3	1.1	7.4	148.2	17.9
8	Green foxtail	15.2	4.2	27.6	0.9	5.8	101.6	15.6
9	Dandelion	23.9	3.9	16.3	0.5	2.3	28.2	15.0
10	Flixweed	17.6	2.7	15.3	0.2	1.2	7.0	9.3
11	Prostrate knotweed	10.6	3.2	30.6	0.3	2.7	7.2	8.8
12	Wheat	4.3	1.4	32.9	0.5	11.4	31.8	6.5
13	Stinkweed	11.9	1.8	14.8	0.2	1.5	8.8	6.5
14	Prostrate pigweed	5.7	2.2	38.4	0.3	5.4	15.6	6.5
15	Foxtail barley	10.9	1.3	12.0	0.2	1.5	13.4	5.6
16	Canada thistle	8.6	0.8	9.1	0.1	0.6	1.4	3.5
17	Perennial sow-thistle	5.0	0.9	17.2	0.1	2.1	6.2	3.1
18	Shepherd's-purse	6.4	0.6	9.9	< 0.1	0.6	2.8	2.7
19	Purslane	3.6	1.0	27.7	0.1	2.0	4.4	2.7
20	Spiny annual sow-thistle	4.6	0.8	17.0	0.1	1.6	4.6	2.7
21	Canola	4.1	0.7	16.1	0.1	1.7	3.0	2.4
22	Barley	2.8	0.7	24.7	0.1	2.4	5.2	2.1
23	Round-leaved mallow	4.8	0.4	9.2	< 0.1	0.6	1.6	2.0
24	Field peas	2.6	0.5	20.1	< 0.1	1.1	3.6	1.5
25	Downy brome	4.2	0.3	6.1	< 0.1	0.3	0.6	1.5
26	Wild tomato	3.5	0.2	5.0	< 0.1	0.2	0.2	1.2
27	Cow cockle	3.0	0.2	5.0	< 0.1	0.2	0.2	1.0
28	Volunteer grain	1.8	0.3	17.5	< 0.1	0.9	1.0	1.0
29	Thyme-leaved spurge	1.8	0.2	13.4	< 0.1	1.8	4.4	1.0
30	Pale smartweed	2.9	0.1	5.0	< 0.1	0.2	0.2	1.0
31	Alfalfa	2.1	0.2	10.8	< 0.1	0.7	1.2	0.9
32	Scouring-rush	0.9	0.1	15.0	< 0.1	4.4	4.4	0.7
33	Canada fleabane	1.7	0.1	8.5	< 0.1	0.4	0.8	0.7
34	Barnyard grass	0.8	0.2	20.0	< 0.1	4.0	4.0	0.6
35	Goat's-beard	1.5	0.1	9.1	< 0.1	0.5	0.6	0.6
36	Prickly lettuce	0.9	< 0.1	5.0	< 0.1	4.2	4.2	0.6
37	Oats	1.1	0.2	15.0	< 0.1	1.0	1.0	0.6
38	Field bindweed	0.9	0.1	15.0	< 0.1	1.2	1.2	0.5
39	Chickweed	0.9	0.1	15.0	< 0.1	1.2	1.2	0.5
40	Purslane speedwell	0.9	0.1	10.0	< 0.1	2.0	2.0	0.5
41	Pygmyflower	1.2	0.1	7.5	< 0.1	0.5	0.6	0.5
42	Scarlet mallow	0.9	0.1	15.0	< 0.1	0.6	0.6	0.4
43	Tansy	1.1	0.1	5.0	< 0.1	0.6	0.6	0.4
44	Common pepper-grass	1.0	0.1	8.1	< 0.1	0.4	0.6	0.4
45	Bluebur	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
46	Biennial wormwood	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
47	American vetch	0.7	0.1	10.0	< 0.1	0.4	0.4	0.3
48	Quack grass	0.4	0.1	30.0	< 0.1	1.2	1.2	0.3
49	Yellow alyssum	0.6	0.1	10.0	< 0.1	0.4	0.4	0.2
50	Rose species	0.6	0.1	10.0	< 0.1	0.4	0.4	0.2
51	Common yarrow	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
52	Blue lettuce	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.2

(Table continued on next page)

Field Survey Summary Tables – Mixed Grassland Annual Crops

Table 54. 2010 annual crops in the Mixed Grassland Ecoregion (136 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	American dragonhead	0.4	< 0.1	5.0	< 0.1	0.6	0.6	0.1
54	Crested wheat grass	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1

Field Survey Summary Tables – Mixed Grassland Cereal Crops

Table 55. 2010 cereal crops in the Mixed Grassland Ecoregion (120 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	57.1	16.4	28.7	1.9	3.3	28.8	47.9
2	Wild oats	39.9	8.9	22.4	1.3	3.4	23.6	30.6
3	Russian thistle	25.8	7.9	30.4	1.4	5.3	35.4	25.9
4	Kochia	35.4	6.4	18.1	1.0	2.9	52.8	24.2
5	Redroot pigweed	37.6	6.8	18.0	0.7	1.9	20.6	23.1
6	Lamb's-quarters	4.7	1.4	30.0	2.5	54.0	328.8	20.7
7	Narrow-leaved hawk's-beard	16.5	5.0	30.1	1.3	8.0	148.2	19.6
8	Green foxtail	16.2	4.4	27.4	1.0	5.9	101.6	16.4
9	Dandelion	24.8	4.3	17.3	0.6	2.5	28.2	15.9
10	Prostrate knotweed	12.3	3.8	30.6	0.3	2.7	7.2	10.0
11	Flixweed	15.3	2.6	17.1	0.2	1.3	7.0	8.5
12	Prostrate pigweed	6.6	2.6	38.4	0.4	5.4	15.6	7.3
13	Stinkweed	11.4	1.6	14.4	0.1	1.3	8.8	6.0
14	Foxtail barley	10.6	1.3	12.7	0.2	1.6	13.4	5.6
15	Wheat	2.1	1.0	45.0	0.5	23.0	31.8	5.1
16	Canada thistle	7.3	0.7	9.5	< 0.1	0.6	1.0	3.0
17	Canola	4.8	0.8	16.1	0.1	1.7	3.0	2.7
18	Purslane	3.1	1.0	33.8	0.1	2.4	4.4	2.6
19	Shepherd's-purse	6.4	0.5	8.3	< 0.1	0.5	2.8	2.5
20	Spiny annual sow-thistle	3.7	0.6	16.4	0.1	1.7	4.6	2.1
21	Round-leaved mallow	4.6	0.4	7.8	< 0.1	0.6	1.6	1.8
22	Field peas	3.0	0.6	20.1	< 0.1	1.1	3.6	1.8
23	Downy brome	4.9	0.3	6.1	< 0.1	0.3	0.6	1.7
24	Perennial sow-thistle	2.7	0.4	15.0	0.1	2.3	6.2	1.6
25	Wild tomato	4.0	0.2	5.0	< 0.1	0.2	0.2	1.3
26	Thyme-leaved spurge	2.0	0.3	13.4	< 0.1	1.8	4.4	1.1
27	Alfalfa	2.4	0.3	10.8	< 0.1	0.7	1.2	1.1
28	Cow cockle	2.4	0.1	5.0	< 0.1	0.2	0.2	0.8
29	Scouring-rush	1.1	0.2	15.0	< 0.1	4.4	4.4	0.8
30	Pale smartweed	2.3	0.1	5.0	< 0.1	0.2	0.2	0.8
31	Barnyard grass	0.9	0.2	20.0	< 0.1	4.0	4.0	0.7
32	Barley	1.2	0.2	15.0	< 0.1	0.6	0.6	0.6
33	Field bindweed	1.1	0.2	15.0	< 0.1	1.2	1.2	0.6
34	Purslane speedwell	1.1	0.1	10.0	< 0.1	2.0	2.0	0.6
35	Volunteer grain	1.1	0.2	15.0	< 0.1	1.0	1.0	0.5
36	Pygmyflower	1.4	0.1	7.5	< 0.1	0.5	0.6	0.5
37	Scarlet mallow	1.1	0.2	15.0	< 0.1	0.6	0.6	0.5
38	Common pepper-grass	1.1	0.1	8.1	< 0.1	0.4	0.6	0.4
39	Goat's-beard	1.1	0.1	5.0	< 0.1	0.4	0.4	0.4
40	Bluebur	1.1	0.1	5.0	< 0.1	0.2	0.2	0.4
41	Canada fleabane	0.7	0.1	15.0	< 0.1	0.8	0.8	0.3
42	American vetch	0.8	0.1	10.0	< 0.1	0.4	0.4	0.3
43	Quack grass	0.4	0.1	30.0	< 0.1	1.2	1.2	0.3
44	Yellow alyssum	0.7	0.1	10.0	< 0.1	0.4	0.4	0.3
45	Rose species	0.7	0.1	10.0	< 0.1	0.4	0.4	0.3
46	Common yarrow	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
47	Blue lettuce	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
48	American dragonhead	0.4	< 0.1	5.0	< 0.1	0.6	0.6	0.2
49	Crested wheat grass	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1

Field Survey Summary Tables – Mixed Grassland Spring Wheat

Table 56. 2010 spring wheat fields in the Mixed Grassland Ecoregion (64 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	60.2	19.4	32.3	2.5	4.1	28.8	58.6
2	Wild oats	39.2	10.7	27.2	2.0	5.0	23.6	38.4
3	Russian thistle	26.7	7.9	29.5	1.7	6.4	35.4	29.7
4	Narrow-leaved hawk's-beard	15.0	5.2	34.8	1.7	11.3	148.2	23.0
5	Kochia	31.7	4.8	15.3	0.3	1.1	3.8	17.1
6	Green foxtail	17.5	3.1	17.9	1.1	6.3	101.6	16.8
7	Redroot pigweed	27.7	3.8	13.8	0.4	1.3	18.0	14.8
8	Prostrate knotweed	15.2	5.7	37.4	0.5	3.3	7.2	14.8
9	Dandelion	24.7	3.3	13.4	0.4	1.4	15.0	13.4
10	Wheat	4.0	1.8	45.0	0.9	23.0	31.8	10.3
11	Flixweed	14.2	2.5	17.7	0.2	1.2	3.2	8.2
12	Stinkweed	11.3	2.0	17.6	0.2	2.1	8.8	7.2
13	Lamb's-quarters	3.7	1.0	26.4	0.5	13.7	38.4	6.0
14	Purslane	5.9	2.0	33.8	0.1	2.4	4.4	5.1
15	Foxtail barley	6.5	1.1	16.1	0.2	2.8	13.4	4.4
16	Field peas	5.8	1.2	20.1	0.1	1.1	3.6	3.5
17	Shepherd's-purse	7.5	0.6	7.7	< 0.1	0.6	2.8	3.1
18	Canada thistle	6.6	0.8	11.8	< 0.1	0.7	1.0	3.1
19	Prostrate pigweed	3.9	0.7	17.3	0.1	3.2	6.2	2.8
20	Downy brome	7.3	0.5	6.4	< 0.1	0.3	0.6	2.7
21	Perennial sow-thistle	3.1	0.7	21.8	0.1	3.6	6.2	2.5
22	Spiny annual sow-thistle	4.0	0.5	12.5	< 0.1	0.7	1.0	1.9
23	Scouring-rush	2.0	0.3	15.0	0.1	4.4	4.4	1.6
24	Alfalfa	3.3	0.4	11.1	< 0.1	0.8	1.2	1.6
25	Barnyard grass	1.8	0.4	20.0	0.1	4.0	4.0	1.4
26	Barley	2.2	0.3	15.0	< 0.1	0.6	0.6	1.1
27	Wild tomato	3.0	0.1	5.0	< 0.1	0.2	0.2	1.0
28	Bluebur	2.0	0.1	5.0	< 0.1	0.2	0.2	0.7
29	Cow cockle	2.0	0.1	5.0	< 0.1	0.2	0.2	0.7
30	Pale smartweed	1.8	0.1	5.0	< 0.1	0.2	0.2	0.6
31	Canola	1.8	0.1	5.0	< 0.1	0.2	0.2	0.6
32	Yellow alyssum	1.3	0.1	10.0	< 0.1	0.4	0.4	0.6
33	Thyme-leaved spurge	1.3	0.1	10.0	< 0.1	0.4	0.4	0.5
34	Common yarrow	1.3	0.1	5.0	< 0.1	0.2	0.2	0.4
35	Blue lettuce	1.2	0.1	5.0	< 0.1	0.2	0.2	0.4
36	Round-leaved mallow	0.8	0.1	15.0	< 0.1	0.6	0.6	0.4
37	American dragonhead	0.8	< 0.1	5.0	< 0.1	0.6	0.6	0.3
38	Common pepper-grass	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3
39	Crested wheat grass	0.6	< 0.1	5.0	< 0.1	0.4	0.4	0.2

Table 57. 2010 durum fields in the Mixed Grassland Ecoregion (25 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Russian thistle	41.1	14.3	34.7	2.0	4.9	17.8	52.4
2	Kochia	32.0	8.3	26.1	2.4	7.6	52.8	46.0
3	Dandelion	27.5	6.2	22.7	1.4	5.2	28.2	31.5
4	Wild buckwheat	48.9	7.2	14.8	0.4	0.8	2.2	28.1
5	Redroot pigweed	40.3	6.0	14.9	0.7	1.7	7.6	26.7
6	Wild oats	35.7	6.8	18.9	0.6	1.7	9.8	25.9
7	Flixweed	25.4	4.6	18.3	0.4	1.6	7.0	17.7
8	Prostrate pigweed	11.0	4.9	44.8	0.5	4.8	9.6	15.5
9	Narrow-leaved hawk's-beard	13.4	2.2	16.3	0.2	1.6	4.8	9.0
10	Foxtail barley	13.1	0.9	6.8	0.1	0.8	1.8	5.9
11	Spiny annual sow-thistle	4.6	1.4	30.0	0.2	4.6	4.6	5.5
12	Stinkweed	8.5	0.9	10.8	< 0.1	0.4	0.6	4.0
13	Prostrate knotweed	4.6	1.2	25.0	0.1	1.8	1.8	3.8
14	Canada thistle	7.4	0.8	10.6	< 0.1	0.6	1.0	3.6
15	Green foxtail	6.8	0.8	12.0	0.1	0.8	1.4	3.6
16	Purslane speedwell	4.6	0.5	10.0	0.1	2.0	2.0	2.9
17	Field bindweed	4.6	0.7	15.0	0.1	1.2	1.2	2.8
18	Canola	4.6	0.5	10.0	0.1	1.8	1.8	2.8
19	Volunteer grain	4.6	0.7	15.0	< 0.1	1.0	1.0	2.7
20	Scarlet mallow	4.6	0.7	15.0	< 0.1	0.6	0.6	2.6
21	Wild tomato	4.9	0.2	5.0	< 0.1	0.2	0.2	1.8
22	Downy brome	4.6	0.2	5.0	< 0.1	0.4	0.4	1.8
23	Goat's-beard	4.6	0.2	5.0	< 0.1	0.4	0.4	1.8
24	Thyme-leaved spurge	2.9	0.3	10.0	< 0.1	0.6	0.6	1.4

Field Survey Summary Tables – Mixed Grassland Barley

Table 58. 2010 barley fields in the Mixed Grassland Ecoregion (29 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Lamb's-quarters	8.6	3.5	40.2	9.6	110.7	328.8	54.7
2	Wild buckwheat	55.6	16.0	28.7	1.6	2.8	9.6	39.2
3	Redroot pigweed	53.4	13.8	25.9	1.6	3.0	20.6	36.4
4	Kochia	46.2	8.1	17.5	1.2	2.7	23.2	26.4
5	Green foxtail	20.7	10.0	48.2	1.5	7.2	12.8	23.7
6	Wild oats	44.8	7.5	16.8	0.7	1.6	8.8	22.8
7	Narrow-leaved hawk's-beard	21.2	4.6	21.7	1.2	5.5	25.6	16.2
8	Dandelion	21.1	4.2	20.2	0.4	1.8	4.2	11.7
9	Prostrate pigweed	8.9	4.6	51.5	0.7	8.3	15.6	11.0
10	Foxtail barley	14.9	2.4	15.9	0.2	1.4	3.6	7.3
11	Canola	11.9	2.6	22.0	0.3	2.2	3.0	7.1
12	Prostrate knotweed	14.1	2.3	16.1	0.2	1.4	2.8	6.9
13	Round-leaved mallow	17.6	1.2	7.1	0.1	0.6	1.6	6.1
14	Russian thistle	10.5	2.0	19.2	0.1	0.9	2.0	5.2
15	Stinkweed	12.2	1.3	10.3	0.1	0.5	0.8	4.6
16	Shepherd's-purse	10.5	1.0	9.1	< 0.1	0.4	0.6	3.8
17	Canada thistle	9.1	0.5	5.0	< 0.1	0.5	0.8	2.9
18	Pale smartweed	5.9	0.3	5.0	< 0.1	0.2	0.2	1.8
19	Cow cockle	5.8	0.3	5.0	< 0.1	0.2	0.2	1.8
20	Perennial sow-thistle	4.7	0.2	5.0	< 0.1	0.2	0.2	1.4
21	American vetch	3.5	0.4	10.0	< 0.1	0.4	0.4	1.3
22	Quack grass	1.8	0.5	30.0	< 0.1	1.2	1.2	1.1
23	Common pepper-grass	2.9	0.3	10.0	< 0.1	0.6	0.6	1.1
24	Rose species	2.9	0.3	10.0	< 0.1	0.4	0.4	1.1
25	Alfalfa	2.9	0.3	10.0	< 0.1	0.4	0.4	1.1
26	Pygmyflower	2.9	0.1	5.0	< 0.1	0.6	0.6	0.9
27	Flixweed	2.9	0.1	5.0	< 0.1	0.2	0.2	0.9
28	Wild tomato	2.9	0.1	5.0	< 0.1	0.2	0.2	0.9
29	Spiny annual sow-thistle	2.2	0.1	5.0	< 0.1	0.2	0.2	0.7

Field Survey Summary Tables – Mixed Grassland Broad-Leaved Annual Crops

Table 59. 2010 broad-leaved annual crops in the Mixed Grassland Ecoregion (16 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Kochia	37.3	14.9	40.0	2.1	5.7	23.4	55.6
2	Wild buckwheat	41.5	10.3	24.9	0.7	1.8	5.0	33.1
3	Russian thistle	33.0	7.1	21.5	0.9	2.6	10.8	28.1
4	Wild oats	25.7	4.0	15.5	0.5	1.9	6.2	17.5
5	Wheat	18.3	4.4	24.1	0.5	2.9	4.8	17.0
6	Flixweed	32.7	3.3	10.2	0.2	0.6	1.2	14.8
7	Perennial sow-thistle	19.6	3.8	19.2	0.4	1.9	4.2	14.5
8	Barley	13.5	4.0	30.0	0.5	3.4	5.2	14.4
9	Stinkweed	15.0	2.5	16.7	0.4	2.6	5.6	11.8
10	Green foxtail	8.2	2.5	30.0	0.4	4.4	4.4	9.8
11	Dandelion	17.7	1.3	7.4	0.1	0.6	1.0	7.4
12	Canada thistle	16.8	1.3	8.0	0.1	0.6	1.4	7.1
13	Lamb's-quarters	13.5	1.7	12.5	0.1	0.6	0.6	6.5
14	Spiny annual sow-thistle	10.1	1.9	18.3	0.1	1.1	1.6	6.3
15	Prickly lettuce	6.7	0.3	5.0	0.3	4.2	4.2	5.6
16	Foxtail barley	12.5	1.0	8.3	0.1	0.8	1.0	5.6
17	Oats	8.2	1.2	15.0	0.1	1.0	1.0	4.6
18	Shepherd's-purse	6.7	1.3	20.0	0.1	1.0	1.0	4.2
19	Volunteer grain	6.7	1.3	20.0	0.1	0.8	0.8	4.1
20	Chickweed	6.7	1.0	15.0	0.1	1.2	1.2	4.0
21	Redroot pigweed	6.7	1.0	15.0	0.1	1.0	1.0	3.8
22	Round-leaved mallow	6.7	1.0	15.0	< 0.1	0.6	0.6	3.5
23	Purslane	6.7	0.7	10.0	0.1	0.8	0.8	3.2
24	Tansy	8.2	0.4	5.0	< 0.1	0.6	0.6	3.1
25	Canada fleabane	8.2	0.4	5.0	< 0.1	0.2	0.2	2.7
26	Narrow-leaved hawk's-beard	8.2	0.4	5.0	< 0.1	0.2	0.2	2.7
27	Goat's-beard	4.6	0.7	15.0	< 0.1	0.6	0.6	2.4
28	Cow cockle	6.7	0.3	5.0	< 0.1	0.2	0.2	2.2
29	Pale smartweed	6.7	0.3	5.0	< 0.1	0.2	0.2	2.2
30	Biennial wormwood	6.7	0.3	5.0	< 0.1	0.2	0.2	2.2

Field Survey Summary Tables – Number of Fields by Crop by Ecodistrict

Table 60. Number of fields surveyed by crop in each ecodistrict

	Annual crops								Perennial crops
	Cereal					Broad-leaved			Perennial crops
	Spring wheat	Durum	Barley	Oat	Mixed cereal	Canola	Field peas	Mixed annuals	Perennial crops
Peace Lowland									
Manning Plain Ecodistrict (588 & 586)	2	-	4	-	-	3	2	-	-
Worsley Plain Ecodistrict (591 & 590)	-	-	3	3	-	6	3	-	1
McLennan Plain Ecodistrict (592, 610 & 612)	6	-	2	3	-	4	-	-	1
Rycroft Plain Ecodistrict (593)	5	-	-	-	-	8	2	-	-
Falher Plain Ecodistrict (595)	5	-	-	-	-	11	-	-	1
Dunvegan Plain Ecodistrict (596, 597, 600 & 611)	3	-	1	-	-	5	1	-	1
Boreal Transition									
Athabasca Plain Ecodistrict (678, 683, 681, 616 & 615)	8	-	5	4	2	13	1	-	7
Beaver River Plain Ecodistrict (680, 679 & 686)	1	-	11	6	-	8	-	-	1
Lac Ste Anne Upland Ecodistrict (684, 692 & 623)	3	-	6	6	3	4	1	1	5
Onion Lake Plain Ecodistrict (687 & 688)	4	-	5	1	2	5	-	-	1
Rimbey Upland Ecodistrict (703)	1	-	7	-	-	5	-	-	-
Caroline Plain Ecodistrict (708)	1	-	8	-	-	4	1	-	-
Aspen Parkland									
Leduc Plain Ecodistrict (727)	22	-	9	2	-	16	2	-	-
Andrew Plain Ecodistrict (728)	4	-	6	-	-	6	1	-	1
Lloydminster Plain Ecodistrict (729)	3	-	7	1	2	1	-	-	1
Vermilion Upland Ecodistrict (730)	24	-	19	2	1	16	6	-	7
Daysland Plain Ecodistrict (731 & 732)	33	-	11	1	-	35	11	-	-
Red Deer Plain Ecodistrict (737)	-	-	6	1	-	10	1	-	1
Sedgewick Plain Ecodistrict (738)	9	-	-	-	-	6	-	-	1
Ribstone Plain Ecodistrict (739 & 743)	3	-	4	1	-	3	3	-	-
Bashaw Upland Ecodistrict (740)	13	-	3	-	-	13	1	-	-
Pine Lake Upland Ecodistrict (744)	13	-	6	1	-	11	1	-	1
Olds Plain Ecodistrict (746 & 750)	3	-	16	1	-	5	-	-	-
Moist Mixed Grassland									
Castor Plain Ecodistrict (769 & 777)	13	-	2	1	1	5	-	-	-
Neutral Hills Ecodistrict (771)	6	-	7	1	-	1	1	-	-
Endiang Upland Ecodistrict (779)	7	-	1	-	-	2	-	-	-
Drumheller Plain Ecodistrict (781)	19	-	8	1	-	4	1	-	-
Wintaring Hills Ecodistrict (786)	5	-	2	-	-	2	3	-	1
Majorville Upland Ecodistrict (787)	6	1	7	-	-	1	3	-	-
Standard Plain Ecodistrict (788 & 790)	4	-	6	-	-	2	-	-	-
Vulcan Plain Ecodistrict (791)	13	3	5	1	1	9	4	-	-
Lethbridge Plain Ecodistrict (793 & 797)	20	4	19	2	2	5	7	-	2

(Table continued on next page)

Field Survey Summary Tables – Number of Fields by Crop by Ecodistrict

Table 60. Number of fields surveyed by crop in each ecodistrict (*continued*)

	Annual crops								Perennial
	Cereal					Broad-leaved			crops
	Spring wheat	Durum	Barley	Oat	Mixed cereal	Canola	Field peas	Mixed annuals	Perennial crops
Fescue Grassland									
Delacour Plain Ecodistrict (798)	9	-	5	1	1	10	1	-	-
Cardston Plain Ecodistrict (800, 801, 802 & 1018)	4	-	12	-	-	4	1	-	1
Mixed Grassland									
Sounding Creek Plain Ecodistrict (804)10	-	-	3	-	-	-	-	-	-
Berry Creek Plain Ecodistrict (806, 814, 818 & 812)	3	-	9	1	-	1	-	-	-
Oyen Upland Ecodistrict (809 & 805)	6	2	3	-	-	-	-	-	-
Bindloss Plain Ecodistrict (815 & 811)	2	4	4	-	1	-	-	-	-
Schuler Upland Ecodistrict (821)	7	4	1	-	-	1	1	-	1
Vauxhall Plain Ecodistrict (823)	4	3	2	-	-	2	-	-	-
Foremost Plain Ecodistrict (828)	24	10	7	-	-	5	6	-	-
Wild Horse Plain Ecodistrict (833, 837 & 836)	8	2	-	-	-	-	-	-	-

Field Survey Summary Tables – Density, Species Richness and Weed-Free Quadrats by Ecodistrict

Table 61. Number of fields surveyed, density, species richness and weed-free quadrats in the surveyed annual crops in each ecodistrict

Area	Number of fields surveyed	Density (number/m ²)			Species (number /field)		Weed-free quadrats	
		mean	SE	median	mean	SE	%	SE
Manning Plain Ecodistrict (588 & 586)	11	103.0	27.8	66.6	10.4	1.1	13.5	10.3
McLennan Plain Ecodistrict (592, 610 & 612)	15	79.9	42.4	4.9	5.1	1.0	45.0	12.8
Worsley Plain Ecodistrict (591 & 590)	15	6.0	3.2	1.0	2.8	0.8	72.0	11.6
Rycroft Plain Ecodistrict (593)	15	16.5	8.0	2.3	3.6	0.8	65.3	12.3
Falher Plain Ecodistrict (595)	16	12.1	3.8	24.0	5.8	1.0	53.1	12.5
Dunvegan Plain Ecodistrict (596, 597, 600 & 611)	10	58.5	36.2	12.9	5.6	1.1	39.4	15.5
Athabasca Plain Ecodistrict (678, 683, 681, 616 & 615)	33	11.2	3.6	7.8	3.3	0.4	41.4	8.6
Beaver River Plain Ecodistrict (680, 679 & 686)	26	9.6	2.0	4.8	3.1	0.4	45.0	9.8
Lac Ste Anne Upland Ecodistrict (684, 692 & 623)	24	58.1	20.9	15.6	7.1	0.8	27.5	9.1
Onion Lake Plain Ecodistrict (687 & 688)	17	17.2	5.3	6.1	4.8	0.9	43.5	12.0
Rimbey Upland Ecodistrict (703)	13	18.3	7.0	5.7	3.5	0.5	41.5	13.7
Caroline Plain Ecodistrict (708)	14	13.0	6.7	18.0	3.6	0.6	54.3	13.3
Leduc Plain Ecodistrict (727)	51	16.5	6.6	1.4	2.8	0.4	63.6	6.7
Andrew Plain Ecodistrict (728)	17	8.3	2.7	15.0	2.4	0.6	59.9	11.9
Lloydminster Plain Ecodistrict (729)	14	14.3	3.1	52.0	6.6	0.8	24.6	11.5
Vermilion Upland Ecodistrict (730)	68	22.3	4.1	55.0	5.1	0.4	36.7	5.8
Daysland Plain Ecodistrict (731 & 732)	91	29.5	3.6	15.7	5.7	0.3	31.3	4.9
Red Deer Plain Ecodistrict (737)	18	11.9	4.2	24.0	5.2	0.8	48.1	11.8
Sedgewick Plain Ecodistrict (738)	15	18.1	4.1	11.7	4.9	0.4	26.3	11.4
Ribstone Plain Ecodistrict (739 & 743)	14	9.3	3.2	4.2	3.7	0.4	39.2	13.0
Bashaw Upland Ecodistrict (740)	30	35.1	10.2	45.0	4.1	0.5	36.2	8.8
Pine Lake Upland Ecodistrict (744)	32	17.1	6.2	27.0	4.3	0.5	47.0	8.8
Olds Plain Ecodistrict (746 & 750)	25	21.4	9.6	4.1	4.1	0.6	49.1	10.0
Castor Plain Ecodistrict (769 & 777)	22	105.7	33.7	40.1	8.8	0.8	13.0	7.2
Neutral Hills Ecodistrict (771)	16	33.7	12.6	76.0	6.9	0.7	16.9	9.4
Endiang Upland Ecodistrict (779)	10	13.4	8.0	15.0	3.1	0.4	61.0	15.4
Drumheller Plain Ecodistrict (781)	33	11.9	2.5	5.4	4.3	0.5	40.2	8.5
Wintering Hills Ecodistrict (786)	12	19.1	5.5	31.0	4.6	0.6	30.8	13.3
Majorville Upland Ecodistrict (787)	18	17.4	11.3	3.6	4.9	0.8	54.9	11.7
Standard Plain Ecodistrict (788 & 790)	12	5.8	3.0	0.6	2.3	0.7	73.6	12.7
Vulcan Plain Ecodistrict (791)	36	5.9	1.9	14.0	3.4	0.4	61.3	8.1
Lethbridge Plain Ecodistrict (793 & 797)	59	11.4	4.5	11.0	2.7	0.3	65.6	6.2
Delacour Plain Ecodistrict (798)	27	12.7	3.8	3.3	3.6	0.6	52.2	9.6
Cardston Plain Ecodistrict (800, 801, 802 & 1018)	21	14.6	5.4	3.8	3.8	0.7	51.4	10.9
Sounding Creek Plain Ecodistrict (804)	13	39.4	15.1	18.2	6.5	0.6	19.6	11.0
Berry Creek Plain Ecodistrict (806, 814, 818 & 812)	14	45.8	20.8	19.5	8.6	0.8	18.0	10.3
Oyen Upland Ecodistrict (809 & 805)	11	10.9	2.9	6.7	5.0	0.7	34.3	14.3
Bindloss Plain Ecodistrict (815 & 811)	11	16.9	7.3	9.1	4.5	0.8	30.7	13.9
Schuler Upland Ecodistrict (821)	14	7.5	2.4	15.0	3.1	0.6	57.5	13.2
Vauxhall Plain Ecodistrict (823)	11	2.8	0.7	1.8	3.4	0.7	71.6	13.6
Foremost Plain Ecodistrict (828)	52	8.2	1.8	2.3	2.9	0.4	64.1	6.7
Wild Horse Plain Ecodistrict (833, 837 & 836)	10	3.2	0.7	1.9	2.8	0.4	61.3	15.4

Table 62. 2010 annual crops in the Manning Plain Ecodistrict (588 & 586) in the Peace Lowland Ecoregion (11 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Cleavers	89.2	42.0	47.1	39.5	44.3	135.8	61.5
2	Field horsetail	73.0	31.9	43.7	15.1	20.7	50.2	32.7
3	Narrow-leaved hawk's-beard	83.8	33.0	39.4	8.4	10.1	28.8	27.7
4	Wild buckwheat	73.0	27.5	37.7	7.7	10.6	74.2	24.1
5	Canola	78.4	28.4	36.2	4.7	6.0	16.8	22.0
6	Chickweed	31.1	23.5	75.5	10.7	34.5	41.2	21.5
7	Dandelion	73.0	28.1	38.4	2.0	2.7	5.0	18.7
8	Meadow brome	25.7	16.7	65.0	2.2	8.4	8.4	10.3
9	Spiny annual sow-thistle	58.1	9.7	16.6	1.4	2.5	14.0	10.3
10	Hemp-nettle	58.1	8.6	14.8	1.0	1.6	8.0	9.5
11	Clover species	58.1	6.1	10.6	1.6	2.7	23.4	9.2
12	Stinkweed	41.9	6.8	16.3	2.8	6.8	10.0	9.2
13	Pineappleweed	21.6	5.4	25.0	3.8	17.5	57.8	7.6
14	Barley	31.1	3.9	12.6	0.6	2.1	2.2	5.0
15	Common groundsel	36.5	2.1	5.7	0.1	0.2	0.4	4.3
16	Purple vetchling	31.1	3.1	10.0	0.1	0.5	0.8	4.2
17	Red fescue	25.7	3.9	15.0	0.4	1.4	1.4	4.2
18	Lamb's-quarters	31.1	2.8	9.1	0.2	0.5	0.6	4.1
19	Perennial sow-thistle	31.1	1.8	5.9	0.1	0.3	1.0	3.7
20	Canada thistle	25.7	1.3	5.0	0.3	1.2	1.2	3.2
21	Alfalfa	25.7	1.3	5.0	0.1	0.2	0.2	3.0
22	Broad-leaved plantain	10.8	0.8	7.5	0.1	0.5	0.6	1.4
23	Wheat	10.8	0.5	5.0	< 0.1	0.3	0.4	1.3
24	Henbit	5.4	0.3	5.0	< 0.1	0.2	0.2	0.6
25	Willowherb species	5.4	0.3	5.0	< 0.1	0.2	0.2	0.6

Field Survey Summary Tables – Ecodistricts 592, 610 & 612

Table 63. 2010 annual crops in the McLennan Plain Ecodistrict (592, 610 & 612) in the Peace Lowland Ecoregion (15 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Corn spurry	12.8	11.7	91.3	16.7	130.6	160.0	31.5
2	Field horsetail	62.9	20.4	32.4	3.7	5.9	25.6	31.2
3	Dandelion	27.7	13.2	47.6	13.0	46.9	102.4	30.8
4	Clover species	20.3	11.0	54.1	10.7	52.6	162.4	24.9
5	Lamb's-quarters	29.6	13.6	45.9	7.5	25.2	65.6	24.6
6	Hemp-nettle	35.2	9.9	28.3	4.1	11.7	57.6	19.0
7	Wild buckwheat	35.2	9.6	27.2	3.1	8.8	25.6	17.5
8	Narrow-leaved hawk's-beard	37.1	9.8	26.4	2.4	6.6	22.4	17.2
9	Pale smartweed	20.3	7.0	34.4	2.9	14.3	47.2	12.4
10	Stinkweed	7.5	5.2	70.0	4.3	57.6	57.6	10.4
11	Alfalfa	14.9	6.3	42.5	1.5	10.1	19.2	9.2
12	Quack grass	14.7	4.6	31.1	2.4	16.4	23.2	9.1
13	Canola	33.1	2.7	8.1	0.4	1.2	2.4	8.9
14	Chickweed	20.3	4.5	22.2	1.4	6.9	24.8	8.9
15	Cleavers	22.4	3.4	15.0	0.3	1.3	2.0	7.1
16	White cockle	7.5	3.0	40.0	2.0	26.4	26.4	6.0
17	American vetch	12.8	3.1	23.8	1.0	7.8	18.4	5.9
18	Canada thistle	16.8	1.4	8.4	0.1	0.3	0.6	4.4
19	Shepherd's-purse	7.5	1.9	25.0	0.9	12.0	12.0	3.9
20	Redroot pigweed	7.5	1.1	15.0	0.6	8.0	8.0	3.0
21	Perennial sow-thistle	7.5	0.4	5.0	0.7	9.6	9.6	2.6
22	Wild oats	9.4	0.6	6.0	< 0.1	0.3	0.6	2.3
23	Oats	7.5	0.4	5.0	0.1	1.6	1.6	1.9
24	Broad-leaved plantain	7.5	0.4	5.0	0.1	1.0	1.0	1.8
25	Purple vetchling	7.5	0.4	5.0	< 0.1	0.2	0.2	1.8
26	Barley	7.5	0.4	5.0	< 0.1	0.2	0.2	1.8
27	Red fescue	7.5	0.4	5.0	< 0.1	0.2	0.2	1.8

Table 64. 2010 annual crops in the Worsley Plain Ecodistrict (591 & 590) in the Peace Lowland Ecoregion (15 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Pineappleweed	21.2	6.2	29.3	1.9	8.7	32.4	51.8
2	Stinkweed	36.3	7.1	19.5	1.0	2.9	9.4	45.6
3	Wild buckwheat	15.0	6.0	40.0	1.2	7.8	20.8	37.9
4	Narrow-leaved hawk's-beard	31.3	3.8	12.2	0.4	1.1	5.6	25.4
5	Field horsetail	28.2	3.3	11.8	0.3	1.1	3.0	22.7
6	Dandelion	15.0	3.0	20.0	0.2	1.5	3.0	15.7
7	Cleavers	15.0	2.8	18.3	0.2	1.6	3.8	15.4
8	Lamb's-quarters	20.0	2.3	11.3	0.1	0.6	1.2	14.1
9	Hemp-nettle	10.0	2.8	27.5	0.2	1.8	2.4	12.6
10	Canola	13.1	1.9	14.3	0.1	0.8	1.2	10.6
11	Wild oats	10.0	1.8	17.5	0.1	1.1	1.4	9.2
12	Canada thistle	13.1	1.3	10.0	0.1	0.8	1.0	9.2
13	Clover species	10.0	1.3	12.5	0.1	0.5	0.8	7.2
14	Shepherd's-purse	10.0	1.0	10.0	0.1	0.7	0.8	6.9
15	Rough cinquefoil	5.0	0.8	15.0	< 0.1	0.8	0.8	4.1
16	Rose species	8.1	0.4	5.0	< 0.1	0.2	0.2	4.1
17	Common groundsel	5.0	0.3	5.0	< 0.1	0.2	0.2	2.5
18	Perennial sow-thistle	5.0	0.3	5.0	< 0.1	0.2	0.2	2.5
19	Wheat	5.0	0.3	5.0	< 0.1	0.2	0.2	2.5

Field Survey Summary Tables – Ecodistrict 593

Table 65. 2010 annual crops in the Rycroft Plain Ecodistrict (593) in the Peace Lowland Ecoregion (15 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Cleavers	40.0	9.0	22.5	5.9	14.8	70.8	64.0
2	Spiny annual sow-thistle	6.7	6.3	95.0	6.7	101.0	101.0	54.7
3	Wild buckwheat	46.7	6.7	14.3	0.4	0.9	1.8	27.9
4	Lamb's-quarters	26.7	4.7	17.5	0.9	3.4	11.2	21.6
5	Canola	20.0	4.3	21.7	0.8	4.1	12.0	18.7
6	Field horsetail	26.7	3.3	12.5	0.3	1.2	2.0	15.6
7	Wild oats	20.0	3.3	16.7	0.2	1.1	2.0	13.1
8	Stinkweed	20.0	3.0	15.0	0.2	0.9	2.0	12.3
9	Narrow-leaved hawk's-beard	20.0	3.0	15.0	0.2	0.9	1.2	12.2
10	Canada thistle	20.0	1.3	6.7	0.2	0.9	1.6	9.1
11	Clover species	13.3	2.0	15.0	0.2	1.3	2.4	8.5
12	Redroot pigweed	13.3	0.7	5.0	0.1	0.7	1.0	5.5
13	Shepherd's-purse	13.3	0.7	5.0	0.1	0.5	0.6	5.4
14	Dandelion	13.3	0.7	5.0	< 0.1	0.2	0.2	5.1
15	Red fescue	13.3	0.7	5.0	< 0.1	0.2	0.2	5.1
16	Perennial sow-thistle	6.7	1.0	15.0	0.1	1.2	1.2	4.2
17	Rough cinquefoil	6.7	1.0	15.0	0.1	0.8	0.8	4.1
18	Quack grass	6.7	0.3	5.0	< 0.1	0.4	0.4	2.6
19	Foxtail barley	6.7	0.3	5.0	< 0.1	0.2	0.2	2.6
20	Hemp-nettle	6.7	0.3	5.0	< 0.1	0.2	0.2	2.6
21	Pale smartweed	6.7	0.3	5.0	< 0.1	0.2	0.2	2.6
22	Alfalfa	6.7	0.3	5.0	< 0.1	0.2	0.2	2.6

Table 66. 2010 annual crops in the Falher Plain Ecodistrict (595) in the Peace Lowland Ecoregion (16 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Field horsetail	43.8	7.8	17.9	3.0	6.9	42.6	41.6
2	Lamb's-quarters	43.8	11.9	27.1	1.6	3.7	17.6	34.7
3	Wild buckwheat	50.0	8.4	16.9	0.5	1.1	5.2	22.8
4	Canada thistle	62.5	5.9	9.5	0.4	0.6	1.6	21.0
5	Dandelion	37.5	7.5	20.0	0.4	1.1	4.0	18.7
6	Wheat	31.3	4.4	14.0	1.0	3.1	8.6	18.4
7	Canola	6.3	3.1	50.0	1.6	25.6	25.6	17.9
8	Wild oats	37.5	4.7	12.5	0.7	1.8	5.2	17.4
9	Stinkweed	18.8	5.6	30.0	0.9	4.7	11.6	17.1
10	Cleavers	25.0	4.4	17.5	0.6	2.4	4.4	14.2
11	Clover species	31.3	4.4	14.0	0.2	0.7	1.4	12.2
12	Pale smartweed	37.5	2.2	5.8	0.2	0.4	1.4	10.2
13	Quack grass	12.5	2.5	20.0	0.3	2.2	3.6	7.3
14	Foxtail barley	18.8	1.9	10.0	0.2	0.9	1.8	6.7
15	Shepherd's-purse	18.8	1.6	8.3	0.1	0.7	1.8	6.2
16	Narrow-leaved hawk's-beard	12.5	2.2	17.5	0.1	1.0	1.8	5.7
17	Yellow sweet-clover	12.5	1.6	12.5	0.1	0.6	0.8	4.6
18	Hemp-nettle	12.5	1.3	10.0	0.1	0.4	0.6	4.0
19	Spear-leaved goosefoot	6.3	0.9	15.0	0.1	1.2	1.2	2.8
20	Bluebur	6.3	0.9	15.0	< 0.1	0.6	0.6	2.5
21	Alfalfa	6.3	0.3	5.0	< 0.1	0.4	0.4	1.6
22	Northern bedstraw	6.3	0.3	5.0	< 0.1	0.2	0.2	1.5
23	Tartary buckwheat	6.3	0.3	5.0	< 0.1	0.2	0.2	1.5
24	Chickweed	6.3	0.3	5.0	< 0.1	0.2	0.2	1.5
25	Golden corydalis	6.3	0.3	5.0	< 0.1	0.2	0.2	1.5
26	Redroot pigweed	6.3	0.3	5.0	< 0.1	0.2	0.2	1.5
27	Spiny annual sow-thistle	6.3	0.3	5.0	< 0.1	0.2	0.2	1.5
28	Willowherb species	6.3	0.3	5.0	< 0.1	0.2	0.2	1.5
29	Dock species	6.3	0.3	5.0	< 0.1	0.2	0.2	1.5

Field Survey Summary Tables – Ecodistricts 596, 597, 600 & 611

Table 67. 2010 annual crops in the Dunvegan Plain Ecodistrict (596, 597, 600 & 611) in the Peace Lowland Ecoregion (10 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	56.9	29.9	52.5	30.0	52.6	313.6	88.3
2	Stinkweed	38.9	9.5	24.5	4.9	12.5	35.2	23.9
3	Field horsetail	44.1	7.2	16.3	5.1	11.6	50.4	23.1
4	Canada thistle	44.1	8.2	18.7	2.3	5.3	16.0	19.3
5	Hemp-nettle	30.2	6.1	20.1	4.4	14.5	45.6	18.4
6	Wild oats	38.5	5.1	13.3	1.2	3.2	6.6	13.6
7	Cleavers	25.7	7.1	27.5	0.9	3.6	6.8	12.5
8	Quack grass	34.4	4.3	12.5	1.1	3.2	7.0	11.9
9	Dock species	8.7	2.2	25.0	4.9	56.0	56.0	11.8
10	Shepherd's-purse	35.4	4.2	12.0	0.7	1.9	5.6	11.3
11	Wheat	21.5	3.6	16.9	0.4	2.0	2.8	7.9
12	Dandelion	12.8	5.1	40.0	0.3	2.2	2.2	7.4
13	Clover species	22.6	3.1	13.5	0.2	0.9	1.0	7.1
14	Perennial sow-thistle	21.5	1.7	8.0	0.2	0.9	1.0	5.7
15	Alfalfa	12.8	2.6	20.0	0.1	0.8	0.8	4.8
16	Pale smartweed	12.8	1.9	15.0	0.1	0.8	0.8	4.2
17	Narrow-leaved hawk's-beard	12.8	1.9	15.0	0.1	0.6	0.6	4.2
18	Common groundsel	8.7	0.9	10.0	0.8	8.8	8.8	3.6
19	Bluebur	12.8	1.3	10.0	0.1	0.8	0.8	3.6
20	Lamb's-quarters	12.8	1.3	10.0	0.1	0.4	0.4	3.5
21	Purple vetchling	12.8	0.6	5.0	0.1	0.4	0.4	3.0
22	Chickweed	8.7	0.9	10.0	0.2	2.4	2.4	2.7
23	Redroot pigweed	8.7	0.9	10.0	0.1	1.6	1.6	2.6
24	Grass	8.7	0.9	10.0	0.1	1.6	1.6	2.6
25	Spiny annual sow-thistle	8.7	0.4	5.0	0.1	0.8	0.8	2.1
26	Canola	1.1	0.2	20.0	0.1	7.2	7.2	0.5
27	Kochia	1.1	0.1	10.0	< 0.1	4.0	4.0	0.4

Table 68. 2010 annual crops in the Athabasca Plain Ecodistrict (678, 683, 681, 616 & 615) in the Boreal Transition Ecoregion (33 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Canola	37.0	10.5	28.3	0.7	1.8	9.8	28.1
2	Wild buckwheat	23.0	9.1	39.3	0.8	3.6	14.6	23.8
3	Quack grass	16.2	6.4	39.5	1.2	7.7	31.6	22.7
4	Lamb's-quarters	10.3	4.0	39.0	1.5	14.8	67.2	21.0
5	Dandelion	30.6	6.6	21.5	0.4	1.4	6.2	20.1
6	Canada thistle	22.7	5.9	26.2	0.5	2.1	5.4	17.3
7	Wild oats	22.8	4.4	19.1	0.5	2.0	3.2	15.6
8	Pale smartweed	13.5	4.9	36.6	0.7	5.1	28.2	15.4
9	Tartary buckwheat	20.4	5.3	26.0	0.3	1.4	2.6	14.3
10	Hemp-nettle	10.9	3.8	34.4	0.8	7.2	33.2	14.2
11	Chickweed	12.7	4.3	33.9	0.6	4.4	10.0	13.3
12	Perennial sow-thistle	17.7	5.1	28.9	0.3	1.6	3.2	13.2
13	Cleavers	9.3	4.7	50.0	0.5	4.9	11.2	11.7
14	Stinkweed	9.4	2.9	30.5	0.6	6.0	27.0	10.9
15	False ragweed	6.7	3.2	47.3	0.1	2.2	3.2	6.7
16	Scentless chamomile	9.0	1.8	20.0	0.1	1.2	1.2	5.6
17	Alfalfa	1.5	1.5	100.0	0.4	25.4	25.4	5.3
18	Clover species	4.9	1.5	30.2	0.1	2.6	3.6	4.1
19	Black medick	2.4	1.8	75.0	0.2	7.2	7.2	4.1
20	Oats	2.2	0.9	40.0	0.3	12.2	12.2	3.9
21	Common groundsel	4.8	1.3	27.5	0.1	2.5	2.8	3.9
22	Barley	2.4	1.8	75.0	0.1	5.6	5.6	3.8
23	Showy milkweed	4.8	0.8	17.5	0.1	1.1	1.4	2.8
24	Shepherd's-purse	3.9	0.8	20.4	0.1	1.6	2.4	2.6
25	Narrow-leaved hawk's-beard	2.4	0.6	25.0	0.1	3.4	3.4	2.1
26	Spiny annual sow-thistle	3.4	0.5	15.7	< 0.1	1.2	1.8	2.0
27	Henbit	2.4	0.7	30.0	0.1	2.2	2.2	1.9
28	Golden corydalis	1.9	0.4	20.0	0.1	2.6	2.6	1.4
29	Stork's-bill	2.2	0.2	10.0	< 0.1	1.2	1.2	1.1
30	Redroot pigweed	2.4	0.2	10.0	< 0.1	0.6	0.6	1.1
31	Flixweed	2.2	0.2	10.0	< 0.1	0.6	0.6	1.0
32	Broad-leaved plantain	1.5	0.1	5.0	< 0.1	1.2	1.2	0.7
33	American vetch	1.5	0.1	10.0	< 0.1	0.6	0.6	0.7
34	Wormseed mustard	1.5	0.1	10.0	< 0.1	0.4	0.4	0.7
35	Field horsetail	1.5	0.1	5.0	< 0.1	0.8	0.8	0.6
36	Smooth brome	1.5	0.1	5.0	< 0.1	0.2	0.2	0.6
37	Rough cinquefoil	1.5	0.1	5.0	< 0.1	0.2	0.2	0.6
38	Prostrate knotweed	1.5	0.1	5.0	< 0.1	0.2	0.2	0.6
39	Mouse-eared chickweed	1.5	0.1	5.0	< 0.1	0.2	0.2	0.6

Field Survey Summary Tables – Ecodistricts 680, 679 & 686

Table 69. 2010 annual crops in the Beaver River Plain Ecodistrict (680, 679 & 686) in the Boreal Transition Ecoregion (26 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	46.9	16.0	34.1	1.9	4.0	27.8	53.2
2	Canada thistle	52.0	10.7	20.6	1.0	1.9	6.2	39.5
3	Dandelion	27.2	9.3	34.3	1.1	4.1	18.8	31.0
4	Wild oats	32.5	7.1	21.8	1.1	3.5	8.6	30.4
5	Canola	28.7	7.5	26.2	0.6	2.2	7.0	24.4
6	Stinkweed	15.5	4.9	31.3	0.6	3.6	13.2	16.4
7	Chickweed	7.8	3.9	50.0	0.6	7.8	15.4	13.3
8	Hemp-nettle	14.3	4.5	31.4	0.3	2.2	4.0	13.1
9	Perennial sow-thistle	15.5	3.1	20.0	0.2	1.3	2.4	10.7
10	Quack grass	2.7	2.0	75.0	0.7	24.2	24.2	10.0
11	Field horsetail	3.9	3.5	90.0	0.4	11.2	11.2	9.8
12	Shepherd's-purse	6.6	3.7	55.7	0.3	4.7	5.4	9.6
13	Lamb's-quarters	11.6	2.7	23.3	0.2	1.7	2.2	9.0
14	Wild mustard	3.9	2.1	55.0	0.2	5.6	5.6	6.0
15	Foxtail barley	7.8	1.4	17.5	0.1	0.9	1.4	4.8
16	Narrow-leaved hawk's-beard	7.8	1.0	12.5	0.1	0.9	1.2	4.3
17	Spiny annual sow-thistle	7.8	0.8	10.0	< 0.1	0.5	0.8	3.8
18	Flixweed	3.9	1.0	25.0	< 0.1	1.2	1.2	2.9
19	Alfalfa	3.9	0.8	20.0	< 0.1	0.8	0.8	2.5
20	Green foxtail	3.9	0.6	15.0	< 0.1	1.0	1.0	2.3
21	Scentless chamomile	3.9	0.4	10.0	< 0.1	0.6	0.6	1.9
22	Redroot pigweed	2.7	0.1	5.0	< 0.1	0.4	0.4	1.1

Table 70. 2010 annual crops in the Lac Ste Anne Upland Ecodistrict (684, 692 & 623) in the Boreal Transition Ecoregion (24 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Corn spurry	29.1	17.4	59.8	23.6	80.9	362.0	52.7
2	Stinkweed	44.6	26.3	59.0	5.8	12.9	32.8	28.4
3	Lamb's-quarters	43.4	16.8	38.9	5.0	11.5	44.4	22.5
4	Hemp-nettle	65.1	17.0	26.1	2.7	4.1	30.8	21.7
5	Dandelion	55.4	20.0	36.2	2.1	3.9	8.4	20.8
6	Wild buckwheat	49.9	17.7	35.4	2.2	4.4	16.0	19.1
7	Chickweed	34.7	11.5	33.1	4.3	12.4	39.0	17.7
8	Clover species	29.1	9.4	32.1	2.0	6.9	16.4	11.9
9	Wild oats	31.6	9.2	29.0	1.2	3.8	12.8	10.8
10	Canola	32.8	7.4	22.5	1.1	3.5	17.8	10.0
11	Canada thistle	39.0	5.9	15.2	0.6	1.5	6.8	9.3
12	Pale smartweed	35.7	5.9	16.6	0.4	1.2	5.2	8.6
13	Shepherd's-purse	23.8	5.8	24.3	0.6	2.5	7.2	7.1
14	Tartary buckwheat	16.4	7.1	43.0	0.8	4.9	11.8	7.0
15	Spiny annual sow-thistle	5.4	5.1	95.0	2.0	36.4	36.4	6.5
16	Field horsetail	28.2	3.0	10.6	0.4	1.5	8.4	6.1
17	Cleavers	13.1	3.8	28.8	0.9	6.6	19.6	5.1
18	Ball mustard	10.7	3.0	27.5	0.3	2.8	5.4	3.4
19	Field bindweed	5.4	4.0	75.0	0.4	7.6	7.6	3.3
20	White cockle	11.9	2.4	20.1	0.3	2.2	6.8	3.3
21	Perennial sow-thistle	6.6	3.6	55.0	0.3	4.6	7.6	3.1
22	Alfalfa	11.9	2.1	17.4	0.3	2.3	6.0	3.1
23	Narrow-leaved hawk's-beard	13.0	2.0	15.0	0.2	1.4	3.6	3.1
24	Flixweed	13.0	2.1	16.2	0.1	0.6	0.8	3.0
25	Rough cinquefoil	6.6	2.5	37.5	0.3	3.9	7.4	2.5
26	Barley	9.8	2.0	20.0	0.1	1.2	1.2	2.5
27	Wheat	6.6	1.0	15.0	0.1	1.5	1.6	1.6
28	Wild mustard	5.4	0.5	10.0	< 0.1	0.4	0.4	1.0
29	Yellow sweet-clover	3.3	0.3	10.0	< 0.1	1.4	1.4	0.7
30	Tall buttercup	3.3	0.3	10.0	< 0.1	1.2	1.2	0.7
31	Night-flowering catchfly	3.3	0.3	10.0	< 0.1	0.4	0.4	0.6
32	Broad-leaved plantain	3.3	0.2	5.0	< 0.1	0.4	0.4	0.6
33	Marsh yellow cress	3.3	0.2	5.0	< 0.1	0.2	0.2	0.6
34	Green foxtail	3.3	0.2	5.0	< 0.1	0.2	0.2	0.6
35	Wormseed mustard	3.3	0.2	5.0	< 0.1	0.2	0.2	0.6
36	Pineappleweed	3.3	0.2	5.0	< 0.1	0.2	0.2	0.6

Field Survey Summary Tables – Ecodistricts 687 & 688

Table 71. 2010 annual crops in the Onion Lake Plain Ecodistrict (687 & 688) in the Boreal Transition Ecoregion (17 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	76.9	32.5	42.2	3.8	4.9	16.8	64.1
2	Canada thistle	58.7	14.9	25.4	1.7	2.9	10.0	34.1
3	Dandelion	30.1	9.3	30.9	2.2	7.2	29.0	26.3
4	Cleavers	24.5	8.7	35.7	1.2	5.1	16.0	19.3
5	Narrow-leaved hawk's-beard	23.8	5.2	22.1	1.1	4.7	17.2	15.7
6	Wild oats	23.1	5.3	23.0	1.1	4.7	9.4	15.3
7	Lamb's-quarters	24.5	6.4	26.1	0.5	2.0	3.2	13.0
8	Perennial sow-thistle	18.2	5.5	30.2	0.7	3.7	4.4	12.1
9	Barley	11.9	4.4	36.8	0.9	7.7	14.4	11.3
10	Chickweed	12.6	3.1	25.0	0.7	5.7	10.4	9.3
11	Green foxtail	18.2	3.0	16.5	0.2	1.0	1.2	7.2
12	Pale smartweed	12.6	2.8	22.5	0.3	2.3	4.2	6.6
13	Night-flowering catchfly	6.3	2.5	40.0	0.5	8.6	8.6	6.5
14	Alfalfa	6.3	3.1	50.0	0.4	5.8	5.8	6.0
15	Field horsetail	11.9	2.1	17.9	0.3	2.2	3.8	5.7
16	Small-seeded false flax	12.6	1.9	15.0	0.3	2.0	2.0	5.6
17	Stork's-bill	6.3	2.5	40.0	0.4	5.6	5.6	5.4
18	Yellow toadflax	11.9	1.2	10.3	0.3	2.6	4.6	5.3
19	Hemp-nettle	11.2	1.1	10.0	0.2	1.6	2.6	4.3
20	Shepherd's-purse	12.6	0.9	7.5	0.1	0.7	1.2	3.9
21	Quack grass	11.2	1.1	10.0	0.1	1.0	1.6	3.9
22	Redroot pigweed	11.2	0.8	7.5	< 0.1	0.4	0.4	3.2
23	Stinkweed	5.6	1.1	20.0	0.1	2.0	2.0	2.7
24	Pineappleweed	6.3	0.9	15.0	< 0.1	0.6	0.6	2.3
25	Corn spurry	6.3	0.6	10.0	0.1	0.8	0.8	2.1
26	Prostrate knotweed	6.3	0.6	10.0	< 0.1	0.4	0.4	2.0
27	Foxtail barley	5.6	0.6	10.0	< 0.1	0.6	0.6	1.8
28	Flixweed	5.6	0.6	10.0	< 0.1	0.4	0.4	1.7
29	Canola	5.6	0.6	10.0	< 0.1	0.4	0.4	1.7
30	Slender wheat grass	6.3	0.3	5.0	< 0.1	0.2	0.2	1.6

Table 72. 2010 annual crops in the Rimbey Upland Ecodistrict (703) in the Boreal Transition Ecoregion (13 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	53.8	23.1	42.9	6.6	12.2	56.0	76.2
2	Quack grass	7.7	6.5	85.0	4.6	59.8	59.8	34.3
3	Canada thistle	23.1	11.9	51.7	1.8	7.7	16.2	29.1
4	Wild oats	23.1	9.2	40.0	1.9	8.1	18.6	26.7
5	Field horsetail	23.1	8.1	35.0	0.6	2.5	4.2	18.5
6	Canola	15.4	6.5	42.5	1.0	6.3	11.8	16.7
7	Dandelion	38.5	2.7	7.0	0.1	0.3	0.6	14.6
8	Shepherd's-purse	15.4	5.8	37.5	0.7	4.4	6.8	14.3
9	Wild buckwheat	23.1	4.6	20.0	0.3	1.3	3.4	13.3
10	Spiny annual sow-thistle	7.7	6.2	80.0	0.4	5.6	5.6	11.2
11	Cleavers	23.1	1.9	8.3	0.1	0.4	0.6	9.2
12	Wheat	15.4	2.7	17.5	0.2	1.0	1.8	8.2
13	Hemp-nettle	23.1	1.2	5.0	< 0.1	0.2	0.2	8.2
14	Corn spurry	15.4	0.8	5.0	< 0.1	0.2	0.2	5.4
15	Stinkweed	15.4	0.8	5.0	< 0.1	0.2	0.2	5.4
16	Perennial sow-thistle	7.7	0.8	10.0	< 0.1	0.4	0.4	3.2
17	Barnyard grass	7.7	0.4	5.0	< 0.1	0.2	0.2	2.7
18	Clover species	7.7	0.4	5.0	< 0.1	0.2	0.2	2.7

Field Survey Summary Tables – Ecodistrict 708

Table 73. 2010 annual crops in the Caroline Plain Ecodistrict (708) in the Boreal Transition Ecoregion (14 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Hemp-nettle	35.7	13.9	39.0	2.4	6.6	21.8	42.7
2	Chickweed	28.6	10.4	36.3	2.7	9.4	33.4	39.3
3	Perennial sow-thistle	7.1	7.1	100.0	1.9	27.0	27.0	24.3
4	Lamb's-quarters	21.4	7.1	33.3	1.4	6.4	18.6	24.0
5	Corn spurry	28.6	7.5	26.3	0.6	2.2	4.4	20.5
6	Dandelion	28.6	6.4	22.5	0.4	1.4	2.4	17.7
7	Clover species	14.3	6.8	47.5	0.8	5.3	10.4	16.9
8	Cleavers	21.4	5.4	25.0	0.5	2.1	5.6	15.0
9	Canada thistle	28.6	4.3	15.0	0.3	1.0	1.8	14.4
10	Wild buckwheat	21.4	4.6	21.7	0.2	1.0	2.0	12.4
11	Stinkweed	14.3	3.2	22.5	0.2	1.6	2.8	9.1
12	Pasture sage	7.1	2.9	40.0	0.5	7.2	7.2	8.9
13	Pale smartweed	7.1	3.6	50.0	0.3	4.0	4.0	7.9
14	Quack grass	14.3	2.1	15.0	0.2	1.2	2.2	7.5
15	Canola	14.3	2.1	15.0	0.1	0.8	0.8	7.1
16	Field horsetail	14.3	1.1	7.5	0.1	0.4	0.6	5.5
17	Two-grooved milk-vetch	7.1	0.7	10.0	0.2	3.0	3.0	4.4
18	Redroot pigweed	7.1	1.4	20.0	0.1	1.2	1.2	4.1
19	Pineappleweed	7.1	1.4	20.0	0.1	0.8	0.8	3.9
20	Common pepper-grass	7.1	1.1	15.0	0.1	1.4	1.4	3.9
21	Grass	7.1	0.7	10.0	0.1	1.0	1.0	3.3
22	Alfalfa	7.1	0.4	5.0	< 0.1	0.2	0.2	2.4
23	Barley	7.1	0.4	5.0	< 0.1	0.2	0.2	2.4
24	Yellow sweet-clover	7.1	0.4	5.0	< 0.1	0.2	0.2	2.4

Table 74. 2010 annual crops in the Leduc Plain Ecodistrict (727) in the Aspen Parkland Ecoregion (51 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	11.8	5.3	45.0	5.8	49.5	174.0	48.0
2	Canada thistle	43.1	7.8	18.2	0.7	1.6	5.4	32.4
3	Pale smartweed	5.9	2.2	36.7	3.0	50.5	151.0	23.6
4	Wild oats	21.6	5.9	27.3	0.7	3.1	12.8	21.3
5	Field horsetail	19.6	5.2	26.5	0.8	4.2	17.0	20.5
6	Cleavers	21.6	4.3	20.0	0.8	3.9	34.8	19.8
7	Wild buckwheat	19.6	3.9	20.0	0.2	1.0	4.2	14.7
8	Perennial sow-thistle	13.7	4.6	33.6	0.3	2.4	6.6	14.4
9	Wheat	13.7	2.7	20.0	0.7	4.8	28.8	13.4
10	Slough grass	5.9	1.4	23.3	1.5	25.2	74.2	13.3
11	Dandelion	17.6	3.0	17.2	0.2	1.3	5.0	12.6
12	Hemp-nettle	13.7	2.9	21.4	0.5	3.4	16.6	12.5
13	Canola	11.8	1.5	12.5	0.1	0.6	1.4	7.1
14	Foxtail barley	3.9	1.8	45.0	0.2	5.1	7.2	5.5
15	Corn spurry	3.9	1.0	25.0	0.2	6.3	12.4	4.5
16	Shepherd's-purse	5.9	1.1	18.3	0.1	1.7	4.4	4.5
17	Field mint	2.0	0.7	35.0	0.3	16.2	16.2	3.7
18	Field bindweed	3.9	0.7	17.5	< 0.1	0.7	0.8	2.7
19	Borage	2.0	0.9	45.0	0.1	4.6	4.6	2.7
20	Green foxtail	2.0	0.9	45.0	0.1	3.6	3.6	2.6
21	Quack grass	3.9	0.6	15.0	< 0.1	0.7	1.0	2.5
22	Spiny annual sow-thistle	3.9	0.3	7.5	< 0.1	0.4	0.6	2.0
23	Lamb's-quarters	3.9	0.3	7.5	< 0.1	0.3	0.4	2.0
24	Stork's-bill	3.9	0.3	7.5	< 0.1	0.3	0.4	2.0
25	White cockle	2.0	0.6	30.0	< 0.1	1.6	1.6	1.8
26	Barley	2.0	0.5	25.0	< 0.1	1.8	1.8	1.7
27	Persian darnel	2.0	0.4	20.0	< 0.1	2.0	2.0	1.6
28	Alfalfa	2.0	0.4	20.0	< 0.1	1.2	1.2	1.5
29	Tartary buckwheat	2.0	0.2	10.0	< 0.1	0.8	0.8	1.1
30	Flixweed	2.0	0.2	10.0	< 0.1	0.6	0.6	1.1
31	Wild mustard	2.0	0.2	10.0	< 0.1	0.4	0.4	1.1
32	Barnyard grass	2.0	0.1	5.0	< 0.1	0.6	0.6	0.9
33	Cow cockle	2.0	0.1	5.0	< 0.1	0.2	0.2	0.9

Field Survey Summary Tables – Ecodistrict 728

Table 75. 2010 annual crops in the Andrew Plain Ecodistrict (728) in the Aspen Parkland Ecoregion (17 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Canola	11.8	9.1	77.5	2.5	21.2	30.0	50.9
2	Stork's-bill	23.5	7.9	33.8	1.8	7.8	29.2	45.5
3	Wild buckwheat	32.4	10.1	31.4	1.2	3.6	12.6	45.1
4	Canada thistle	29.4	7.1	24.0	0.6	2.1	5.2	31.7
5	Lamb's-quarters	23.5	2.9	12.5	0.3	1.1	3.4	17.9
6	Perennial sow-thistle	17.6	4.1	23.3	0.2	1.2	1.4	17.0
7	Dandelion	17.6	3.5	20.0	0.2	0.9	1.6	15.4
8	Cleavers	5.9	3.5	60.0	0.4	6.4	6.4	13.1
9	Green foxtail	17.6	1.5	8.3	0.1	0.7	1.6	11.4
10	Quack grass	8.8	1.5	16.7	0.2	2.5	4.6	8.8
11	Narrow-leaved hawk's-beard	11.8	1.2	10.0	< 0.1	0.4	0.6	7.4
12	Oats	5.9	0.6	10.0	0.2	4.0	4.0	6.3
13	Chickweed	5.9	0.9	15.0	0.2	3.2	3.2	6.2
14	Wild oats	5.9	0.6	10.0	0.2	3.0	3.0	5.6
15	Shepherd's-purse	5.9	1.2	20.0	< 0.1	0.8	0.8	5.0
16	Redroot pigweed	2.9	0.9	30.0	0.1	2.4	2.4	3.6
17	Tartary buckwheat	5.9	0.3	5.0	< 0.1	0.2	0.2	3.1
18	Small-seeded false flax	5.9	0.3	5.0	< 0.1	0.2	0.2	3.1
19	Field horsetail	5.9	0.3	5.0	< 0.1	0.2	0.2	3.1

Table 76. 2010 annual crops in the Lloydminster Plain Ecodistrict (729) in the Aspen Parkland Ecoregion (14 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	85.7	32.5	37.9	2.2	2.6	6.2	51.5
2	Perennial sow-thistle	35.7	13.2	37.0	2.3	6.5	24.4	31.1
3	Spiny annual sow-thistle	35.7	14.3	40.0	1.3	3.5	8.6	24.4
4	Chickweed	21.4	6.8	31.7	2.1	9.7	17.6	22.7
5	Canada thistle	57.1	10.7	18.8	0.8	1.3	4.6	21.7
6	Quack grass	42.9	8.2	19.2	0.9	2.0	3.6	18.5
7	Stork's-bill	42.9	7.9	18.3	0.5	1.1	2.4	15.4
8	Pasture sage	21.4	5.7	26.7	0.9	4.4	6.2	13.9
9	Dandelion	42.9	7.1	16.7	0.3	0.7	1.4	13.9
10	Green foxtail	28.6	3.9	13.8	0.4	1.4	3.4	9.9
11	Broad-leaved plantain	28.6	4.3	15.0	0.2	0.8	2.0	8.9
12	Foxtail barley	7.1	3.2	45.0	0.6	8.0	8.0	7.4
13	Pale smartweed	21.4	2.9	13.3	0.2	0.8	1.2	6.5
14	Field horsetail	7.1	1.8	25.0	0.5	7.2	7.2	6.0
15	Cleavers	14.3	1.1	7.5	0.4	2.8	5.2	5.7
16	Stinkweed	21.4	2.1	10.0	0.1	0.4	0.6	5.4
17	Tartary buckwheat	7.1	3.2	45.0	0.2	2.2	2.2	4.5
18	White cockle	14.3	1.8	12.5	0.1	0.5	0.8	4.0
19	Prairie sage	14.3	1.1	7.5	0.1	0.4	0.6	3.4
20	Orchard grass	7.1	1.4	20.0	0.1	0.8	0.8	2.5
21	Hemp-nettle	7.1	1.1	15.0	0.1	0.8	0.8	2.3
22	Round-leaved mallow	7.1	1.1	15.0	0.1	0.8	0.8	2.3
23	Common groundsel	7.1	0.7	10.0	0.1	1.0	1.0	2.1
24	Prostrate knotweed	7.1	0.7	10.0	0.1	0.8	0.8	2.0
25	Pineappleweed	7.1	0.7	10.0	< 0.1	0.4	0.4	1.8
26	Shepherd's-purse	7.1	0.7	10.0	< 0.1	0.4	0.4	1.8
27	Yellow toadflax	7.1	0.4	5.0	0.1	0.8	0.8	1.8
28	Spear-leaved goosefoot	7.1	0.4	5.0	< 0.1	0.4	0.4	1.6
29	Narrow-leaved hawk's-beard	7.1	0.4	5.0	< 0.1	0.2	0.2	1.5
30	Henbit	7.1	0.4	5.0	< 0.1	0.2	0.2	1.5
31	Dog mustard	7.1	0.4	5.0	< 0.1	0.2	0.2	1.5
32	Redroot pigweed	7.1	0.4	5.0	< 0.1	0.2	0.2	1.5
33	Purple vetchling	7.1	0.4	5.0	< 0.1	0.2	0.2	1.5

Field Survey Summary Tables – Ecodistrict 730

Table 77. 2010 annual crops in the Vermilion Upland Ecodistrict (730) in the Aspen Parkland Ecoregion (68 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	63.2	18.4	29.1	2.3	3.7	28.2	39.3
2	Spiny annual sow-thistle	32.4	15.1	46.6	2.9	8.9	37.8	32.5
3	Cleavers	25.0	5.5	22.1	2.5	10.0	147.0	21.1
4	Perennial sow-thistle	19.1	3.8	20.0	2.9	15.3	189.4	20.3
5	Canada thistle	44.1	8.6	19.5	0.7	1.7	6.4	19.8
6	Canola	14.7	5.4	36.5	2.1	14.6	85.4	17.3
7	Green foxtail	16.2	5.2	32.3	1.8	11.3	90.0	16.0
8	Shepherd's-purse	27.9	6.1	21.8	0.8	2.8	16.6	14.5
9	Dandelion	30.9	5.4	17.6	0.4	1.4	7.2	12.9
10	Chickweed	19.1	3.8	19.6	0.8	4.3	17.2	10.8
11	Quack grass	16.2	4.9	30.0	0.6	3.6	15.4	10.1
12	Stork's-bill	14.7	3.8	26.0	0.7	4.9	19.6	9.5
13	Lamb's-quarters	17.6	2.9	16.7	0.3	1.4	5.4	7.3
14	Wild oats	7.4	2.8	38.0	0.5	6.2	14.2	6.0
15	Narrow-leaved hawk's-beard	11.8	2.2	18.8	0.3	2.4	9.4	5.6
16	Field horsetail	10.3	1.8	17.9	0.3	3.1	16.2	5.1
17	Barley	5.9	2.1	36.3	0.3	5.6	11.4	4.5
18	Oats	5.9	2.1	35.0	0.3	5.2	9.8	4.3
19	Redroot pigweed	5.9	1.8	30.0	0.2	4.2	15.0	3.8
20	Hemp-nettle	11.8	1.1	9.4	0.1	0.9	3.8	3.8
21	Pineappleweed	10.3	1.3	12.1	0.1	1.3	2.8	3.8
22	Western marsh cudweed	5.9	1.2	20.0	0.3	4.8	13.6	3.5
23	Pale smartweed	5.9	1.5	26.3	0.1	2.3	5.0	3.1
24	Broad-leaved plantain	10.3	0.8	7.9	< 0.1	0.5	0.8	3.0
25	Stinkweed	8.8	0.8	9.2	0.1	0.6	1.0	2.7
26	Common groundsel	7.4	0.7	9.0	< 0.1	0.4	0.8	2.2
27	Tartary buckwheat	1.5	1.1	75.0	0.1	9.6	9.6	1.9
28	Wheat	2.9	0.9	30.0	0.1	4.0	7.4	1.9
29	Foxtail barley	4.4	0.3	6.7	< 0.1	0.5	1.0	1.2
30	Wood whitlow-grass	2.9	0.5	17.5	< 0.1	1.1	1.4	1.2
31	Wild tomato	2.9	0.4	12.5	< 0.1	1.3	2.4	1.1
32	Common burdock	2.9	0.2	7.5	< 0.1	0.3	0.4	0.8
33	Prostrate pigweed	1.5	0.3	20.0	0.1	3.8	3.8	0.8
34	Yellow toadflax	1.5	0.1	5.0	0.1	4.0	4.0	0.6
35	Biennial wormwood	1.5	0.2	15.0	< 0.1	1.2	1.2	0.6
36	Black medick	1.5	0.2	15.0	< 0.1	0.6	0.6	0.5
37	Common yarrow	1.5	0.1	10.0	< 0.1	0.8	0.8	0.5
38	Smooth brome	1.5	0.1	10.0	< 0.1	0.4	0.4	0.5
39	Henbit	1.5	0.1	10.0	< 0.1	0.4	0.4	0.5
40	Pasture sage	1.5	0.1	10.0	< 0.1	0.4	0.4	0.5
41	Western snowberry	1.5	0.1	10.0	< 0.1	0.4	0.4	0.5
42	Orchard grass	1.5	0.1	10.0	< 0.1	0.4	0.4	0.5
43	Small-seeded false flax	1.5	0.1	5.0	< 0.1	0.8	0.8	0.4
44	Bluebur	1.5	0.1	5.0	< 0.1	0.2	0.2	0.4
45	Rough cinquefoil	1.5	0.1	5.0	< 0.1	0.2	0.2	0.4
46	Flixweed	1.5	0.1	5.0	< 0.1	0.2	0.2	0.4
47	Cream-colored vetchling	1.5	0.1	5.0	< 0.1	0.2	0.2	0.4
48	Field peas	1.5	0.1	5.0	< 0.1	0.2	0.2	0.4
49	Poplar species	1.5	0.1	5.0	< 0.1	0.2	0.2	0.4
50	Cicer milk-vetch	1.5	0.1	5.0	< 0.1	0.2	0.2	0.4
51	Dock species	1.5	0.1	5.0	< 0.1	0.2	0.2	0.4
52	Goldenrod species	1.5	0.1	5.0	< 0.1	0.2	0.2	0.4

Table 78. 2010 annual crops in the Daysland Plain Ecodistrict (731 & 732) in the Aspen Parkland Ecoregion (91 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	56.5	17.3	30.7	2.5	4.4	37.4	31.1
2	Wild oats	21.7	8.8	40.5	5.2	23.9	160.0	27.9
3	Canola	39.1	12.6	32.2	2.0	5.0	37.0	22.8
4	Spiny annual sow-thistle	22.8	8.9	39.0	2.6	11.5	76.2	19.4
5	Chickweed	29.3	8.3	28.1	1.5	5.2	39.0	16.4
6	Shepherd's-purse	27.2	9.1	33.4	1.4	5.2	29.8	16.2
7	Cleavers	29.4	7.2	24.6	1.2	4.2	41.0	14.7
8	Canada thistle	40.2	6.7	16.6	0.5	1.4	6.2	13.8
9	Perennial sow-thistle	27.2	5.4	19.8	1.3	4.6	69.0	13.0
10	Western marsh cudweed	9.8	2.7	27.8	2.4	24.8	76.0	11.9
11	Narrow-leaved hawk's-beard	28.3	6.0	21.3	0.7	2.4	19.2	11.7
12	Lamb's-quarters	33.7	4.7	14.0	0.5	1.5	17.0	11.1
13	Stinkweed	16.3	4.3	26.7	1.0	5.9	25.8	9.3
14	Scentless chamomile	7.6	3.6	47.1	1.0	13.7	69.2	7.5
15	Dandelion	17.4	2.8	15.9	0.4	2.1	24.8	6.3
16	Hemp-nettle	15.2	3.0	20.0	0.4	2.6	13.0	6.2
17	Wheat	14.1	3.0	21.2	0.3	2.2	8.2	5.7
18	Povertyweed	12.0	1.9	15.9	0.6	4.9	20.0	5.5
19	Quack grass	12.0	2.1	17.7	0.4	3.5	25.0	5.1
20	Bluebur	7.6	1.4	18.6	0.5	6.5	18.8	4.1
21	Field horsetail	9.8	1.1	11.7	0.3	2.8	7.8	3.5
22	Redroot pigweed	10.9	1.4	12.5	0.1	1.3	4.6	3.4
23	Henbit	2.2	1.3	57.5	0.6	26.4	47.0	3.2
24	Pale smartweed	8.7	1.1	13.1	0.1	1.2	2.6	2.7
25	Common groundsel	9.8	1.0	10.0	0.1	0.7	1.6	2.7
26	Pineappleweed	7.6	1.1	14.3	0.1	1.7	4.2	2.6
27	Clover species	4.3	1.2	27.5	0.3	6.4	19.8	2.6
28	Tartary buckwheat	6.5	1.3	20.0	0.1	1.6	3.2	2.5
29	Downy brome	4.3	1.1	25.0	0.2	5.4	14.6	2.4
30	Stork's-bill	2.2	1.1	50.0	0.1	5.8	9.2	1.6
31	Dock species	2.2	0.8	37.5	0.2	7.7	14.0	1.5
32	Ball mustard	3.3	0.6	18.3	0.1	3.2	7.4	1.4
33	Wild mustard	2.2	0.7	32.5	0.1	6.0	10.8	1.3
34	Barley	2.2	0.6	27.5	0.1	3.0	5.8	1.0
35	Narrow-leaved milk-vetch	1.1	0.5	50.0	0.1	11.6	11.6	1.0
36	Black medick	1.1	0.2	20.0	0.1	11.8	11.8	0.8
37	Wild chamomile	1.1	0.5	45.0	0.1	6.2	6.2	0.8
38	Canada fleabane	1.1	0.4	35.0	< 0.1	4.0	4.0	0.6
39	Nuttall's alkali grass	1.1	0.1	5.0	0.1	9.2	9.2	0.6
40	Corn spurry	1.1	0.3	25.0	0.1	4.6	4.6	0.6
41	Green foxtail	2.2	0.2	7.5	< 0.1	0.3	0.4	0.5
42	American vetch	2.2	0.1	5.0	< 0.1	0.2	0.2	0.5
43	Cow cockle	1.1	0.2	15.0	< 0.1	1.0	1.0	0.3
44	Purslane speedwell	1.1	0.1	10.0	< 0.1	0.6	0.6	0.3
45	Prostrate knotweed	1.1	0.1	10.0	< 0.1	0.4	0.4	0.3
46	Field mint	1.1	0.1	5.0	< 0.1	1.0	1.0	0.3
47	Round-leaved mallow	1.1	0.1	5.0	< 0.1	0.8	0.8	0.3
48	Foxtail barley	1.1	0.1	5.0	< 0.1	0.4	0.4	0.2
49	Biennial wormwood	1.1	0.1	5.0	< 0.1	0.4	0.4	0.2
50	Field bindweed	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
51	Caraway	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2
52	Yellow sweet-clover	1.1	0.1	5.0	< 0.1	0.2	0.2	0.2

Field Survey Summary Tables – Ecodistrict 737

Table 79. 2010 annual crops in the Red Deer Plain Ecodistrict (737) in the Aspen Parkland Ecoregion (18 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	61.1	19.7	32.3	4.2	6.9	36.2	66.6
2	Cleavers	61.1	17.2	28.2	2.0	3.3	12.6	45.4
3	Hemp-nettle	47.2	11.0	23.2	1.5	3.2	21.0	32.5
4	Dandelion	50.0	10.3	20.6	0.6	1.3	5.6	25.1
5	Wild buckwheat	52.8	7.9	15.0	0.7	1.4	4.8	24.1
6	Stinkweed	27.8	8.3	30.0	1.0	3.6	15.6	22.0
7	Wheat	30.6	4.6	15.0	0.3	0.9	3.2	12.8
8	Canola	27.8	1.9	7.0	0.1	0.4	1.2	8.2
9	Lamb's-quarters	22.2	2.5	11.3	0.1	0.5	1.4	7.7
10	Shepherd's-purse	22.2	1.4	6.3	0.1	0.3	0.4	6.1
11	Alfalfa	11.1	2.5	22.5	0.2	1.5	2.8	6.0
12	Spiny annual sow-thistle	11.1	2.2	20.0	0.1	1.3	2.4	5.5
13	Clover species	11.1	1.9	17.5	0.1	1.3	2.4	5.3
14	Quack grass	5.6	1.9	35.0	0.2	3.4	3.4	4.6
15	Narrow-leaved hawk's-beard	13.9	1.3	9.0	0.1	0.5	1.0	4.5
16	Canada thistle	11.1	1.4	12.5	0.1	0.5	0.8	4.0
17	Flax	5.6	1.1	20.0	0.2	3.6	3.6	3.8
18	Pale smartweed	11.1	1.1	10.0	0.1	0.6	1.0	3.8
19	Barley	8.3	1.3	15.0	0.1	0.9	1.2	3.4
20	Wild oats	11.1	0.6	5.0	< 0.1	0.2	0.2	2.9
21	Common groundsel	5.6	0.3	5.0	0.1	1.0	1.0	1.8
22	Pineappleweed	5.6	0.3	5.0	< 0.1	0.8	0.8	1.7
23	Flixweed	5.6	0.3	5.0	< 0.1	0.2	0.2	1.4
24	Yellow sweet-clover	2.8	0.3	10.0	< 0.1	0.4	0.4	0.9

Table 80. 2010 annual crops in the Sedgewick Plain Ecodistrict (738) in the Aspen Parkland Ecoregion (15 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	86.7	32.3	37.3	4.0	4.6	21.4	64.7
2	Lamb's-quarters	40.0	11.0	27.5	2.0	5.1	18.2	27.9
3	Quack grass	46.7	9.0	19.3	1.0	2.1	4.8	21.9
4	Canola	40.0	10.0	25.0	0.9	2.2	5.0	20.8
5	Narrow-leaved hawk's-beard	53.3	8.3	15.6	0.5	1.0	3.0	20.1
6	Common groundsel	6.7	5.0	75.0	2.3	35.0	35.0	18.1
7	Shepherd's-purse	13.3	5.7	42.5	1.9	14.2	27.6	17.6
8	Canada thistle	26.7	4.3	16.3	0.6	2.2	3.2	12.0
9	Pygmyflower	13.3	6.0	45.0	0.8	6.2	11.6	11.9
10	Thyme-leaved spurge	6.7	5.3	80.0	1.0	15.0	15.0	11.0
11	Wheat	20.0	5.0	25.0	0.4	1.9	4.4	10.0
12	Tartary buckwheat	13.3	5.0	37.5	0.5	3.9	6.0	9.5
13	Spiny annual sow-thistle	20.0	4.7	23.3	0.3	1.5	3.0	9.4
14	Bluebur	20.0	2.3	11.7	0.3	1.3	3.2	7.3
15	Field bindweed	6.7	3.0	45.0	0.3	5.0	5.0	5.5
16	Hemp-nettle	13.3	2.0	15.0	0.2	1.3	1.8	5.2
17	Cleavers	6.7	2.7	40.0	0.3	4.6	4.6	5.1
18	Field horsetail	13.3	0.7	5.0	0.3	2.3	2.4	4.9
19	Canada fleabane	6.7	2.7	40.0	0.2	3.2	3.2	4.6
20	Corn spurry	6.7	1.0	15.0	0.1	2.2	2.2	2.9
21	Dock species	6.7	0.7	10.0	0.1	1.4	1.4	2.4
22	Wild oats	6.7	0.3	5.0	0.1	1.4	1.4	2.1
23	Redroot pigweed	6.7	0.3	5.0	< 0.1	0.2	0.2	1.7
24	Pineappleweed	6.7	0.3	5.0	< 0.1	0.2	0.2	1.7
25	Stork's-bill	6.7	0.3	5.0	< 0.1	0.2	0.2	1.7

Field Survey Summary Tables – Ecodistricts 739 & 743

Table 81. 2010 annual crops in the Ribstone Plain Ecodistrict (739 & 743) in the Aspen Parkland Ecoregion (14 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	34.9	12.7	36.3	3.1	9.0	32.8	57.7
2	Wild buckwheat	63.5	17.2	27.1	1.5	2.3	4.6	52.9
3	Canada thistle	77.8	13.6	17.4	1.2	1.6	6.8	49.6
4	Wheat	15.8	9.1	57.5	0.9	5.5	6.2	24.0
5	Narrow-leaved hawk's-beard	20.7	7.5	36.2	0.5	2.6	4.6	19.9
6	Stork's-bill	15.8	5.5	35.0	0.3	2.2	3.8	14.4
7	Green foxtail	7.9	4.7	60.0	0.4	5.4	5.4	12.2
8	Perennial sow-thistle	30.1	1.5	5.0	0.1	0.4	0.6	11.2
9	Round-leaved mallow	6.4	3.5	55.0	0.4	6.0	6.0	9.8
10	Dandelion	14.3	2.9	20.5	0.1	0.9	1.0	8.6
11	Cleavers	15.8	1.6	10.0	0.1	0.8	1.4	7.5
12	Foxtail barley	12.8	1.6	12.5	0.1	1.1	1.4	6.8
13	Lamb's-quarters	14.3	1.4	10.0	0.1	0.6	0.8	6.5
14	Kochia	12.8	1.6	12.5	0.1	0.7	0.8	6.3
15	Shepherd's-purse	7.9	1.6	20.0	0.1	1.0	1.0	4.8
16	Hemp-nettle	7.9	0.8	10.0	0.1	1.4	1.4	4.2
17	Flixweed	7.9	0.8	10.0	< 0.1	0.6	0.6	3.6

Table 82. 2010 annual crops in the Bashaw Upland Ecodistrict (740) in the Aspen Parkland Ecoregion (30 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	23.3	17.3	74.3	20.1	86.3	184.0	80.0
2	Chickweed	48.3	22.3	46.0	8.8	18.2	72.0	58.7
3	Canola	40.0	12.7	31.7	1.3	3.4	14.8	26.1
4	Wild buckwheat	36.7	10.0	27.3	0.7	1.9	4.6	20.8
5	Lamb's-quarters	35.0	4.7	13.3	0.3	0.7	2.8	13.9
6	Dandelion	31.7	3.8	11.8	0.3	0.9	5.0	12.3
7	Canada thistle	30.0	3.0	10.0	0.2	0.5	1.0	10.8
8	Wheat	10.0	5.0	50.0	0.5	5.4	9.8	8.9
9	Perennial sow-thistle	18.3	3.6	19.5	0.3	1.5	3.2	8.8
10	Pale smartweed	13.3	3.2	23.8	0.8	5.9	21.0	8.6
11	Spiny annual sow-thistle	13.3	1.8	13.8	0.1	1.1	2.8	5.5
12	Hemp-nettle	10.0	2.2	21.7	0.3	3.1	4.6	5.5
13	Cleavers	13.3	1.7	12.5	0.1	1.0	2.6	5.3
14	Shepherd's-purse	8.3	1.5	18.0	0.3	3.2	6.4	4.3
15	Alfalfa	3.3	2.2	65.0	0.2	7.2	7.2	3.6
16	Stinkweed	6.7	1.3	20.0	0.1	2.1	3.8	3.3
17	Field horsetail	10.0	0.5	5.0	0.1	0.9	2.2	3.2
18	Quack grass	6.7	0.5	7.5	0.1	1.0	1.6	2.3
19	Barley	6.7	0.5	7.5	< 0.1	0.5	0.8	2.2
20	Yellow sweet-clover	5.0	0.8	15.0	0.1	1.1	1.6	2.1
21	Western marsh cudweed	3.3	1.0	30.0	0.1	1.8	1.8	2.0
22	Narrow-leaved hawk's-beard	3.3	0.8	25.0	0.1	2.8	2.8	1.9
23	Tartary buckwheat	3.3	0.8	25.0	0.1	1.8	1.8	1.8
24	Henbit	5.0	0.4	8.3	< 0.1	0.7	1.6	1.7
25	Common groundsel	3.3	0.3	10.0	< 0.1	1.2	1.2	1.3
26	White cockle	3.3	0.2	5.0	< 0.1	0.6	0.6	1.0
27	Water smartweed	3.3	0.2	5.0	< 0.1	0.4	0.4	1.0
28	Poplar species	3.3	0.2	5.0	< 0.1	0.4	0.4	1.0
29	Redroot pigweed	3.3	0.2	5.0	< 0.1	0.2	0.2	1.0
30	Stork's-bill	3.3	0.2	5.0	< 0.1	0.2	0.2	1.0

Field Survey Summary Tables – Ecodistrict 744

Table 83. 2010 annual crops in the Pine Lake Upland Ecodistrict (744) in the Aspen Parkland Ecoregion (32 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	9.4	5.9	63.3	7.5	79.9	170.0	52.7
2	Chickweed	37.5	16.1	42.9	3.2	8.4	26.2	45.2
3	Wild buckwheat	56.3	14.2	25.3	1.2	2.2	9.0	36.2
4	Dandelion	40.6	11.1	27.3	0.9	2.2	7.4	27.2
5	Hemp-nettle	31.3	7.2	23.0	0.6	2.0	6.0	18.9
6	Cleavers	34.4	5.3	15.5	0.5	1.4	6.4	16.8
7	Canada thistle	34.4	4.5	13.2	0.5	1.5	10.4	16.2
8	Wheat	15.6	5.5	35.0	0.6	4.1	8.4	13.5
9	Perennial sow-thistle	21.9	2.3	10.7	0.2	0.8	1.6	8.8
10	Canola	18.8	2.5	13.3	0.2	1.0	2.2	8.3
11	Barley	15.6	2.3	15.0	0.2	1.1	1.8	7.3
12	Spiny annual sow-thistle	12.5	2.0	16.3	0.2	1.5	3.8	6.3
13	Pale smartweed	9.4	1.9	20.0	0.2	2.2	4.0	5.5
14	Stinkweed	15.6	0.9	6.0	0.1	0.4	0.6	5.0
15	Field horsetail	12.5	1.1	8.8	0.2	1.2	2.2	5.0
16	Lamb's-quarters	15.6	0.9	6.0	< 0.1	0.3	0.4	5.0
17	Yellow toadflax	6.3	0.6	10.0	0.3	5.2	10.0	4.1
18	Stork's-bill	9.4	0.8	8.3	0.1	1.1	2.8	3.7
19	Shepherd's-purse	6.3	1.4	22.5	0.1	1.0	1.8	3.4
20	Round-leaved mallow	3.1	1.1	35.0	0.2	7.8	7.8	3.4
21	Tartary buckwheat	3.1	1.3	40.0	0.1	2.4	2.4	2.6
22	Henbit	6.3	0.3	5.0	< 0.1	0.2	0.2	1.9
23	Rose species	3.1	0.3	10.0	< 0.1	0.6	0.6	1.2
24	Pineappleweed	3.1	0.2	5.0	< 0.1	0.6	0.6	1.0
25	Corn spurry	3.1	0.2	5.0	< 0.1	0.4	0.4	1.0

Table 84. 2010 annual crops in the Olds Plain Ecodistrict (746 & 750) in the Aspen Parkland Ecoregion (25 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Hemp-nettle	54.4	15.1	27.7	9.1	16.8	184.8	71.2
2	Wild oats	38.1	15.3	40.1	2.5	6.7	23.2	36.5
3	Wild buckwheat	57.7	12.3	21.4	1.2	2.0	15.4	31.9
4	Chickweed	26.1	10.3	39.4	1.9	7.2	15.8	25.4
5	Canada thistle	51.1	6.9	13.5	0.5	1.0	2.8	22.0
6	Dandelion	35.8	7.5	20.9	0.7	2.0	10.2	19.6
7	Canola	19.5	5.0	25.8	0.6	2.9	8.2	12.5
8	Stinkweed	9.8	3.6	36.7	1.3	13.1	38.4	12.0
9	Cleavers	16.3	3.7	23.0	0.4	2.4	4.8	9.6
10	Quack grass	13.0	2.9	22.5	0.5	4.2	9.0	8.7
11	Spiny annual sow-thistle	9.8	3.3	33.3	0.5	4.9	14.0	7.9
12	Pale smartweed	9.8	3.1	31.7	0.3	2.9	7.0	6.8
13	Lamb's-quarters	3.3	2.4	75.0	0.6	18.2	18.2	6.0
14	Wheat	3.3	2.1	65.0	0.7	20.0	20.0	6.0
15	Henbit	6.5	1.6	25.0	0.2	3.0	5.8	4.1
16	Barley	9.8	1.0	10.0	0.1	0.7	1.8	3.7
17	Night-flowering catchfly	6.5	0.5	7.5	< 0.1	0.6	1.0	2.3
18	Broad-leaved plantain	6.5	0.3	5.0	< 0.1	0.4	0.6	2.0
19	Alfalfa	3.3	0.8	25.0	0.1	2.6	2.6	2.0
20	Wild mustard	3.3	0.7	20.0	0.1	1.6	1.6	1.7
21	Kentucky blue grass	3.3	0.2	5.0	0.1	2.6	2.6	1.4
22	Yellow sweet-clover	3.3	0.3	10.0	< 0.1	0.8	0.8	1.2
23	Narrow-leaved hawk's-beard	3.3	0.3	10.0	< 0.1	0.6	0.6	1.2
24	Shepherd's-purse	3.3	0.3	10.0	< 0.1	0.6	0.6	1.2
25	Yellow toadflax	3.3	0.3	10.0	< 0.1	0.6	0.6	1.2
26	Tartary buckwheat	3.3	0.2	5.0	< 0.1	0.2	0.2	1.0
27	Common groundsel	3.3	0.2	5.0	< 0.1	0.2	0.2	1.0

Field Survey Summary Tables – Ecodistricts 769 & 777

Table 85. 2010 annual crops in the Castor Plain Ecodistrict (769 & 777) in the Moist Mixed Grassland Ecoregion (22 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Western marsh cudweed	56.8	26.9	47.3	65.6	115.6	709.8	81.5
2	Wild buckwheat	88.6	53.2	60.0	12.2	13.7	66.2	47.3
3	Narrow-leaved hawk's-beard	58.4	15.2	26.0	3.0	5.2	24.4	16.8
4	Lamb's-quarters	49.2	12.3	25.0	2.4	4.8	22.8	13.8
5	Canada thistle	65.9	6.7	10.2	1.1	1.6	5.2	11.7
6	Cleavers	24.3	7.9	32.3	5.1	20.9	62.8	11.4
7	Shepherd's-purse	45.4	8.5	18.8	1.5	3.2	22.0	10.7
8	Pineappleweed	30.3	7.8	25.6	2.7	8.9	56.6	9.7
9	Perennial sow-thistle	34.1	6.6	19.4	1.3	3.9	31.2	8.3
10	Spiny annual sow-thistle	24.3	4.2	17.5	2.7	11.1	70.0	7.4
11	Stinkweed	30.3	3.6	11.9	0.8	2.8	19.6	6.0
12	Canola	26.5	4.9	18.6	0.4	1.5	4.6	5.8
13	Rough cinquefoil	26.5	4.9	18.6	0.4	1.3	2.8	5.7
14	Biennial wormwood	30.3	3.8	12.5	0.3	1.0	3.0	5.6
15	Wild oats	18.9	3.8	20.0	1.5	7.8	19.4	5.4
16	Field horsetail	28.1	2.5	9.0	0.5	1.9	11.0	4.9
17	Wheat	15.1	4.4	28.8	0.6	4.0	6.8	4.4
18	Stork's-bill	24.3	2.2	9.2	0.1	0.4	0.4	3.9
19	Purslane speedwell	11.4	4.4	38.3	0.3	2.9	5.4	3.7
20	Dandelion	18.9	1.7	9.0	0.3	1.5	6.4	3.2
21	Wild mustard	11.4	2.8	25.0	0.2	2.0	3.6	2.9
22	Pale smartweed	11.4	2.5	21.7	0.1	1.1	2.4	2.6
23	Wild chamomile	7.6	2.8	37.5	0.3	3.7	7.2	2.5
24	Common groundsel	15.1	1.1	7.5	0.1	0.5	1.0	2.3
25	Kentucky blue grass	3.8	0.9	25.0	1.2	32.8	32.8	2.1
26	Prostrate knotweed	11.4	1.3	11.7	0.1	0.7	1.2	2.0
27	Marsh yellow cress	7.6	1.5	20.0	0.1	1.7	2.4	1.7
28	Foxtail barley	7.6	0.9	12.5	0.2	2.1	4.0	1.5
29	Scentless chamomile	7.6	0.8	10.0	0.1	0.9	1.6	1.3
30	Corn spurry	7.6	0.6	7.5	< 0.1	0.6	1.0	1.2
31	Common pepper-grass	3.8	1.1	30.0	0.2	4.2	4.2	1.1
32	Redroot pigweed	7.6	0.4	5.0	0.1	0.7	1.2	1.1
33	American vetch	7.6	0.4	5.0	0.1	0.7	1.0	1.1
34	Chickweed	7.6	0.4	5.0	< 0.1	0.4	0.6	1.1
35	Broad-leaved plantain	7.6	0.4	5.0	< 0.1	0.2	0.2	1.1
36	Quack grass	3.8	0.6	15.0	0.1	3.6	3.6	0.8
37	Linear-leaved plantain	3.8	0.6	15.0	< 0.1	1.2	1.2	0.7
38	Yellow sweet-clover	3.8	0.6	15.0	< 0.1	0.6	0.6	0.7
39	Pygmyflower	3.8	0.4	10.0	< 0.1	0.4	0.4	0.6
40	Clover species	3.8	0.4	10.0	< 0.1	0.4	0.4	0.6
41	Hemp-nettle	3.8	0.2	5.0	< 0.1	0.6	0.6	0.5
42	Bluebur	3.8	0.2	5.0	< 0.1	0.4	0.4	0.5
43	Povertyweed	3.8	0.2	5.0	< 0.1	0.4	0.4	0.5
44	Night-flowering catchfly	3.8	0.2	5.0	< 0.1	0.2	0.2	0.5
45	Green foxtail	3.8	0.2	5.0	< 0.1	0.2	0.2	0.5
46	Barnyard grass	3.8	0.2	5.0	< 0.1	0.2	0.2	0.5
47	Field peas	3.8	0.2	5.0	< 0.1	0.2	0.2	0.5

Table 86. 2010 annual crops in the Neutral Hills Ecodistrict (771) in the Moist Mixed Grassland Ecoregion (16 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	100.0	51.6	51.6	8.1	8.1	34.4	66.9
2	Green foxtail	75.0	24.7	32.9	13.7	18.2	186.0	65.0
3	Narrow-leaved hawk's-beard	56.3	20.3	36.1	3.3	5.9	31.2	29.2
4	Dandelion	56.3	13.1	23.3	1.1	1.9	3.8	18.5
5	Lamb's-quarters	43.8	13.4	30.7	1.4	3.1	8.4	17.8
6	Redroot pigweed	43.8	9.7	22.1	1.5	3.3	9.6	16.0
7	Flixweed	43.8	8.1	18.6	0.5	1.2	2.8	12.4
8	Shepherd's-purse	37.5	7.5	20.0	0.7	1.9	6.6	11.7
9	Wild oats	18.8	4.7	25.0	0.9	4.7	7.0	7.9
10	Canada thistle	31.3	2.8	9.0	0.2	0.7	1.0	6.8
11	Stinkweed	25.0	4.1	16.3	0.3	1.2	2.8	6.8
12	Kochia	18.8	3.1	16.7	0.7	3.9	10.2	6.6
13	Russian thistle	25.0	2.8	11.3	0.2	0.7	1.2	5.7
14	Field peas	18.8	3.1	16.7	0.2	0.9	1.4	4.9
15	Prostrate knotweed	12.5	2.5	20.0	0.3	2.3	3.6	4.0
16	Common pepper-grass	6.3	2.8	45.0	0.2	3.6	3.6	3.1
17	Stork's-bill	12.5	1.6	12.5	0.1	1.0	1.6	3.0
18	Canola	12.5	1.6	12.5	0.1	0.6	0.6	2.9
19	Wild tomato	12.5	1.3	10.0	0.1	0.6	0.8	2.7
20	Alfalfa	12.5	0.9	7.5	< 0.1	0.3	0.4	2.4
21	Round-leaved mallow	6.3	0.9	15.0	0.1	1.6	1.6	1.7
22	Clover species	6.3	0.9	15.0	< 0.1	0.6	0.6	1.5
23	Foxtail barley	6.3	0.3	5.0	< 0.1	0.2	0.2	1.1
24	Barley	6.3	0.3	5.0	< 0.1	0.2	0.2	1.1

Field Survey Summary Tables – Ecodistrict 779

Table 87. 2010 annual crops in the Endiang Upland Ecodistrict (779) in the Moist Mixed Grassland Ecoregion (10 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	50.0	14.0	28.0	7.9	15.8	72.8	105.4
2	Dandelion	60.0	10.5	17.5	0.5	0.9	1.4	46.1
3	Western marsh cudweed	20.0	1.5	7.5	3.1	15.6	20.0	33.0
4	Canada thistle	40.0	5.0	12.5	0.8	2.0	2.8	29.6
5	Spiny annual sow-thistle	10.0	5.5	55.0	0.4	4.2	4.2	18.3
6	Shepherd's-purse	30.0	1.5	5.0	0.1	0.2	0.2	13.4
7	Wild mustard	20.0	2.5	12.5	0.2	1.0	1.6	13.4
8	Stinkweed	20.0	1.5	7.5	0.1	0.4	0.6	10.3
9	Narrow-leaved hawk's-beard	10.0	1.0	10.0	0.1	1.0	1.0	6.1
10	Field horsetail	10.0	1.0	10.0	0.1	1.0	1.0	6.1
11	Lamb's-quarters	10.0	0.5	5.0	0.1	0.8	0.8	4.9
12	American dragonhead	10.0	0.5	5.0	< 0.1	0.2	0.2	4.5
13	Quack grass	10.0	0.5	5.0	< 0.1	0.2	0.2	4.5
14	Pineappleweed	10.0	0.5	5.0	< 0.1	0.2	0.2	4.5

Table 88. 2010 annual crops in the Drumheller Plain Ecodistrict (781) in the Moist Mixed Grassland Ecoregion (33 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	66.7	26.2	39.3	2.5	3.8	20.0	62.8
2	Canola	60.6	15.6	25.8	1.4	2.2	9.4	41.0
3	Spiny annual sow-thistle	30.3	12.6	41.5	1.6	5.2	23.4	32.7
4	Wild oats	18.2	5.9	32.5	2.2	11.9	58.4	28.3
5	Canada thistle	48.5	6.8	14.1	0.8	1.6	4.6	24.6
6	Dandelion	39.4	8.0	20.4	0.6	1.6	10.0	22.6
7	Narrow-leaved hawk's-beard	9.1	3.9	43.3	0.8	8.3	21.2	12.3
8	Wheat	18.2	4.4	24.2	0.3	1.8	3.6	11.3
9	Cleavers	12.1	4.4	36.3	0.5	4.0	10.4	11.2
10	Stinkweed	24.2	3.2	13.1	0.2	1.0	2.6	10.9
11	Hemp-nettle	15.2	3.3	22.0	0.3	1.9	4.8	9.2
12	Perennial sow-thistle	9.1	1.7	18.3	0.2	1.7	2.6	5.1
13	Thyme-leaved spurge	6.1	1.1	17.5	0.1	0.9	1.6	2.9
14	Lamb's-quarters	6.1	0.6	10.0	0.1	1.3	2.0	2.7
15	Shepherd's-purse	6.1	0.6	10.0	0.1	1.2	1.6	2.6
16	Kochia	6.1	0.5	7.5	< 0.1	0.6	0.8	2.2
17	Barley	3.0	0.6	20.0	0.1	2.2	2.2	1.9
18	Dock species	3.0	0.6	20.0	0.1	2.2	2.2	1.9
19	Redroot pigweed	6.1	0.3	5.0	< 0.1	0.2	0.2	1.8
20	Flixweed	3.0	0.5	15.0	< 0.1	0.8	0.8	1.4
21	Stork's-bill	3.0	0.2	5.0	< 0.1	1.2	1.2	1.2
22	Foxtail barley	3.0	0.3	10.0	< 0.1	0.6	0.6	1.2
23	Smooth brome	3.0	0.2	5.0	< 0.1	1.0	1.0	1.1
24	Pale smartweed	3.0	0.3	10.0	< 0.1	0.4	0.4	1.1
25	Chickweed	3.0	0.2	5.0	< 0.1	0.8	0.8	1.1
26	Broad-leaved plantain	3.0	0.2	5.0	< 0.1	0.6	0.6	1.0
27	Prostrate knotweed	3.0	0.2	5.0	< 0.1	0.4	0.4	1.0
28	Field peas	3.0	0.2	5.0	< 0.1	0.4	0.4	1.0
29	Barnyard grass	3.0	0.2	5.0	< 0.1	0.2	0.2	0.9
30	Common groundsel	3.0	0.2	5.0	< 0.1	0.2	0.2	0.9

Field Survey Summary Tables – Ecodistrict 786

Table 89. 2010 annual crops in the Wintering Hills Ecodistrict (786) in the Moist Mixed Grassland Ecoregion (12 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Canola	50.0	16.7	33.3	7.2	14.5	43.6	64.0
2	Wild buckwheat	58.3	25.4	43.6	2.1	3.6	12.4	46.8
3	Wheat	41.7	18.3	44.0	3.1	7.3	22.6	41.7
4	Shepherd's-purse	25.0	12.1	48.3	3.4	13.4	32.2	34.0
5	Prostrate knotweed	33.3	6.3	18.8	0.5	1.4	3.2	15.3
6	Cleavers	16.7	5.0	30.0	1.3	7.6	13.0	14.8
7	Spiny annual sow-thistle	33.3	5.4	16.3	0.5	1.4	3.8	14.6
8	Canada thistle	33.3	4.6	13.8	0.3	1.0	2.6	13.1
9	Narrow-leaved hawk's-beard	16.7	4.2	25.0	0.3	1.9	3.2	9.1
10	Foxtail barley	16.7	1.7	10.0	0.1	0.4	0.4	5.5
11	Lamb's-quarters	16.7	1.3	7.5	0.1	0.4	0.4	5.1
12	Green foxtail	16.7	1.3	7.5	0.1	0.3	0.4	5.0
13	Stinkweed	16.7	1.3	7.5	0.1	0.3	0.4	5.0
14	Goat's-beard	8.3	2.5	30.0	0.1	1.4	1.4	4.7
15	Dandelion	16.7	0.8	5.0	0.1	0.3	0.4	4.7
16	Flixweed	16.7	0.8	5.0	< 0.1	0.2	0.2	4.6
17	Hemp-nettle	8.3	0.8	10.0	< 0.1	0.4	0.4	2.8
18	Bluebur	8.3	0.4	5.0	< 0.1	0.2	0.2	2.3
19	Wild oats	8.3	0.4	5.0	< 0.1	0.2	0.2	2.3
20	Pale smartweed	8.3	0.4	5.0	< 0.1	0.2	0.2	2.3
21	Thyme-leaved spurge	8.3	0.4	5.0	< 0.1	0.2	0.2	2.3

Table 90. 2010 annual crops in the Majorville Upland Ecodistrict (787) in the Moist Mixed Grassland Ecoregion (18 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	22.2	8.3	37.5	9.9	44.4	284.6	73.0
2	Kochia	47.2	8.2	17.4	0.7	1.5	4.8	25.3
3	Canada thistle	38.9	5.0	12.9	0.7	1.9	8.4	19.2
4	Barnyard grass	11.1	5.8	52.5	1.4	12.9	15.8	18.8
5	Wild buckwheat	36.1	4.9	13.5	0.3	0.8	3.2	15.9
6	Green foxtail	13.9	1.9	14.0	1.6	11.6	28.2	14.9
7	Dandelion	30.6	3.5	11.4	0.1	0.5	0.8	12.0
8	Stinkweed	27.8	3.6	13.0	0.2	0.6	1.2	11.7
9	Lamb's-quarters	27.8	2.2	8.0	0.2	0.6	1.2	9.8
10	Wheat	11.1	3.9	35.0	0.3	2.4	3.4	9.3
11	Field peas	16.7	3.3	20.0	0.2	1.0	1.6	9.1
12	Oats	11.1	1.9	17.5	0.5	4.9	8.6	8.2
13	Redroot pigweed	16.7	1.9	11.7	0.1	0.9	2.0	7.0
14	Prostrate pigweed	16.7	1.7	10.0	0.1	0.6	1.0	6.3
15	Foxtail barley	16.7	1.1	6.7	0.2	0.9	2.0	5.9
16	Canola	11.1	1.9	17.5	0.1	1.0	1.6	5.7
17	Flixweed	16.7	0.8	5.0	< 0.1	0.2	0.2	4.8
18	Cow cockle	8.3	1.7	20.0	0.1	1.5	3.2	4.8
19	Perennial sow-thistle	5.6	1.4	25.0	0.2	3.6	3.6	4.3
20	Russian thistle	13.9	0.8	6.0	< 0.1	0.3	0.6	4.2
21	Spiny annual sow-thistle	5.6	1.4	25.0	0.1	2.2	2.2	3.8
22	Pale smartweed	11.1	0.6	5.0	0.1	0.5	0.8	3.4
23	Bluebur	11.1	0.6	5.0	< 0.1	0.3	0.4	3.3
24	Round-leaved mallow	5.6	0.8	15.0	< 0.1	0.6	0.6	2.5
25	Slender wheat grass	5.6	0.6	10.0	< 0.1	0.4	0.4	2.1
26	American dragonhead	5.6	0.3	5.0	0.1	1.4	1.4	2.0
27	Rough cinquefoil	5.6	0.3	5.0	< 0.1	0.6	0.6	1.7
28	Chickweed	5.6	0.3	5.0	< 0.1	0.2	0.2	1.6
29	Goat's-beard	5.6	0.3	5.0	< 0.1	0.2	0.2	1.6
30	Narrow-leaved hawk's-beard	5.6	0.3	5.0	< 0.1	0.2	0.2	1.6
31	Shepherd's-purse	5.6	0.3	5.0	< 0.1	0.2	0.2	1.6
32	Sheep sorrel	5.6	0.3	5.0	< 0.1	0.2	0.2	1.6
33	Barley	5.6	0.3	5.0	< 0.1	0.2	0.2	1.6
34	Grass	5.6	0.3	5.0	< 0.1	0.2	0.2	1.6

Field Survey Summary Tables – Ecodistricts 788 & 790

Table 91. 2010 annual crops in the Standard Plain Ecodistrict (788 & 790) in the Moist Mixed Grassland Ecoregion (12 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	25.2	5.9	23.6	2.0	8.0	22.2	60.2
2	Kochia	25.5	8.9	35.0	0.7	2.9	7.8	45.9
3	Wild buckwheat	41.6	5.4	13.0	0.2	0.6	1.2	35.9
4	Cleavers	8.2	6.2	75.0	1.0	11.6	11.6	35.0
5	Wheat	16.7	3.8	22.5	0.5	3.2	5.0	25.6
6	Quack grass	8.5	1.3	15.0	0.8	9.2	9.2	20.3
7	Perennial sow-thistle	8.5	1.7	20.0	0.1	1.2	1.2	9.7
8	Canola	8.2	1.2	15.0	0.1	0.8	0.8	7.8
9	Dandelion	8.2	1.2	15.0	< 0.1	0.6	0.6	7.5
10	Prostrate knotweed	8.2	0.8	10.0	0.1	1.0	1.0	7.0
11	Redroot pigweed	8.5	0.9	10.0	0.1	0.8	0.8	7.0
12	Shepherd's-purse	8.5	0.9	10.0	< 0.1	0.4	0.4	6.4
13	Thyme-leaved spurge	8.2	0.8	10.0	< 0.1	0.4	0.4	6.2
14	Canada thistle	8.5	0.4	5.0	< 0.1	0.4	0.4	5.4
15	Green foxtail	8.5	0.4	5.0	< 0.1	0.2	0.2	5.1
16	Round-leaved mallow	8.5	0.4	5.0	< 0.1	0.2	0.2	5.1
17	Stork's-bill	8.5	0.4	5.0	< 0.1	0.2	0.2	5.1
18	Stinkweed	8.2	0.4	5.0	< 0.1	0.2	0.2	4.9

Table 92. 2010 annual crops in the Vulcan Plain Ecodistrict (791) in the Moist Mixed Grassland Ecoregion (36 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	58.3	12.5	21.4	1.1	1.8	15.0	58.9
2	Kochia	25.0	5.7	22.8	1.9	7.5	62.2	50.0
3	Wild oats	47.2	9.2	19.4	1.0	2.1	12.8	47.6
4	Canada thistle	25.0	3.2	12.8	0.2	0.7	2.0	16.4
5	Dandelion	11.1	3.5	31.3	0.4	3.4	9.4	16.1
6	Canola	16.7	2.6	15.8	0.3	1.7	7.4	14.7
7	Foxtail barley	16.7	2.4	14.2	0.2	1.5	4.8	13.5
8	Barley	11.1	2.6	23.8	0.2	1.8	3.6	11.6
9	Field peas	8.3	2.2	26.7	0.1	1.4	2.4	8.6
10	Wheat	13.9	1.1	8.0	0.1	0.6	1.6	7.7
11	Perennial sow-thistle	13.9	1.3	9.0	0.1	0.4	1.0	7.5
12	Stinkweed	13.9	1.3	9.0	0.1	0.4	1.2	7.5
13	Redroot pigweed	11.1	1.4	12.5	0.1	0.8	2.2	7.4
14	Spiny annual sow-thistle	11.1	0.8	7.5	< 0.1	0.3	0.6	5.4
15	Flixweed	8.3	0.7	8.3	< 0.1	0.3	0.4	4.3
16	Cow cockle	5.6	1.0	17.5	< 0.1	0.8	1.4	4.2
17	Lamb's-quarters	8.3	0.4	5.0	< 0.1	0.2	0.2	3.6
18	Downy brome	2.8	0.4	15.0	0.1	2.2	2.2	2.6
19	Green foxtail	2.8	0.7	25.0	< 0.1	1.0	1.0	2.6
20	Goat's-beard	5.6	0.3	5.0	< 0.1	0.2	0.2	2.4
21	Pale smartweed	5.6	0.3	5.0	< 0.1	0.2	0.2	2.4
22	Prostrate knotweed	2.8	0.1	5.0	< 0.1	0.6	0.6	1.4
23	White mustard	2.8	0.1	5.0	< 0.1	0.4	0.4	1.3
24	Round-leaved mallow	2.8	0.1	5.0	< 0.1	0.2	0.2	1.2
25	Wild mustard	2.8	0.1	5.0	< 0.1	0.2	0.2	1.2

Field Survey Summary Tables – Ecodistrict 793 & 797

Table 93. 2010 annual crops in the Lethbridge Plain Ecodistrict (793 & 797) in the Moist Mixed Grassland Ecoregion (59 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Kochia	35.4	7.6	21.4	1.4	4.0	25.6	41.9
2	Wild oats	26.4	5.9	22.4	2.2	8.3	162.4	41.9
3	Wild buckwheat	34.0	8.5	25.1	0.8	2.2	10.8	37.5
4	Downy brome	5.1	1.5	30.0	3.2	62.8	187.6	32.9
5	Canada thistle	27.3	4.3	15.7	0.5	1.9	11.8	23.9
6	Spiny annual sow-thistle	17.7	2.1	12.1	0.1	0.6	2.2	12.2
7	Green foxtail	2.5	1.8	70.0	0.7	27.1	40.4	10.6
8	Dandelion	7.6	2.2	28.9	0.2	2.9	9.8	9.4
9	Stinkweed	7.7	2.0	25.5	0.2	3.1	9.4	9.2
10	Wheat	3.4	1.5	45.0	0.4	12.1	24.0	8.0
11	Henbit	2.5	0.2	8.3	0.7	29.0	43.4	7.8
12	Field peas	6.9	1.9	27.0	0.1	2.1	6.2	7.8
13	Redroot pigweed	10.9	0.9	8.1	0.2	1.4	4.6	7.4
14	Canola	6.7	1.3	20.0	0.2	2.5	7.0	6.8
15	Flixweed	6.9	0.6	8.7	< 0.1	0.4	1.0	4.2
16	Prostrate pigweed	3.4	0.8	22.5	0.1	1.7	3.2	3.4
17	Round-leaved mallow	5.1	0.3	5.0	< 0.1	0.8	2.0	2.8
18	Foxtail barley	5.1	0.3	5.0	< 0.1	0.3	0.4	2.6
19	Volunteer grain	1.7	0.6	35.0	< 0.1	2.6	2.6	2.3
20	Oats	1.7	0.6	35.0	< 0.1	2.0	2.0	2.2
21	Thyme-leaved spurge	1.7	0.5	30.0	0.1	3.0	3.0	2.1
22	Alfalfa	3.5	0.3	7.6	< 0.1	0.5	0.8	2.1
23	Perennial sow-thistle	2.5	0.4	16.7	< 0.1	1.1	1.4	2.1
24	Rose species	3.4	0.3	7.5	< 0.1	0.6	0.8	2.0
25	Russian thistle	2.7	0.3	12.8	< 0.1	0.9	2.4	2.0
26	Lamb's-quarters	3.4	0.3	7.5	< 0.1	0.3	0.4	1.9
27	Prickly lettuce	3.4	0.2	6.3	< 0.1	0.6	0.8	1.9
28	Black medick	1.7	0.4	25.0	< 0.1	2.2	2.2	1.8
29	Barley	2.5	0.1	5.0	< 0.1	0.3	0.4	1.3
30	Field bindweed	1.7	0.3	15.0	< 0.1	0.6	0.6	1.3
31	Quack grass	1.7	0.2	10.0	< 0.1	0.4	0.4	1.1
32	Dogbane species	1.7	0.1	5.0	< 0.1	0.6	0.6	0.9
33	Cow cockle	1.7	0.1	5.0	< 0.1	0.2	0.2	0.9
34	Ball mustard	1.7	0.1	5.0	< 0.1	0.2	0.2	0.9
35	Shepherd's-purse	1.7	0.1	5.0	< 0.1	0.2	0.2	0.9
36	Clover species	1.7	0.1	5.0	< 0.1	0.2	0.2	0.9
37	Goat's-beard	0.8	0.1	10.0	< 0.1	0.6	0.6	0.5
38	Pale smartweed	0.8	0.1	10.0	< 0.1	0.4	0.4	0.5

Table 94. 2010 annual crops in the Delacour Plain Ecodistrict (798) in the Fescue Grassland Ecoregion (27 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	66.7	21.1	31.7	1.8	2.7	10.6	55.2
2	Wild oats	18.5	8.7	47.0	2.4	13.0	26.2	33.3
3	Canola	22.2	8.1	36.7	0.8	3.8	10.2	21.5
4	Green foxtail	11.1	5.2	46.7	1.6	14.1	27.6	21.0
5	Canada thistle	37.0	5.0	13.5	0.5	1.3	2.6	19.3
6	Wheat	18.5	7.2	39.0	0.8	4.4	12.6	19.3
7	Shepherd's-purse	11.1	4.6	41.7	1.2	10.9	31.2	17.6
8	Foxtail barley	14.8	3.9	26.3	0.4	2.6	7.4	11.3
9	Lamb's-quarters	18.5	3.5	19.0	0.3	1.6	4.2	11.2
10	Pineappleweed	3.7	2.8	75.0	0.8	20.8	20.8	10.1
11	Dandelion	18.5	2.8	15.0	0.2	1.2	3.2	9.8
12	Cleavers	7.4	3.5	47.5	0.4	5.6	10.6	9.1
13	Perennial sow-thistle	7.4	3.0	40.0	0.2	2.6	4.4	6.7
14	Yellow toadflax	7.4	1.7	22.5	0.3	3.9	5.6	6.1
15	Hemp-nettle	11.1	1.3	11.7	0.1	1.0	1.8	5.3
16	Kochia	14.8	0.7	5.0	< 0.1	0.2	0.2	5.1
17	Spiny annual sow-thistle	7.4	1.9	25.0	0.1	1.9	3.2	5.1
18	Chickweed	3.7	2.0	55.0	0.2	4.4	4.4	4.5
19	Redroot pigweed	7.4	1.5	20.0	0.1	1.3	1.6	4.4
20	Flixweed	11.1	0.7	6.7	< 0.1	0.3	0.6	4.2
21	Round-leaved mallow	7.4	1.1	15.0	0.1	1.0	1.8	3.8
22	Stinkweed	7.4	0.4	5.0	0.2	2.1	4.0	3.7
23	Narrow-leaved hawk's-beard	7.4	0.6	7.5	< 0.1	0.5	0.6	2.9
24	Stork's-bill	3.7	0.7	20.0	0.1	2.2	2.2	2.5
25	Prostrate knotweed	3.7	0.9	25.0	< 0.1	1.0	1.0	2.3
26	Wild mustard	3.7	0.6	15.0	< 0.1	1.2	1.2	2.0
27	Barley	3.7	0.2	5.0	< 0.1	0.4	0.4	1.3
28	Clover species	3.7	0.2	5.0	< 0.1	0.2	0.2	1.3

Field Survey Summary Tables – Ecodistricts 800, 801, 802 & 1018

Table 95. 2010 annual crops in the Cardston Plain Ecodistrict (800, 801, 802 & 1018) in the Fescue Grassland Ecoregion (21 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stork's-bill	7.3	7.3	100.0	4.2	57.0	57.0	38.7
2	Field bindweed	42.8	12.1	28.1	0.8	1.9	9.0	30.5
3	Canada thistle	39.8	8.8	22.2	0.9	2.3	9.2	26.7
4	Redroot pigweed	18.8	8.0	42.4	1.3	6.7	15.6	22.5
5	Stinkweed	39.8	7.6	19.2	0.5	1.2	3.2	22.3
6	Lamb's-quarters	12.0	7.4	61.7	1.5	12.1	19.6	21.4
7	Foxtail barley	20.1	2.8	14.0	1.2	6.2	10.4	17.0
8	Wild oats	6.8	4.0	58.9	0.8	11.3	14.0	11.5
9	Cow cockle	21.9	3.7	16.8	0.2	1.0	2.0	11.3
10	Dandelion	25.1	3.2	12.8	0.2	0.7	1.6	11.3
11	Yellow alyssum	4.7	3.5	75.0	0.7	15.4	15.4	10.2
12	Wild mustard	4.7	3.1	65.0	0.7	14.6	14.6	9.4
13	American dragonhead	12.0	3.3	27.2	0.2	2.0	2.6	8.5
14	Round-leaved mallow	13.6	1.9	13.7	0.1	0.8	1.4	6.4
15	Prostrate knotweed	14.1	1.4	9.6	0.1	0.8	1.6	6.1
16	Perennial sow-thistle	11.5	1.8	15.3	0.1	0.8	1.0	5.6
17	Cleavers	4.1	2.1	50.0	0.3	6.6	11.8	5.2
18	Wild buckwheat	6.8	1.9	27.4	0.1	2.0	2.4	4.8
19	Canola	9.4	1.2	12.5	0.1	1.1	2.0	4.5
20	Downy brome	6.8	1.0	15.4	0.2	2.3	2.8	4.0
21	Sunflower	4.7	0.2	5.0	0.2	3.2	3.2	2.5
22	Flixweed	6.8	0.3	5.0	< 0.1	0.2	0.2	2.3
23	Black medick	4.7	0.5	10.0	< 0.1	0.6	0.6	2.0
24	Prostrate pigweed	4.7	0.5	10.0	< 0.1	0.4	0.4	1.9
25	Spear-leaved goosefoot	4.7	0.2	5.0	< 0.1	0.2	0.2	1.6
26	Henbit	4.7	0.2	5.0	< 0.1	0.2	0.2	1.6
27	Kochia	4.7	0.2	5.0	< 0.1	0.2	0.2	1.6
28	Spiny annual sow-thistle	2.1	0.4	20.0	0.1	2.8	2.8	1.4
29	Quack grass	2.1	0.4	20.0	< 0.1	2.4	2.4	1.3
30	Alfalfa	2.1	0.2	10.0	< 0.1	0.4	0.4	0.8
31	Grass	2.1	0.2	10.0	< 0.1	0.4	0.4	0.8
32	Rose species	2.1	0.1	5.0	< 0.1	1.0	1.0	0.8
33	Wheat	2.1	0.1	5.0	< 0.1	0.4	0.4	0.7
34	Low larkspur	2.1	0.1	5.0	< 0.1	0.2	0.2	0.7
35	Silvery lupin	2.1	0.1	5.0	< 0.1	0.2	0.2	0.7
36	Clover species	2.1	0.1	5.0	< 0.1	0.2	0.2	0.7
37	Timothy	2.1	0.1	5.0	< 0.1	0.2	0.2	0.7

Table 96. 2010 annual crops in the Sounding Creek Plain Ecodistrict (804) in the Mixed Grassland Ecoregion (13 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Narrow-leaved hawk's-beard	84.6	38.5	45.5	16.7	19.7	148.2	78.8
2	Green foxtail	61.5	24.2	39.4	11.0	17.8	101.6	52.0
3	Wild buckwheat	92.3	35.0	37.9	5.2	5.6	19.6	48.6
4	Redroot pigweed	69.2	14.6	21.1	1.8	2.6	18.0	24.1
5	Dandelion	53.8	6.5	12.1	0.5	0.9	3.4	13.5
6	Foxtail barley	38.5	5.8	15.0	1.2	3.0	13.4	12.3
7	Kochia	30.8	6.9	22.5	0.4	1.3	2.0	9.9
8	Shepherd's-purse	38.5	3.8	10.0	0.3	0.8	2.8	9.0
9	Prostrate knotweed	30.8	5.0	16.3	0.4	1.3	3.4	8.8
10	Wild oats	30.8	4.6	15.0	0.4	1.3	2.8	8.5
11	Flixweed	23.1	3.8	16.7	0.3	1.1	1.8	6.5
12	Lamb's-quarters	23.1	1.9	8.3	0.1	0.4	0.8	4.9
13	Field peas	7.7	4.6	60.0	0.3	3.6	3.6	4.7
14	Stinkweed	7.7	2.7	35.0	0.6	8.2	8.2	4.4
15	Quack grass	7.7	2.3	30.0	0.1	1.2	1.2	2.8
16	Round-leaved mallow	7.7	1.2	15.0	< 0.1	0.6	0.6	2.0
17	Russian thistle	7.7	0.8	10.0	< 0.1	0.6	0.6	1.8
18	American dragonhead	7.7	0.4	5.0	< 0.1	0.6	0.6	1.5
19	Common pepper-grass	7.7	0.4	5.0	< 0.1	0.2	0.2	1.4
20	Perennial sow-thistle	7.7	0.4	5.0	< 0.1	0.2	0.2	1.4
21	Canada thistle	7.7	0.4	5.0	< 0.1	0.2	0.2	1.4
22	Wild tomato	7.7	0.4	5.0	< 0.1	0.2	0.2	1.4

Field Survey Summary Tables – Ecodistricts 806, 814, 818 & 812

Table 97. 2010 annual crops in the Berry Creek Plain Ecodistrict (806, 814, 818 & 812) in the Mixed Grassland Ecoregion (14 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Lamb's-quarters	24.8	11.2	45.0	22.8	92.0	328.8	58.7
2	Wild buckwheat	85.9	36.0	41.8	4.7	5.5	18.2	39.3
3	Kochia	73.5	20.0	27.2	3.0	4.0	23.2	25.6
4	Redroot pigweed	65.4	20.2	30.9	2.9	4.4	20.6	24.5
5	Narrow-leaved hawk's-beard	65.7	15.2	23.1	2.7	4.1	21.6	21.5
6	Dandelion	60.1	16.5	27.4	1.8	3.1	15.0	19.7
7	Green foxtail	38.7	10.8	27.8	1.3	3.4	5.6	13.1
8	Stinkweed	51.1	8.5	16.7	0.8	1.5	8.8	12.1
9	Flixweed	38.7	5.8	14.9	0.4	1.0	2.8	8.4
10	Prostrate pigweed	14.5	6.3	43.5	1.5	10.2	15.6	8.3
11	Russian thistle	26.3	6.2	23.4	0.5	2.1	7.0	7.5
12	Prostrate knotweed	26.5	5.5	20.6	0.5	2.0	2.8	7.1
13	Perennial sow-thistle	26.3	4.4	16.7	0.6	2.3	6.2	6.7
14	Wild oats	32.7	3.3	10.0	0.3	1.0	3.0	6.2
15	Foxtail barley	24.2	3.0	12.6	0.3	1.3	2.8	5.1
16	Wheat	11.8	2.9	25.0	0.6	4.8	4.8	4.2
17	Shepherd's-purse	18.6	1.9	10.0	0.1	0.4	0.6	3.3
18	Round-leaved mallow	21.9	1.1	5.0	0.1	0.3	0.6	3.3
19	Barnyard grass	8.3	1.7	20.0	0.3	4.0	4.0	2.6
20	Oats	11.8	1.8	15.0	0.1	1.0	1.0	2.6
21	Pale smartweed	16.2	0.8	5.0	< 0.1	0.2	0.2	2.4
22	Canola	14.5	0.7	5.0	< 0.1	0.2	0.2	2.1
23	Pygmyflower	12.4	0.9	7.5	0.1	0.5	0.6	2.1
24	Alfalfa	12.4	0.9	7.5	< 0.1	0.3	0.4	2.0
25	Tansy	11.8	0.6	5.0	0.1	0.6	0.6	1.8
26	Cow cockle	12.4	0.6	5.0	< 0.1	0.2	0.2	1.8
27	Wild tomato	12.4	0.6	5.0	< 0.1	0.2	0.2	1.8
28	Canada fleabane	11.8	0.6	5.0	< 0.1	0.2	0.2	1.7
29	Common pepper-grass	6.2	0.6	10.0	< 0.1	0.6	0.6	1.1
30	Yellow alyssum	6.2	0.6	10.0	< 0.1	0.4	0.4	1.1
31	Rose species	6.2	0.6	10.0	< 0.1	0.4	0.4	1.1
32	Canada thistle	6.2	0.3	5.0	0.1	1.0	1.0	1.0

Table 98. 2010 annual crops in the Oyen Upland Ecodistrict (809 & 805) in the Mixed Grassland Ecoregion (11 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	85.5	37.2	43.5	5.5	6.4	28.8	107.3
2	Green foxtail	45.1	15.8	35.0	2.1	4.7	9.2	45.2
3	Wild oats	48.4	10.3	21.3	1.1	2.4	6.8	31.2
4	Redroot pigweed	66.2	10.1	15.2	0.7	1.0	3.0	30.2
5	Dandelion	45.1	2.8	6.3	0.1	0.3	0.6	13.3
6	Prostrate pigweed	22.6	2.8	12.5	0.2	0.8	0.8	9.2
7	Prostrate knotweed	11.3	1.7	15.0	0.5	4.4	4.4	8.6
8	Stinkweed	22.6	2.3	10.0	0.1	0.4	0.6	7.8
9	Narrow-leaved hawk's-beard	22.6	1.7	7.5	0.1	0.4	0.6	7.2
10	Field peas	14.5	2.4	16.6	0.1	1.0	1.2	6.8
11	Kochia	22.6	1.1	5.0	0.1	0.3	0.4	6.4
12	Shepherd's-purse	22.6	1.1	5.0	0.1	0.3	0.4	6.4
13	Flixweed	22.6	1.1	5.0	< 0.1	0.2	0.2	6.2
14	Wild tomato	22.6	1.1	5.0	< 0.1	0.2	0.2	6.2
15	Russian thistle	11.3	1.7	15.0	0.1	1.0	1.0	5.1
16	Foxtail barley	11.3	0.6	5.0	< 0.1	0.2	0.2	3.1

Field Survey Summary Tables – Ecodistricts 815 & 811

Table 99. 2010 annual crops in the Bindloss Plain Ecodistrict (815 & 811) in the Mixed Grassland Ecoregion (11 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Kochia	55.1	13.8	25.0	5.6	10.2	52.8	57.5
2	Wild oats	72.4	22.8	31.4	2.4	3.3	9.8	50.0
3	Prostrate pigweed	34.7	19.5	56.3	2.2	6.4	9.6	37.6
4	Wild buckwheat	56.7	15.6	27.5	1.6	2.9	13.2	35.7
5	Russian thistle	37.8	15.9	42.2	2.1	5.6	17.8	34.6
6	Redroot pigweed	63.8	11.6	18.2	1.2	1.9	7.6	31.3
7	Green foxtail	18.9	4.0	21.1	0.3	1.8	3.6	9.6
8	Narrow-leaved hawk's-beard	10.2	4.1	40.0	0.5	4.8	4.8	8.7
9	Stinkweed	20.4	2.0	10.0	0.1	0.4	0.6	6.8
10	Flixweed	18.9	0.9	5.0	0.1	0.7	1.2	5.8
11	Thyme-leaved spurge	8.7	1.7	20.0	0.4	4.4	4.4	5.7
12	Foxtail barley	18.9	0.9	5.0	< 0.1	0.2	0.2	5.3
13	Dandelion	10.2	1.5	15.0	0.1	1.2	1.2	4.3
14	Canada fleabane	8.7	1.3	15.0	0.1	0.8	0.8	3.5
15	American vetch	10.2	1.0	10.0	< 0.1	0.4	0.4	3.4

Table 100. 2010 annual crops in the Schuler Upland Ecodistrict (821) in the Mixed Grassland Ecoregion (14 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	57.1	16.4	28.8	3.1	5.4	20.6	88.0
2	Kochia	50.0	10.0	20.0	1.8	3.7	23.4	58.3
3	Wild buckwheat	50.0	10.0	20.0	0.7	1.4	5.0	43.3
4	Narrow-leaved hawk's-beard	28.6	7.5	26.3	0.6	2.2	4.0	30.6
5	Redroot pigweed	35.7	3.2	9.0	0.6	1.8	6.4	25.8
6	Russian thistle	28.6	2.5	8.8	0.1	0.4	0.8	15.2
7	Green foxtail	14.3	2.5	17.5	0.3	2.0	2.6	12.8
8	Perennial sow-thistle	14.3	1.8	12.5	0.1	0.7	1.0	9.1
9	Dandelion	14.3	1.1	7.5	0.1	0.5	0.8	7.5
10	Flixweed	7.1	1.1	15.0	< 0.1	0.6	0.6	4.8
11	Goat's-beard	7.1	1.1	15.0	< 0.1	0.6	0.6	4.8

Field Survey Summary Tables – Ecodistrict 823

Table 101. 2010 annual crops in the Vauxhall Plain Ecodistrict (823) in the Mixed Grassland Ecoregion (11 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Russian thistle	27.3	5.9	21.7	0.7	2.6	5.2	49.3
2	Kochia	31.8	5.7	17.9	0.6	1.9	4.8	45.9
3	Wild buckwheat	59.1	5.7	9.6	0.3	0.6	1.4	44.7
4	Wild oats	59.1	5.7	9.6	0.3	0.6	1.4	44.7
5	Foxtail barley	27.3	3.4	12.5	0.2	0.9	2.6	25.6
6	Redroot pigweed	18.2	2.3	12.5	0.1	0.7	1.2	16.0
7	Dandelion	18.2	1.8	10.0	0.1	0.5	0.8	13.5
8	Thyme-leaved spurge	18.2	1.8	10.0	0.1	0.5	0.6	13.5
9	Round-leaved mallow	9.1	0.9	10.0	0.1	1.6	1.6	10.3
10	Lamb's-quarters	9.1	0.9	10.0	< 0.1	0.4	0.4	6.4
11	Downy brome	9.1	0.5	5.0	< 0.1	0.2	0.2	4.6
12	Flixweed	9.1	0.5	5.0	< 0.1	0.2	0.2	4.6
13	Prostrate knotweed	9.1	0.5	5.0	< 0.1	0.2	0.2	4.6
14	Canada thistle	9.1	0.5	5.0	< 0.1	0.2	0.2	4.6
15	Common yarrow	9.1	0.5	5.0	< 0.1	0.2	0.2	4.6
16	Crested wheat grass	4.5	0.2	5.0	< 0.1	0.4	0.4	2.6
17	Green foxtail	4.5	0.2	5.0	< 0.1	0.2	0.2	2.3
18	Purslane	4.5	0.2	5.0	< 0.1	0.2	0.2	2.3

Table 102. 2010 annual crops in the Foremost Plain Ecodistrict (828) in the Mixed Grassland Ecoregion (52 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Russian thistle	28.8	9.1	31.7	2.0	7.0	35.4	49.7
2	Wild buckwheat	38.5	8.4	21.8	0.7	1.8	9.6	35.4
3	Wild oats	25.0	6.7	26.9	1.3	5.1	23.6	35.3
4	Kochia	31.7	6.4	20.2	0.6	1.9	5.8	28.8
5	Dandelion	15.4	2.8	18.1	0.6	4.2	28.2	17.8
6	Wheat	6.7	2.4	35.7	0.9	13.7	31.8	17.6
7	Prostrate knotweed	9.6	4.7	49.0	0.3	3.6	7.2	15.4
8	Flixweed	15.4	3.3	21.3	0.3	1.8	7.0	14.0
9	Redroot pigweed	17.3	2.1	12.2	0.1	0.8	3.6	11.2
10	Spiny annual sow-thistle	9.6	1.6	17.0	0.2	1.6	4.6	7.9
11	Canada thistle	12.5	1.0	7.7	0.1	0.6	1.4	6.8
12	Canola	5.8	1.3	21.7	0.1	2.5	3.0	5.8
13	Purslane	5.8	1.5	26.7	0.1	1.7	2.4	5.8
14	Barley	3.8	1.2	30.0	0.1	3.4	5.2	4.8
15	Foxtail barley	5.8	0.9	15.0	0.1	2.0	3.6	4.8
16	Stinkweed	5.8	0.7	11.7	0.1	2.0	5.6	4.5
17	Downy brome	7.7	0.5	6.3	< 0.1	0.4	0.6	3.8
18	Volunteer grain	3.8	0.7	17.5	< 0.1	0.9	1.0	2.9
19	Perennial sow-thistle	1.9	0.6	30.0	0.1	4.2	4.2	2.6
20	Lamb's-quarters	3.8	0.5	12.5	< 0.1	0.6	0.6	2.4
21	Round-leaved mallow	3.8	0.5	12.5	< 0.1	0.6	0.6	2.4
22	Scouring-rush	1.9	0.3	15.0	0.1	4.4	4.4	2.2
23	Green foxtail	3.8	0.3	7.5	< 0.1	0.4	0.4	2.0
24	Prickly lettuce	1.9	0.1	5.0	0.1	4.2	4.2	1.8
25	Cow cockle	3.8	0.2	5.0	< 0.1	0.2	0.2	1.7
26	Shepherd's-purse	1.9	0.4	20.0	< 0.1	1.0	1.0	1.5
27	Purslane speedwell	1.9	0.2	10.0	< 0.1	2.0	2.0	1.5
28	Field bindweed	1.9	0.3	15.0	< 0.1	1.2	1.2	1.4
29	Chickweed	1.9	0.3	15.0	< 0.1	1.2	1.2	1.4
30	Alfalfa	1.9	0.3	15.0	< 0.1	1.2	1.2	1.4
31	Pale smartweed	2.9	0.1	5.0	< 0.1	0.2	0.2	1.3
32	Scarlet mallow	1.9	0.3	15.0	< 0.1	0.6	0.6	1.3
33	Goat's-beard	1.9	0.1	5.0	< 0.1	0.4	0.4	0.9
34	Bluebur	1.9	0.1	5.0	< 0.1	0.2	0.2	0.9
35	Biennial wormwood	1.9	0.1	5.0	< 0.1	0.2	0.2	0.9

Field Survey Summary Tables – Ecodistricts 833, 837 & 836

Table 103. 2010 annual crops in the Wild Horse Plain Ecodistrict (833, 837 & 836) in the Mixed Grassland Ecoregion (10 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	62.4	12.8	20.6	0.7	1.1	1.4	71.4
2	Russian thistle	31.5	12.4	39.3	1.1	3.4	3.4	70.7
3	Wild oats	47.1	3.4	7.2	0.3	0.6	1.4	34.2
4	Purslane	7.2	3.2	45.0	0.3	4.4	4.4	19.1
5	Redroot pigweed	17.2	3.4	20.0	0.1	0.8	0.8	17.9
6	Canada thistle	14.3	3.2	22.5	0.1	1.0	1.0	16.5
7	Dandelion	17.2	1.7	10.0	0.1	0.8	0.8	14.4
8	Flixweed	14.3	1.8	12.5	0.1	0.8	1.0	12.7
9	Barley	13.3	2.0	15.0	0.1	0.6	0.6	11.7
10	Stinkweed	7.2	2.1	30.0	0.1	1.4	1.4	10.3
11	Field peas	13.3	1.3	10.0	0.1	0.4	0.4	9.5
12	Prostrate knotweed	7.2	1.1	15.0	0.1	1.2	1.2	7.6
13	Blue lettuce	7.2	0.4	5.0	< 0.1	0.2	0.2	3.9

Field Survey Summary Tables – Density, Species Richness and Weed-Free Quadrats by Extension Region

Table 104. Number of fields surveyed by crop in each extension region

	Annual crops								Perennial crops
	Cereal					Broad-leaved			Perennial crops
	Spring wheat	Durum	Barley	Oat	Mixed cereal	Canola	Field peas	Mixed annuals	Perennial crops
Peace	21	-	10	6	-	37	8	-	4
North	113	-	80	24	10	109	22	1	24
Central	99	6	87	8	1	69	12	-	3
Southern	103	27	65	3	5	37	23	-	4

Table 105. Number of fields surveyed, density, species richness and weed-free quadrats in the surveyed crops in each extension region

Area	Number of fields surveyed	Density (number/m ²)			Species (number /field)		Weed-free quadrats	
		mean	SE	median	mean	SE	%	SE
Peace								
Annual crops	82	43.9	10.4	5.3	5.4	0.5	49.5	5.5
Cereal crops	37	55.1	19.7	4.8	5.2	0.7	50.1	8.2
Spring wheat	21	17.7	8.1	3.9	4.4	0.7	58.0	10.8
Barley	10	78.3	38.0	33.6	6.9	1.5	37.6	15.3
Broad-leaved annual crops	45	35.3	10.0	5.3	5.6	0.7	49.0	7.5
Canola	37	15.9	4.0	4.6	4.8	0.6	54.5	8.2
North								
Annual crops	359	19.2	2.0	8.2	4.5	0.2	41.6	2.6
Cereal crops	227	22.2	3.0	9.8	4.6	0.2	39.3	3.2
Spring wheat	113	17.3	2.7	8.4	4.2	0.3	42.8	4.7
Barley	80	24.9	7.1	7.2	4.5	0.4	39.4	5.5
Oat	24	23.7	6.1	11.8	5.2	0.7	32.7	9.6
Broad-leaved annual crops	131	14.0	1.7	7.1	4.3	0.3	45.5	4.4
Canola	109	11.0	1.5	4.7	3.7	0.3	51.1	4.8
Field pea	22	26.9	6.3	10.1	6.7	0.7	21.4	8.8
Perennial crops	24	24.7	3.0	20.1	4.1	0.5	16.8	7.6
Central								
Annual crops	282	27.8	3.6	7.3	4.7	0.2	39.1	2.9
Cereal crops	201	33.9	5.0	10.1	4.9	0.2	36.9	3.4
Spring wheat	99	43.9	8.9	11.3	4.8	0.3	35.6	4.8
Barley	87	20.8	4.4	5.6	4.6	0.3	41.1	5.3
Broad-leaved annual crops	81	14.4	2.4	5.7	4.4	0.4	44.1	5.5
Canola	69	15.4	2.8	5.9	4.4	0.4	44.9	6.0
Field pea	12	8.4	2.2	5.1	4.6	0.6	39.4	14.1
Southern								
Annual crops	263	10.7	1.5	2.9	3.5	0.2	58.4	3.0
Cereal crops	203	11.5	1.8	2.7	3.4	0.2	58.6	3.5
Spring wheat	103	9.9	1.4	3.2	3.5	0.3	56.4	4.9
Durum	27	9.4	4.6	2.3	3.2	0.5	61.6	9.4
Barley	65	14.5	4.8	2.6	3.2	0.4	61.7	6.0
Broad-leaved annual crops	60	7.9	1.5	3.0	3.9	0.4	57.4	6.4
Canola	37	8.3	2.2	2.6	3.9	0.6	60.4	8.0
Field pea	23	7.2	1.5	4.2	3.9	0.6	51.8	10.4

Field Survey Summary Tables – Peace Region Annual Crops

Table 106. 2010 annual crops in the Peace Region (82 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Cleavers	37.4	11.9	31.8	8.6	22.9	135.8	36.3
2	Wild buckwheat	45.2	13.7	30.3	5.8	12.8	313.6	32.9
3	Field horsetail	45.2	12.1	26.8	4.4	9.8	50.4	28.6
4	Dandelion	29.8	9.4	31.5	2.5	8.4	102.4	19.1
5	Narrow-leaved hawk's-beard	34.2	9.3	27.1	2.0	5.9	28.8	18.6
6	Stinkweed	27.1	5.9	21.9	2.1	7.8	57.6	14.8
7	Canola	26.8	7.2	26.8	1.3	5.0	25.6	14.0
8	Lamb's-quarters	27.4	5.9	21.5	1.6	6.0	65.6	13.7
9	Clover species	25.3	4.4	17.5	2.0	8.0	162.4	13.0
10	Hemp-nettle	24.4	4.5	18.6	1.4	5.6	57.6	11.4
11	Chickweed	10.6	5.0	47.3	2.1	20.3	41.2	11.0
12	Spiny annual sow-thistle	13.6	3.2	23.3	1.7	12.6	101.0	9.1
13	Canada thistle	28.1	2.8	10.0	0.5	1.6	16.0	8.6
14	Corn spurry	2.0	1.8	91.3	2.6	130.6	160.0	7.8
15	Wild oats	17.6	2.4	13.8	0.3	1.8	6.6	6.0
16	Pineappleweed	7.9	2.1	27.2	1.0	12.9	57.8	5.6
17	Pale smartweed	11.4	1.7	14.8	0.5	4.2	47.2	4.6
18	Quack grass	9.6	1.6	17.2	0.6	5.8	23.2	4.4
19	Meadow brome	4.5	3.0	65.0	0.4	8.4	8.4	4.2
20	Shepherd's-purse	12.8	1.3	10.5	0.3	2.1	12.0	4.1
21	Alfalfa	10.7	1.6	15.2	0.3	2.4	19.2	3.9
22	Wheat	9.8	1.2	12.1	0.2	2.0	8.6	3.3
23	Perennial sow-thistle	11.6	0.8	7.3	0.2	1.5	9.6	3.2
24	Red fescue	8.6	0.9	10.3	0.1	0.8	1.4	2.5
25	Common groundsel	8.4	0.5	6.2	0.1	1.3	8.8	2.2
26	Purple vetchling	8.2	0.7	8.4	< 0.1	0.4	0.8	2.2
27	Barley	6.7	0.8	11.3	0.1	1.7	2.2	2.1
28	Dock species	1.9	0.3	15.7	0.6	30.1	56.0	1.9
29	Redroot pigweed	6.0	0.5	7.8	0.1	2.2	8.0	1.8
30	White cockle	1.2	0.5	40.0	0.3	26.4	26.4	1.3
31	American vetch	2.0	0.5	23.8	0.2	7.8	18.4	1.1
32	Foxtail barley	4.1	0.3	8.2	< 0.1	0.6	1.8	1.1
33	Rough cinquefoil	2.4	0.4	15.0	< 0.1	0.8	0.8	0.8
34	Broad-leaved plantain	3.1	0.2	6.6	< 0.1	0.7	1.0	0.8
35	Bluebur	2.4	0.3	11.8	< 0.1	0.7	0.8	0.7
36	Yellow sweet-clover	1.8	0.2	12.5	< 0.1	0.6	0.8	0.5
37	Willowherb species	1.8	0.1	5.0	< 0.1	0.2	0.2	0.4
38	Rose species	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
39	Grass	1.0	0.1	10.0	< 0.1	1.6	1.6	0.3
40	Oats	1.2	0.1	5.0	< 0.1	1.6	1.6	0.3
41	Spear-leaved goosefoot	0.9	0.1	15.0	< 0.1	1.2	1.2	0.3
42	Henbit	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.2
43	Northern bedstraw	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
44	Tartary buckwheat	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
45	Golden corydalis	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
46	Kochia	0.1	< 0.1	10.0	< 0.1	4.0	4.0	< 0.1

Table 107. 2010 cereal crops in the Peace Region (37 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	48.2	18.8	39.1	11.8	24.6	313.6	45.1
2	Dandelion	36.4	13.5	37.1	5.3	14.6	102.4	26.9
3	Narrow-leaved hawk's-beard	36.5	14.5	39.7	4.0	11.0	28.8	25.3
4	Canola	45.3	14.1	31.1	2.9	6.5	25.6	24.8
5	Clover species	30.9	6.3	20.6	4.4	14.3	162.4	18.8
6	Field horsetail	38.1	6.5	17.0	2.6	6.8	50.4	17.0
7	Hemp-nettle	25.6	7.4	28.9	2.8	11.0	57.6	15.7
8	Corn spurry	4.5	4.2	91.3	5.9	130.6	160.0	14.8
9	Lamb's-quarters	12.1	5.9	49.0	2.8	23.0	65.6	11.8
10	Cleavers	29.8	5.9	19.8	0.6	2.1	11.2	11.4
11	Meadow brome	10.4	6.8	65.0	0.9	8.4	8.4	8.7
12	Pale smartweed	14.6	2.8	19.5	1.0	7.1	47.2	6.9
13	Stinkweed	7.2	3.1	42.7	1.7	23.7	57.6	6.8
14	Pineappleweed	6.6	2.1	31.7	1.5	23.1	57.8	5.6
15	Red fescue	16.3	1.9	11.4	0.2	1.0	1.4	4.9
16	Canada thistle	15.4	1.8	11.6	0.2	1.2	3.2	4.7
17	Chickweed	9.4	2.3	24.0	0.6	6.0	24.8	4.5
18	Spiny annual sow-thistle	6.6	2.6	40.0	0.5	7.7	14.0	4.2
19	Perennial sow-thistle	15.4	0.8	5.0	0.3	1.9	9.6	4.1
20	Redroot pigweed	13.6	1.1	7.8	0.3	2.2	8.0	4.0
21	Alfalfa	6.1	2.3	37.3	0.5	8.7	19.2	3.9
22	Shepherd's-purse	10.6	1.2	11.4	0.5	4.6	12.0	3.9
23	Quack grass	5.2	1.6	31.1	0.9	16.4	23.2	3.8
24	Common groundsel	14.8	0.8	5.7	< 0.1	0.2	0.4	3.6
25	Wild oats	12.1	1.0	8.1	0.3	2.2	6.6	3.6
26	Dock species	2.4	0.6	25.0	1.3	56.0	56.0	3.3
27	White cockle	2.6	1.1	40.0	0.7	26.4	26.4	2.6
28	American vetch	4.5	1.1	23.8	0.4	7.8	18.4	2.3
29	Broad-leaved plantain	7.0	0.5	6.6	< 0.1	0.7	1.0	1.8
30	Foxtail barley	5.3	0.3	5.0	< 0.1	0.2	0.2	1.3
31	Willowherb species	4.2	0.2	5.0	< 0.1	0.2	0.2	1.0
32	Grass	2.4	0.2	10.0	< 0.1	1.6	1.6	0.7
33	Oats	2.6	0.1	5.0	< 0.1	1.6	1.6	0.7
34	Purple vetchling	2.6	0.1	5.0	< 0.1	0.2	0.2	0.6
35	Wheat	2.2	0.1	5.0	< 0.1	0.2	0.2	0.5
36	Northern bedstraw	2.0	0.1	5.0	< 0.1	0.2	0.2	0.5
37	Kochia	0.3	< 0.1	10.0	< 0.1	4.0	4.0	0.1

Field Survey Summary Tables – Peace Region Spring Wheat

Table 108. 2010 spring wheat fields in the Peace Region (21 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	51.9	10.4	20.0	3.8	7.3	74.2	48.3
2	Field horsetail	39.7	8.1	20.4	3.9	9.7	50.4	42.6
3	Canola	43.5	10.7	24.5	2.2	5.2	25.6	38.1
4	Pineappleweed	8.7	3.9	45.0	3.0	34.4	57.8	24.5
5	Clover species	22.0	3.0	13.5	1.2	5.4	23.4	16.0
6	Canada thistle	30.5	3.5	11.6	0.4	1.2	3.2	14.0
7	Spiny annual sow-thistle	8.7	4.3	50.0	0.9	10.9	14.0	13.6
8	Narrow-leaved hawk's-beard	27.1	3.6	13.4	0.4	1.5	3.2	13.6
9	Dandelion	24.2	3.4	14.2	0.2	0.9	4.0	11.6
10	Wild oats	24.1	1.9	8.1	0.5	2.2	6.6	11.2
11	Cleavers	20.2	2.6	12.8	0.1	0.7	1.6	9.2
12	Lamb's-quarters	10.6	3.3	31.4	0.3	2.8	6.4	9.0
13	Hemp-nettle	18.9	2.3	12.2	0.1	0.7	1.4	8.3
14	Redroot pigweed	21.8	1.3	6.1	0.2	0.8	1.6	7.8
15	Pale smartweed	14.6	0.7	5.0	< 0.1	0.2	0.2	4.5
16	Alfalfa	6.9	1.4	20.0	0.1	0.8	0.8	3.9
17	Shepherd's-purse	11.2	0.6	5.5	0.1	0.7	5.6	3.9
18	Red fescue	11.8	0.6	5.0	< 0.1	0.2	0.2	3.7
19	Foxtail barley	10.6	0.5	5.0	< 0.1	0.2	0.2	3.3
20	Willowherb species	8.4	0.4	5.0	< 0.1	0.2	0.2	2.6
21	Grass	4.7	0.5	10.0	0.1	1.6	1.6	2.2
22	Chickweed	5.3	0.3	5.0	< 0.1	0.2	0.2	1.6
23	Perennial sow-thistle	4.7	0.2	5.0	< 0.1	0.8	0.8	1.6
24	Broad-leaved plantain	4.3	0.2	5.0	< 0.1	0.4	0.4	1.4
25	Common groundsel	4.3	0.2	5.0	< 0.1	0.2	0.2	1.3
26	Northern bedstraw	4.0	0.2	5.0	< 0.1	0.2	0.2	1.2
27	Quack grass	1.4	0.1	5.0	< 0.1	2.0	2.0	0.6
28	Kochia	0.6	0.1	10.0	< 0.1	4.0	4.0	0.3

Table 109. 2010 barley fields in the Peace Region (10 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	51.8	36.8	71.0	28.1	54.2	313.6	61.3
2	Narrow-leaved hawk's-beard	54.1	31.9	59.0	9.0	16.7	28.8	35.0
3	Canola	57.8	24.9	43.1	5.2	8.9	16.8	27.2
4	Dandelion	51.4	19.4	37.8	1.7	3.4	5.0	19.2
5	Meadow brome	30.7	19.9	65.0	2.6	8.4	8.4	17.5
6	Hemp-nettle	34.0	12.7	37.2	4.8	14.2	45.6	17.4
7	Cleavers	57.8	13.6	23.5	1.6	2.8	11.2	17.2
8	Corn spurry	7.8	6.6	85.0	8.5	109.4	109.4	15.2
9	Stinkweed	21.2	9.0	42.7	5.0	23.7	57.6	13.9
10	Clover species	44.9	5.9	13.2	1.5	3.4	18.2	11.5
11	Perennial sow-thistle	38.5	1.9	5.0	0.8	2.1	9.6	7.7
12	Red fescue	30.7	4.6	15.0	0.4	1.4	1.4	7.3
13	Dock species	6.9	1.7	25.0	3.9	56.0	56.0	6.8
14	Common groundsel	37.1	2.2	5.9	0.1	0.2	0.4	6.7
15	Field horsetail	30.7	1.5	5.0	0.2	0.6	0.6	5.5
16	Shepherd's-purse	14.7	2.6	17.9	1.3	9.0	12.0	5.2
17	Quack grass	7.8	2.7	35.0	1.8	23.2	23.2	4.8
18	Chickweed	14.2	2.3	16.3	0.2	1.7	2.8	3.5
19	Broad-leaved plantain	14.2	1.0	7.3	0.1	0.8	1.0	2.8
20	Redroot pigweed	7.8	1.2	15.0	0.6	8.0	8.0	2.5
21	Pale smartweed	7.8	1.6	20.0	0.3	4.0	4.0	2.3
22	Spiny annual sow-thistle	6.4	1.3	20.0	0.1	1.2	1.2	1.7
23	Oats	7.8	0.4	5.0	0.1	1.6	1.6	1.5
24	American vetch	7.8	0.4	5.0	< 0.1	0.2	0.2	1.4
25	Purple vetchling	7.8	0.4	5.0	< 0.1	0.2	0.2	1.4
26	Pineappleweed	6.4	0.3	5.0	< 0.1	0.4	0.4	1.1
27	Lamb's-quarters	6.4	0.3	5.0	< 0.1	0.2	0.2	1.1
28	Wheat	6.4	0.3	5.0	< 0.1	0.2	0.2	1.1

Field Survey Summary Tables – Peace Region Broad-Leaved Annual Crops

Table 110. 2010 broad-leaved annual crops in the Peace Region (45 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Cleavers	43.2	16.5	38.1	14.7	34.0	135.8	64.5
2	Field horsetail	50.8	16.5	32.4	5.8	11.5	50.2	40.7
3	Stinkweed	42.6	8.2	19.2	2.4	5.7	35.2	21.9
4	Wild buckwheat	42.8	9.7	22.6	1.1	2.5	20.8	19.5
5	Chickweed	11.5	7.1	62.1	3.4	29.4	41.2	18.1
6	Lamb's-quarters	39.3	5.9	14.9	0.8	1.9	17.6	14.5
7	Spiny annual sow-thistle	19.1	3.6	18.8	2.7	14.0	101.0	14.3
8	Canada thistle	37.9	3.6	9.5	0.7	1.7	16.0	11.9
9	Narrow-leaved hawk's-beard	32.4	5.2	16.1	0.4	1.4	10.6	11.8
10	Dandelion	24.7	6.2	25.1	0.3	1.4	2.6	11.1
11	Wild oats	21.8	3.5	16.2	0.3	1.6	5.2	8.1
12	Hemp-nettle	23.5	2.3	9.9	0.2	1.0	4.0	7.0
13	Clover species	21.0	3.0	14.1	0.2	0.9	2.4	7.0
14	Wheat	15.8	2.0	12.9	0.3	2.2	8.6	5.6
15	Pineappleweed	8.9	2.2	24.7	0.6	7.2	32.4	5.4
16	Quack grass	12.9	1.7	12.8	0.3	2.4	7.0	4.7
17	Shepherd's-purse	14.5	1.5	10.0	0.1	0.6	1.8	4.2
18	Canola	12.5	1.8	14.7	0.1	0.7	1.2	4.2
19	Barley	11.8	1.3	11.3	0.2	1.7	2.2	3.9
20	Alfalfa	14.3	1.1	7.9	< 0.1	0.3	1.0	3.7
21	Purple vetchling	12.5	1.1	8.9	0.1	0.5	0.8	3.4
22	Perennial sow-thistle	8.7	0.9	10.5	0.1	0.9	1.2	2.6
23	Pale smartweed	9.0	0.8	8.9	0.1	0.6	1.4	2.5
24	Rough cinquefoil	4.3	0.6	15.0	< 0.1	0.8	0.8	1.4
25	Common groundsel	3.5	0.3	7.6	0.2	4.6	8.8	1.3
26	Bluebur	4.3	0.5	11.8	< 0.1	0.7	0.8	1.3
27	Foxtail barley	3.1	0.4	12.5	< 0.1	1.2	1.8	1.0
28	Yellow sweet-clover	3.1	0.4	12.5	< 0.1	0.6	0.8	1.0
29	Rose species	2.8	0.1	5.0	< 0.1	0.2	0.2	0.6
30	Red fescue	2.6	0.1	5.0	< 0.1	0.2	0.2	0.6
31	Spear-leaved goosefoot	1.6	0.2	15.0	< 0.1	1.2	1.2	0.6
32	Henbit	1.7	0.1	5.0	< 0.1	0.2	0.2	0.4
33	Tartary buckwheat	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
34	Golden corydalis	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
35	Dock species	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4

Table 111. 2010 canola fields in the Peace Region (37 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Field horsetail	52.3	11.4	21.8	2.3	4.4	42.6	39.8
2	Cleavers	38.9	8.3	21.3	2.5	6.4	60.6	34.0
3	Spiny annual sow-thistle	14.7	4.3	29.0	3.5	24.0	101.0	30.6
4	Stinkweed	34.3	7.6	22.0	1.8	5.4	35.2	28.2
5	Lamb's-quarters	35.9	6.0	16.7	0.9	2.5	17.6	20.7
6	Wild buckwheat	34.7	6.9	20.0	0.5	1.5	6.6	19.1
7	Canada thistle	29.2	3.5	12.1	0.7	2.3	16.0	14.7
8	Wild oats	23.1	4.0	17.5	0.4	1.7	5.2	12.3
9	Narrow-leaved hawk's-beard	19.4	4.3	21.9	0.4	1.9	10.6	11.7
10	Pineappleweed	8.2	2.6	31.3	0.8	9.2	32.4	9.7
11	Dandelion	19.9	3.3	16.7	0.2	0.9	2.2	9.4
12	Quack grass	17.2	2.2	12.8	0.4	2.4	7.0	9.0
13	Clover species	19.9	2.9	14.5	0.2	0.9	2.4	8.9
14	Wheat	17.4	1.8	10.4	0.4	2.0	8.6	8.1
15	Hemp-nettle	18.3	1.9	10.4	0.2	1.1	4.0	7.4
16	Shepherd's-purse	17.0	1.7	10.1	0.1	0.6	1.8	6.4
17	Pale smartweed	12.0	1.1	8.9	0.1	0.6	1.4	4.3
18	Perennial sow-thistle	8.1	0.7	8.6	0.1	0.8	1.0	3.0
19	Rough cinquefoil	5.7	0.9	15.0	< 0.1	0.8	0.8	2.5
20	Bluebur	5.7	0.7	11.8	< 0.1	0.7	0.8	2.3
21	Alfalfa	4.8	0.8	16.3	< 0.1	0.7	1.0	2.2
22	Common groundsel	2.4	0.2	10.0	0.2	8.8	8.8	2.2
23	Purple vetchling	5.8	0.4	6.9	< 0.1	0.6	0.8	1.9
24	Foxtail barley	4.2	0.5	12.5	0.1	1.2	1.8	1.8
25	Chickweed	4.5	0.3	7.7	0.1	1.4	2.4	1.8
26	Yellow sweet-clover	4.2	0.5	12.5	< 0.1	0.6	0.8	1.7
27	Rose species	3.7	0.2	5.0	< 0.1	0.2	0.2	1.0
28	Spear-leaved goosefoot	2.1	0.3	15.0	< 0.1	1.2	1.2	1.0
29	Red fescue	3.4	0.2	5.0	< 0.1	0.2	0.2	1.0
30	Barley	2.7	0.1	5.0	< 0.1	0.2	0.2	0.8
31	Henbit	2.3	0.1	5.0	< 0.1	0.2	0.2	0.6
32	Tartary buckwheat	2.1	0.1	5.0	< 0.1	0.2	0.2	0.6
33	Golden corydalis	2.1	0.1	5.0	< 0.1	0.2	0.2	0.6
34	Dock species	2.1	0.1	5.0	< 0.1	0.2	0.2	0.6

Field Survey Summary Tables – North Region Annual Crops

Table 112. 2010 annual crops in the North Region (359 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	50.9	16.0	31.4	1.7	3.3	28.2	34.8
2	Canada thistle	42.6	7.9	18.6	0.7	1.7	10.0	20.5
3	Canola	22.4	6.8	30.3	1.1	5.1	85.4	17.2
4	Chickweed	16.7	4.8	29.0	1.6	9.6	174.0	16.5
5	Perennial sow-thistle	19.2	4.6	23.8	1.0	5.4	189.4	13.9
6	Cleavers	18.4	4.6	25.0	1.0	5.6	147.0	13.7
7	Dandelion	25.0	5.5	22.1	0.6	2.2	29.0	13.6
8	Spiny annual sow-thistle	12.8	5.1	39.8	1.1	9.0	76.2	13.5
9	Wild oats	17.3	4.8	27.7	0.9	4.9	32.8	12.7
10	Lamb's-quarters	19.2	4.2	21.8	0.8	4.2	67.2	12.4
11	Corn spurry	3.5	1.5	42.1	1.6	47.1	362.0	10.6
12	Stinkweed	10.7	3.5	33.1	0.7	6.6	32.8	9.3
13	Shepherd's-purse	13.8	3.6	26.0	0.5	3.7	29.8	9.1
14	Quack grass	14.1	3.3	23.3	0.5	3.4	31.6	8.7
15	Hemp-nettle	14.8	3.1	21.0	0.4	3.0	33.2	8.4
16	Narrow-leaved hawk's-beard	15.5	3.1	20.3	0.3	2.2	19.2	8.1
17	Field horsetail	11.3	1.9	16.9	0.3	3.0	17.0	6.0
18	Green foxtail	8.0	2.0	24.4	0.4	5.0	90.0	5.7
19	Stork's-bill	8.6	2.1	24.1	0.3	3.4	29.2	5.4
20	Wheat	7.6	1.8	23.2	0.2	3.0	28.8	4.5
21	Tartary buckwheat	6.9	2.0	29.8	0.2	2.6	11.8	4.3
22	Pale smartweed	7.6	1.5	20.1	0.2	2.0	28.2	3.9
23	Western marsh cudweed	2.5	0.7	27.5	0.5	21.2	76.0	3.9
24	Scentless chamomile	2.9	1.0	35.6	0.2	8.6	69.2	2.9
25	Clover species	3.5	1.1	30.5	0.2	6.1	19.8	2.8
26	Common groundsel	4.2	0.8	18.1	0.2	4.2	35.0	2.6
27	Barley	3.2	1.1	33.9	0.1	4.3	14.4	2.5
28	Redroot pigweed	5.7	0.8	14.2	0.1	1.5	15.0	2.5
29	Bluebur	3.2	0.5	14.9	0.1	4.0	18.8	1.8
30	Foxtail barley	3.2	0.7	20.3	0.1	2.3	8.0	1.7
31	Povertyweed	2.7	0.4	15.9	0.1	4.9	20.0	1.7
32	Slough grass	0.9	0.2	23.3	0.2	25.2	74.2	1.5
33	Pineappleweed	4.0	0.4	11.1	< 0.1	1.1	3.8	1.5
34	Alfalfa	1.7	0.5	31.6	0.1	4.8	25.4	1.3
35	Oats	1.6	0.5	30.4	0.1	6.0	12.2	1.3
36	Broad-leaved plantain	3.5	0.4	10.4	< 0.1	0.6	2.0	1.2
37	Field bindweed	1.6	0.6	35.5	0.1	3.3	7.6	1.1
38	Flixweed	2.5	0.3	12.7	< 0.1	0.6	1.2	0.9
39	Ball mustard	1.5	0.3	22.9	< 0.1	3.0	7.4	0.9
40	White cockle	1.8	0.3	18.7	< 0.1	1.4	6.8	0.8
41	Pasture sage	1.3	0.3	23.5	< 0.1	3.6	6.2	0.8
42	Pygmyflower	0.8	0.4	45.0	0.1	6.2	11.6	0.8
43	Downy brome	1.0	0.2	25.0	0.1	5.4	14.6	0.7
44	Dock species	1.1	0.2	20.7	< 0.1	3.8	14.0	0.7
45	Thyme-leaved spurge	0.4	0.3	80.0	0.1	15.0	15.0	0.7
46	Black medick	0.8	0.3	37.5	< 0.1	6.5	11.8	0.7
47	Round-leaved mallow	0.9	0.3	27.2	< 0.1	2.7	6.0	0.6
48	False ragweed	0.7	0.3	47.3	< 0.1	2.2	3.2	0.6
49	Canada fleabane	0.7	0.2	38.1	< 0.1	3.5	4.0	0.5
50	Field mint	0.5	0.1	21.3	< 0.1	9.2	16.2	0.5
51	Yellow toadflax	1.2	0.1	7.5	< 0.1	2.4	4.6	0.5
52	Rough cinquefoil	0.9	0.2	21.8	< 0.1	2.1	7.4	0.5

(Table continued on next page)

Table 112. 2010 annual crops in the North Region (359 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Small-seeded false flax	1.2	0.1	10.0	< 0.1	1.2	2.0	0.4
54	Kochia	1.1	0.1	11.5	< 0.1	0.7	0.8	0.4
55	Wild mustard	0.8	0.2	19.1	< 0.1	1.5	5.6	0.4
56	Night-flowering catchfly	0.5	0.1	27.2	< 0.1	5.1	8.6	0.4
57	Prostrate knotweed	1.1	0.1	9.2	< 0.1	0.5	0.8	0.4
58	Henbit	0.9	0.1	14.1	< 0.1	0.9	2.2	0.3
59	Narrow-leaved milk-vetch	0.2	0.1	50.0	< 0.1	11.6	11.6	0.3
60	Borage	0.3	0.1	45.0	< 0.1	4.6	4.6	0.3
61	Orchard grass	0.6	0.1	15.9	< 0.1	0.6	0.8	0.2
62	Wild chamomile	0.2	0.1	45.0	< 0.1	6.2	6.2	0.2
63	Showy milkweed	0.5	0.1	17.5	< 0.1	1.1	1.4	0.2
64	Prairie sage	0.7	0.1	7.5	< 0.1	0.4	0.6	0.2
65	Wood whitlow-grass	0.5	0.1	17.5	< 0.1	1.1	1.4	0.2
66	American vetch	0.7	< 0.1	6.3	< 0.1	0.3	0.6	0.2
67	Nuttall's alkali grass	0.2	< 0.1	5.0	< 0.1	9.2	9.2	0.2
68	Cow cockle	0.5	0.1	9.6	< 0.1	0.6	1.0	0.2
69	Yellow sweet-clover	0.5	< 0.1	7.4	< 0.1	0.8	1.4	0.2
70	Common burdock	0.5	< 0.1	7.5	< 0.1	0.3	0.4	0.2
71	Persian dandelion	0.3	0.1	20.0	< 0.1	2.0	2.0	0.1
72	Smooth brome	0.4	< 0.1	8.0	< 0.1	0.3	0.4	0.1
73	Wormseed mustard	0.4	< 0.1	7.1	< 0.1	0.3	0.4	0.1
74	Golden corydalis	0.2	< 0.1	20.0	< 0.1	2.6	2.6	0.1
75	Spear-leaved goosefoot	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
76	Dog mustard	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
77	Purple vetchling	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
78	Common yarrow	0.2	< 0.1	10.0	< 0.1	0.8	0.8	0.1
79	Barnyard grass	0.3	< 0.1	5.0	< 0.1	0.6	0.6	0.1
80	Purslane speedwell	0.2	< 0.1	10.0	< 0.1	0.6	0.6	0.1
81	Western snowberry	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
82	Tall buttercup	0.2	< 0.1	10.0	< 0.1	1.2	1.2	0.1
83	Slender wheat grass	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
84	Biennial wormwood	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
85	Wild tomato	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
86	Cream-colored vetchling	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
87	Poplar species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
88	Cicer milk-vetch	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
89	Goldenrod species	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
90	Caraway	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
91	Marsh yellow cress	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
92	Mouse-eared chickweed	0.2	< 0.1	5.0	< 0.1	0.2	0.2	< 0.1

Field Survey Summary Tables – North Region Cereal Crops

Table 113. 2010 cereal crops in the North Region (227 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	54.0	18.2	33.7	1.9	3.5	28.2	36.1
2	Canada thistle	44.7	8.6	19.3	0.8	1.8	10.0	21.0
3	Canola	29.0	8.9	30.6	1.4	4.7	44.4	20.2
4	Chickweed	17.8	5.9	33.1	2.2	12.3	174.0	18.8
5	Spiny annual sow-thistle	15.5	6.9	44.3	1.6	10.3	76.2	16.6
6	Dandelion	26.6	6.7	25.2	0.8	2.8	29.0	15.0
7	Cleavers	18.5	5.0	26.9	1.4	7.4	147.0	14.6
8	Corn spurry	4.7	2.3	48.4	2.6	55.0	362.0	14.5
9	Perennial sow-thistle	17.1	3.8	22.4	1.1	6.6	189.4	12.1
10	Lamb's-quarters	16.9	4.1	24.0	1.0	5.7	67.2	11.5
11	Hemp-nettle	17.9	4.0	22.2	0.6	3.5	33.2	10.2
12	Wild oats	14.9	4.0	26.9	0.7	4.4	22.6	9.7
13	Stinkweed	10.3	3.6	35.1	0.8	7.8	32.8	9.0
14	Shepherd's-purse	13.4	3.2	23.7	0.4	2.9	29.8	7.5
15	Green foxtail	11.0	2.7	24.7	0.6	5.4	90.0	7.5
16	Quack grass	13.1	2.4	18.1	0.4	3.1	31.6	6.8
17	Narrow-leaved hawk's-beard	12.9	2.2	16.7	0.2	1.7	19.2	5.7
18	Stork's-bill	10.3	2.5	24.6	0.3	2.7	19.6	5.7
19	Field horsetail	10.5	1.7	16.1	0.4	3.5	16.2	5.4
20	Pale smartweed	9.0	1.6	18.2	0.2	2.1	28.2	4.2
21	Clover species	3.3	1.4	42.8	0.3	9.2	19.8	3.3
22	Tartary buckwheat	5.3	1.6	30.6	0.1	2.3	9.6	3.1
23	Common groundsel	4.3	0.9	20.6	0.3	5.8	35.0	2.8
24	Scentless chamomile	1.4	0.7	52.2	0.3	21.5	69.2	2.3
25	Redroot pigweed	5.4	0.8	14.3	0.1	1.5	15.0	2.2
26	Western marsh cudweed	1.9	0.4	21.0	0.3	15.1	56.2	2.1
27	Foxtail barley	3.6	0.8	23.9	0.1	2.8	8.0	2.0
28	Slough grass	0.9	0.3	27.5	0.3	37.3	74.2	1.9
29	Broad-leaved plantain	5.5	0.6	10.4	< 0.1	0.6	2.0	1.9
30	Alfalfa	1.9	0.7	37.4	0.1	6.2	25.4	1.5
31	Field bindweed	1.6	0.7	45.9	0.1	4.8	7.6	1.3
32	Pineappleweed	3.9	0.4	9.3	< 0.1	0.7	1.8	1.3
33	Oats	1.7	0.5	30.7	0.1	5.1	9.8	1.2
34	Pasture sage	2.0	0.5	23.5	0.1	3.6	6.2	1.2
35	Wheat	2.0	0.5	24.9	< 0.1	1.9	4.8	1.1
36	Dock species	1.8	0.4	20.7	0.1	3.8	14.0	1.0
37	Black medick	0.8	0.4	48.4	0.1	9.4	11.8	0.8
38	Ball mustard	1.5	0.3	23.0	< 0.1	2.2	5.4	0.8
39	Round-leaved mallow	1.1	0.4	34.9	< 0.1	3.4	6.0	0.7
40	Canada fleabane	1.0	0.4	38.1	< 0.1	3.5	4.0	0.7
41	Yellow toadflax	1.8	0.1	7.5	< 0.1	2.4	4.6	0.7
42	Barley	0.9	0.4	48.7	< 0.1	3.6	5.6	0.7
43	Rough cinquefoil	1.3	0.3	21.8	< 0.1	2.1	7.4	0.7
44	Bluebur	1.8	0.1	8.2	< 0.1	1.5	5.8	0.6
45	White cockle	2.0	0.2	9.1	< 0.1	0.5	0.8	0.6
46	Flixweed	1.9	0.2	10.1	< 0.1	0.5	1.2	0.6
47	Field mint	0.5	0.2	35.0	0.1	16.2	16.2	0.6
48	Night-flowering catchfly	0.8	0.2	27.2	< 0.1	5.1	8.6	0.6
49	Small-seeded false flax	1.4	0.2	11.4	< 0.1	1.3	2.0	0.5
50	Downy brome	0.8	0.1	17.5	0.1	7.4	14.6	0.5
51	Henbit	1.4	0.2	14.1	< 0.1	0.9	2.2	0.5
52	Narrow-leaved milk-vetch	0.4	0.2	50.0	< 0.1	11.6	11.6	0.5

(Table continued on next page)

Table 113. 2010 cereal crops in the North Region (227 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Wild mustard	0.8	0.2	24.2	< 0.1	2.0	5.6	0.4
54	Kochia	1.3	0.1	10.0	< 0.1	0.7	0.8	0.4
55	Prostrate knotweed	1.3	0.1	9.0	< 0.1	0.5	0.8	0.4
56	Borage	0.5	0.2	45.0	< 0.1	4.6	4.6	0.4
57	Showy milkweed	0.8	0.1	17.5	< 0.1	1.1	1.4	0.3
58	Wild chamomile	0.4	0.2	45.0	< 0.1	6.2	6.2	0.3
59	Prairie sage	1.1	0.1	7.5	< 0.1	0.4	0.6	0.3
60	Wood whitlow-grass	0.8	0.1	17.5	< 0.1	1.1	1.4	0.3
61	American vetch	1.0	0.1	6.3	< 0.1	0.3	0.6	0.3
62	Pygmyflower	0.6	0.1	20.0	< 0.1	0.8	0.8	0.3
63	Povertyweed	0.8	< 0.1	5.0	< 0.1	1.8	3.4	0.3
64	Nuttall's alkali grass	0.4	< 0.1	5.0	< 0.1	9.2	9.2	0.3
65	Orchard grass	0.6	0.1	20.0	< 0.1	0.8	0.8	0.2
66	Yellow sweet-clover	0.7	0.1	7.4	< 0.1	0.8	1.4	0.2
67	Persian darnel	0.5	0.1	20.0	< 0.1	2.0	2.0	0.2
68	Smooth brome	0.6	0.1	8.0	< 0.1	0.3	0.4	0.2
69	False ragweed	0.4	0.1	25.0	< 0.1	1.4	1.4	0.2
70	Wormseed mustard	0.6	< 0.1	7.1	< 0.1	0.3	0.4	0.2
71	Golden corydalis	0.3	0.1	20.0	< 0.1	2.6	2.6	0.2
72	Spear-leaved goosefoot	0.6	< 0.1	5.0	< 0.1	0.4	0.4	0.2
73	Dog mustard	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
74	Purple vetchling	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
75	Barnyard grass	0.5	< 0.1	5.0	< 0.1	0.6	0.6	0.1
76	Common burdock	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
77	Western snowberry	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
78	Slender wheat grass	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
79	Cow cockle	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
80	Tall buttercup	0.3	< 0.1	10.0	< 0.1	1.2	1.2	0.1
81	Biennial wormwood	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
82	Wild tomato	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
83	Poplar species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
84	Cicer milk-vetch	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
85	Goldenrod species	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
86	Marsh yellow cress	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
87	Mouse-eared chickweed	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Field Survey Summary Tables – North Region Spring Wheat

Table 114. 2010 spring wheat fields in the North Region (113 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	54.0	17.9	33.2	1.9	3.4	28.2	41.8
2	Canola	36.8	9.8	26.7	1.4	3.7	37.0	26.7
3	Canada thistle	43.1	8.3	19.2	0.8	2.0	10.0	23.6
4	Cleavers	18.2	4.6	25.3	1.9	10.2	147.0	19.8
5	Spiny annual sow-thistle	13.8	6.4	46.1	1.7	12.4	76.2	19.7
6	Perennial sow-thistle	16.4	4.2	25.5	1.7	10.6	189.4	18.2
7	Chickweed	11.9	4.1	34.6	0.7	5.8	19.8	11.0
8	Dandelion	21.7	3.8	17.4	0.3	1.4	8.4	10.8
9	Shepherd's-purse	12.6	3.4	27.1	0.5	4.1	29.8	9.5
10	Quack grass	15.4	3.1	19.9	0.5	3.0	25.0	9.5
11	Wild oats	12.7	2.9	23.2	0.6	4.3	22.6	9.2
12	Field horsetail	11.2	2.4	21.5	0.5	4.6	16.2	8.1
13	Lamb's-quarters	15.6	2.4	15.7	0.3	1.7	17.0	7.7
14	Hemp-nettle	13.4	2.4	18.1	0.3	2.1	16.6	7.3
15	Narrow-leaved hawk's-beard	13.8	2.2	15.6	0.2	1.7	19.2	6.8
16	Green foxtail	9.4	2.4	25.3	0.3	2.9	12.6	6.3
17	Common groundsel	6.0	1.3	22.0	0.5	7.6	35.0	5.4
18	Tartary buckwheat	8.3	2.2	26.8	0.2	1.9	9.6	5.2
19	Slough grass	1.8	0.5	27.5	0.7	37.3	74.2	4.7
20	Western marsh cudweed	3.0	0.6	21.2	0.5	15.9	56.2	4.1
21	Redroot pigweed	6.6	1.2	17.4	0.1	2.1	15.0	3.6
22	Stork's-bill	3.9	1.0	26.4	0.2	5.0	19.6	3.1
23	Corn spurry	2.9	0.8	26.9	0.2	6.0	12.4	2.5
24	Dock species	3.5	0.7	20.7	0.1	3.8	14.0	2.3
25	Stinkweed	4.8	0.6	12.6	0.1	1.7	8.6	2.3
26	Foxtail barley	3.3	0.9	26.6	0.1	2.8	7.2	2.2
27	Pale smartweed	3.8	0.8	20.3	0.1	1.4	5.0	2.0
28	Wheat	2.2	0.8	36.9	0.1	3.0	4.8	1.7
29	Oats	1.8	0.6	33.4	0.1	6.5	9.8	1.7
30	Canada fleabane	2.0	0.8	38.1	0.1	3.5	4.0	1.6
31	Field bindweed	2.0	0.6	29.9	0.1	3.2	5.0	1.4
32	Field mint	0.9	0.3	35.0	0.1	16.2	16.2	1.4
33	Broad-leaved plantain	3.8	0.3	8.0	< 0.1	0.4	0.6	1.3
34	Downy brome	1.5	0.3	17.5	0.1	7.4	14.6	1.3
35	Pineappleweed	3.5	0.3	8.2	< 0.1	0.6	1.8	1.3
36	Bluebur	2.7	0.2	7.7	< 0.1	1.8	5.8	1.2
37	Night-flowering catchfly	0.9	0.4	40.0	0.1	8.6	8.6	1.0
38	Yellow toadflax	1.6	0.2	10.4	0.1	4.3	4.6	1.0
39	Borage	0.9	0.4	45.0	< 0.1	4.6	4.6	0.8
40	Black medick	0.7	0.1	20.0	0.1	11.8	11.8	0.8
41	Scentless chamomile	0.7	0.4	60.0	< 0.1	4.0	4.0	0.8
42	Wild chamomile	0.7	0.3	45.0	< 0.1	6.2	6.2	0.8
43	Showy milkweed	1.6	0.3	17.5	< 0.1	1.1	1.4	0.8
44	Wood whitlow-grass	1.5	0.3	17.5	< 0.1	1.1	1.4	0.7
45	Small-seeded false flax	1.9	0.1	5.0	< 0.1	1.0	2.0	0.7
46	Pygmyflower	1.2	0.2	20.0	< 0.1	0.8	0.8	0.6
47	Povertyweed	1.5	0.1	5.0	< 0.1	1.8	3.4	0.6
48	Flixweed	1.6	0.1	7.7	< 0.1	0.4	0.6	0.6
49	Henbit	0.8	0.2	30.0	< 0.1	2.2	2.2	0.5
50	Barley	0.9	0.2	25.0	< 0.1	1.8	1.8	0.5
51	Kochia	1.4	0.1	10.0	< 0.1	0.7	0.8	0.5
52	American vetch	1.5	0.1	5.0	< 0.1	0.2	0.2	0.4

(Table continued on next page)

Table 114. 2010 spring wheat fields in the North Region (113 fields) *(continued)*

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	False ragweed	0.7	0.2	25.0	< 0.1	1.4	1.4	0.4
54	Prairie sage	1.1	0.1	10.0	< 0.1	0.6	0.6	0.4
55	Prostrate knotweed	0.9	0.1	10.0	< 0.1	0.4	0.4	0.3
56	Cow cockle	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
57	Biennial wormwood	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.2
58	Rough cinquefoil	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
59	Wild tomato	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
60	Cicer milk-vetch	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
61	Yellow sweet-clover	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
62	White cockle	0.7	< 0.1	5.0	< 0.1	0.8	0.8	0.2

Field Survey Summary Tables – North Region Barley

Table 115. 2010 barley fields in the North Region (80 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	53.0	16.9	31.9	1.7	3.2	27.8	33.9
2	Chickweed	27.1	7.7	28.3	4.4	16.2	174.0	30.8
3	Corn spurry	4.6	1.9	40.2	6.0	128.8	362.0	26.7
4	Canada thistle	46.8	8.2	17.5	0.8	1.6	6.2	20.9
5	Spiny annual sow-thistle	19.4	7.4	38.0	1.5	7.9	37.8	17.2
6	Cleavers	23.4	7.3	31.1	1.2	5.1	34.8	16.6
7	Canola	19.1	7.9	41.5	1.3	6.6	30.0	16.5
8	Dandelion	24.9	6.9	27.6	0.9	3.7	29.0	15.5
9	Wild oats	19.7	6.0	30.2	0.8	4.2	12.8	13.1
10	Green foxtail	15.3	4.0	26.2	1.3	8.4	90.0	12.2
11	Stork's-bill	18.9	5.3	28.0	0.5	2.5	15.4	11.0
12	Perennial sow-thistle	18.6	4.3	23.1	0.6	3.4	24.4	10.6
13	Hemp-nettle	13.4	2.0	15.0	0.2	1.5	3.2	5.6
14	Pale smartweed	11.9	2.2	18.9	0.2	1.6	5.2	5.4
15	Scentless chamomile	3.0	1.5	49.3	0.8	28.1	69.2	5.4
16	Stinkweed	7.6	2.1	27.4	0.4	5.8	25.8	5.4
17	Narrow-leaved hawk's-beard	10.5	2.1	19.6	0.2	1.8	9.4	5.0
18	Lamb's-quarters	12.8	1.4	11.2	0.1	1.1	3.6	4.7
19	Quack grass	11.2	1.6	14.3	0.1	1.3	3.4	4.6
20	Shepherd's-purse	10.3	1.4	14.0	0.1	1.0	2.6	4.0
21	Field horsetail	9.1	1.0	11.0	0.3	2.8	7.4	4.0
22	Alfalfa	3.7	1.5	40.2	0.3	7.3	25.4	3.3
23	Round-leaved mallow	3.2	1.1	34.9	0.1	3.4	6.0	2.2
24	Pasture sage	4.4	0.8	17.4	0.1	2.7	5.8	2.1
25	Foxtail barley	3.5	0.8	23.5	0.1	3.9	8.0	2.1
26	Redroot pigweed	5.7	0.5	8.9	< 0.1	0.4	0.8	1.8
27	Black medick	1.2	0.9	75.0	0.1	7.2	7.2	1.4
28	Oats	2.3	0.6	27.5	0.1	3.5	6.8	1.4
29	Tartary buckwheat	2.0	0.6	30.0	< 0.1	2.3	4.0	1.2
30	Broad-leaved plantain	3.9	0.3	6.5	< 0.1	0.4	0.8	1.1
31	Clover species	1.6	0.3	20.0	0.1	5.0	5.0	1.0
32	Western marsh cudweed	1.1	0.2	20.0	0.1	11.6	11.6	1.0
33	Pineappleweed	2.5	0.3	12.7	< 0.1	1.1	1.6	0.9
34	Wheat	2.7	0.3	10.0	< 0.1	0.5	0.8	0.9
35	Common groundsel	2.3	0.3	12.5	< 0.1	0.6	0.8	0.8
36	Nuttall's alkali grass	1.1	0.1	5.0	0.1	9.2	9.2	0.7
37	Small-seeded false flax	1.3	0.3	25.0	< 0.1	2.0	2.0	0.7
38	Orchard grass	1.6	0.3	20.0	< 0.1	0.8	0.8	0.7
39	Persian darnel	1.3	0.3	20.0	< 0.1	2.0	2.0	0.6
40	Wild mustard	1.6	0.2	10.0	< 0.1	0.4	0.4	0.5
41	Kochia	1.6	0.2	10.0	< 0.1	0.6	0.6	0.5
42	Yellow toadflax	1.6	0.1	5.0	< 0.1	0.8	0.8	0.5
43	Spear-leaved goosefoot	1.6	0.1	5.0	< 0.1	0.4	0.4	0.5
44	Dog mustard	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
45	Prairie sage	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
46	Purple vetchling	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
47	Flixweed	1.2	0.1	10.0	< 0.1	0.4	0.4	0.4
48	Barnyard grass	1.3	0.1	5.0	< 0.1	0.6	0.6	0.4
49	Ball mustard	1.1	0.1	10.0	< 0.1	0.6	0.6	0.4
50	Smooth brome	1.1	0.1	10.0	< 0.1	0.4	0.4	0.4
51	Common burdock	1.1	0.1	10.0	< 0.1	0.4	0.4	0.4
52	Henbit	1.1	0.1	10.0	< 0.1	0.4	0.4	0.4

(Table continued on next page)

Table 115. 2010 barley fields in the North Region (80 fields) (continued)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Yellow sweet-clover	1.0	0.1	10.0	< 0.1	1.4	1.4	0.4
54	Slender wheat grass	1.3	0.1	5.0	< 0.1	0.2	0.2	0.4
55	Bluebur	1.1	0.1	10.0	< 0.1	0.4	0.4	0.4
56	Poplar species	1.1	0.1	5.0	< 0.1	0.2	0.2	0.3

Field Survey Summary Tables – North Region Oat

Table 116. 2010 oat fields in the North Region (24 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Dandelion	50.7	20.9	41.3	2.4	4.8	24.8	33.4
2	Canola	35.2	11.7	33.2	2.4	6.9	44.4	24.6
3	Wild buckwheat	33.7	13.4	39.8	1.7	4.9	14.8	22.0
4	Hemp-nettle	35.1	11.4	32.6	1.9	5.3	33.2	21.9
5	Lamb's-quarters	23.6	5.8	24.7	2.2	9.3	67.2	17.6
6	Clover species	16.8	8.6	51.5	2.0	11.9	19.8	17.2
7	Stinkweed	23.3	8.9	38.4	1.6	6.8	27.0	16.9
8	Canada thistle	35.9	9.5	26.4	0.8	2.2	6.2	16.3
9	Shepherd's-purse	18.8	8.7	46.1	0.9	4.5	7.2	12.8
10	Corn spurry	6.1	4.9	80.0	1.5	24.6	24.6	10.6
11	Spiny annual sow-thistle	7.0	4.1	58.2	1.3	18.5	30.4	9.4
12	Wild oats	13.8	4.2	30.4	0.8	5.7	12.8	8.6
13	Field bindweed	6.1	4.6	75.0	0.5	7.6	7.6	6.1
14	Perennial sow-thistle	22.1	1.9	8.7	0.1	0.5	0.8	5.9
15	Narrow-leaved hawk's-beard	12.9	2.6	20.1	0.3	2.1	3.4	5.3
16	Rough cinquefoil	10.2	2.9	28.7	0.3	2.9	7.4	5.1
17	Chickweed	8.2	3.1	37.3	0.3	3.6	5.8	4.8
18	Broad-leaved plantain	12.5	2.4	19.4	0.2	1.3	2.0	4.7
19	Pale smartweed	12.5	1.9	15.4	0.2	1.3	3.6	4.3
20	Pasture sage	6.0	2.4	40.0	0.4	6.2	6.2	4.2
21	Narrow-leaved milk-vetch	4.2	2.1	50.0	0.5	11.6	11.6	4.2
22	Barley	4.5	3.4	75.0	0.3	5.6	5.6	4.1
23	Pineappleweed	13.9	1.2	8.7	0.1	0.4	0.6	3.7
24	Tartary buckwheat	3.7	3.0	80.0	0.2	6.6	6.6	3.7
25	Alfalfa	6.5	2.1	31.4	0.2	3.8	6.0	3.6
26	Quack grass	10.2	1.5	15.0	0.1	1.3	1.8	3.5
27	Cleavers	8.2	1.0	12.3	0.1	0.8	1.0	2.5
28	Foxtail barley	7.2	1.3	17.7	0.1	0.9	1.4	2.5
29	Wild mustard	2.8	1.5	55.0	0.2	5.6	5.6	2.2
30	Stork's-bill	7.4	0.7	10.0	< 0.1	0.6	0.6	2.1
31	Flixweed	6.5	0.9	13.6	< 0.1	0.6	1.2	2.0
32	Common groundsel	4.5	1.1	25.0	0.1	2.2	2.2	2.0
33	Field horsetail	6.1	0.6	10.0	0.1	1.4	1.4	1.9
34	White cockle	6.1	0.3	5.0	< 0.1	0.2	0.2	1.4
35	Ball mustard	6.1	0.3	5.0	< 0.1	0.2	0.2	1.4
36	Henbit	6.0	0.3	5.0	< 0.1	0.2	0.2	1.4
37	Tall buttercup	3.7	0.4	10.0	< 0.1	1.2	1.2	1.1
38	Night-flowering catchfly	3.7	0.4	10.0	< 0.1	0.4	0.4	1.0
39	Goldenrod species	4.2	0.2	5.0	< 0.1	0.2	0.2	1.0
40	Marsh yellow cress	3.7	0.2	5.0	< 0.1	0.2	0.2	0.9
41	Wormseed mustard	3.7	0.2	5.0	< 0.1	0.2	0.2	0.9
42	Smooth brome	2.8	0.1	5.0	< 0.1	0.2	0.2	0.6
43	Mouse-eared chickweed	2.8	0.1	5.0	< 0.1	0.2	0.2	0.6

Field Survey Summary Tables – North Region Broad-Leaved Annual Crops

Table 117. 2010 broad-leaved annual crops in the North Region (131 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	45.6	12.1	26.6	1.3	2.9	20.0	32.3
2	Canada thistle	39.1	6.7	17.2	0.5	1.3	6.8	19.5
3	Wild oats	21.1	6.0	28.6	1.2	5.6	32.8	19.5
4	Perennial sow-thistle	22.9	5.9	25.7	0.9	3.8	69.0	17.6
5	Lamb's-quarters	23.5	4.5	19.1	0.5	2.3	18.2	13.8
6	Narrow-leaved hawk's-beard	20.0	4.9	24.5	0.6	2.8	17.2	13.6
7	Quack grass	16.1	4.9	30.8	0.6	3.9	24.2	13.2
8	Shepherd's-purse	14.7	4.4	29.7	0.7	5.0	27.6	13.0
9	Wheat	17.5	4.0	22.8	0.6	3.2	28.8	12.1
10	Cleavers	18.3	4.0	21.6	0.4	2.3	11.2	11.2
11	Canola	10.7	3.1	28.5	0.8	7.2	85.4	11.1
12	Chickweed	14.8	3.0	20.2	0.6	3.9	39.0	10.5
13	Dandelion	22.4	3.5	15.5	0.2	0.9	6.2	10.2
14	Stinkweed	11.4	3.4	29.9	0.5	4.7	21.4	9.9
15	Western marsh cudweed	3.4	1.2	33.9	0.9	27.3	76.0	8.7
16	Field horsetail	12.8	2.3	18.1	0.3	2.2	17.0	7.4
17	Tartary buckwheat	9.7	2.8	29.1	0.3	2.8	11.8	7.1
18	Barley	7.5	2.3	30.8	0.3	4.5	14.4	6.5
19	Spiny annual sow-thistle	7.9	1.9	24.0	0.4	4.5	29.2	6.3
20	Povertyweed	6.2	1.1	18.3	0.3	5.6	20.0	5.1
21	Stork's-bill	5.6	1.3	22.7	0.3	6.0	29.2	5.0
22	Hemp-nettle	9.3	1.6	17.1	0.1	1.3	3.4	4.6
23	Bluebur	5.7	1.1	18.6	0.3	5.4	18.8	4.6
24	Scentless chamomile	5.5	1.5	28.1	0.1	2.7	8.2	3.9
25	Pale smartweed	5.1	1.3	26.2	0.1	1.9	3.6	3.2
26	Redroot pigweed	6.3	0.9	13.9	0.1	1.5	4.6	3.0
27	Thyme-leaved spurge	1.1	0.9	80.0	0.2	15.0	15.0	2.4
28	Pineappleweed	4.1	0.6	14.2	0.1	1.7	3.8	2.1
29	Pygmyflower	1.1	0.8	70.0	0.1	11.6	11.6	2.0
30	Common groundsel	4.2	0.6	13.5	< 0.1	1.1	2.8	1.9
31	Clover species	3.9	0.5	12.1	0.1	1.5	3.2	1.8
32	Green foxtail	2.8	0.6	22.5	0.1	1.9	6.0	1.7
33	Flixweed	3.7	0.6	14.9	< 0.1	0.7	0.8	1.6
34	Oats	1.4	0.4	29.8	0.1	7.9	12.2	1.5
35	False ragweed	1.4	0.8	57.9	< 0.1	2.6	3.2	1.4
36	White cockle	1.4	0.6	42.9	0.1	3.8	6.8	1.3
37	Foxtail barley	2.6	0.3	11.8	< 0.1	1.1	1.4	1.1
38	Downy brome	1.4	0.4	32.5	< 0.1	3.3	5.2	1.1
39	Ball mustard	1.4	0.3	22.5	0.1	4.5	7.4	1.1
40	Field bindweed	1.6	0.3	17.5	< 0.1	0.7	0.8	0.7
41	Alfalfa	1.4	0.3	17.9	< 0.1	1.4	1.6	0.7
42	Corn spurry	1.4	0.1	5.0	< 0.1	1.1	2.4	0.5
43	Kochia	1.0	0.1	15.0	< 0.1	0.8	0.8	0.4
44	Slough grass	0.8	0.1	15.0	< 0.1	1.0	1.0	0.4
45	Cow cockle	0.7	0.1	15.0	< 0.1	1.0	1.0	0.3
46	Black medick	0.7	0.1	15.0	< 0.1	0.6	0.6	0.3
47	Wild mustard	0.8	0.1	10.0	< 0.1	0.4	0.4	0.3
48	Common yarrow	0.7	0.1	10.0	< 0.1	0.8	0.8	0.3
49	Purslane speedwell	0.7	0.1	10.0	< 0.1	0.6	0.6	0.3
50	Orchard grass	0.7	0.1	10.0	< 0.1	0.4	0.4	0.3
51	Prostrate knotweed	0.7	0.1	10.0	< 0.1	0.4	0.4	0.2
52	Field mint	0.7	< 0.1	5.0	< 0.1	1.0	1.0	0.2

(Table continued on next page)

Field Survey Summary Tables – North Region Broad-Leaved Annual Crops

Table 117. 2010 broad-leaved annual crops in the North Region (131 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Small-seeded false flax	0.7	< 0.1	5.0	< 0.1	0.8	0.8	0.2
54	Round-leaved mallow	0.7	< 0.1	5.0	< 0.1	0.8	0.8	0.2
55	Common burdock	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
56	Cream-colored vetchling	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2
57	Caraway	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 118. 2010 canola fields in the North Region (109 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	44.7	12.5	27.9	1.4	3.1	20.0	40.0
2	Canada thistle	33.6	5.5	16.5	0.4	1.2	5.4	19.5
3	Lamb's-quarters	23.7	4.6	19.3	0.6	2.5	18.2	17.3
4	Wild oats	19.4	4.4	22.8	0.6	3.2	14.8	16.2
5	Quack grass	16.1	4.7	29.2	0.6	3.8	24.2	15.6
6	Wheat	17.7	3.8	21.5	0.6	3.3	28.8	14.7
7	Perennial sow-thistle	18.0	4.7	26.0	0.3	1.6	6.6	13.1
8	Narrow-leaved hawk's-beard	15.4	3.6	23.6	0.5	3.1	17.2	12.8
9	Cleavers	16.9	3.8	22.3	0.4	2.3	11.2	12.7
10	Shepherd's-purse	12.4	2.9	23.2	0.6	4.5	27.6	11.9
11	Western marsh cudweed	3.4	1.2	34.9	1.0	30.8	76.0	11.8
12	Stinkweed	9.9	3.3	32.9	0.5	4.7	21.4	10.9
13	Field horsetail	14.7	2.8	19.1	0.4	2.4	17.0	10.6
14	Dandelion	18.8	2.9	15.1	0.2	0.9	6.2	10.1
15	Chickweed	12.4	1.6	13.1	0.3	2.2	15.6	7.8
16	Stork's-bill	6.1	1.5	25.2	0.4	6.8	29.2	7.2
17	Barley	6.7	2.0	29.8	0.3	4.2	14.4	6.8
18	Bluebur	5.3	1.1	20.6	0.3	6.4	18.8	5.9
19	Hemp-nettle	7.3	1.6	21.6	0.1	1.4	3.4	4.8
20	Povertyweed	5.9	0.8	14.3	0.2	3.6	10.4	4.6
21	Tartary buckwheat	6.1	1.1	18.0	0.1	2.2	6.0	4.1
22	Scentless chamomile	3.4	1.2	36.3	0.1	4.3	8.2	3.7
23	Thyme-leaved spurge	1.4	1.1	80.0	0.2	15.0	15.0	3.6
24	Redroot pigweed	6.1	0.8	12.2	0.1	1.4	4.6	3.4
25	Pygmyflower	1.4	1.0	70.0	0.2	11.6	11.6	3.0
26	Canola	3.9	0.8	21.5	0.1	1.7	4.6	2.6
27	Green foxtail	3.4	0.8	22.5	0.1	1.9	6.0	2.5
28	Spiny annual sow-thistle	4.6	0.6	11.9	< 0.1	0.8	1.6	2.3
29	Oats	1.7	0.5	29.8	0.1	7.9	12.2	2.3
30	False ragweed	1.7	1.0	57.9	< 0.1	2.6	3.2	2.1
31	Flixweed	3.1	0.5	17.3	< 0.1	0.7	0.8	1.7
32	Ball mustard	1.7	0.4	22.5	0.1	4.5	7.4	1.6
33	Common groundsel	2.6	0.4	15.3	< 0.1	1.4	2.8	1.5
34	Pineappleweed	1.7	0.3	17.5	< 0.1	2.8	3.8	1.2
35	Field bindweed	2.0	0.3	17.5	< 0.1	0.7	0.8	1.1
36	Clover species	2.2	0.1	5.0	< 0.1	1.0	1.0	0.9
37	White cockle	1.0	0.3	30.0	< 0.1	1.6	1.6	0.8
38	Pale smartweed	2.0	0.2	7.5	< 0.1	0.3	0.4	0.8
39	Kochia	1.2	0.2	15.0	< 0.1	0.8	0.8	0.6
40	Alfalfa	1.0	0.2	20.0	< 0.1	1.2	1.2	0.6
41	Downy brome	0.8	0.2	25.0	< 0.1	1.4	1.4	0.6
42	Foxtail barley	1.2	0.1	10.0	< 0.1	0.8	0.8	0.6
43	Slough grass	1.0	0.1	15.0	< 0.1	1.0	1.0	0.5
44	Cow cockle	0.8	0.1	15.0	< 0.1	1.0	1.0	0.5
45	Black medick	0.9	0.1	15.0	< 0.1	0.6	0.6	0.4
46	Wild mustard	1.0	0.1	10.0	< 0.1	0.4	0.4	0.4
47	Purslane speedwell	0.8	0.1	10.0	< 0.1	0.6	0.6	0.4
48	Prostrate knotweed	0.8	0.1	10.0	< 0.1	0.4	0.4	0.4
49	Field mint	0.8	< 0.1	5.0	< 0.1	1.0	1.0	0.4
50	Corn spurry	1.0	< 0.1	5.0	< 0.1	0.2	0.2	0.3
51	Small-seeded false flax	0.9	< 0.1	5.0	< 0.1	0.8	0.8	0.3
52	Round-leaved mallow	0.8	< 0.1	5.0	< 0.1	0.8	0.8	0.3

(Table continued on next page)

Field Survey Summary Tables – North Region Canola

Table 118. 2010 canola fields in the North Region (109 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Caraway	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.3

Table 119. 2010 field pea fields in the North Region (22 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Canola	40.1	12.6	31.4	3.8	9.5	85.4	27.5
2	Perennial sow-thistle	44.0	11.1	25.2	3.4	7.8	69.0	25.8
3	Wild oats	28.2	13.0	45.9	3.6	12.9	32.8	25.4
4	Canada thistle	62.7	11.9	18.9	0.9	1.4	6.8	19.7
5	Wild buckwheat	49.7	10.6	21.3	0.9	1.8	9.6	17.0
6	Chickweed	24.9	8.8	35.4	1.9	7.4	39.0	15.8
7	Narrow-leaved hawk's-beard	40.1	10.5	26.1	0.9	2.3	5.8	15.5
8	Shepherd's-purse	24.5	10.7	43.7	1.4	5.9	16.6	15.3
9	Spiny annual sow-thistle	21.8	7.6	35.0	1.7	7.8	29.2	14.0
10	Tartary buckwheat	25.1	10.2	40.5	0.9	3.5	11.8	13.0
11	Dandelion	37.8	6.1	16.2	0.3	0.9	2.0	10.5
12	Quack grass	15.8	6.0	37.6	0.7	4.3	11.0	8.4
13	Cleavers	24.5	4.8	19.8	0.5	2.0	8.0	8.3
14	Pale smartweed	18.3	6.4	35.0	0.5	2.6	3.6	8.3
15	Stinkweed	17.7	4.0	22.7	0.9	4.8	11.4	8.2
16	Wheat	16.8	4.8	28.8	0.5	2.7	6.2	7.1
17	Lamb's-quarters	22.6	4.2	18.7	0.3	1.3	3.4	7.0
18	Barley	10.9	3.6	33.4	0.6	5.2	9.6	5.9
19	Povertyweed	7.2	2.3	32.5	0.9	12.6	20.0	5.9
20	Scentless chamomile	14.6	2.9	20.0	0.2	1.2	1.2	4.6
21	Hemp-nettle	17.7	1.6	9.1	0.2	1.0	1.6	4.2
22	Pineappleweed	14.5	1.8	12.5	0.2	1.2	2.8	3.9
23	Clover species	10.8	2.0	18.3	0.2	1.9	3.2	3.5
24	Western marsh cudweed	3.6	1.1	30.0	0.5	13.6	13.6	3.0
25	Common groundsel	10.9	1.3	11.6	0.1	0.8	1.6	2.7
26	White cockle	3.2	1.9	60.0	0.2	6.8	6.8	2.4
27	Foxtail barley	8.8	1.1	12.9	0.1	1.2	1.4	2.4
28	Redroot pigweed	7.2	1.4	20.0	0.1	1.6	3.0	2.4
29	Bluebur	7.2	0.9	12.5	0.2	2.3	4.0	2.2
30	Downy brome	3.6	1.4	40.0	0.2	5.2	5.2	2.1
31	Flixweed	6.4	0.6	10.0	< 0.1	0.6	0.6	1.5
32	Alfalfa	3.2	0.5	15.0	0.1	1.6	1.6	1.0
33	Field horsetail	4.9	0.2	5.0	< 0.1	0.2	0.2	0.9
34	Common yarrow	3.6	0.4	10.0	< 0.1	0.8	0.8	0.9
35	Corn spurry	3.2	0.2	5.0	0.1	2.4	2.4	0.9
36	Orchard grass	3.6	0.4	10.0	< 0.1	0.4	0.4	0.8
37	Common burdock	3.6	0.2	5.0	< 0.1	0.2	0.2	0.7
38	Stork's-bill	3.6	0.2	5.0	< 0.1	0.2	0.2	0.7
39	Cream-colored vetchling	3.6	0.2	5.0	< 0.1	0.2	0.2	0.7

Field Survey Summary Tables – North Region Perennial Crops

Table 120. 2010 perennial crops in the North Region (24 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Dandelion	85.1	65.6	77.1	17.1	20.1	50.4	144.5
2	Quack grass	18.4	10.1	55.1	1.7	9.2	16.6	19.7
3	Canada thistle	39.5	5.9	14.9	0.5	1.2	2.8	16.5
4	Common yarrow	12.9	5.6	43.7	1.8	14.2	25.4	15.3
5	Rough cinquefoil	21.6	4.8	22.1	0.6	2.7	3.8	11.6
6	Spiny annual sow-thistle	16.0	4.8	29.9	0.5	3.2	9.8	10.0
7	Perennial sow-thistle	21.5	2.8	12.8	0.2	1.1	3.8	8.6
8	Hemp-nettle	17.5	2.7	15.5	0.3	1.9	3.6	7.9
9	Wild buckwheat	22.4	1.9	8.6	0.1	0.4	1.0	7.5
10	Foxtail barley	21.1	1.4	6.5	0.1	0.6	0.8	6.8
11	Chickweed	11.0	2.4	21.9	0.3	3.0	7.8	6.0
12	Field horsetail	6.2	2.5	40.0	0.3	5.6	5.6	5.0
13	Canola	12.5	0.6	5.0	< 0.1	0.2	0.2	3.7
14	Lamb's-quarters	8.1	0.8	10.0	0.2	2.6	2.6	3.5
15	Narrow-leaved hawk's-beard	8.8	1.0	11.8	0.1	1.2	1.8	3.5
16	Goldenrod species	7.1	1.1	15.0	0.1	1.8	1.8	3.2
17	Cleavers	7.8	1.0	13.3	0.1	0.8	1.2	3.0
18	Stork's-bill	7.8	0.5	6.7	< 0.1	0.3	0.4	2.4
19	Shepherd's-purse	5.8	0.4	7.2	< 0.1	0.7	1.0	1.9
20	Stinkweed	6.2	0.3	5.0	< 0.1	0.4	0.4	1.9
21	Marsh hedge-nettle	6.2	0.3	5.0	< 0.1	0.2	0.2	1.8
22	Pineappleweed	5.8	0.3	5.0	< 0.1	0.2	0.2	1.7
23	Green foxtail	3.2	0.6	20.0	0.1	2.4	2.4	1.6
24	Biennial wormwood	3.2	0.2	5.0	0.1	4.0	4.0	1.4
25	Common pepper-grass	3.2	0.6	20.0	< 0.1	0.8	0.8	1.4
26	Prostrate knotweed	3.2	0.3	10.0	< 0.1	1.2	1.2	1.2
27	Rose species	3.1	0.2	5.0	< 0.1	1.2	1.2	1.0
28	Flixweed	3.2	0.2	5.0	< 0.1	0.8	0.8	1.0
29	Pygmyflower	3.1	0.2	5.0	< 0.1	0.6	0.6	1.0
30	Redroot pigweed	3.2	0.2	5.0	< 0.1	0.2	0.2	0.9
31	Wild oats	2.6	0.3	10.0	< 0.1	0.6	0.6	0.9
32	Broad-leaved plantain	2.6	0.3	10.0	< 0.1	0.6	0.6	0.9
33	Prostrate pigweed	3.1	0.2	5.0	< 0.1	0.2	0.2	0.9
34	Canada fleabane	2.6	0.3	10.0	< 0.1	0.4	0.4	0.9
35	Pasture sage	2.6	0.3	10.0	< 0.1	0.4	0.4	0.9

Field Survey Summary Tables – Central Region Annual Crops

Table 121. 2010 annual crops in the Central Region (282 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	59.9	21.6	36.1	3.1	5.1	72.8	42.3
2	Wild oats	24.1	8.5	35.3	4.8	19.9	184.0	29.7
3	Chickweed	20.8	8.1	38.8	2.3	11.1	111.4	19.6
4	Western marsh cudweed	5.1	2.0	38.5	4.3	83.5	709.8	18.3
5	Dandelion	33.4	6.7	20.0	0.5	1.6	15.0	14.8
6	Hemp-nettle	21.2	4.9	22.9	1.4	6.6	184.8	13.7
7	Canada thistle	34.3	5.0	14.5	0.5	1.4	16.2	13.3
8	Lamb's-quarters	20.2	4.1	20.5	1.4	7.1	328.8	13.0
9	Canola	24.3	5.9	24.0	0.6	2.4	16.2	12.3
10	Cleavers	18.2	4.8	26.6	0.8	4.4	62.8	10.9
11	Narrow-leaved hawk's-beard	16.1	4.2	26.1	0.9	5.6	148.2	10.2
12	Spiny annual sow-thistle	14.8	4.5	30.1	0.7	4.6	70.0	9.4
13	Shepherd's-purse	16.7	3.8	23.0	0.7	4.1	31.2	9.3
14	Green foxtail	8.3	3.2	38.8	1.2	14.6	186.0	8.9
15	Wheat	11.7	4.1	35.4	0.5	4.2	20.0	7.8
16	Stinkweed	15.9	2.6	16.4	0.4	2.4	38.4	7.0
17	Pale smartweed	8.5	1.9	22.8	0.7	8.7	151.0	6.1
18	Redroot pigweed	11.5	2.5	21.4	0.3	2.6	20.6	5.7
19	Perennial sow-thistle	10.8	2.4	22.4	0.3	2.7	31.2	5.4
20	Pineappleweed	5.0	1.4	28.9	0.4	7.8	56.6	3.7
21	Kochia	6.0	1.3	22.1	0.3	5.5	52.8	3.6
22	Quack grass	3.4	0.9	25.3	0.3	7.5	59.8	2.4
23	Flixweed	6.2	0.8	13.3	0.1	0.8	2.8	2.2
24	Field horsetail	5.4	0.7	13.2	0.1	1.7	11.0	2.1
25	Russian thistle	3.2	0.9	27.3	0.1	3.1	17.8	1.8
26	Barley	5.1	0.6	12.4	< 0.1	0.9	2.2	1.8
27	Henbit	2.5	0.6	24.2	0.2	7.6	47.0	1.8
28	Prostrate knotweed	4.4	0.7	14.9	0.1	1.6	4.4	1.7
29	Stork's-bill	4.3	0.6	13.3	0.1	1.4	9.2	1.6
30	Prostrate pigweed	2.3	0.8	34.5	0.1	3.9	9.6	1.5
31	Foxtail barley	4.4	0.4	9.7	0.1	1.2	13.4	1.5
32	Wild mustard	3.0	0.6	21.5	0.1	2.4	10.8	1.4
33	Alfalfa	2.8	0.5	19.5	< 0.1	1.6	7.2	1.2
34	Round-leaved mallow	2.4	0.5	19.6	0.1	2.3	7.8	1.1
35	Clover species	2.1	0.4	21.9	< 0.1	1.9	10.4	1.0
36	Field peas	2.5	0.4	15.2	< 0.1	0.9	3.6	0.9
37	Corn spurry	2.4	0.3	14.3	< 0.1	1.1	4.4	0.9
38	Common groundsel	3.0	0.2	7.3	< 0.1	0.6	1.2	0.9
39	Yellow toadflax	2.1	0.2	7.8	0.1	3.1	10.0	0.8
40	Biennial wormwood	2.2	0.3	12.9	< 0.1	1.0	3.0	0.8
41	Wild tomato	2.5	0.2	8.1	< 0.1	0.6	2.4	0.7
42	Rough cinquefoil	1.7	0.3	18.6	< 0.1	1.3	2.8	0.7
43	Common pepper-grass	1.2	0.3	22.6	< 0.1	2.1	4.2	0.6
44	Kentucky blue grass	0.6	0.1	13.0	0.1	14.7	32.8	0.5
45	Yellow sweet-clover	1.5	0.2	11.4	< 0.1	0.7	1.6	0.5
46	Tartary buckwheat	1.0	0.2	23.8	< 0.1	1.5	2.4	0.5
47	Purslane speedwell	0.7	0.3	38.3	< 0.1	2.9	5.4	0.5
48	Broad-leaved plantain	1.6	0.1	5.0	< 0.1	0.4	0.6	0.4
49	Wild chamomile	0.5	0.2	37.5	< 0.1	3.7	7.2	0.3
50	Night-flowering catchfly	1.0	0.1	6.9	< 0.1	0.5	1.0	0.3
51	American vetch	0.8	0.1	7.0	< 0.1	0.6	1.0	0.2
52	Pygmyflower	0.8	0.1	8.3	< 0.1	0.5	0.6	0.2

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Field Survey Summary Tables – Central Region Annual Crops

Table 121. 2010 annual crops in the Central Region (282 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Barnyard grass	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
54	Marsh yellow cress	0.5	0.1	20.0	< 0.1	1.7	2.4	0.2
55	Rose species	0.7	0.1	10.0	< 0.1	0.5	0.6	0.2
56	Pasture sage	0.2	0.1	40.0	< 0.1	7.2	7.2	0.2
57	Flax	0.4	0.1	20.0	< 0.1	3.6	3.6	0.2
58	Dock species	0.4	0.1	20.0	< 0.1	2.2	2.2	0.2
59	Scentless chamomile	0.5	< 0.1	10.0	< 0.1	0.9	1.6	0.2
60	Cow cockle	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
61	Smooth brome	0.4	< 0.1	5.0	< 0.1	1.0	1.0	0.1
62	Two-grooved milk-vetch	0.2	< 0.1	10.0	< 0.1	3.0	3.0	0.1
63	Linear-leaved plantain	0.2	< 0.1	15.0	< 0.1	1.2	1.2	0.1
64	American dragonhead	0.3	< 0.1	5.0	< 0.1	0.4	0.6	0.1
65	Yellow alyssum	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
66	Grass	0.2	< 0.1	10.0	< 0.1	1.0	1.0	0.1
67	White cockle	0.3	< 0.1	5.0	< 0.1	0.6	0.6	0.1
68	Water smartweed	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
69	Poplar species	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
70	Bluebur	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
71	Povertyweed	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1

Field Survey Summary Tables – Central Region Cereal Crops

Table 122. 2010 cereal crops in the Central Region (201 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	60.7	22.4	36.8	3.2	5.3	66.2	40.3
2	Wild oats	29.1	10.7	36.9	6.7	23.2	184.0	34.6
3	Western marsh cudweed	4.9	2.3	46.3	6.0	123.1	709.8	20.6
4	Chickweed	20.5	9.2	45.2	2.9	14.3	111.4	20.4
5	Hemp-nettle	24.8	6.5	26.4	2.0	8.0	184.8	16.3
6	Canola	30.5	7.8	25.5	0.8	2.7	16.2	15.1
7	Dandelion	35.9	6.8	19.1	0.5	1.5	15.0	14.6
8	Canada thistle	35.9	5.4	15.0	0.6	1.6	16.2	13.5
9	Lamb's-quarters	17.2	3.6	21.0	1.8	10.6	328.8	11.9
10	Green foxtail	11.6	4.6	39.9	1.8	15.2	186.0	11.4
11	Cleavers	16.9	5.1	30.0	0.8	4.4	62.8	9.9
12	Narrow-leaved hawk's-beard	15.4	4.3	27.7	1.0	6.3	148.2	9.5
13	Spiny annual sow-thistle	14.8	4.9	32.7	0.8	5.6	70.0	9.5
14	Pale smartweed	10.7	2.5	23.9	1.1	9.9	151.0	7.4
15	Redroot pigweed	14.5	3.3	23.0	0.4	2.9	20.6	7.0
16	Stinkweed	15.7	2.9	18.1	0.4	2.8	38.4	6.9
17	Shepherd's-purse	15.2	2.1	14.0	0.3	2.0	22.0	5.8
18	Kochia	8.8	1.9	22.1	0.5	5.5	52.8	4.8
19	Perennial sow-thistle	7.9	1.6	20.4	0.3	3.6	31.2	3.8
20	Flixweed	7.5	1.0	12.9	0.1	0.8	2.8	2.5
21	Russian thistle	4.7	1.3	27.3	0.1	3.1	17.8	2.4
22	Pineappleweed	4.0	0.7	18.4	0.2	6.1	56.6	2.1
23	Prostrate knotweed	5.4	0.9	16.4	0.1	1.9	4.4	2.1
24	Wheat	3.7	1.1	28.5	0.2	4.1	20.0	2.1
25	Prostrate pigweed	3.3	1.2	34.5	0.1	3.9	9.6	2.0
26	Quack grass	2.8	0.7	26.2	0.3	10.3	59.8	2.0
27	Foxtail barley	6.0	0.5	9.1	0.1	1.1	13.4	1.9
28	Wild mustard	2.5	0.7	27.9	0.1	3.3	10.8	1.3
29	Field peas	3.3	0.5	16.5	< 0.1	0.9	3.6	1.2
30	Henbit	3.0	0.4	14.1	0.1	2.0	5.8	1.2
31	Stork's-bill	3.8	0.3	8.1	< 0.1	0.9	2.8	1.2
32	Field horsetail	3.2	0.3	10.1	0.1	1.6	11.0	1.1
33	Wild tomato	3.6	0.3	8.1	< 0.1	0.6	2.4	1.0
34	Yellow toadflax	2.4	0.2	8.4	0.1	3.7	10.0	0.9
35	Clover species	1.3	0.6	41.6	0.1	4.0	10.4	0.9
36	Common groundsel	3.0	0.2	7.0	< 0.1	0.5	1.2	0.8
37	Alfalfa	2.6	0.3	9.7	< 0.1	0.7	2.6	0.8
38	Biennial wormwood	2.1	0.3	15.0	< 0.1	1.2	3.0	0.8
39	Common pepper-grass	1.4	0.3	20.8	< 0.1	1.6	3.6	0.6
40	Rough cinquefoil	1.7	0.2	12.0	< 0.1	0.9	2.8	0.6
41	Tartary buckwheat	1.0	0.3	33.8	< 0.1	2.2	2.4	0.5
42	Broad-leaved plantain	1.9	0.1	5.0	< 0.1	0.4	0.6	0.5
43	Corn spurry	1.7	0.2	9.3	< 0.1	0.6	1.0	0.5
44	Barley	1.5	0.2	10.2	< 0.1	0.9	1.8	0.5
45	Round-leaved mallow	1.5	0.1	9.3	< 0.1	0.7	1.6	0.5
46	Wild chamomile	0.7	0.3	37.5	< 0.1	3.7	7.2	0.4
47	Purslane speedwell	0.7	0.2	35.0	< 0.1	2.9	5.4	0.4
48	Night-flowering catchfly	1.4	0.1	6.9	< 0.1	0.5	1.0	0.4
49	American vetch	1.2	0.1	7.0	< 0.1	0.6	1.0	0.3
50	Barnyard grass	1.3	0.1	5.0	< 0.1	0.2	0.2	0.3
51	Pygmyflower	1.1	0.1	8.3	< 0.1	0.5	0.6	0.3
52	Marsh yellow cress	0.7	0.1	20.0	< 0.1	1.7	2.4	0.3

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Field Survey Summary Tables – Central Region Cereal Crops

Table 122. 2010 cereal crops in the Central Region (201 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Rose species	1.0	0.1	10.0	< 0.1	0.5	0.6	0.3
54	Pasture sage	0.4	0.1	40.0	< 0.1	7.2	7.2	0.3
55	Flax	0.6	0.1	20.0	< 0.1	3.6	3.6	0.3
56	Yellow sweet-clover	0.9	0.1	7.9	< 0.1	0.6	0.8	0.3
57	Cow cockle	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
58	Kentucky blue grass	0.5	< 0.1	5.0	< 0.1	2.6	2.6	0.2
59	Smooth brome	0.5	< 0.1	5.0	< 0.1	1.0	1.0	0.2
60	American dragonhead	0.5	< 0.1	5.0	< 0.1	0.4	0.6	0.1
61	Yellow alyssum	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.1
62	Grass	0.4	< 0.1	10.0	< 0.1	1.0	1.0	0.1
63	White cockle	0.4	< 0.1	5.0	< 0.1	0.6	0.6	0.1
64	Water smartweed	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
65	Poplar species	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
66	Bluebur	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
67	Povertyweed	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
68	Scentless chamomile	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1

Table 123. 2010 spring wheat fields in the Central Region (99 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	60.5	27.9	46.1	4.1	6.7	66.2	44.0
2	Wild oats	31.0	12.9	41.8	10.9	35.1	184.0	41.5
3	Western marsh cudweed	8.1	3.6	44.3	10.4	129.5	709.8	28.3
4	Canola	39.4	11.3	28.6	1.3	3.2	16.2	20.1
5	Chickweed	15.7	8.0	50.9	3.6	22.6	111.4	17.8
6	Cleavers	18.4	7.0	38.0	1.2	6.6	62.8	12.2
7	Spiny annual sow-thistle	15.9	7.0	44.3	1.4	8.7	70.0	12.1
8	Canada thistle	36.8	4.1	11.0	0.5	1.3	5.2	12.0
9	Dandelion	27.6	5.0	18.3	0.4	1.4	15.0	10.7
10	Green foxtail	9.0	3.3	36.9	2.5	27.8	186.0	10.2
11	Pale smartweed	12.1	3.4	27.9	2.1	17.2	151.0	9.9
12	Hemp-nettle	17.0	4.0	23.4	0.8	4.8	38.0	8.6
13	Narrow-leaved hawk's-beard	13.7	3.7	26.9	1.1	8.2	148.2	8.3
14	Shepherd's-purse	20.1	2.9	14.5	0.5	2.5	22.0	7.7
15	Lamb's-quarters	18.1	2.2	12.1	0.6	3.1	38.4	6.8
16	Perennial sow-thistle	11.8	2.6	22.4	0.5	4.6	31.2	5.8
17	Stinkweed	14.2	1.9	13.2	0.2	1.4	8.8	4.9
18	Pineappleweed	5.8	1.2	20.6	0.5	8.1	56.6	3.2
19	Redroot pigweed	8.3	1.5	17.7	0.1	1.8	18.0	3.2
20	Kochia	7.1	0.8	10.8	0.1	0.8	2.0	2.2
21	Prostrate knotweed	5.8	0.9	15.3	0.1	2.1	4.4	2.2
22	Field peas	6.2	0.9	15.3	0.1	0.8	3.6	2.2
23	Flixweed	5.1	0.8	16.1	0.1	1.0	2.8	1.9
24	Foxtail barley	4.7	0.6	12.8	0.1	1.9	13.4	1.7
25	Russian thistle	3.7	0.8	22.2	0.1	2.1	7.0	1.6
26	Stork's-bill	4.9	0.4	7.5	0.1	1.1	2.8	1.4
27	Field horsetail	3.7	0.4	11.8	0.1	2.7	11.0	1.3
28	Common groundsel	4.3	0.3	6.9	< 0.1	0.6	1.2	1.2
29	Wild tomato	3.8	0.4	10.1	< 0.1	0.8	2.4	1.2
30	Tartary buckwheat	2.1	0.7	33.8	< 0.1	2.2	2.4	1.1
31	Quack grass	2.8	0.4	15.9	0.1	2.9	3.6	1.1
32	Barley	3.2	0.3	10.2	< 0.1	0.9	1.8	1.0
33	Biennial wormwood	3.0	0.4	12.5	< 0.1	1.0	2.8	1.0
34	Prostrate pigweed	2.4	0.4	17.1	< 0.1	2.1	3.8	0.9
35	Wild chamomile	1.5	0.6	37.5	0.1	3.7	7.2	0.9
36	Rough cinquefoil	3.0	0.2	6.3	< 0.1	0.5	1.0	0.8
37	Alfalfa	2.0	0.3	16.4	< 0.1	1.6	2.6	0.7
38	Common pepper-grass	1.4	0.4	30.3	< 0.1	2.4	3.6	0.7
39	Yellow toadflax	1.2	0.2	15.0	0.1	10.0	10.0	0.7
40	Marsh yellow cress	1.5	0.3	20.0	< 0.1	1.7	2.4	0.6
41	Pasture sage	0.8	0.3	40.0	0.1	7.2	7.2	0.5
42	Corn spurry	1.5	0.2	15.1	< 0.1	0.9	1.0	0.5
43	Henbit	2.1	0.1	5.0	< 0.1	0.2	0.2	0.5
44	Wild mustard	1.3	0.2	12.9	< 0.1	0.6	0.8	0.4
45	American vetch	1.5	0.1	5.0	< 0.1	0.7	1.0	0.4
46	Rose species	1.2	0.1	10.0	< 0.1	0.6	0.6	0.4
47	Smooth brome	1.2	0.1	5.0	< 0.1	1.0	1.0	0.3
48	Broad-leaved plantain	1.2	0.1	5.0	< 0.1	0.6	0.6	0.3
49	Clover species	0.9	0.1	15.0	< 0.1	0.6	0.6	0.3
50	Barnyard grass	1.2	0.1	5.0	< 0.1	0.2	0.2	0.3
51	American dragonhead	1.1	0.1	5.0	< 0.1	0.4	0.6	0.3
52	Yellow alyssum	0.8	0.1	10.0	< 0.1	0.4	0.4	0.3

(Table continued on next page)

Field Survey Summary Tables – Central Region Spring Wheat

Table 123. 2010 spring wheat fields in the Central Region (99 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	White cockle	0.9	< 0.1	5.0	< 0.1	0.6	0.6	0.2
54	Water smartweed	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.2
55	Poplar species	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.2
56	Purslane speedwell	0.8	0.1	10.0	< 0.1	0.4	0.4	0.2
57	Bluebur	0.8	< 0.1	5.0	< 0.1	0.4	0.4	0.2
58	Povertyweed	0.8	< 0.1	5.0	< 0.1	0.4	0.4	0.2
59	Night-flowering catchfly	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2
60	Round-leaved mallow	0.5	0.1	15.0	< 0.1	0.6	0.6	0.2

Table 124. 2010 barley fields in the Central Region (87 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	55.8	16.2	29.0	2.4	4.3	37.4	38.6
2	Wild oats	27.9	8.9	31.9	3.5	12.5	170.0	31.1
3	Chickweed	25.2	10.4	41.0	2.5	10.0	56.0	27.2
4	Lamb's-quarters	13.2	4.1	31.2	3.2	24.0	328.8	21.9
5	Hemp-nettle	32.6	8.1	24.8	1.3	4.1	34.6	21.0
6	Dandelion	41.4	8.7	21.0	0.7	1.8	10.2	20.5
7	Canada thistle	39.3	7.5	19.0	0.8	1.9	16.2	19.1
8	Redroot pigweed	18.2	5.0	27.4	0.7	3.6	20.6	11.7
9	Canola	23.1	4.2	18.0	0.4	1.7	11.8	10.7
10	Narrow-leaved hawk's-beard	13.5	3.8	28.0	0.8	5.8	31.2	10.2
11	Cleavers	17.2	4.0	23.2	0.4	2.4	8.2	9.4
12	Green foxtail	11.6	3.8	32.5	0.5	4.5	12.8	8.5
13	Spiny annual sow-thistle	12.8	2.7	20.9	0.3	2.7	23.6	6.9
14	Stinkweed	13.7	2.7	19.4	0.3	2.1	15.6	6.8
15	Kochia	9.9	2.4	23.9	0.4	4.5	23.2	6.5
16	Wheat	7.4	2.2	29.4	0.3	4.3	20.0	5.1
17	Shepherd's-purse	11.4	1.5	12.9	0.1	1.2	8.8	4.5
18	Quack grass	3.3	1.2	34.9	0.5	16.5	59.8	4.4
19	Pale smartweed	8.7	1.8	20.1	0.1	1.7	7.0	4.2
20	Western marsh cudweed	1.8	0.6	35.0	0.3	19.4	33.4	2.6
21	Wild mustard	3.4	1.1	33.2	0.2	4.7	10.8	2.6
22	Prostrate knotweed	5.1	1.0	19.3	0.1	1.9	3.6	2.5
23	Henbit	4.5	0.8	18.4	0.1	2.8	5.8	2.4
24	Russian thistle	4.5	0.9	19.8	< 0.1	1.1	2.0	2.0
25	Clover species	2.0	1.1	53.8	0.1	5.6	10.4	1.9
26	Perennial sow-thistle	3.8	0.7	19.2	0.1	1.8	4.6	1.8
27	Yellow toadflax	4.0	0.3	6.4	0.1	1.8	2.2	1.5
28	Prostrate pigweed	1.8	0.7	40.0	0.1	4.8	5.8	1.4
29	Alfalfa	3.8	0.2	6.1	< 0.1	0.2	0.4	1.1
30	Flixweed	2.7	0.4	15.2	< 0.1	0.8	1.2	1.1
31	Field horsetail	3.3	0.3	8.1	< 0.1	0.4	0.6	1.0
32	Stork's-bill	2.7	0.3	10.1	< 0.1	0.7	1.6	0.9
33	Pineappleweed	2.0	0.3	15.0	< 0.1	2.2	4.2	0.9
34	Night-flowering catchfly	2.3	0.2	7.5	< 0.1	0.6	1.0	0.7
35	Flax	1.2	0.2	20.0	< 0.1	3.6	3.6	0.7
36	Common groundsel	2.1	0.2	7.3	< 0.1	0.4	0.6	0.7
37	Common pepper-grass	1.6	0.2	12.4	< 0.1	1.0	1.4	0.6
38	Yellow sweet-clover	1.9	0.2	7.9	< 0.1	0.6	0.8	0.6
39	Round-leaved mallow	1.9	0.1	5.0	< 0.1	0.4	0.6	0.5
40	Field peas	0.9	0.2	25.0	< 0.1	1.4	1.4	0.5
41	Cow cockle	1.7	0.1	5.0	< 0.1	0.2	0.2	0.5
42	Kentucky blue grass	1.1	0.1	5.0	< 0.1	2.6	2.6	0.4
43	Foxtail barley	1.4	0.1	6.9	< 0.1	0.3	0.4	0.4
44	American vetch	1.0	0.1	10.0	< 0.1	0.4	0.4	0.3
45	Broad-leaved plantain	1.1	0.1	5.0	< 0.1	0.2	0.2	0.3
46	Grass	0.8	0.1	10.0	< 0.1	1.0	1.0	0.3
47	Rose species	0.9	0.1	10.0	< 0.1	0.4	0.4	0.3
48	Pygmyflower	0.9	< 0.1	5.0	< 0.1	0.6	0.6	0.3
49	Barnyard grass	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
50	Corn spurry	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2
51	Wild tomato	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Field Survey Summary Tables – Central Region Broad-Leaved Annual Crops

Table 125. 2010 broad-leaved annual crops in the Central Region (81 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	58.2	20.0	34.4	2.7	4.6	72.8	51.2
2	Wheat	29.3	10.9	37.3	1.2	4.2	12.6	25.9
3	Shepherd's-purse	19.9	7.6	38.2	1.5	7.5	31.2	22.3
4	Chickweed	21.5	5.5	25.5	0.9	4.2	36.2	16.5
5	Dandelion	27.8	6.3	22.8	0.5	1.9	10.0	16.2
6	Cleavers	21.0	4.3	20.4	0.9	4.2	13.2	15.1
7	Lamb's-quarters	26.8	5.3	19.9	0.5	2.0	22.8	14.9
8	Canada thistle	30.7	4.0	13.0	0.3	1.1	4.8	13.2
9	Narrow-leaved hawk's-beard	17.5	4.0	22.9	0.7	4.2	24.4	12.9
10	Wild oats	13.1	3.6	27.2	0.5	3.9	19.0	10.0
11	Perennial sow-thistle	17.2	4.2	24.4	0.3	1.7	4.4	10.0
12	Pineappleweed	7.2	3.0	41.6	0.7	9.8	20.8	9.4
13	Spiny annual sow-thistle	14.8	3.6	24.2	0.4	2.4	14.4	9.3
14	Stinkweed	16.1	2.0	12.6	0.3	1.6	19.6	7.4
15	Western marsh cudweed	5.7	1.4	23.8	0.5	9.5	21.0	6.4
16	Barley	13.0	1.7	13.0	0.1	0.9	2.2	5.4
17	Field horsetail	10.3	1.6	15.3	0.2	1.8	5.0	5.1
18	Hemp-nettle	13.4	1.2	8.8	0.1	0.7	1.8	4.8
19	Henbit	1.5	1.0	70.5	0.5	33.1	47.0	4.7
20	Canola	10.8	1.6	14.8	0.1	0.9	3.2	4.7
21	Quack grass	4.8	1.2	24.1	0.2	3.9	9.0	3.5
22	Round-leaved mallow	4.2	1.2	28.0	0.2	3.6	7.8	3.1
23	Stork's-bill	5.2	1.1	21.7	0.1	2.1	9.2	3.0
24	Alfalfa	3.0	1.2	38.2	0.1	3.4	7.2	2.5
25	Kentucky blue grass	0.8	0.2	25.0	0.3	32.8	32.8	2.1
26	Corn spurry	4.0	0.8	18.9	0.1	1.6	4.4	2.1
27	Redroot pigweed	4.9	0.5	11.0	< 0.1	0.8	1.2	1.9
28	Pale smartweed	3.8	0.6	16.3	0.1	1.4	2.2	1.8
29	Wild mustard	4.0	0.5	12.4	< 0.1	1.2	1.2	1.7
30	Flixweed	3.3	0.5	15.5	< 0.1	1.1	2.8	1.5
31	Yellow sweet-clover	2.7	0.4	13.9	< 0.1	0.8	1.6	1.1
32	Rough cinquefoil	1.5	0.5	35.0	< 0.1	2.4	2.6	1.1
33	Clover species	3.6	0.2	6.1	< 0.1	0.2	0.4	1.1
34	Common groundsel	3.0	0.2	8.0	< 0.1	0.7	1.0	1.1
35	Biennial wormwood	2.6	0.2	9.0	< 0.1	0.7	1.2	0.9
36	Dock species	1.2	0.2	20.0	< 0.1	2.2	2.2	0.7
37	Prostrate knotweed	2.2	0.1	6.7	< 0.1	0.3	0.4	0.7
38	Purslane speedwell	0.8	0.3	45.0	< 0.1	2.8	2.8	0.7
39	Common pepper-grass	0.8	0.2	30.0	< 0.1	4.2	4.2	0.6
40	Foxtail barley	0.8	0.2	20.0	< 0.1	4.0	4.0	0.5
41	Two-grooved milk-vetch	0.8	0.1	10.0	< 0.1	3.0	3.0	0.4
42	Yellow toadflax	1.3	0.1	5.0	< 0.1	0.4	0.4	0.4
43	Scentless chamomile	0.8	0.1	15.0	< 0.1	1.6	1.6	0.4
44	Linear-leaved plantain	0.8	0.1	15.0	< 0.1	1.2	1.2	0.3
45	Tartary buckwheat	1.1	0.1	5.0	< 0.1	0.2	0.2	0.3
46	Green foxtail	0.9	0.1	10.0	< 0.1	0.4	0.4	0.3
47	Field peas	0.9	< 0.1	5.0	< 0.1	0.4	0.4	0.3
48	Broad-leaved plantain	0.8	< 0.1	5.0	< 0.1	0.2	0.2	0.2

Table 126. 2010 canola fields in the Central Region (69 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	60.1	21.2	35.3	2.9	4.9	72.8	53.1
2	Wheat	30.6	11.5	37.7	1.3	4.1	12.6	26.2
3	Shepherd's-purse	19.9	8.0	40.3	1.7	8.5	31.2	23.2
4	Dandelion	28.9	6.8	23.7	0.6	2.1	10.0	16.9
5	Cleavers	23.3	5.0	21.3	1.0	4.5	13.2	16.8
6	Chickweed	21.5	4.7	21.7	0.9	4.1	36.2	15.0
7	Lamb's-quarters	26.3	5.1	19.6	0.5	2.0	22.8	14.3
8	Canada thistle	32.4	4.4	13.7	0.4	1.2	4.8	14.2
9	Narrow-leaved hawk's-beard	15.6	4.0	25.4	0.8	5.1	24.4	12.5
10	Pineappleweed	7.3	3.3	45.1	0.8	11.1	20.8	10.1
11	Wild oats	8.8	3.2	36.0	0.6	6.3	19.0	8.7
12	Perennial sow-thistle	14.3	3.7	25.7	0.3	1.9	4.4	8.6
13	Stinkweed	17.5	2.0	11.2	0.3	1.6	19.6	7.7
14	Western marsh cudweed	6.8	1.6	23.8	0.6	9.5	21.0	7.2
15	Spiny annual sow-thistle	12.4	2.3	18.4	0.2	1.9	14.4	6.6
16	Field horsetail	12.1	1.9	15.3	0.2	1.8	5.0	5.9
17	Hemp-nettle	15.8	1.4	8.8	0.1	0.7	1.8	5.7
18	Henbit	1.7	1.2	70.5	0.6	33.1	47.0	5.2
19	Barley	11.3	1.3	11.3	0.1	0.7	1.4	4.3
20	Quack grass	5.7	1.4	24.1	0.2	3.9	9.0	4.0
21	Round-leaved mallow	5.0	1.4	28.0	0.2	3.6	7.8	3.6
22	Stork's-bill	6.1	1.3	21.7	0.1	2.1	9.2	3.5
23	Alfalfa	3.6	1.4	38.2	0.1	3.4	7.2	2.9
24	Corn spurry	4.7	0.9	18.9	0.1	1.6	4.4	2.4
25	Kentucky blue grass	0.9	0.2	25.0	0.3	32.8	32.8	2.3
26	Redroot pigweed	5.8	0.6	11.0	< 0.1	0.8	1.2	2.2
27	Wild mustard	4.7	0.6	12.4	0.1	1.2	1.2	2.0
28	Flixweed	3.9	0.6	15.5	< 0.1	1.1	2.8	1.8
29	Yellow sweet-clover	3.2	0.4	13.9	< 0.1	0.8	1.6	1.3
30	Clover species	4.3	0.3	6.1	< 0.1	0.2	0.4	1.3
31	Rough cinquefoil	1.8	0.6	35.0	< 0.1	2.4	2.6	1.3
32	Common groundsel	3.5	0.3	8.0	< 0.1	0.7	1.0	1.2
33	Pale smartweed	2.1	0.3	12.2	< 0.1	0.7	0.8	0.8
34	Dock species	1.4	0.3	20.0	< 0.1	2.2	2.2	0.8
35	Purslane speedwell	0.9	0.4	45.0	< 0.1	2.8	2.8	0.8
36	Common pepper-grass	0.9	0.3	30.0	< 0.1	4.2	4.2	0.7
37	Foxtail barley	0.9	0.2	20.0	< 0.1	4.0	4.0	0.6
38	Biennial wormwood	1.8	0.1	5.0	< 0.1	0.3	0.4	0.5
39	Canola	1.2	0.2	15.0	< 0.1	0.8	0.8	0.5
40	Two-grooved milk-vetch	0.9	0.1	10.0	< 0.1	3.0	3.0	0.5
41	Yellow toadflax	1.5	0.1	5.0	< 0.1	0.4	0.4	0.4
42	Scentless chamomile	0.9	0.1	15.0	< 0.1	1.6	1.6	0.4
43	Linear-leaved plantain	0.9	0.1	15.0	< 0.1	1.2	1.2	0.4
44	Tartary buckwheat	1.3	0.1	5.0	< 0.1	0.2	0.2	0.4
45	Field peas	1.1	0.1	5.0	< 0.1	0.4	0.4	0.3
46	Prostrate knotweed	0.9	0.1	10.0	< 0.1	0.4	0.4	0.3
47	Broad-leaved plantain	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3

Field Survey Summary Tables – Central Region Field Pea

Table 127. 2010 field pea fields in the Central Region (12 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	47.6	13.3	28.0	1.2	2.5	6.8	38.3
2	Canola	64.3	9.5	14.7	0.6	0.9	3.2	30.9
3	Spiny annual sow-thistle	28.4	10.8	38.2	1.0	3.6	5.8	29.4
4	Chickweed	21.4	10.0	46.6	1.1	5.1	11.0	27.8
5	Wheat	22.1	7.7	34.6	1.1	5.2	9.8	26.3
6	Lamb's-quarters	29.6	6.3	21.3	0.7	2.2	4.4	20.7
7	Perennial sow-thistle	33.3	7.1	21.5	0.4	1.2	3.2	19.2
8	Wild oats	37.0	5.7	15.5	0.3	0.7	1.2	17.1
9	Shepherd's-purse	20.1	5.4	26.7	0.4	2.1	3.8	14.8
10	Narrow-leaved hawk's-beard	28.2	4.3	15.2	0.3	1.2	2.8	14.5
11	Barley	22.3	4.0	17.8	0.3	1.5	2.2	12.9
12	Dandelion	22.1	3.6	16.2	0.2	1.1	1.6	11.3
13	Pale smartweed	13.3	2.7	20.0	0.3	2.0	2.2	8.8
14	Canada thistle	21.5	1.5	7.2	0.1	0.4	0.4	7.3
15	Stinkweed	8.0	2.4	30.0	0.1	1.4	1.4	5.5
16	Pineappleweed	6.7	1.3	20.0	0.1	1.8	1.8	4.2
17	Biennial wormwood	6.7	1.0	15.0	0.1	1.2	1.2	3.5
18	Prostrate knotweed	9.5	0.5	5.0	< 0.1	0.2	0.2	2.8
19	Cleavers	8.0	0.4	5.0	< 0.1	0.2	0.2	2.4
20	Green foxtail	6.1	0.6	10.0	< 0.1	0.4	0.4	2.2

Field Survey Summary Tables – Southern Region Annual Crops

Table 128. 2010 annual crops in the Southern Region (263 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	26.9	7.3	27.1	2.2	8.2	284.6	39.1
2	Wild buckwheat	45.4	11.2	24.6	1.0	2.2	20.0	38.9
3	Kochia	29.0	5.5	19.0	0.8	2.8	62.2	24.0
4	Canada thistle	22.9	3.3	14.4	0.3	1.5	11.8	14.7
5	Canola	13.2	3.3	24.8	0.6	4.6	43.6	14.4
6	Wheat	10.7	3.1	29.2	0.6	5.4	31.8	13.1
7	Russian thistle	11.4	2.9	25.2	0.5	4.4	35.4	12.3
8	Dandelion	17.5	2.7	15.4	0.3	1.7	28.2	11.9
9	Redroot pigweed	15.0	2.3	15.2	0.2	1.6	15.6	10.0
10	Stinkweed	14.2	2.0	13.8	0.2	1.3	9.4	8.8
11	Foxtail barley	11.6	1.9	16.5	0.3	2.3	10.4	8.7
12	Green foxtail	7.5	1.5	20.0	0.4	5.7	40.4	8.3
13	Downy brome	3.8	0.5	14.5	0.7	17.3	187.6	8.0
14	Flixweed	12.0	1.3	11.2	0.1	0.8	7.0	6.3
15	Lamb's-quarters	8.4	1.4	16.3	0.2	2.3	19.6	6.3
16	Spiny annual sow-thistle	9.4	1.5	16.4	0.1	1.3	4.6	6.1
17	Prostrate knotweed	6.8	1.8	26.3	0.1	1.9	7.2	5.8
18	Stork's-bill	2.0	0.8	41.3	0.4	18.7	57.0	5.3
19	Shepherd's-purse	4.7	1.0	22.0	0.2	4.3	32.2	4.8
20	Perennial sow-thistle	5.8	0.9	15.9	0.1	1.5	6.2	3.8
21	Field bindweed	4.4	1.1	25.9	0.1	1.8	9.0	3.7
22	Narrow-leaved hawk's-beard	4.3	0.9	20.0	0.1	2.5	21.6	3.5
23	Cleavers	2.6	0.9	33.6	0.1	5.7	13.0	3.5
24	Field peas	3.6	0.8	22.9	0.1	1.4	6.2	2.8
25	Barley	4.1	0.7	16.1	0.1	1.4	5.2	2.7
26	Round-leaved mallow	5.6	0.5	8.7	< 0.1	0.6	2.0	2.6
27	Prostrate pigweed	2.7	0.6	20.9	0.1	3.1	15.6	2.4
28	Cow cockle	4.1	0.6	13.9	< 0.1	0.8	3.2	2.3
29	Barnyard grass	1.0	0.4	41.1	0.1	9.8	15.8	1.8
30	Chickweed	1.7	0.6	35.0	< 0.1	2.8	4.4	1.8
31	Thyme-leaved spurge	2.8	0.4	14.6	< 0.1	1.2	4.4	1.7
32	Henbit	0.9	0.1	6.8	0.1	16.1	43.4	1.7
33	Purslane	1.6	0.4	27.7	< 0.1	2.0	4.4	1.4
34	Oats	1.5	0.3	20.5	< 0.1	2.9	8.6	1.3
35	Yellow toadflax	0.9	0.4	40.0	0.1	5.6	5.6	1.3
36	Wild mustard	0.7	0.3	40.6	0.1	8.8	14.6	1.2
37	Yellow alyssum	0.4	0.3	75.0	0.1	15.4	15.4	1.1
38	Goat's-beard	2.2	0.3	11.8	< 0.1	0.6	1.4	1.1
39	American dragonhead	1.4	0.3	21.8	< 0.1	1.8	2.6	1.1
40	Quack grass	1.0	0.1	14.2	< 0.1	5.0	9.2	1.0
41	Pale smartweed	2.4	0.1	5.4	< 0.1	0.3	0.8	0.9
42	Volunteer grain	1.2	0.3	22.5	< 0.1	1.4	2.6	0.9
43	Hemp-nettle	1.4	0.2	16.7	< 0.1	0.8	1.0	0.8
44	Alfalfa	1.3	0.1	10.3	< 0.1	0.7	1.2	0.7
45	Prickly lettuce	1.1	0.1	5.8	< 0.1	2.0	4.2	0.6
46	Bluebur	1.5	0.1	5.0	< 0.1	0.2	0.4	0.6
47	Clover species	1.4	0.1	5.0	< 0.1	0.2	0.2	0.5
48	Black medick	0.7	0.1	16.8	< 0.1	1.3	2.2	0.5
49	Rose species	0.8	0.1	7.0	< 0.1	0.7	1.0	0.4
50	Scouring-rush	0.4	0.1	15.0	< 0.1	4.4	4.4	0.4
51	Canada fleabane	0.8	0.1	8.5	< 0.1	0.4	0.8	0.4
52	Sunflower	0.4	< 0.1	5.0	< 0.1	3.2	3.2	0.3

(Table continued on next page)

Field Survey Summary Tables – Southern Region Annual Crops

Table 128. 2010 annual crops in the Southern Region (263 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Purslane speedwell	0.4	< 0.1	10.0	< 0.1	2.0	2.0	0.3
54	Scarlet mallow	0.4	0.1	15.0	< 0.1	0.6	0.6	0.2
55	Tansy	0.5	< 0.1	5.0	< 0.1	0.6	0.6	0.2
56	Grass	0.5	< 0.1	6.7	< 0.1	0.3	0.4	0.2
57	Biennial wormwood	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.2
58	Slender wheat grass	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.2
59	Spear-leaved goosefoot	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.2
60	Dogbane species	0.3	< 0.1	5.0	< 0.1	0.6	0.6	0.1
61	Rough cinquefoil	0.3	< 0.1	5.0	< 0.1	0.6	0.6	0.1
62	Ball mustard	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
63	Sheep sorrel	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
64	White mustard	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1
65	Common yarrow	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Blue lettuce	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Low larkspur	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
68	Silvery lupin	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
69	Timothy	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
70	Crested wheat grass	0.1	< 0.1	5.0	< 0.1	0.4	0.4	0.1

Field Survey Summary Tables – Southern Region Cereal Crops

Table 129. 2010 cereal crops in the Southern Region (203 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	28.2	7.9	28.0	2.5	8.8	284.6	41.8
2	Wild buckwheat	46.8	11.6	24.9	1.0	2.2	20.0	40.4
3	Kochia	29.8	5.2	17.6	0.6	2.1	25.6	22.2
4	Canola	16.0	4.0	25.1	0.8	4.8	43.6	17.5
5	Canada thistle	23.3	3.2	13.9	0.3	1.5	11.8	14.8
6	Russian thistle	12.3	3.2	26.0	0.6	4.8	35.4	13.6
7	Dandelion	15.8	2.8	18.0	0.4	2.3	28.2	12.1
8	Redroot pigweed	16.3	2.4	14.8	0.3	1.6	15.6	10.7
9	Foxtail barley	13.4	2.2	16.7	0.3	2.4	10.4	10.2
10	Downy brome	4.6	0.7	14.4	0.8	18.5	187.6	9.6
11	Green foxtail	7.3	1.6	22.3	0.5	7.1	40.4	9.1
12	Stinkweed	13.7	2.0	14.2	0.2	1.4	9.4	8.7
13	Prostrate knotweed	7.0	2.0	27.9	0.1	2.1	7.2	6.3
14	Wheat	3.6	1.1	31.7	0.4	10.3	31.8	6.0
15	Stork's-bill	1.4	0.8	59.0	0.5	32.5	57.0	5.7
16	Flixweed	9.1	1.2	13.6	0.1	1.0	7.0	5.4
17	Spiny annual sow-thistle	7.4	1.2	16.9	0.1	1.5	4.6	5.0
18	Lamb's-quarters	5.5	1.2	21.5	0.2	3.3	19.6	5.0
19	Shepherd's-purse	3.2	1.0	29.4	0.2	7.4	32.2	4.5
20	Narrow-leaved hawk's-beard	5.0	1.1	22.0	0.1	2.8	21.6	4.3
21	Perennial sow-thistle	5.2	0.8	16.1	0.1	1.5	6.2	3.5
22	Field peas	4.4	1.0	21.9	0.1	1.4	6.2	3.3
23	Cow cockle	4.8	0.7	14.9	< 0.1	0.9	3.2	2.8
24	Prostrate pigweed	2.6	0.7	25.3	0.1	4.0	15.6	2.7
25	Round-leaved mallow	5.3	0.5	9.1	< 0.1	0.7	2.0	2.6
26	Field bindweed	3.9	0.7	17.9	< 0.1	1.0	2.8	2.6
27	Barnyard grass	1.3	0.5	41.1	0.1	9.8	15.8	2.3
28	Henbit	1.2	0.1	6.8	0.2	16.1	43.4	2.1
29	Chickweed	1.6	0.7	41.7	0.1	3.3	4.4	2.0
30	Cleavers	1.4	0.4	27.5	0.1	6.6	13.0	1.8
31	Yellow toadflax	1.2	0.5	40.0	0.1	5.6	5.6	1.6
32	Purslane	1.6	0.5	33.8	< 0.1	2.4	4.4	1.6
33	Wild mustard	0.9	0.4	40.6	0.1	8.8	14.6	1.5
34	Yellow alyssum	0.5	0.4	75.0	0.1	15.4	15.4	1.4
35	American dragonhead	1.8	0.4	21.8	< 0.1	1.8	2.6	1.4
36	Thyme-leaved spurge	2.0	0.3	15.0	< 0.1	1.7	4.4	1.3
37	Oats	1.3	0.3	23.3	0.1	3.9	8.6	1.3
38	Hemp-nettle	1.8	0.3	16.7	< 0.1	0.8	1.0	1.1
39	Pale smartweed	2.5	0.1	5.4	< 0.1	0.3	0.8	1.0
40	Quack grass	0.6	0.1	15.0	0.1	9.2	9.2	0.8
41	Barley	1.4	0.2	14.5	< 0.1	0.7	1.4	0.8
42	Alfalfa	1.2	0.2	12.2	< 0.1	0.9	1.2	0.7
43	Black medick	1.0	0.2	16.8	< 0.1	1.3	2.2	0.6
44	Bluebur	1.4	0.1	5.0	< 0.1	0.3	0.4	0.6
45	Goat's-beard	1.2	0.1	5.9	< 0.1	0.4	0.6	0.5
46	Scouring-rush	0.5	0.1	15.0	< 0.1	4.4	4.4	0.5
47	Rose species	0.9	0.1	7.5	< 0.1	0.6	0.8	0.4
48	Prickly lettuce	0.9	0.1	6.3	< 0.1	0.6	0.8	0.4
49	Sunflower	0.5	< 0.1	5.0	< 0.1	3.2	3.2	0.3
50	Purslane speedwell	0.5	0.1	10.0	< 0.1	2.0	2.0	0.3
51	Volunteer grain	0.5	0.1	15.0	< 0.1	1.0	1.0	0.3
52	Scarlet mallow	0.5	0.1	15.0	< 0.1	0.6	0.6	0.3

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Field Survey Summary Tables – Southern Region Cereal Crops

Table 129. 2010 cereal crops in the Southern Region (203 fields) (*continued*)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
53	Grass	0.7	< 0.1	6.7	< 0.1	0.3	0.4	0.3
54	Clover species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.3
55	Canada fleabane	0.4	0.1	15.0	< 0.1	0.8	0.8	0.2
56	Slender wheat grass	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.2
57	Spear-leaved goosefoot	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.2
58	Dogbane species	0.4	< 0.1	5.0	< 0.1	0.6	0.6	0.2
59	Rough cinquefoil	0.4	< 0.1	5.0	< 0.1	0.6	0.6	0.2
60	Ball mustard	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.2
61	Sheep sorrel	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.2
62	White mustard	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
63	Common yarrow	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
64	Blue lettuce	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
65	Low larkspur	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
66	Silvery lupin	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
67	Timothy	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
68	Crested wheat grass	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1

Field Survey Summary Tables – Southern Region Spring Wheat

Table 130. 2010 spring wheat fields in the Southern Region (103 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	55.3	15.7	28.5	1.5	2.7	20.0	53.1
2	Wild oats	30.7	9.4	30.6	1.9	6.2	26.2	40.9
3	Canola	18.5	4.8	26.2	0.8	4.4	40.6	20.2
4	Russian thistle	12.8	3.6	28.2	0.9	6.7	35.4	17.3
5	Kochia	27.3	3.9	14.1	0.3	1.2	9.6	16.6
6	Canada thistle	21.9	3.3	15.1	0.3	1.5	8.4	14.3
7	Green foxtail	10.1	1.8	17.4	0.6	6.3	28.2	11.8
8	Dandelion	19.5	2.5	12.9	0.2	1.0	3.2	11.1
9	Foxtail barley	9.3	2.7	29.2	0.3	3.7	7.8	9.9
10	Prostrate knotweed	8.9	3.4	38.2	0.2	2.8	7.2	9.7
11	Redroot pigweed	16.2	1.8	10.9	0.1	0.8	3.6	8.5
12	Shepherd's-purse	4.0	1.7	42.4	0.5	11.6	32.2	8.2
13	Wheat	2.9	1.0	35.0	0.5	17.3	31.8	7.2
14	Stinkweed	11.8	1.3	11.4	0.2	1.3	4.0	6.9
15	Spiny annual sow-thistle	10.1	1.7	17.2	0.1	1.2	3.2	6.6
16	Narrow-leaved hawk's-beard	8.5	1.7	20.4	0.1	1.5	4.0	6.1
17	Flixweed	9.8	1.1	11.1	0.1	0.7	3.2	5.1
18	Chickweed	3.2	1.3	41.7	0.1	3.3	4.4	3.9
19	Field peas	5.2	1.0	20.1	0.1	1.1	2.4	3.5
20	Barnyard grass	1.8	0.8	46.4	0.2	9.7	15.8	3.4
21	Yellow toadflax	2.4	0.9	40.0	0.1	5.6	5.6	3.3
22	Perennial sow-thistle	4.3	0.8	18.2	0.1	1.9	6.2	3.2
23	Purslane	3.1	1.1	33.8	0.1	2.4	4.4	3.1
24	Cleavers	1.2	0.5	45.0	0.2	13.0	13.0	2.6
25	Round-leaved mallow	4.4	0.5	10.4	< 0.1	0.6	1.4	2.2
26	Downy brome	5.2	0.3	6.0	< 0.1	0.4	1.2	2.2
27	Hemp-nettle	3.5	0.6	16.7	< 0.1	0.8	1.0	2.1
28	Field bindweed	2.1	0.7	35.0	< 0.1	2.1	2.8	2.1
29	Lamb's-quarters	4.1	0.4	10.0	< 0.1	0.7	1.2	2.1
30	Prostrate pigweed	1.8	0.3	15.2	0.1	3.7	6.2	1.6
31	Cow cockle	2.6	0.3	11.7	< 0.1	0.5	1.4	1.3
32	Oats	0.9	0.2	25.0	0.1	8.6	8.6	1.3
33	Barley	1.9	0.4	18.8	< 0.1	0.9	1.4	1.2
34	Bluebur	2.8	0.1	5.0	< 0.1	0.3	0.4	1.1
35	Scouring-rush	1.1	0.2	15.0	< 0.1	4.4	4.4	1.0
36	Pale smartweed	2.2	0.1	6.0	< 0.1	0.5	0.8	0.9
37	Alfalfa	1.5	0.2	13.5	< 0.1	1.0	1.2	0.9
38	American dragonhead	0.9	< 0.1	5.0	< 0.1	1.4	1.4	0.4
39	Slender wheat grass	0.9	0.1	10.0	< 0.1	0.4	0.4	0.4
40	Rough cinquefoil	0.9	< 0.1	5.0	< 0.1	0.6	0.6	0.4
41	Ball mustard	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
42	Clover species	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
43	Sheep sorrel	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
44	Thyme-leaved spurge	0.7	0.1	10.0	< 0.1	0.4	0.4	0.3
45	White mustard	0.7	< 0.1	5.0	< 0.1	0.4	0.4	0.3
46	Common yarrow	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.3
47	Blue lettuce	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
48	Prickly lettuce	0.4	< 0.1	10.0	< 0.1	0.4	0.4	0.2
49	Crested wheat grass	0.3	< 0.1	5.0	< 0.1	0.4	0.4	0.1

Field Survey Summary Tables – Southern Region Durum

Table 131. 2010 durum fields in the Southern Region (27 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	36.6	6.6	18.0	3.5	9.6	162.4	60.4
2	Russian thistle	37.7	10.7	28.4	1.3	3.5	15.8	44.4
3	Kochia	30.8	6.2	20.2	0.7	2.4	10.8	28.2
4	Dandelion	15.3	4.8	31.6	1.3	8.5	28.2	26.9
5	Wild buckwheat	37.0	5.9	15.9	0.3	0.9	2.8	25.3
6	Redroot pigweed	32.3	4.8	14.7	0.4	1.3	6.4	22.7
7	Flixweed	15.0	4.0	26.5	0.4	2.4	7.0	15.3
8	Field peas	10.6	3.4	31.7	0.3	2.4	6.2	11.8
9	Canada thistle	18.2	1.9	10.4	0.1	0.7	2.0	10.4
10	Spiny annual sow-thistle	4.4	1.3	30.0	0.2	4.6	4.6	5.8
11	Foxtail barley	10.9	0.8	7.0	0.1	0.8	1.8	5.7
12	Perennial sow-thistle	5.3	1.1	20.0	0.1	2.5	3.6	4.9
13	Canola	7.4	0.7	10.0	0.1	1.2	1.8	4.6
14	Prostrate knotweed	4.4	1.1	25.0	0.1	1.8	1.8	4.1
15	Oats	3.5	1.2	35.0	0.1	2.0	2.0	4.0
16	Green foxtail	4.8	0.8	16.3	< 0.1	1.0	1.4	3.4
17	Purslane speedwell	4.4	0.4	10.0	0.1	2.0	2.0	3.1
18	Field bindweed	4.4	0.7	15.0	0.1	1.2	1.2	3.1
19	Volunteer grain	4.4	0.7	15.0	< 0.1	1.0	1.0	3.0
20	Goat's-beard	6.2	0.4	6.4	< 0.1	0.5	0.6	2.9
21	Scarlet mallow	4.4	0.7	15.0	< 0.1	0.6	0.6	2.8
22	Downy brome	6.2	0.3	5.0	< 0.1	0.3	0.4	2.7
23	Thyme-leaved spurge	2.8	0.3	10.0	< 0.1	0.6	0.6	1.5
24	Stinkweed	3.5	0.2	5.0	< 0.1	0.2	0.2	1.5
25	Henbit	1.8	0.1	5.0	< 0.1	0.2	0.2	0.8
26	Prickly lettuce	1.8	0.1	5.0	< 0.1	0.2	0.2	0.8

Table 132. 2010 barley fields in the Southern Region (65 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	22.6	6.1	27.0	3.2	14.0	284.6	39.3
2	Kochia	32.0	7.1	22.2	1.1	3.4	25.6	29.6
3	Wild buckwheat	34.9	7.6	21.7	0.6	1.6	10.8	27.6
4	Downy brome	3.5	1.4	39.3	2.5	70.5	187.6	20.4
5	Canola	12.8	3.9	30.5	1.0	7.8	43.6	17.4
6	Stork's-bill	4.3	2.5	59.0	1.4	32.5	57.0	15.2
7	Canada thistle	26.3	2.6	9.8	0.3	1.1	4.8	14.7
8	Stinkweed	19.5	3.4	17.3	0.3	1.6	9.4	14.0
9	Foxtail barley	20.1	2.2	11.2	0.4	2.1	10.4	13.1
10	Lamb's-quarters	8.9	2.8	31.1	0.5	5.6	19.6	10.9
11	Redroot pigweed	9.1	2.6	28.4	0.4	4.6	15.6	10.1
12	Wheat	6.4	1.9	29.5	0.4	5.6	24.0	7.7
13	Cow cockle	9.2	1.6	17.4	0.1	1.1	3.2	6.3
14	Prostrate pigweed	5.2	1.6	30.5	0.2	4.1	15.6	5.8
15	Dandelion	8.5	1.2	14.5	0.1	0.8	2.2	5.3
16	Henbit	2.9	0.2	7.3	0.6	19.7	43.4	5.1
17	Round-leaved mallow	8.1	0.7	8.6	0.1	0.9	2.0	4.2
18	Yellow alyssum	1.6	1.2	75.0	0.2	15.4	15.4	4.1
19	Perennial sow-thistle	6.2	0.9	14.5	< 0.1	0.8	1.4	3.8
20	Wild mustard	1.6	1.0	65.0	0.2	14.6	14.6	3.8
21	Field bindweed	7.0	0.8	10.9	< 0.1	0.4	0.6	3.7
22	American dragonhead	4.0	1.1	27.2	0.1	2.0	2.6	3.6
23	Narrow-leaved hawk's-beard	2.1	0.7	31.8	0.2	10.8	21.6	3.4
24	Prostrate knotweed	6.1	0.4	6.3	< 0.1	0.6	1.6	2.9
25	Spiny annual sow-thistle	3.8	0.5	14.1	0.1	1.8	3.8	2.6
26	Flixweed	4.7	0.4	9.1	< 0.1	0.4	1.0	2.3
27	Quack grass	1.8	0.3	15.0	0.2	9.2	9.2	2.2
28	Barnyard grass	1.3	0.4	30.0	0.1	10.0	10.0	1.9
29	Thyme-leaved spurge	2.8	0.5	16.7	< 0.1	1.5	3.0	1.9
30	Cleavers	2.4	0.4	15.0	< 0.1	2.0	2.2	1.7
31	Shepherd's-purse	3.6	0.3	7.6	< 0.1	0.3	0.4	1.7
32	Russian thistle	3.7	0.2	5.9	< 0.1	0.3	0.6	1.6
33	Pale smartweed	3.2	0.2	5.0	< 0.1	0.2	0.2	1.3
34	Green foxtail	2.5	0.2	8.9	< 0.1	0.4	1.0	1.2
35	Sunflower	1.6	0.1	5.0	0.1	3.2	3.2	1.0
36	Grass	2.0	0.1	6.7	< 0.1	0.3	0.4	0.9
37	Black medick	1.6	0.2	10.0	< 0.1	0.6	0.6	0.8
38	Alfalfa	1.4	0.1	10.0	< 0.1	0.8	0.8	0.8
39	Oats	1.3	0.1	10.0	< 0.1	1.2	1.2	0.7
40	Spear-leaved goosefoot	1.6	0.1	5.0	< 0.1	0.2	0.2	0.7
41	Prickly lettuce	1.3	0.1	5.0	< 0.1	0.8	0.8	0.6
42	Field peas	1.4	0.1	5.0	< 0.1	0.2	0.2	0.6
43	Dogbane species	1.3	0.1	5.0	< 0.1	0.6	0.6	0.6
44	Rose species	1.3	0.1	5.0	< 0.1	0.4	0.4	0.6
45	Barley	1.3	0.1	5.0	< 0.1	0.4	0.4	0.6
46	Goat's-beard	1.3	0.1	5.0	< 0.1	0.2	0.2	0.5
47	Low larkspur	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.3
48	Silvery lupin	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.3
49	Clover species	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.3
50	Timothy	0.7	< 0.1	5.0	< 0.1	0.2	0.2	0.3

Field Survey Summary Tables – Southern Region Broad-Leaved Annual Crops

Table 133. 2010 broad-leaved annual crops in the Southern Region (60 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wheat	34.0	9.7	28.4	1.3	3.7	22.6	38.7
2	Wild buckwheat	40.7	9.6	23.5	0.8	2.0	10.6	34.8
3	Kochia	26.2	6.3	24.1	1.4	5.2	62.2	33.1
4	Wild oats	22.6	5.3	23.6	1.2	5.4	26.0	28.9
5	Canada thistle	21.9	3.5	16.1	0.3	1.4	9.2	14.7
6	Dandelion	23.0	2.2	9.6	0.1	0.5	2.0	10.6
7	Lamb's-quarters	18.3	2.0	11.1	0.2	1.2	4.2	10.6
8	Spiny annual sow-thistle	16.2	2.5	15.6	0.2	1.0	2.8	9.8
9	Cleavers	6.6	2.5	37.7	0.3	5.1	11.8	9.6
10	Flixweed	21.5	1.7	8.0	0.1	0.4	1.2	9.3
11	Barley	13.1	2.2	16.7	0.2	1.6	5.2	9.2
12	Stinkweed	15.8	2.0	12.5	0.2	1.1	5.6	9.1
13	Field bindweed	5.9	2.6	43.4	0.2	3.5	9.0	7.9
14	Redroot pigweed	10.9	1.9	17.2	0.2	1.7	4.6	7.8
15	Russian thistle	8.7	1.9	21.5	0.2	2.6	10.8	7.8
16	Shepherd's-purse	9.6	1.3	13.9	0.1	0.8	1.2	5.4
17	Green foxtail	8.0	1.0	13.0	0.1	1.5	4.4	5.1
18	Perennial sow-thistle	7.5	1.2	15.6	0.1	1.5	4.2	5.0
19	Prostrate knotweed	5.9	1.2	20.0	0.1	1.0	1.0	4.0
20	Foxtail barley	5.6	0.9	15.3	0.1	1.5	4.8	3.8
21	Canola	3.8	0.8	20.9	0.1	2.6	7.4	3.4
22	Stork's-bill	3.9	0.8	20.0	0.1	2.2	2.2	3.2
23	Goat's-beard	5.5	0.9	15.9	< 0.1	0.7	1.4	3.2
24	Thyme-leaved spurge	5.5	0.8	14.1	< 0.1	0.7	1.6	3.0
25	Volunteer grain	3.2	0.9	26.7	0.1	1.6	2.6	2.7
26	Round-leaved mallow	6.4	0.5	7.8	< 0.1	0.3	0.6	2.6
27	Prickly lettuce	1.8	0.1	5.0	0.1	4.2	4.2	1.5
28	Clover species	3.9	0.2	5.0	< 0.1	0.2	0.2	1.4
29	Oats	2.2	0.3	15.0	< 0.1	1.0	1.0	1.3
30	Quack grass	2.2	0.3	13.5	< 0.1	1.1	2.4	1.3
31	Prostrate pigweed	2.8	0.2	7.5	< 0.1	0.3	0.4	1.2
32	Field peas	1.2	0.4	35.0	< 0.1	1.6	1.6	1.1
33	Chickweed	1.8	0.3	15.0	< 0.1	1.2	1.2	1.1
34	Purslane	1.8	0.2	10.0	< 0.1	0.8	0.8	0.9
35	Downy brome	1.2	0.2	15.0	< 0.1	2.2	2.2	0.9
36	Tansy	2.2	0.1	5.0	< 0.1	0.6	0.6	0.9
37	Canada fleabane	2.2	0.1	5.0	< 0.1	0.2	0.2	0.8
38	Narrow-leaved hawk's-beard	2.2	0.1	5.0	< 0.1	0.2	0.2	0.8
39	Bluebur	1.9	0.1	5.0	< 0.1	0.2	0.2	0.7
40	Cow cockle	1.8	0.1	5.0	< 0.1	0.2	0.2	0.6
41	Pale smartweed	1.8	0.1	5.0	< 0.1	0.2	0.2	0.6
42	Biennial wormwood	1.8	0.1	5.0	< 0.1	0.2	0.2	0.6
43	Alfalfa	1.4	0.1	5.0	< 0.1	0.2	0.2	0.5
44	Rose species	0.8	< 0.1	5.0	< 0.1	1.0	1.0	0.3

Table 134. 2010 canola fields in the Southern Region (37 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wheat	42.3	11.4	26.8	1.6	3.8	22.6	47.5
2	Wild buckwheat	45.6	11.6	25.4	1.1	2.3	10.6	42.2
3	Wild oats	25.0	6.4	25.8	1.7	6.7	26.0	36.2
4	Kochia	23.8	4.0	17.0	1.3	5.6	62.2	28.1
5	Cleavers	10.1	3.8	37.7	0.5	5.1	11.8	14.6
6	Lamb's-quarters	20.3	2.2	10.9	0.3	1.5	4.2	12.2
7	Stinkweed	20.2	2.4	11.9	0.2	1.1	5.6	11.7
8	Flixweed	24.4	1.7	6.8	0.1	0.4	1.0	10.1
9	Dandelion	19.6	2.3	11.7	0.1	0.5	2.0	9.8
10	Shepherd's-purse	14.6	2.0	13.9	0.1	0.8	1.2	8.4
11	Green foxtail	12.2	1.6	13.0	0.2	1.5	4.4	7.7
12	Redroot pigweed	9.6	2.1	22.2	0.1	1.5	2.2	7.4
13	Barley	13.4	1.3	10.1	0.1	0.8	1.8	6.8
14	Prostrate knotweed	9.0	1.8	20.0	0.1	1.0	1.0	6.1
15	Foxtail barley	6.8	1.2	18.0	0.1	1.9	4.8	5.1
16	Canada thistle	10.9	1.0	8.9	0.1	0.5	1.4	5.0
17	Stork's-bill	6.0	1.2	20.0	0.1	2.2	2.2	4.9
18	Field bindweed	6.4	1.3	20.1	0.1	1.2	4.6	4.6
19	Spiny annual sow-thistle	8.3	0.8	9.3	0.1	0.6	2.8	3.9
20	Thyme-leaved spurge	5.4	1.0	19.0	0.1	0.9	1.6	3.6
21	Round-leaved mallow	7.1	0.4	5.0	< 0.1	0.2	0.2	2.6
22	Perennial sow-thistle	5.1	0.5	10.0	< 0.1	0.6	0.6	2.5
23	Clover species	6.0	0.3	5.0	< 0.1	0.2	0.2	2.1
24	Oats	3.3	0.5	15.0	< 0.1	1.0	1.0	2.0
25	Quack grass	3.3	0.4	13.5	< 0.1	1.1	2.4	2.0
26	Volunteer grain	2.7	0.5	20.0	< 0.1	0.8	0.8	1.8
27	Field peas	1.8	0.6	35.0	< 0.1	1.6	1.6	1.8
28	Russian thistle	3.3	0.3	10.0	< 0.1	0.4	0.4	1.5
29	Downy brome	1.8	0.3	15.0	< 0.1	2.2	2.2	1.3
30	Tansy	3.3	0.2	5.0	< 0.1	0.6	0.6	1.3
31	Canada fleabane	3.3	0.2	5.0	< 0.1	0.2	0.2	1.2
32	Narrow-leaved hawk's-beard	3.3	0.2	5.0	< 0.1	0.2	0.2	1.2
33	Prostrate pigweed	2.2	0.1	5.0	< 0.1	0.2	0.2	0.8
34	Alfalfa	2.2	0.1	5.0	< 0.1	0.2	0.2	0.8
35	Goat's-beard	1.8	0.1	5.0	< 0.1	0.2	0.2	0.6
36	Rose species	1.1	0.1	5.0	< 0.1	1.0	1.0	0.5

Field Survey Summary Tables – Southern Region Field Pea

Table 135. 2010 field pea fields in the Southern Region (23 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Kochia	30.7	10.6	34.5	1.5	4.7	23.4	42.4
2	Canada thistle	42.8	8.4	19.7	0.8	1.8	9.2	33.2
3	Wheat	18.3	6.4	35.1	0.6	3.3	6.2	21.7
4	Spiny annual sow-thistle	31.3	5.9	18.8	0.3	1.1	2.2	20.9
5	Wild buckwheat	31.4	5.7	18.3	0.3	1.1	5.0	20.7
6	Russian thistle	19.0	4.8	25.4	0.6	3.3	10.8	20.1
7	Field bindweed	5.0	5.0	100.0	0.5	9.0	9.0	14.3
8	Wild oats	18.0	3.2	17.6	0.4	2.1	6.2	14.1
9	Barley	12.7	3.8	30.0	0.4	3.1	5.2	14.0
10	Dandelion	29.6	2.1	7.1	0.1	0.4	1.0	12.3
11	Perennial sow-thistle	12.1	2.4	20.0	0.3	2.1	4.2	10.0
12	Canola	11.0	2.3	20.9	0.3	2.6	7.4	9.9
13	Redroot pigweed	13.4	1.4	10.4	0.3	1.9	4.6	8.9
14	Goat's-beard	12.5	2.4	18.9	0.1	0.8	1.4	7.9
15	Flixweed	15.9	1.8	11.5	0.1	0.5	1.2	7.7
16	Lamb's-quarters	14.4	1.7	11.8	0.1	0.7	0.8	7.3
17	Prickly lettuce	5.2	0.3	5.0	0.2	4.2	4.2	4.7
18	Volunteer grain	4.1	1.4	35.0	0.1	2.6	2.6	4.5
19	Stinkweed	7.5	1.2	15.9	< 0.1	0.6	1.0	4.2
20	Chickweed	5.2	0.8	15.0	0.1	1.2	1.2	3.2
21	Round-leaved mallow	5.2	0.8	15.0	< 0.1	0.6	0.6	2.8
22	Purslane	5.2	0.5	10.0	< 0.1	0.8	0.8	2.6
23	Bluebur	5.6	0.3	5.0	< 0.1	0.2	0.2	2.0
24	Thyme-leaved spurge	5.6	0.3	5.0	< 0.1	0.2	0.2	2.0
25	Prostrate pigweed	4.1	0.4	10.0	< 0.1	0.4	0.4	1.9
26	Cow cockle	5.2	0.3	5.0	< 0.1	0.2	0.2	1.8
27	Pale smartweed	5.2	0.3	5.0	< 0.1	0.2	0.2	1.8
28	Biennial wormwood	5.2	0.3	5.0	< 0.1	0.2	0.2	1.8
29	Foxtail barley	3.4	0.2	5.0	< 0.1	0.2	0.2	1.2

Field Survey Summary Tables – Number of Fields by Crop by Municipal Jurisdiction

Table 136. Number of fields surveyed by crop in each municipal jurisdiction

	Annual crops								Perennial crops
	Cereal					Broad-leaved			Perennial crops
	Spring wheat	Durum	Barley	Oat	Mixed cereal	Canola	Field peas	Mixed annuals	Perennial crops
Peace									
Big Lakes & Northern Sunrise	6	-	-	-	-	5	-	-	2
Clear Hills, Fairview, Peace & Spirit River	6	-	2	3	-	11	5	-	1
Greenview	3	-	2	3	-	3	-	-	1
Northern Lights	2	-	5	-	-	6	3	-	-
Smoky River	4	-	1	-	-	12	-	-	-
North									
Athabasca, Lac La Biche & Lesser Slave River	3	-	3	3	2	6	-	-	4
Barrhead	4	-	5	1	-	-	2	-	-
Beaver	11	-	3	1	-	7	4	-	-
Bonnyville	-	-	8	2	-	5	-	-	1
Camrose	14	-	6	-	-	13	4	-	-
Flagstaff	20	-	2	1	-	13	2	-	1
Lac Ste. Anne & Yellowhead	1	-	2	4	3	2	-	1	5
Leduc & Parkland	2	-	3	1	-	8	-	-	-
Lamont	6	-	3	-	-	7	1	-	1
Minburn	6	-	2	-	-	10	-	-	-
Provost	5	-	8	-	1	2	1	-	-
St. Paul	3	-	6	1	1	4	-	-	-
Sturgeon & Strathcona	11	-	3	2	-	8	1	-	-
Thorhild & Smoky Lake	3	-	-	5	1	7	-	-	4
Two Hills	5	-	6	-	-	6	-	-	-
Vermilion River	8	-	15	2	2	-	3	-	7
Wainwright	5	-	4	1	-	9	3	-	1
Wetaskiwin	6	-	1	-	-	2	1	-	-
Central									
Kneehill	25	-	5	-	-	8	2	-	-
Lacombe & Clearwater	5	-	9	1	-	16	1	-	-
Mountain View	4	-	19	2	-	8	1	-	-
Paintearth	9	-	1	1	-	6	1	-	-
Ponoka	2	-	6	-	-	3	-	-	1
Red Deer	5	-	12	1	-	13	2	-	1
Special Area 2	4	2	10	1	-	1	-	-	-
Special Area 3 and Acadia	14	4	6	-	-	-	-	-	-
Special Area 4	7	-	8	1	-	1	1	-	-
Starland	8	-	5	1	-	4	2	-	1
Stettler	16	-	6	-	1	9	2	-	-
Southern									
Cardston & Pincher Creek	4	-	16	-	-	5	1	-	1
Cypress	11	4	3	-	1	1	1	-	1
Forty Mile	15	6	1	-	-	3	4	-	-
Lethbridge	2	2	12	-	-	4	6	-	-
Taber	8	3	2	-	-	2	-	-	-
Vulcan	16	4	7	1	1	10	5	-	-
Warner	13	6	5	1	-	1	1	-	2
Wheatland & Newell	19	-	12	-	-	10	3	-	-
Willow Creek	15	2	7	1	3	1	2	-	-

Field Survey Summary Tables – Density, Species Richness and Weed-Free Quadrats by Municipal Jurisdiction

Table 137. Number of fields surveyed, density, species richness and weed-free quadrats in the surveyed annual crops in each jurisdiction district

Area	Number of fields surveyed	Density (number/m ²)			Species (number /field)		Weed-free quadrats	
		mean	SE	median	mean	SE	%	SE
Peace								
Big Lakes & Northern Sunrise	11	10.2	3.8	4.9	3.9	0.6	47.2	15.1
Clear Hills, Fairview, Peace & Spirit River	27	7.6	3.0	1.8	2.7	0.5	71.1	8.7
Greenview	11	175.1	59.5	63.2	6.2	1.2	34.2	14.3
Northern Lights	16	88.7	21.9	66.6	9.6	1.0	17.3	9.5
Smoky River	17	9.8	3.0	4.0	6.4	1.1	54.5	12.1
North								
Athabasca, Lac La Biche & Lesser Slave River	17	20.2	7.6	11.1	4.2	0.7	25.1	10.5
Barrhead	12	9.3	4.9	1.8	3.0	0.7	50.6	14.4
Beaver	26	56.8	9.8	34.7	7.0	0.5	14.3	6.9
Bonnyville	15	9.9	2.9	4.1	2.7	0.6	48.1	12.9
Camrose	37	17.2	6.4	4.6	4.3	0.5	48.9	8.2
Flagstaff	38	22.5	3.0	15.7	5.6	0.3	24.1	6.9
Lac Ste. Anne & Yellowhead	13	81.8	34.7	22.3	7.9	1.0	19.7	11.0
Leduc & Parkland	14	16.1	5.6	5.3	5.3	0.8	41.9	13.2
Lamont	17	4.8	2.4	0.1	1.1	0.4	77.0	10.2
Minburn	18	5.2	2.5	1.4	1.4	0.2	71.7	10.6
Provost	17	13.2	4.4	8.7	4.4	0.5	28.5	11.0
St. Paul	15	5.3	1.6	4.3	2.8	0.3	51.6	12.9
Sturgeon & Strathcona	25	4.3	1.6	0.9	2.4	0.4	72.6	8.9
Thorhild & Smoky Lake	16	8.4	1.6	7.6	4.0	0.5	40.3	12.3
Two Hills	17	27.4	4.8	19.8	7.1	0.8	18.2	9.4
Vermilion River	30	19.3	2.7	12.6	8.2	0.4	16.9	6.8
Wainwright	22	6.3	2.5	1.6	2.2	0.5	65.4	10.1
Wetaskiwin	10	13.8	7.9	5.0	2.5	0.8	61.5	15.4
Central								
Kneehill	40	11.4	3.1	3.4	3.3	0.5	57.0	7.8
Lacombe & Clearwater	32	25.5	8.2	7.2	3.9	0.5	45.3	8.8
Mountain View	34	14.8	6.4	4.1	3.2	0.4	54.0	8.5
Paintearth	18	112.1	38.2	39.9	8.9	0.9	8.5	6.6
Ponoka	11	45.9	24.3	4.8	3.5	0.7	42.6	14.9
Red Deer	33	15.1	3.6	5.6	5.7	0.5	38.9	8.5
Special Area 2	18	34.6	18.1	12.9	5.4	0.8	28.0	10.6
Special Area 3 and Acadia	24	21.5	6.9	9.5	5.8	0.6	30.6	9.4
Special Area 4	18	40.4	13.0	18.7	7.2	0.6	15.9	8.6
Starland	20	12.2	2.7	6.6	5.1	0.5	21.4	9.2
Stettler	34	50.1	9.3	24.6	5.4	0.5	24.0	7.3
Southern								
Cardston & Pincher Creek	26	12.3	4.6	2.1	3.4	0.6	57.9	9.7
Cypress	21	8.1	2.4	2.1	3.4	0.5	56.2	10.8
Forty Mile	29	11.3	3.1	2.0	2.8	0.6	62.1	9.0
Lethbridge	26	25.2	11.9	2.8	3.3	0.5	53.9	9.8
Taber	15	7.5	2.1	3.9	3.4	0.5	57.9	12.7
Vulcan	44	11.0	2.8	3.4	4.3	0.5	55.8	7.5
Warner	27	2.5	0.4	2.0	2.9	0.4	70.4	8.8
Wheatland & Newell	44	11.2	2.0	4.8	4.3	0.5	49.8	7.5
Willow Creek	31	6.0	2.1	1.9	2.3	0.4	69.3	8.3

Table 138. 2010 annual crops in Big Lakes & Northern Sunrise in the Peace Region (11 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Field horsetail	70.8	28.8	40.6	6.4	9.0	42.6	123.0
2	Narrow-leaved hawk's-beard	34.1	6.4	18.8	0.4	1.2	2.2	22.3
3	Stinkweed	8.0	4.8	60.0	0.9	11.6	11.6	18.3
4	Cleavers	28.9	3.8	13.2	0.5	1.7	3.8	17.9
5	Canada thistle	39.7	3.2	8.0	0.2	0.4	0.6	16.4
6	Lamb's-quarters	31.6	3.2	10.0	0.1	0.4	0.8	14.0
7	Wheat	16.1	0.8	5.0	0.7	4.4	8.6	12.2
8	Quack grass	10.7	2.5	23.7	0.3	3.2	3.6	9.9
9	Wild buckwheat	20.9	2.1	10.0	0.1	0.4	0.4	9.2
10	Hemp-nettle	20.9	2.1	10.0	0.1	0.4	0.6	9.2
11	Canola	20.9	1.6	7.5	0.1	0.3	0.4	8.3
12	Alfalfa	10.5	2.6	25.0	0.1	1.0	1.0	7.6
13	Foxtail barley	8.0	1.6	20.0	0.1	1.8	1.8	5.8
14	Wild oats	13.2	0.8	6.0	< 0.1	0.3	0.6	4.9
15	Clover species	8.0	0.8	10.0	< 0.1	0.6	0.6	3.7
16	Chickweed	10.5	0.5	5.0	< 0.1	0.2	0.2	3.6
17	Dandelion	10.5	0.5	5.0	< 0.1	0.2	0.2	3.6
18	Barley	10.5	0.5	5.0	< 0.1	0.2	0.2	3.6
19	Red fescue	10.5	0.5	5.0	< 0.1	0.2	0.2	3.6
20	Tartary buckwheat	8.0	0.4	5.0	< 0.1	0.2	0.2	2.8

Field Survey Summary Tables – Clear Hills, Fairview, Peace & Spirit River

Table 139. 2010 annual crops in Clear Hills, Fairview, Peace & Spirit River in the Peace Region (27 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Cleavers	18.7	4.3	23.0	3.3	17.5	70.8	61.0
2	Wild buckwheat	32.6	7.4	22.7	0.7	2.0	11.0	39.6
3	Pineappleweed	10.6	3.1	29.3	0.9	8.7	32.4	23.9
4	Lamb's-quarters	17.5	2.9	16.4	0.5	3.0	11.2	20.6
5	Canola	15.3	3.2	21.2	0.5	3.4	12.0	20.6
6	Wild oats	19.1	2.9	14.9	0.4	2.3	6.6	20.2
7	Field horsetail	20.2	3.0	14.6	0.3	1.3	3.0	18.5
8	Stinkweed	20.5	2.8	13.5	0.3	1.4	5.6	18.3
9	Narrow-leaved hawk's-beard	22.0	2.1	9.6	0.1	0.5	1.2	15.0
10	Canada thistle	15.3	1.2	7.5	0.1	0.8	1.6	10.2
11	Dandelion	10.0	1.2	12.5	0.1	0.9	3.0	8.1
12	Wheat	6.4	1.1	17.3	0.1	1.8	2.8	6.7
13	Clover species	7.7	1.0	12.7	< 0.1	0.6	1.0	5.9
14	Alfalfa	7.7	1.0	12.7	< 0.1	0.5	0.8	5.8
15	Perennial sow-thistle	6.2	0.7	11.0	< 0.1	0.8	1.2	4.7
16	Redroot pigweed	7.5	0.4	5.0	0.1	0.7	1.0	4.4
17	Shepherd's-purse	7.5	0.4	5.0	< 0.1	0.5	0.6	4.2
18	Red fescue	7.5	0.4	5.0	< 0.1	0.2	0.2	3.9
19	Rose species	4.0	0.2	5.0	< 0.1	0.2	0.2	2.1
20	Foxtail barley	3.7	0.2	5.0	< 0.1	0.2	0.2	2.0
21	Hemp-nettle	3.7	0.2	5.0	< 0.1	0.2	0.2	2.0
22	Pale smartweed	3.7	0.2	5.0	< 0.1	0.2	0.2	2.0

Table 140. 2010 annual crops in Greenview in the Peace Region (11 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	52.2	21.7	41.5	36.6	70.2	313.6	39.7
2	Corn spurry	19.5	17.8	91.3	25.5	130.6	160.0	26.2
3	Dandelion	30.8	19.5	63.2	19.7	64.0	102.4	25.5
4	Clover species	42.1	17.2	40.9	16.3	38.7	162.4	24.3
5	Hemp-nettle	51.0	18.4	36.1	11.1	21.9	57.6	23.3
6	Stinkweed	41.6	17.5	42.1	12.1	29.1	57.6	21.9
7	Lamb's-quarters	19.5	17.7	90.8	11.2	57.7	65.6	18.0
8	Field horsetail	49.0	10.1	20.5	8.2	16.6	50.4	17.3
9	Pale smartweed	30.8	10.6	34.4	4.4	14.3	47.2	12.5
10	Quack grass	29.6	7.3	24.8	3.8	12.7	23.2	10.4
11	Chickweed	29.6	7.3	24.6	2.4	8.0	24.8	9.6
12	Narrow-leaved hawk's-beard	19.5	8.0	40.8	3.3	16.7	22.4	8.8
13	Shepherd's-purse	22.6	4.0	17.8	2.0	8.8	12.0	6.7
14	Alfalfa	11.3	6.8	60.0	2.2	19.2	19.2	6.3
15	Canada thistle	21.4	3.6	16.8	1.9	9.1	16.0	6.3
16	Canola	28.9	2.6	9.0	0.6	2.2	7.2	6.2
17	Dock species	10.1	2.5	25.0	5.6	56.0	56.0	6.0
18	White cockle	11.3	4.5	40.0	3.0	26.4	26.4	5.7
19	Redroot pigweed	21.4	2.7	12.6	1.1	5.0	8.0	5.3
20	Perennial sow-thistle	21.4	1.1	5.0	1.2	5.5	9.6	4.6
21	American vetch	8.2	4.1	50.0	1.5	18.4	18.4	4.1
22	Common groundsel	10.1	1.0	10.0	0.9	8.8	8.8	2.6
23	Grass	10.1	1.0	10.0	0.2	1.6	1.6	2.2
24	Oats	11.3	0.6	5.0	0.2	1.6	1.6	2.2
25	Spiny annual sow-thistle	10.1	0.5	5.0	0.1	0.8	0.8	1.9
26	Wheat	10.1	0.5	5.0	0.1	0.8	0.8	1.9
27	Kochia	1.2	0.1	10.0	< 0.1	4.0	4.0	0.3

Field Survey Summary Tables – Northern Lights

Table 141. 2010 annual crops in Northern Lights in the Peace Region (16 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Cleavers	87.5	35.9	41.0	30.7	35.1	135.8	57.6
2	Field horsetail	70.9	25.5	36.0	11.7	16.6	50.2	30.5
3	Narrow-leaved hawk's-beard	79.2	28.9	36.4	6.8	8.6	28.8	27.1
4	Wild buckwheat	64.6	26.0	40.3	6.9	10.7	74.2	24.6
5	Canola	64.5	22.1	34.2	3.7	5.7	16.8	19.4
6	Spiny annual sow-thistle	51.0	13.4	26.3	7.5	14.6	101.0	18.9
7	Chickweed	23.9	18.1	75.5	8.3	34.5	41.2	18.8
8	Dandelion	64.6	22.7	35.1	1.6	2.5	5.0	17.3
9	Stinkweed	46.9	9.3	19.9	2.8	5.9	10.0	11.6
10	Clover species	59.4	7.3	12.4	1.4	2.4	23.4	10.6
11	Hemp-nettle	53.1	8.9	16.8	0.9	1.7	8.0	9.9
12	Meadow brome	19.8	12.9	65.0	1.7	8.4	8.4	8.9
13	Pineappleweed	16.6	4.2	25.0	2.9	17.5	57.8	6.6
14	Lamb's-quarters	36.5	3.7	10.0	0.2	0.5	1.2	5.4
15	Barley	23.9	3.0	12.6	0.5	2.1	2.2	4.2
16	Common groundsel	32.3	1.8	5.6	0.1	0.2	0.4	4.1
17	Purple vetchling	23.9	2.4	10.0	0.1	0.5	0.8	3.5
18	Red fescue	19.8	3.0	15.0	0.3	1.4	1.4	3.5
19	Canada thistle	24.0	1.4	5.9	0.3	1.2	1.2	3.3
20	Perennial sow-thistle	23.9	1.4	5.9	0.1	0.3	1.0	3.1
21	Alfalfa	19.8	1.0	5.0	< 0.1	0.2	0.2	2.5
22	Rough cinquefoil	10.5	1.6	15.0	0.1	0.8	0.8	1.8
23	Wild oats	8.4	1.5	17.5	0.1	1.1	1.4	1.5
24	Shepherd's-purse	8.4	0.8	10.0	0.1	0.7	0.8	1.3
25	Broad-leaved plantain	8.3	0.6	7.5	< 0.1	0.5	0.6	1.2
26	Wheat	8.3	0.4	5.0	< 0.1	0.3	0.4	1.1
27	Quack grass	6.3	0.3	5.0	< 0.1	0.4	0.4	0.8
28	Henbit	4.2	0.2	5.0	< 0.1	0.2	0.2	0.5
29	Willowherb species	4.2	0.2	5.0	< 0.1	0.2	0.2	0.5

Table 142. 2010 annual crops in Smoky River in the Peace Region (17 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	58.8	14.0	23.8	1.1	1.8	6.6	35.3
2	Lamb's-quarters	39.7	10.4	26.2	1.4	3.4	17.6	31.3
3	Cleavers	39.7	9.0	22.7	1.1	2.7	6.8	26.7
4	Canada thistle	58.8	7.6	13.0	0.7	1.2	2.8	24.8
5	Dandelion	39.7	9.7	24.4	0.5	1.4	4.0	22.1
6	Wild oats	39.7	5.2	13.1	0.7	1.7	5.2	18.6
7	Field horsetail	48.5	5.3	10.9	0.5	1.0	2.4	18.2
8	Canola	5.1	2.6	50.0	1.3	25.6	25.6	17.0
9	Quack grass	22.8	3.2	13.9	0.7	3.1	7.0	14.2
10	Pale smartweed	39.7	3.1	7.9	0.2	0.5	1.4	11.6
11	Shepherd's-purse	33.1	3.5	10.6	0.2	0.6	1.8	11.0
12	Wheat	15.4	3.1	20.0	0.3	2.2	5.0	9.2
13	Clover species	20.6	3.1	15.0	0.1	0.7	1.4	8.0
14	Stinkweed	19.1	2.4	12.7	0.2	1.0	2.4	7.5
15	Hemp-nettle	19.1	1.9	10.0	0.1	0.5	0.6	6.0
16	Bluebur	14.0	1.7	11.8	0.1	0.7	0.8	5.0
17	Narrow-leaved hawk's-beard	10.3	1.8	17.5	0.1	1.0	1.8	4.6
18	Purple vetchling	15.5	0.8	5.0	< 0.1	0.3	0.4	3.8
19	Yellow sweet-clover	10.3	1.3	12.5	0.1	0.6	0.8	3.6
20	Perennial sow-thistle	8.8	0.9	10.0	0.1	1.0	1.0	3.2
21	Foxtail barley	10.3	0.5	5.0	< 0.1	0.4	0.6	2.6
22	Spear-leaved goosefoot	5.1	0.8	15.0	0.1	1.2	1.2	2.3
23	Broad-leaved plantain	6.7	0.3	5.0	0.1	1.0	1.0	2.1
24	American vetch	6.7	0.3	5.0	< 0.1	0.2	0.2	1.6
25	Alfalfa	5.1	0.3	5.0	< 0.1	0.4	0.4	1.3
26	Northern bedstraw	5.1	0.3	5.0	< 0.1	0.2	0.2	1.2
27	Chickweed	5.1	0.3	5.0	< 0.1	0.2	0.2	1.2
28	Golden corydalis	5.1	0.3	5.0	< 0.1	0.2	0.2	1.2
29	Redroot pigweed	5.1	0.3	5.0	< 0.1	0.2	0.2	1.2
30	Spiny annual sow-thistle	5.1	0.3	5.0	< 0.1	0.2	0.2	1.2
31	Willowherb species	5.1	0.3	5.0	< 0.1	0.2	0.2	1.2
32	Dock species	5.1	0.3	5.0	< 0.1	0.2	0.2	1.2

Field Survey Summary Tables – Athabasca, Lac La Biche & Lesser Slave River

Table 143. 2010 annual crops in Athabasca, Lac La Biche & Lesser Slave River in the North Region (17 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Lamb's-quarters	22.4	10.2	45.3	4.2	18.6	67.2	34.0
2	Wild buckwheat	41.1	15.0	36.5	1.6	4.0	14.6	29.9
3	Quack grass	31.4	10.1	32.1	2.6	8.3	31.6	28.5
4	Chickweed	24.9	10.9	43.9	1.4	5.5	10.0	21.4
5	Canada thistle	31.4	10.2	32.5	0.8	2.7	5.4	19.8
6	Dandelion	47.3	7.0	14.8	0.5	1.0	2.8	19.3
7	Cleavers	19.6	9.8	50.0	1.1	5.6	11.2	17.9
8	Stinkweed	13.4	6.3	47.0	1.5	11.1	27.0	15.5
9	Canola	23.7	7.9	33.5	0.7	3.1	9.8	15.5
10	Hemp-nettle	8.1	4.9	60.0	1.9	23.5	33.2	15.3
11	Pale smartweed	8.1	4.5	55.0	1.3	15.9	28.2	11.9
12	Perennial sow-thistle	23.7	4.5	19.1	0.3	1.2	2.8	10.7
13	Clover species	13.4	4.0	30.2	0.3	2.6	3.6	8.1
14	Black medick	6.5	4.9	75.0	0.5	7.2	7.2	7.8
15	Common groundsel	13.1	3.6	27.5	0.3	2.5	2.8	7.6
16	Showy milkweed	13.1	2.3	17.5	0.1	1.1	1.4	5.7
17	Shepherd's-purse	10.6	2.2	20.4	0.2	1.6	2.4	5.1
18	Narrow-leaved hawk's-beard	6.5	1.6	25.0	0.2	3.4	3.4	4.0
19	Spiny annual sow-thistle	9.3	1.5	15.7	0.1	1.2	1.8	4.0
20	Henbit	6.5	2.0	30.0	0.1	2.2	2.2	3.8
21	Golden corydalis	5.3	1.1	20.0	0.1	2.6	2.6	2.8
22	Tartary buckwheat	6.5	1.0	15.0	< 0.1	0.6	0.6	2.5
23	American vetch	4.1	0.4	10.0	< 0.1	0.6	0.6	1.4
24	Broad-leaved plantain	4.1	0.2	5.0	< 0.1	1.2	1.2	1.4
25	Wormseed mustard	4.1	0.4	10.0	< 0.1	0.4	0.4	1.4
26	Smooth brome	4.1	0.2	5.0	< 0.1	0.2	0.2	1.2
27	Rough cinquefoil	4.1	0.2	5.0	< 0.1	0.2	0.2	1.2
28	Prostrate knotweed	4.1	0.2	5.0	< 0.1	0.2	0.2	1.2
29	Mouse-eared chickweed	4.1	0.2	5.0	< 0.1	0.2	0.2	1.2

Table 144. 2010 annual crops in Barrhead in the North Region (12 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Tartary buckwheat	54.4	17.9	33.0	1.5	2.7	11.8	55.2
2	Canola	57.2	14.0	24.5	1.0	1.7	5.6	45.9
3	Wild oats	46.6	8.1	17.3	1.0	2.2	5.0	36.2
4	Pale smartweed	32.0	10.3	32.2	0.7	2.3	5.2	30.9
5	Chickweed	10.6	4.7	44.2	1.6	15.1	39.0	26.3
6	Alfalfa	6.7	3.5	51.3	0.8	11.8	25.4	14.9
7	Scentless chamomile	17.5	3.5	20.0	0.2	1.2	1.2	12.2
8	Hemp-nettle	14.5	3.0	20.7	0.2	1.3	2.2	10.3
9	Dandelion	7.7	3.9	50.0	0.3	3.6	5.8	10.2
10	White cockle	7.7	2.5	32.5	0.3	3.8	6.8	8.7
11	Field horsetail	6.7	1.9	27.9	0.3	5.2	8.4	8.2
12	Perennial sow-thistle	3.9	3.1	80.0	0.3	7.6	7.6	8.1
13	Stinkweed	3.9	1.4	35.0	0.4	11.4	11.4	7.6
14	Lamb's-quarters	3.9	1.4	35.0	0.1	3.4	3.4	4.3
15	Narrow-leaved hawk's-beard	3.9	1.2	30.0	0.1	3.6	3.6	4.2
16	Clover species	3.9	1.0	25.0	0.1	1.8	1.8	3.2
17	Cleavers	3.9	0.8	20.0	0.1	2.2	2.2	3.1
18	Wheat	3.9	0.6	15.0	0.1	1.4	1.4	2.5
19	Corn spurry	3.9	0.2	5.0	0.1	2.4	2.4	2.5
20	Rough cinquefoil	3.9	0.4	10.0	< 0.1	0.4	0.4	1.9
21	Wild buckwheat	3.9	0.2	5.0	< 0.1	0.6	0.6	1.8
22	Canada thistle	3.9	0.2	5.0	< 0.1	0.2	0.2	1.6

Field Survey Summary Tables – Beaver

Table 145. 2010 annual crops in Beaver in the North Region (26 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Canola	51.9	24.5	47.2	7.7	14.8	85.4	34.8
2	Perennial sow-thistle	51.8	12.4	24.0	10.1	19.4	189.4	32.1
3	Spiny annual sow-thistle	37.0	16.8	45.5	6.8	18.5	76.2	26.9
4	Western marsh cudweed	37.1	10.2	27.5	7.9	21.2	76.0	24.9
5	Wild buckwheat	59.2	12.2	20.6	1.3	2.3	17.4	17.7
6	Cleavers	29.6	5.9	20.1	5.7	19.2	147.0	17.6
7	Stinkweed	37.0	12.4	33.5	2.9	7.9	25.8	17.4
8	Scentless chamomile	25.9	12.2	47.1	3.5	13.7	69.2	16.8
9	Chickweed	29.5	9.4	31.8	1.7	5.8	19.8	12.6
10	Canada thistle	48.1	6.9	14.2	0.7	1.4	6.2	11.9
11	Shepherd's-purse	22.1	8.3	37.5	1.7	7.6	29.8	10.8
12	Wild oats	25.8	6.5	25.0	1.7	6.6	22.6	10.4
13	Barley	14.9	6.7	45.1	1.0	6.8	11.4	7.7
14	Narrow-leaved hawk's-beard	29.6	4.4	15.0	0.5	1.8	7.0	7.7
15	Wheat	18.5	5.0	27.0	0.6	3.2	8.2	6.5
16	Lamb's-quarters	22.2	2.8	12.5	0.3	1.5	3.6	5.3
17	Field horsetail	18.5	2.8	15.0	0.6	3.2	7.8	5.3
18	Dandelion	26.0	2.0	7.9	0.1	0.4	0.6	5.0
19	Stork's-bill	7.4	3.7	50.1	0.8	11.0	19.6	4.6
20	Hemp-nettle	14.8	1.5	10.0	0.1	1.0	2.4	3.2
21	Pale smartweed	11.1	1.7	15.1	0.2	1.4	3.6	2.8
22	Common groundsel	14.8	0.7	5.0	< 0.1	0.3	0.6	2.6
23	Redroot pigweed	11.1	1.1	10.0	< 0.1	0.4	0.8	2.3
24	Clover species	7.4	1.7	22.5	0.1	1.8	3.2	2.2
25	Green foxtail	7.4	0.9	12.5	0.1	0.7	1.0	1.7
26	American vetch	7.4	0.4	5.0	< 0.1	0.2	0.2	1.3
27	Nuttall's alkali grass	3.7	0.2	5.0	0.3	9.2	9.2	1.2
28	Black medick	3.7	0.6	15.0	< 0.1	0.6	0.6	0.9
29	Broad-leaved plantain	3.7	0.4	10.0	< 0.1	0.6	0.6	0.8
30	Pineappleweed	3.7	0.4	10.0	< 0.1	0.6	0.6	0.8
31	Purslane speedwell	3.7	0.4	10.0	< 0.1	0.6	0.6	0.8
32	Bluebur	3.7	0.4	10.0	< 0.1	0.4	0.4	0.8
33	Field mint	3.7	0.2	5.0	< 0.1	1.0	1.0	0.7
34	Foxtail barley	3.7	0.2	5.0	< 0.1	0.4	0.4	0.7
35	Rough cinquefoil	3.7	0.2	5.0	< 0.1	0.2	0.2	0.6
36	Yellow sweet-clover	3.7	0.2	5.0	< 0.1	0.2	0.2	0.6

Table 146. 2010 annual crops in Bonnyville in the North Region (15 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	31.3	12.8	41.0	2.1	6.8	27.8	50.0
2	Wild oats	43.7	9.7	22.1	1.6	3.7	8.6	45.2
3	Canada thistle	43.8	9.4	21.4	1.0	2.3	5.4	39.0
4	Dandelion	18.8	11.6	61.7	1.6	8.6	18.8	38.5
5	Chickweed	12.5	6.3	50.0	1.0	7.8	15.4	22.7
6	Stinkweed	12.5	6.3	50.0	0.8	6.7	13.2	21.3
7	Perennial sow-thistle	25.0	5.0	20.0	0.3	1.3	2.4	19.2
8	Field horsetail	6.3	5.6	90.0	0.7	11.2	11.2	16.8
9	Lamb's-quarters	18.8	4.4	23.3	0.3	1.7	2.2	16.0
10	Narrow-leaved hawk's-beard	12.5	1.6	12.5	0.1	0.9	1.2	7.8
11	Spiny annual sow-thistle	12.5	1.3	10.0	0.1	0.5	0.8	6.9
12	Green foxtail	6.3	0.9	15.0	0.1	1.0	1.0	4.2
13	Scentless chamomile	6.3	0.6	10.0	< 0.1	0.6	0.6	3.5
14	Foxtail barley	6.3	0.3	5.0	< 0.1	0.4	0.4	3.0
15	Hemp-nettle	6.3	0.3	5.0	< 0.1	0.2	0.2	2.9
16	Canola	6.3	0.3	5.0	< 0.1	0.2	0.2	2.9

Field Survey Summary Tables – Camrose

Table 147. 2010 annual crops in Camrose in the North Region (37 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	50.4	15.8	31.4	8.8	17.4	174.0	81.6
2	Wild buckwheat	48.3	10.8	22.3	1.3	2.7	20.0	31.7
3	Canola	35.4	9.2	26.0	0.8	2.3	10.2	23.8
4	Cleavers	22.4	7.6	34.1	1.5	6.8	34.8	23.2
5	Povertyweed	29.9	4.8	15.9	1.5	4.9	20.0	21.1
6	Perennial sow-thistle	32.0	5.8	18.1	0.7	2.2	17.8	18.4
7	Canada thistle	29.6	3.5	11.9	0.2	0.7	2.2	12.2
8	Wheat	21.8	3.8	17.5	0.3	1.5	7.4	11.4
9	Redroot pigweed	21.4	2.7	12.6	0.3	1.5	4.6	10.0
10	Hemp-nettle	14.6	3.0	20.4	0.3	2.4	3.2	9.0
11	Wild oats	10.9	2.9	26.3	0.4	4.0	14.8	8.4
12	Lamb's-quarters	21.8	2.2	10.0	0.1	0.6	1.6	8.3
13	Dandelion	15.7	1.8	11.7	0.1	0.6	2.0	6.3
14	Narrow-leaved hawk's-beard	13.6	1.4	10.0	0.1	0.6	2.2	5.3
15	Green foxtail	5.9	1.6	26.7	0.1	2.0	3.6	4.0
16	Field horsetail	10.2	0.6	6.3	0.1	0.8	2.2	3.6
17	Quack grass	7.8	0.9	11.7	0.1	0.8	1.0	3.3
18	Wild chamomile	2.7	1.2	45.0	0.2	6.2	6.2	3.1
19	Tartary buckwheat	5.4	1.1	20.0	0.1	1.4	2.0	3.0
20	Spiny annual sow-thistle	7.8	0.7	8.5	< 0.1	0.4	0.8	2.8
21	Stinkweed	8.2	0.5	6.7	< 0.1	0.3	0.6	2.7
22	Pineappleweed	5.4	0.5	10.0	< 0.1	0.7	1.2	2.1
23	Common groundsel	5.4	0.4	7.5	< 0.1	0.7	1.2	2.0
24	Prostrate knotweed	2.7	0.3	10.0	< 0.1	0.4	0.4	1.0
25	Shepherd's-purse	2.7	0.3	10.0	< 0.1	0.4	0.4	1.0
26	Biennial wormwood	2.7	0.1	5.0	< 0.1	0.4	0.4	0.9

Table 148. 2010 annual crops in Flagstaff in the North Region (38 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	78.1	27.6	35.3	3.2	4.1	21.4	47.4
2	Canola	46.5	12.3	26.4	1.7	3.7	36.8	24.7
3	Narrow-leaved hawk's-beard	50.0	12.0	24.0	1.2	2.4	19.2	22.7
4	Lamb's-quarters	40.9	9.5	23.3	1.6	3.8	18.2	20.9
5	Quack grass	43.6	8.3	19.1	1.3	3.0	25.0	19.4
6	Shepherd's-purse	26.1	9.5	36.2	1.8	6.9	27.6	19.3
7	Cleavers	24.7	8.0	32.3	1.9	7.5	41.0	18.3
8	Canada thistle	39.5	6.5	16.5	0.6	1.5	3.6	14.4
9	Bluebur	23.2	3.8	16.2	1.1	4.7	18.8	11.7
10	Common groundsel	7.7	3.5	44.8	1.3	16.6	35.0	9.5
11	Wild oats	9.9	3.7	37.3	1.0	10.0	30.0	8.8
12	Tartary buckwheat	15.5	4.3	27.9	0.4	2.7	6.0	7.7
13	Spiny annual sow-thistle	14.7	4.7	31.7	0.4	2.6	6.4	7.6
14	Dandelion	14.9	2.9	19.3	0.6	3.9	24.8	7.2
15	Hemp-nettle	17.6	2.9	16.2	0.2	1.3	3.4	6.2
16	Pygmyflower	7.0	3.1	45.0	0.4	6.2	11.6	5.4
17	Downy brome	8.5	2.1	25.0	0.5	5.4	14.6	5.0
18	Thyme-leaved spurge	3.5	2.8	80.0	0.5	15.0	15.0	4.9
19	Field horsetail	13.4	1.0	7.4	0.3	2.5	7.4	4.6
20	Dock species	7.7	1.9	25.1	0.4	4.9	14.0	4.4
21	Clover species	4.2	1.4	32.5	0.5	10.9	19.8	3.8
22	Canada fleabane	5.6	2.1	38.1	0.2	3.5	4.0	3.4
23	Field bindweed	5.6	1.7	29.9	0.2	3.2	5.0	3.0
24	Ball mustard	6.4	1.2	18.3	0.2	3.2	7.4	2.9
25	Corn spurry	5.6	1.1	18.8	0.2	3.1	4.6	2.5
26	Narrow-leaved milk-vetch	2.1	1.1	50.0	0.2	11.6	11.6	2.2
27	Wheat	7.0	0.9	12.5	< 0.1	0.6	0.6	2.1
28	Stinkweed	2.1	1.0	45.0	0.2	9.4	9.4	1.9
29	Pineappleweed	5.6	0.6	10.7	0.1	1.6	3.8	1.8
30	Black medick	2.1	0.4	20.0	0.3	11.8	11.8	1.8
31	Perennial sow-thistle	2.1	0.6	30.0	0.1	3.6	3.6	1.2
32	Redroot pigweed	3.5	0.2	5.0	< 0.1	0.2	0.2	0.8
33	Stork's-bill	3.5	0.2	5.0	< 0.1	0.2	0.2	0.8
34	Cow cockle	2.1	0.3	15.0	< 0.1	1.0	1.0	0.7
35	Round-leaved mallow	2.1	0.1	5.0	< 0.1	0.8	0.8	0.5
36	Caraway	2.1	0.1	5.0	< 0.1	0.2	0.2	0.5

Field Survey Summary Tables – Lac Ste. Anne & Yellowhead

Table 149. 2010 annual crops in Lac Ste. Anne & Yellowhead in the North Region (13 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Corn spurry	25.3	20.8	82.1	37.0	146.4	362.0	56.8
2	Stinkweed	69.1	42.1	60.9	9.0	13.1	32.8	36.6
3	Lamb's-quarters	52.6	24.8	47.2	8.0	15.2	44.4	26.4
4	Wild buckwheat	78.0	29.3	37.6	3.7	4.7	16.0	26.1
5	Hemp-nettle	78.0	21.2	27.1	3.9	4.9	30.8	23.1
6	Dandelion	67.2	22.4	33.3	2.7	4.0	8.4	20.8
7	Chickweed	47.1	13.2	28.0	5.0	10.7	20.2	17.4
8	Wild oats	30.9	12.0	39.0	1.6	5.2	12.8	10.7
9	Clover species	34.3	7.6	22.0	1.8	5.2	13.2	9.6
10	Spiny annual sow-thistle	9.0	8.5	95.0	3.3	36.4	36.4	8.5
11	Canola	27.4	6.3	23.0	1.2	4.5	17.8	7.5
12	Canada thistle	30.8	5.4	17.4	0.6	2.0	6.8	6.8
13	Shepherd's-purse	30.8	5.2	16.8	0.4	1.2	2.6	6.4
14	Pale smartweed	34.3	4.0	11.5	0.3	0.8	2.0	6.3
15	Cleavers	16.5	5.2	31.7	1.3	8.0	19.6	5.8
16	Field horsetail	32.7	1.6	5.0	0.1	0.3	0.4	4.9
17	Flixweed	21.8	3.5	16.2	0.1	0.6	0.8	4.4
18	Barley	16.3	3.3	20.0	0.2	1.2	1.2	3.6
19	Ball mustard	9.0	4.5	50.0	0.5	5.4	5.4	3.5
20	Narrow-leaved hawk's-beard	16.3	1.6	10.0	0.1	0.6	0.6	2.9
21	Rough cinquefoil	5.5	3.6	65.0	0.4	7.4	7.4	2.6
22	Alfalfa	5.5	2.2	40.0	0.3	6.0	6.0	2.0
23	Yellow sweet-clover	5.5	0.5	10.0	0.1	1.4	1.4	1.0
24	Tall buttercup	5.5	0.5	10.0	0.1	1.2	1.2	1.0
25	Night-flowering catchfly	5.5	0.5	10.0	< 0.1	0.4	0.4	0.9
26	Broad-leaved plantain	5.5	0.3	5.0	< 0.1	0.4	0.4	0.8
27	Marsh yellow cress	5.5	0.3	5.0	< 0.1	0.2	0.2	0.8
28	Green foxtail	5.5	0.3	5.0	< 0.1	0.2	0.2	0.8
29	Wormseed mustard	5.5	0.3	5.0	< 0.1	0.2	0.2	0.8
30	Pineappleweed	5.5	0.3	5.0	< 0.1	0.2	0.2	0.8

Table 150. 2010 annual crops in Leduc & Parkland in the North Region (14 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	62.6	20.2	32.3	2.4	3.8	12.8	41.5
2	Canada thistle	92.8	14.2	15.3	1.1	1.1	3.8	34.6
3	Corn spurry	32.0	11.5	36.0	3.1	9.7	24.6	33.8
4	Field horsetail	23.1	11.6	50.2	1.8	7.6	17.0	23.9
5	Perennial sow-thistle	34.0	14.5	42.6	1.0	3.0	6.6	23.5
6	Hemp-nettle	28.5	10.5	36.8	1.6	5.5	16.6	22.9
7	Field bindweed	23.1	9.1	39.4	0.8	3.3	7.6	15.9
8	Clover species	8.8	6.6	75.0	1.4	16.4	16.4	15.5
9	Dandelion	21.4	8.1	37.8	0.6	2.7	5.2	13.6
10	Shepherd's-purse	23.1	5.8	25.3	0.7	3.0	7.2	13.0
11	Wild buckwheat	28.6	6.8	23.8	0.4	1.3	4.2	12.7
12	Lamb's-quarters	21.4	2.1	10.0	0.2	0.8	1.4	6.7
13	Chickweed	14.3	1.8	12.5	0.3	2.4	4.6	6.2
14	White cockle	16.0	2.6	16.2	0.1	0.8	1.6	5.7
15	Alfalfa	16.0	1.9	11.7	0.1	0.8	1.2	5.2
16	Wild mustard	16.0	1.6	10.0	0.1	0.4	0.4	4.6
17	Wheat	12.6	1.2	9.3	0.1	0.9	1.6	3.9
18	Cleavers	7.2	1.8	25.0	0.1	2.0	2.0	3.6
19	Barley	7.2	1.8	25.0	0.1	1.8	1.8	3.5
20	Ball mustard	8.8	0.4	5.0	< 0.1	0.2	0.2	2.1
21	Pale smartweed	8.8	0.4	5.0	< 0.1	0.2	0.2	2.1
22	Stork's-bill	7.2	0.7	10.0	< 0.1	0.4	0.4	2.1
23	Barnyard grass	7.2	0.4	5.0	< 0.1	0.6	0.6	1.9
24	Cow cockle	7.2	0.4	5.0	< 0.1	0.2	0.2	1.7

Field Survey Summary Tables – Lamont Crops

Table 151. 2010 annual crops in Lamont in the North Region (17 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stork's-bill	19.5	7.5	38.3	2.0	10.0	29.2	86.6
2	Canola	6.5	6.5	100.0	2.0	30.0	30.0	71.3
3	Lamb's-quarters	17.8	3.3	18.7	0.3	1.8	3.4	35.3
4	Perennial sow-thistle	13.0	2.6	20.0	0.1	1.1	1.2	24.6
5	Wild buckwheat	13.0	1.6	12.5	0.1	1.0	1.4	20.5
6	Green foxtail	6.5	1.0	15.0	0.1	1.6	1.6	11.7
7	Dandelion	6.5	1.0	15.0	< 0.1	0.6	0.6	10.4
8	Quack grass	6.5	0.7	10.0	0.1	1.4	1.4	10.2
9	Canada thistle	6.5	0.7	10.0	< 0.1	0.6	0.6	9.1
10	Field horsetail	6.5	0.3	5.0	< 0.1	0.2	0.2	7.3
11	Cleavers	5.6	0.3	5.0	< 0.1	0.4	0.4	6.6
12	Spiny annual sow-thistle	4.8	0.5	10.0	< 0.1	0.4	0.4	6.5

Table 152. 2010 annual crops in Minburn in the North Region (18 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	29.9	8.9	29.7	1.8	5.9	28.2	77.2
2	Canada thistle	28.1	9.1	32.6	0.9	3.2	6.2	60.3
3	Redroot pigweed	14.1	6.3	44.9	0.9	6.4	15.0	43.4
4	Tartary buckwheat	12.4	4.3	34.7	0.5	4.2	9.6	29.6
5	Shepherd's-purse	21.0	2.9	13.8	0.2	1.1	2.2	26.5
6	Cleavers	15.7	2.4	15.0	0.2	1.5	3.4	21.5
7	Pale smartweed	5.3	3.2	60.0	0.3	5.0	5.0	16.8
8	Quack grass	8.8	1.6	18.1	0.2	2.1	4.6	13.8
9	Wild oats	7.1	0.7	10.0	0.2	3.0	3.0	10.9

Field Survey Summary Tables – Provost

Table 153. 2010 annual crops in Provost in the North Region (17 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	81.9	27.3	33.3	2.4	2.9	5.8	63.8
2	Green foxtail	26.4	14.1	53.3	5.1	19.5	90.0	58.9
3	Canada thistle	71.2	10.6	14.9	0.9	1.3	4.8	33.9
4	Narrow-leaved hawk's-beard	27.6	10.3	37.5	1.0	3.6	9.4	24.1
5	Stork's-bill	13.0	9.2	70.9	1.0	8.0	15.4	20.0
6	Lamb's-quarters	33.0	5.0	15.1	0.4	1.2	5.4	15.4
7	Wild oats	29.1	4.9	16.8	0.5	1.8	4.2	15.4
8	Hemp-nettle	22.5	2.5	11.1	0.3	1.5	3.8	10.2
9	Kochia	22.0	2.5	11.5	0.2	0.7	0.8	8.7
10	Round-leaved mallow	6.7	3.7	55.0	0.4	6.0	6.0	8.2
11	Shepherd's-purse	14.2	2.4	16.7	0.3	1.8	2.8	7.5
12	Cleavers	17.8	2.0	11.0	0.2	1.0	1.4	7.3
13	Foxtail barley	13.4	1.7	12.5	0.1	1.1	1.4	5.8
14	Perennial sow-thistle	15.0	0.7	5.0	0.1	0.5	0.6	4.7
15	Dandelion	6.7	1.0	15.0	0.1	0.8	0.8	2.9
16	Canola	4.7	0.7	15.0	< 0.1	0.6	0.6	2.0
17	Redroot pigweed	4.3	0.6	15.0	< 0.1	0.8	0.8	1.9
18	Smooth brome	4.7	0.5	10.0	< 0.1	0.4	0.4	1.7
19	Quack grass	4.7	0.5	10.0	< 0.1	0.4	0.4	1.7
20	Western snowberry	4.7	0.5	10.0	< 0.1	0.4	0.4	1.7
21	Stinkweed	4.7	0.2	5.0	< 0.1	0.4	0.4	1.5
22	Flixweed	4.7	0.2	5.0	< 0.1	0.2	0.2	1.4
23	Oats	4.7	0.2	5.0	< 0.1	0.2	0.2	1.4

Table 154. 2010 annual crops in St. Paul in the North Region (15 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	91.2	22.1	24.2	1.9	2.1	6.6	108.7
2	Canada thistle	45.5	11.3	24.7	0.8	1.8	4.6	52.0
3	Quack grass	19.1	4.1	21.7	1.0	5.2	24.2	32.9
4	Dandelion	46.0	5.3	11.6	0.3	0.6	1.0	31.1
5	Wild oats	14.7	3.7	25.3	0.9	6.1	9.4	29.0
6	Canola	18.3	3.1	17.2	0.2	1.3	2.4	16.7
7	Redroot pigweed	19.1	1.3	7.1	0.1	0.4	0.4	10.7
8	Flixweed	12.8	2.0	15.8	0.1	0.7	1.2	10.0
9	Green foxtail	8.8	1.3	15.0	0.1	0.6	0.6	6.6
10	Stinkweed	4.9	0.2	5.0	< 0.1	0.2	0.2	2.4

Field Survey Summary Tables – Sturgeon & Strathcona

Table 155. 2010 annual crops in Sturgeon & Strathcona in the North Region (25 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wheat	24.2	5.4	22.5	1.3	5.5	28.8	54.6
2	Canada thistle	35.5	7.4	20.8	0.7	1.8	5.4	48.5
3	Wild buckwheat	24.2	4.2	17.5	0.2	0.9	2.4	25.5
4	Cleavers	24.2	3.0	12.5	0.2	0.6	1.6	21.2
5	Field horsetail	24.2	1.8	7.5	0.1	0.5	1.0	17.7
6	Perennial sow-thistle	11.4	2.6	22.9	0.1	1.2	1.6	14.5
7	Oats	3.3	1.3	40.0	0.4	12.2	12.2	14.0
8	Dandelion	8.1	2.2	27.5	0.2	2.7	5.0	13.9
9	Chickweed	4.0	1.8	45.0	0.3	6.4	6.4	12.2
10	Canola	12.1	1.6	13.3	0.1	0.8	1.4	11.3
11	Borage	4.0	1.8	45.0	0.2	4.6	4.6	10.5
12	Shepherd's-purse	4.0	1.4	35.0	0.2	4.4	4.4	9.3
13	Quack grass	8.1	1.2	15.0	0.1	0.7	1.0	7.7
14	Wild oats	8.1	0.8	10.0	< 0.1	0.4	0.4	6.1
15	Spiny annual sow-thistle	8.1	0.6	7.5	< 0.1	0.4	0.6	5.6
16	Persian darnel	4.0	0.8	20.0	0.1	2.0	2.0	5.6
17	Stork's-bill	7.3	0.5	7.2	< 0.1	0.6	1.2	5.5
18	Lamb's-quarters	7.3	0.7	9.5	< 0.1	0.4	0.6	5.4
19	Pale smartweed	8.1	0.4	5.0	< 0.1	0.2	0.2	4.8
20	Tartary buckwheat	4.0	0.4	10.0	< 0.1	0.8	0.8	3.4
21	Hemp-nettle	4.0	0.2	5.0	< 0.1	0.4	0.4	2.6

Table 156. 2010 annual crops in Thorhild & Smoky Lake in the North Region (16 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Canada thistle	66.3	17.3	26.1	1.4	2.2	8.2	48.5
2	Canola	44.8	13.6	30.5	1.0	2.2	7.0	34.6
3	Hemp-nettle	44.7	11.6	26.0	0.8	1.8	4.0	30.6
4	Wild buckwheat	40.6	12.7	31.4	0.8	2.0	4.2	30.6
5	Dandelion	39.3	11.8	30.1	0.8	2.0	6.2	29.3
6	Quack grass	14.0	8.1	57.5	0.9	6.1	9.0	20.5
7	False ragweed	19.7	9.3	47.3	0.4	2.2	3.2	18.0
8	Perennial sow-thistle	20.3	8.3	40.7	0.4	2.1	3.2	17.2
9	Barley	7.0	5.3	75.0	0.4	5.6	5.6	10.9
10	Shepherd's-purse	7.4	4.1	55.7	0.4	4.7	5.4	9.6
11	Cleavers	13.3	3.9	29.1	0.2	1.8	2.6	9.4
12	Wild oats	14.0	3.5	25.0	0.2	1.4	1.8	8.8
13	Stinkweed	17.7	2.6	14.6	0.1	0.6	0.8	7.9
14	Wild mustard	4.4	2.4	55.0	0.2	5.6	5.6	6.1
15	Foxtail barley	11.3	2.0	17.7	0.1	0.9	1.4	5.8
16	Redroot pigweed	7.0	0.7	10.0	< 0.1	0.6	0.6	2.9
17	Flixweed	6.3	0.6	10.0	< 0.1	0.6	0.6	2.6
18	Yellow toadflax	7.0	0.3	5.0	< 0.1	0.4	0.4	2.4
19	Chickweed	6.3	0.3	5.0	< 0.1	0.6	0.6	2.3
20	Alfalfa	4.4	0.9	20.0	< 0.1	0.8	0.8	2.3

Field Survey Summary Tables – Two Hills

Table 157. 2010 annual crops in Two Hills in the North Region (17 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	77.1	44.0	57.0	5.4	7.0	16.8	53.1
2	Canada thistle	71.0	15.8	22.3	1.9	2.7	10.0	25.2
3	Dandelion	48.1	14.0	29.1	2.4	5.1	29.0	22.9
4	Lamb's-quarters	58.7	10.9	18.5	0.8	1.3	3.2	16.7
5	Cleavers	30.7	12.5	40.7	1.6	5.3	16.0	16.6
6	Green foxtail	41.3	10.5	25.5	1.4	3.3	12.6	16.2
7	Chickweed	34.9	9.8	28.2	1.6	4.5	10.4	15.6
8	Narrow-leaved hawk's-beard	42.5	8.1	19.0	1.4	3.4	17.2	15.3
9	Canola	17.4	8.3	47.5	1.5	8.7	12.4	12.2
10	Oats	22.6	7.7	34.1	1.3	5.9	9.8	12.0
11	Perennial sow-thistle	30.0	8.3	27.5	0.8	2.7	4.4	11.4
12	Field horsetail	22.0	6.0	27.2	1.1	5.0	16.2	10.2
13	Barley	22.0	5.3	24.1	1.0	4.4	14.4	9.3
14	Quack grass	15.6	4.9	31.7	0.9	6.1	15.4	8.2
15	Stork's-bill	18.4	4.4	23.9	0.7	4.1	6.4	7.6
16	Shepherd's-purse	24.5	4.1	16.9	0.5	1.9	6.4	7.3
17	Wild oats	17.1	3.6	20.8	0.5	3.2	7.2	6.2
18	Small-seeded false flax	24.5	2.5	10.0	0.3	1.2	2.0	5.8
19	Pale smartweed	12.3	2.8	22.5	0.3	2.3	4.2	4.2
20	Night-flowering catchfly	6.2	2.5	40.0	0.5	8.6	8.6	4.1
21	Yellow toadflax	11.3	1.2	10.4	0.5	4.3	4.6	4.0
22	Alfalfa	6.2	3.1	50.0	0.4	5.8	5.8	3.7
23	Pineappleweed	11.3	1.7	15.0	0.1	1.1	1.8	2.9
24	Stinkweed	10.7	1.6	15.1	0.2	1.4	2.0	2.9
25	Corn spurry	6.2	0.6	10.0	< 0.1	0.8	0.8	1.4
26	Prostrate knotweed	6.2	0.6	10.0	< 0.1	0.4	0.4	1.3
27	Slender wheat grass	6.2	0.3	5.0	< 0.1	0.2	0.2	1.1
28	Wheat	5.2	0.3	5.0	< 0.1	0.6	0.6	1.0
29	Wild tomato	5.2	0.3	5.0	< 0.1	0.2	0.2	0.9
30	Poplar species	5.2	0.3	5.0	< 0.1	0.2	0.2	0.9

Table 158. 2010 annual crops in Vermilion River in the North Region (30 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Spiny annual sow-thistle	69.6	33.2	47.7	5.9	8.5	37.8	59.3
2	Wild buckwheat	86.0	29.9	34.7	2.3	2.6	14.8	40.5
3	Chickweed	38.3	7.9	20.7	2.4	6.2	17.6	21.9
4	Perennial sow-thistle	40.7	10.3	25.4	1.5	3.7	24.4	19.1
5	Dandelion	58.1	11.6	20.0	0.8	1.4	7.2	18.6
6	Canada thistle	63.4	10.6	16.7	0.8	1.2	6.2	18.4
7	Quack grass	41.9	10.9	26.1	1.1	2.6	11.0	17.6
8	Shepherd's-purse	27.2	6.3	23.3	0.7	2.6	16.6	10.9
9	Stork's-bill	39.0	6.2	16.0	0.4	1.0	2.8	10.6
10	Cleavers	31.3	4.9	15.8	0.5	1.6	5.2	9.6
11	Broad-leaved plantain	33.7	3.8	11.1	0.2	0.6	2.0	7.6
12	Pasture sage	15.2	3.6	23.5	0.6	3.6	6.2	6.9
13	Green foxtail	25.1	3.1	12.5	0.3	1.2	3.4	6.6
14	Pineappleweed	21.4	2.4	11.3	0.2	1.1	2.8	5.4
15	Foxtail barley	12.8	2.4	19.0	0.4	2.9	8.0	5.0
16	Stinkweed	21.0	2.1	10.0	0.1	0.4	1.0	4.4
17	Pale smartweed	18.1	1.9	10.7	0.1	0.6	1.2	4.0
18	Field horsetail	9.9	1.3	13.3	0.3	3.1	7.2	3.6
19	Common groundsel	12.8	1.4	11.1	0.1	0.7	1.0	2.9
20	Narrow-leaved hawk's-beard	9.9	1.4	13.8	0.1	1.0	2.6	2.6
21	Tartary buckwheat	4.1	1.8	45.0	0.1	2.2	2.2	2.1
22	Redroot pigweed	9.9	0.8	7.9	< 0.1	0.4	0.8	1.9
23	White cockle	8.2	1.0	12.5	< 0.1	0.5	0.8	1.9
24	Orchard grass	7.0	1.1	15.9	< 0.1	0.6	0.8	1.8
25	Wood whitlow-grass	5.8	1.0	17.5	0.1	1.1	1.4	1.7
26	Prairie sage	8.2	0.6	7.5	< 0.1	0.4	0.6	1.6
27	Hemp-nettle	7.0	0.8	10.9	< 0.1	0.6	0.8	1.5
28	Henbit	7.0	0.5	7.1	< 0.1	0.3	0.4	1.3
29	Lamb's-quarters	5.8	0.4	7.5	< 0.1	0.4	0.6	1.1
30	Common burdock	5.8	0.4	7.5	< 0.1	0.3	0.4	1.1
31	Round-leaved mallow	4.1	0.6	15.0	< 0.1	0.8	0.8	1.1
32	Prostrate knotweed	4.1	0.4	10.0	< 0.1	0.8	0.8	0.9
33	Yellow toadflax	4.1	0.2	5.0	< 0.1	0.8	0.8	0.8
34	Spear-leaved goosefoot	4.1	0.2	5.0	< 0.1	0.4	0.4	0.7
35	Dog mustard	4.1	0.2	5.0	< 0.1	0.2	0.2	0.7
36	Purple vetchling	4.1	0.2	5.0	< 0.1	0.2	0.2	0.7
37	Common yarrow	2.9	0.3	10.0	< 0.1	0.8	0.8	0.7
38	Bluebur	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5
39	Wild oats	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5
40	Cream-colored vetchling	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5
41	Cicer milk-vetch	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5
42	Dock species	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5
43	Goldenrod species	2.9	0.1	5.0	< 0.1	0.2	0.2	0.5

Field Survey Summary Tables – Wainwright

Table 159. 2010 annual crops in Wainwright in the North Region (22 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	20.7	13.3	64.5	3.3	15.9	32.8	89.3
2	Wild buckwheat	42.6	7.2	17.0	0.5	1.3	3.6	43.2
3	Canada thistle	33.8	6.5	19.3	0.6	1.6	6.8	37.9
4	Wheat	13.2	7.6	57.5	0.7	5.5	6.2	33.1
5	Cleavers	14.1	2.8	19.7	0.3	2.2	7.4	17.1
6	Stork's-bill	14.1	1.8	12.7	0.2	1.3	3.2	13.1
7	Green foxtail	7.5	1.9	25.0	0.2	3.0	5.6	10.9
8	Perennial sow-thistle	16.9	1.0	6.1	0.1	0.3	0.4	10.8
9	Shepherd's-purse	10.3	2.1	20.0	0.1	0.9	1.0	10.6
10	Dandelion	6.6	1.6	25.0	0.1	1.0	1.0	7.5
11	Narrow-leaved hawk's-beard	10.3	0.8	8.2	< 0.1	0.5	0.6	7.3
12	Hemp-nettle	7.5	0.8	10.0	< 0.1	0.5	0.6	5.6
13	Flixweed	6.6	0.7	10.0	< 0.1	0.6	0.6	5.0
14	Chickweed	3.8	0.2	5.0	0.1	2.8	2.8	3.8
15	Field horsetail	3.8	0.2	5.0	< 0.1	0.4	0.4	2.4
16	Common groundsel	3.8	0.2	5.0	< 0.1	0.2	0.2	2.3

Table 160. 2010 annual crops in Wetaskiwin in the North Region (10 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Slough grass	30.0	7.0	23.3	7.6	25.2	74.2	81.0
2	Canada thistle	50.0	8.5	17.0	0.9	1.9	3.0	44.1
3	Dandelion	60.0	6.5	10.8	0.4	0.7	1.8	40.4
4	Field horsetail	20.0	7.0	35.0	1.6	8.0	15.4	33.9
5	Foxtail barley	20.0	9.0	45.0	1.0	5.1	7.2	33.7
6	Field mint	10.0	3.5	35.0	1.6	16.2	16.2	22.9
7	Hemp-nettle	20.0	2.0	10.0	0.3	1.6	2.6	14.4
8	Cleavers	10.0	2.5	25.0	0.1	1.0	1.0	9.8
9	Perennial sow-thistle	10.0	1.5	15.0	0.1	1.4	1.4	8.1
10	Flixweed	10.0	1.0	10.0	0.1	0.6	0.6	6.5
11	Canola	10.0	0.5	5.0	< 0.1	0.2	0.2	5.2

Field Survey Summary Tables – Kneehill

Table 161. 2010 annual crops in Kneehill in the Central Region (40 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	59.7	19.0	31.8	1.7	2.9	9.2	56.3
2	Canola	40.9	11.0	27.0	1.3	3.1	10.2	36.9
3	Canada thistle	39.0	5.6	14.5	0.6	1.4	3.8	23.6
4	Shepherd's-purse	7.4	5.3	72.4	1.7	22.6	31.2	23.3
5	Cleavers	17.8	6.8	38.3	0.7	4.2	10.6	20.2
6	Wheat	13.3	5.8	43.3	1.0	7.3	12.6	19.5
7	Wild oats	8.9	3.1	35.0	1.4	15.4	58.4	18.6
8	Pineappleweed	5.2	3.9	75.0	1.1	20.8	20.8	15.8
9	Perennial sow-thistle	19.4	5.0	25.7	0.4	2.1	4.4	15.5
10	Hemp-nettle	20.0	3.7	18.6	0.4	1.9	4.6	14.0
11	Dandelion	16.7	3.2	19.3	0.2	1.2	2.2	10.8
12	Lamb's-quarters	13.4	2.0	15.2	0.1	1.1	2.0	7.8
13	Round-leaved mallow	7.5	2.1	28.0	0.3	3.6	7.8	7.2
14	Stinkweed	8.1	1.1	13.5	0.1	1.8	3.8	5.1
15	Barley	8.2	0.9	11.3	0.1	1.2	2.2	4.5
16	Narrow-leaved hawk's-beard	5.9	1.0	17.7	0.1	2.1	3.0	4.1
17	Wild mustard	5.2	0.8	15.0	0.1	1.2	1.2	3.1
18	Redroot pigweed	5.2	0.8	15.0	0.1	1.0	1.0	3.0
19	Stork's-bill	6.6	0.3	5.0	< 0.1	0.5	1.2	2.7
20	Chickweed	4.4	0.2	5.0	< 0.1	0.5	0.8	1.8
21	Yellow sweet-clover	1.6	0.3	20.0	< 0.1	1.6	1.6	1.1
22	Smooth brome	2.1	0.1	5.0	< 0.1	1.0	1.0	1.0
23	Kochia	2.1	0.1	5.0	< 0.1	0.8	0.8	0.9
24	Broad-leaved plantain	2.1	0.1	5.0	< 0.1	0.6	0.6	0.9
25	Field peas	2.1	0.1	5.0	< 0.1	0.4	0.4	0.9
26	Quack grass	1.6	0.1	5.0	< 0.1	1.6	1.6	0.8
27	Poplar species	1.6	0.1	5.0	< 0.1	0.4	0.4	0.6

Table 162. 2010 annual crops in Lacombe & Clearwater in the Central Region (32 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	26.7	13.0	48.8	13.1	49.0	184.0	72.1
2	Chickweed	50.0	21.7	43.3	5.0	10.0	36.2	55.8
3	Dandelion	30.6	8.0	26.1	0.8	2.6	7.4	19.6
4	Wild buckwheat	31.6	7.5	23.7	0.7	2.3	5.6	19.0
5	Wheat	24.9	6.6	26.6	0.6	2.2	7.8	15.7
6	Hemp-nettle	24.9	5.8	23.2	0.6	2.3	8.4	14.8
7	Canola	16.1	5.2	32.1	0.8	4.9	14.8	12.8
8	Quack grass	7.8	3.1	39.7	1.7	21.9	59.8	11.9
9	Lamb's-quarters	29.2	2.3	7.8	0.1	0.4	2.0	10.4
10	Cleavers	24.7	2.8	11.2	0.2	0.9	3.6	10.2
11	Canada thistle	18.4	3.2	17.2	0.5	2.6	16.2	10.0
12	Corn spurry	14.2	2.5	17.3	0.2	1.5	4.4	7.2
13	Shepherd's-purse	9.4	2.0	21.2	0.4	4.0	6.8	6.0
14	Spiny annual sow-thistle	11.8	1.9	16.5	0.1	1.0	2.4	5.6
15	Stinkweed	11.9	1.6	13.1	0.1	0.7	1.4	5.0
16	Alfalfa	5.3	1.9	36.7	0.2	3.9	7.2	4.3
17	Pale smartweed	7.9	0.8	10.0	0.2	2.1	4.0	3.5
18	Field horsetail	9.5	0.7	7.1	< 0.1	0.4	0.6	3.3
19	Perennial sow-thistle	6.7	0.5	7.0	< 0.1	0.5	0.6	2.4
20	Barley	5.3	0.3	5.0	< 0.1	0.2	0.2	1.7
21	Common groundsel	3.8	0.2	5.0	< 0.1	1.0	1.0	1.3
22	Pineappleweed	3.8	0.2	5.0	< 0.1	0.8	0.8	1.3
23	Redroot pigweed	2.5	0.5	20.0	< 0.1	1.2	1.2	1.3
24	Two-grooved milk-vetch	2.5	0.3	10.0	0.1	3.0	3.0	1.2
25	Grass	2.5	0.3	10.0	< 0.1	1.0	1.0	1.0
26	Water smartweed	2.8	0.1	5.0	< 0.1	0.4	0.4	0.9
27	Barnyard grass	2.7	0.1	5.0	< 0.1	0.2	0.2	0.9
28	Clover species	2.5	0.1	5.0	< 0.1	0.2	0.2	0.8

Field Survey Summary Tables – Mountain View

Table 163. 2010 annual crops in Mountain View in the Central Region (34 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Hemp-nettle	34.1	8.7	25.5	5.2	15.3	184.8	57.3
2	Wild buckwheat	57.1	12.6	22.1	1.1	1.9	15.4	41.5
3	Wild oats	31.5	11.4	36.3	2.0	6.4	23.2	38.2
4	Canada thistle	43.7	5.9	13.4	0.4	0.9	2.8	24.1
5	Dandelion	26.6	6.4	23.9	0.5	1.9	10.2	20.1
6	Chickweed	14.4	5.0	35.0	0.9	6.4	15.8	17.2
7	Green foxtail	4.8	4.8	100.0	1.3	27.6	27.6	16.7
8	Canola	11.2	2.9	25.8	0.3	2.9	8.2	9.4
9	Spiny annual sow-thistle	10.4	2.6	24.9	0.3	2.9	14.0	8.7
10	Stinkweed	3.7	1.9	50.0	0.7	19.4	38.4	8.5
11	Lamb's-quarters	6.7	2.8	42.6	0.4	5.9	18.2	8.5
12	Quack grass	7.5	1.7	22.5	0.3	4.2	9.0	6.6
13	Cleavers	7.5	1.8	23.8	0.2	2.5	4.8	5.9
14	Pale smartweed	5.6	1.8	31.7	0.2	2.9	7.0	5.2
15	Wheat	1.9	1.2	65.0	0.4	20.0	20.0	4.7
16	Yellow toadflax	6.7	0.4	6.4	0.1	1.8	2.2	3.4
17	Henbit	3.7	0.9	25.0	0.1	3.0	5.8	3.1
18	Perennial sow-thistle	4.8	1.0	20.0	< 0.1	0.8	0.8	3.0
19	Foxtail barley	4.8	0.5	10.0	0.1	1.4	1.4	2.6
20	Barley	3.7	0.5	12.5	< 0.1	1.0	1.8	2.0
21	Narrow-leaved hawk's-beard	4.8	0.2	5.0	< 0.1	0.6	0.6	2.0
22	Flixweed	4.8	0.2	5.0	< 0.1	0.2	0.2	1.9
23	Night-flowering catchfly	3.7	0.3	7.5	< 0.1	0.6	1.0	1.7
24	Alfalfa	1.9	0.5	25.0	< 0.1	2.6	2.6	1.5
25	Broad-leaved plantain	3.7	0.2	5.0	< 0.1	0.4	0.6	1.5
26	Yellow sweet-clover	3.2	0.3	7.9	< 0.1	0.6	0.8	1.4
27	Wild mustard	1.9	0.4	20.0	< 0.1	1.6	1.6	1.3
28	Kentucky blue grass	1.9	0.1	5.0	< 0.1	2.6	2.6	1.0
29	Common groundsel	1.9	0.1	5.0	< 0.1	0.2	0.2	0.7

Table 164. 2010 annual crops in Paintearth in the Central Region (18 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Western marsh cudweed	44.7	23.8	53.2	67.5	150.8	709.8	76.0
2	Wild buckwheat	100.0	63.7	63.7	14.9	14.9	66.2	53.4
3	Narrow-leaved hawk's-beard	77.0	17.4	22.7	3.3	4.3	24.4	19.5
4	Lamb's-quarters	61.7	13.6	22.0	2.7	4.4	22.8	15.6
5	Shepherd's-purse	52.8	10.2	19.2	2.2	4.2	22.0	12.6
6	Canada thistle	64.1	7.7	12.1	1.2	1.9	5.2	11.8
7	Cleavers	26.1	8.4	32.3	5.5	20.9	62.8	11.7
8	Spiny annual sow-thistle	42.4	6.5	15.2	3.0	7.0	70.0	10.4
9	Wheat	30.5	12.1	39.6	1.4	4.7	7.4	10.2
10	Pineappleweed	16.3	7.3	45.0	2.8	17.1	56.6	7.6
11	Perennial sow-thistle	24.4	6.3	25.8	1.4	5.7	31.2	6.9
12	Rough cinquefoil	28.5	5.3	18.6	0.4	1.3	2.8	5.9
13	Biennial wormwood	29.8	3.7	12.3	0.3	0.9	3.0	5.3
14	Field horsetail	30.2	2.7	9.0	0.6	1.9	11.0	5.2
15	Canola	27.1	3.1	11.5	0.2	0.6	1.4	4.6
16	Purslane speedwell	12.2	4.7	38.3	0.3	2.9	5.4	3.8
17	Stork's-bill	22.1	2.2	10.0	0.1	0.4	0.4	3.6
18	Stinkweed	12.2	2.0	16.7	0.8	6.7	19.6	3.0
19	Pale smartweed	12.2	2.6	21.7	0.1	1.1	2.4	2.7
20	Common groundsel	16.3	1.2	7.5	0.1	0.5	1.0	2.5
21	Kentucky blue grass	4.1	1.0	25.0	1.3	32.8	32.8	2.1
22	Wild oats	8.1	0.8	10.0	0.6	7.6	14.2	1.8
23	Marsh yellow cress	8.1	1.6	20.0	0.1	1.7	2.4	1.8
24	Foxtail barley	8.1	1.0	12.5	0.2	2.1	4.0	1.5
25	Scentless chamomile	8.1	0.8	10.0	0.1	0.9	1.6	1.4
26	Hemp-nettle	9.5	0.5	5.0	0.1	0.6	0.6	1.3
27	Field peas	9.5	0.5	5.0	< 0.1	0.2	0.2	1.3
28	Prostrate pigweed	5.4	1.1	20.0	0.2	3.8	3.8	1.3
29	Corn spurry	8.1	0.6	7.5	< 0.1	0.6	1.0	1.2
30	Prostrate knotweed	8.1	0.6	7.5	< 0.1	0.4	0.4	1.2
31	Wild tomato	5.4	1.1	20.0	0.1	2.4	2.4	1.2
32	Common pepper-grass	4.1	1.2	30.0	0.2	4.2	4.2	1.2
33	Redroot pigweed	8.1	0.4	5.0	0.1	0.7	1.2	1.2
34	American vetch	8.1	0.4	5.0	0.1	0.7	1.0	1.2
35	Broad-leaved plantain	8.1	0.4	5.0	< 0.1	0.2	0.2	1.1
36	Quack grass	4.1	0.6	15.0	0.1	3.6	3.6	0.9
37	Linear-leaved plantain	4.1	0.6	15.0	< 0.1	1.2	1.2	0.8
38	Yellow sweet-clover	4.1	0.6	15.0	< 0.1	0.6	0.6	0.8
39	Pygmyflower	4.1	0.4	10.0	< 0.1	0.4	0.4	0.7
40	Clover species	4.1	0.4	10.0	< 0.1	0.4	0.4	0.7
41	Bluebur	4.1	0.2	5.0	< 0.1	0.4	0.4	0.6
42	Povertyweed	4.1	0.2	5.0	< 0.1	0.4	0.4	0.6
43	Night-flowering catchfly	4.1	0.2	5.0	< 0.1	0.2	0.2	0.6
44	Dandelion	4.1	0.2	5.0	< 0.1	0.2	0.2	0.6
45	Green foxtail	4.1	0.2	5.0	< 0.1	0.2	0.2	0.6
46	Barnyard grass	4.1	0.2	5.0	< 0.1	0.2	0.2	0.6

Field Survey Summary Tables – Ponoka

Table 165. 2010 annual crops in Ponoka in the Central Region (11 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	52.2	33.9	65.0	19.8	38.0	111.4	92.0
2	Pale smartweed	21.6	15.0	69.3	16.2	74.9	151.0	56.4
3	Wild oats	29.3	3.7	12.6	6.4	21.7	56.6	25.9
4	Dandelion	37.1	7.9	21.3	0.4	1.2	2.6	19.5
5	Spiny annual sow-thistle	18.7	8.3	44.5	0.6	3.1	5.6	15.0
6	Canada thistle	18.7	7.6	40.4	0.8	4.4	6.6	14.7
7	Field horsetail	15.3	7.6	50.0	0.6	3.7	4.2	13.3
8	Wild buckwheat	26.0	4.4	16.8	0.4	1.4	3.4	12.6
9	Hemp-nettle	18.4	2.0	10.8	0.1	0.4	0.6	7.4
10	Stinkweed	18.4	1.5	7.9	0.1	0.3	0.4	6.9
11	Cleavers	15.3	1.5	10.0	0.1	0.5	0.6	6.1
12	Stork's-bill	11.1	1.7	15.0	0.3	2.8	2.8	5.5
13	Shepherd's-purse	7.6	2.3	30.0	0.2	2.0	2.0	4.8
14	Lamb's-quarters	10.7	0.5	5.0	< 0.1	0.2	0.2	3.7
15	Alfalfa	10.7	0.5	5.0	< 0.1	0.2	0.2	3.7
16	Canola	10.7	0.5	5.0	< 0.1	0.2	0.2	3.7
17	Wheat	10.7	0.5	5.0	< 0.1	0.2	0.2	3.7
18	Corn spurry	7.6	0.4	5.0	< 0.1	0.2	0.2	2.6
19	Clover species	7.6	0.4	5.0	< 0.1	0.2	0.2	2.6

Table 166. 2010 annual crops in Red Deer in the Central Region (33 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Chickweed	55.5	21.3	38.4	5.1	9.1	54.6	60.8
2	Cleavers	59.8	15.6	26.1	1.7	2.8	12.6	34.5
3	Hemp-nettle	45.3	10.8	23.9	1.6	3.5	21.8	27.3
4	Dandelion	65.1	12.6	19.4	0.8	1.2	6.8	27.1
5	Wild buckwheat	56.5	9.7	17.1	0.7	1.3	4.8	22.6
6	Canada thistle	35.6	5.5	15.5	0.6	1.6	10.4	14.5
7	Stinkweed	29.1	5.7	19.6	0.7	2.2	15.6	14.2
8	Perennial sow-thistle	13.8	3.6	26.4	0.7	4.9	27.0	9.9
9	Canola	25.1	4.0	15.9	0.3	1.0	2.2	9.4
10	Lamb's-quarters	15.0	3.5	23.5	0.5	3.2	18.6	8.7
11	Wheat	14.3	3.7	25.6	0.4	2.6	8.4	8.0
12	Shepherd's-purse	23.7	3.1	13.3	0.2	0.6	1.8	7.8
13	Barley	18.5	3.0	16.1	0.2	1.0	1.8	6.9
14	Clover species	8.9	3.1	35.4	0.3	3.5	10.4	6.2
15	Pale smartweed	11.3	2.1	18.8	0.2	1.4	4.0	4.8
16	Field horsetail	14.7	1.2	8.1	0.2	1.1	2.2	4.6
17	Tartary buckwheat	9.0	2.1	23.8	0.1	1.5	2.4	4.2
18	Yellow toadflax	6.9	0.7	10.0	0.4	5.2	10.0	4.2
19	Narrow-leaved hawk's-beard	11.5	1.1	9.3	0.1	0.5	1.0	3.3
20	Spiny annual sow-thistle	6.8	1.2	17.7	0.1	2.0	3.8	3.1
21	Henbit	10.6	0.7	6.2	< 0.1	0.4	1.6	2.6
22	Alfalfa	3.3	1.3	40.0	0.1	2.8	2.8	2.3
23	Quack grass	3.3	1.2	35.0	0.1	3.4	3.4	2.3
24	Pasture sage	2.2	0.9	40.0	0.2	7.2	7.2	2.1
25	Flax	3.3	0.7	20.0	0.1	3.6	3.6	1.9
26	Pineappleweed	5.6	0.6	10.8	< 0.1	0.7	0.8	1.7
27	Rose species	3.5	0.3	10.0	< 0.1	0.6	0.6	1.0
28	Corn spurry	2.2	0.4	20.0	< 0.1	0.8	0.8	0.9
29	Common pepper-grass	2.2	0.3	15.0	< 0.1	1.4	1.4	0.9
30	Flixweed	3.3	0.2	5.0	< 0.1	0.2	0.2	0.8
31	Yellow sweet-clover	2.9	0.2	7.9	< 0.1	0.3	0.4	0.8
32	Stork's-bill	2.4	0.1	5.0	< 0.1	0.2	0.2	0.6

Field Survey Summary Tables – Special Area 2

Table 167. 2010 annual crops in Special Area 2 in the Central Region (18 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Lamb's-quarters	17.7	7.1	40.0	19.5	109.9	328.8	64.9
2	Redroot pigweed	61.2	20.9	34.2	2.8	4.6	20.6	35.1
3	Wild buckwheat	56.4	21.5	38.2	2.9	5.1	18.2	34.9
4	Kochia	55.2	13.8	25.0	2.4	4.4	23.2	27.7
5	Wild oats	47.9	14.5	30.3	1.7	3.6	9.8	24.7
6	Prostrate pigweed	24.3	13.7	56.3	1.6	6.4	9.6	19.2
7	Dandelion	44.3	9.5	21.4	0.8	1.8	4.2	17.6
8	Narrow-leaved hawk's-beard	29.6	8.3	28.0	1.1	3.8	16.6	14.9
9	Green foxtail	11.8	4.7	40.0	0.6	5.3	5.6	7.5
10	Shepherd's-purse	28.8	2.3	8.1	0.1	0.3	0.6	7.4
11	Prostrate knotweed	19.3	3.4	17.7	0.4	1.8	2.8	7.2
12	Stinkweed	23.7	2.4	10.0	0.1	0.5	0.8	6.5
13	Russian thistle	12.1	3.6	30.0	0.2	1.5	2.0	5.5
14	Flixweed	11.8	1.8	15.0	0.1	0.9	1.6	3.8
15	Round-leaved mallow	13.4	0.7	5.0	0.1	0.4	0.6	3.1
16	Pygmyflower	11.8	0.9	7.5	0.1	0.5	0.6	3.0
17	Cow cockle	11.8	0.6	5.0	< 0.1	0.2	0.2	2.7
18	Wild tomato	11.8	0.6	5.0	< 0.1	0.2	0.2	2.7
19	Pale smartweed	7.5	0.4	5.0	< 0.1	0.2	0.2	1.7
20	Common pepper-grass	5.9	0.6	10.0	< 0.1	0.6	0.6	1.6
21	Rose species	5.9	0.6	10.0	< 0.1	0.4	0.4	1.6
22	Alfalfa	5.9	0.6	10.0	< 0.1	0.4	0.4	1.6
23	Canada thistle	3.7	0.6	15.0	0.1	2.8	2.8	1.4
24	Foxtail barley	5.9	0.3	5.0	< 0.1	0.2	0.2	1.4
25	Canola	5.9	0.3	5.0	< 0.1	0.2	0.2	1.4
26	Quack grass	3.7	0.2	5.0	< 0.1	0.2	0.2	0.8

Table 168. 2010 annual crops in Special Area 3 & Acadia in the Central Region (24 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	89.0	34.3	38.6	5.0	5.6	28.8	64.8
2	Green foxtail	50.5	17.3	34.3	4.7	9.3	101.6	43.9
3	Redroot pigweed	67.7	12.5	18.4	1.4	2.0	18.0	27.6
4	Kochia	29.6	7.0	23.5	2.7	9.2	52.8	23.1
5	Dandelion	50.5	8.0	15.9	0.9	1.8	15.0	19.1
6	Narrow-leaved hawk's-beard	35.7	8.0	22.3	1.1	3.1	26.0	17.4
7	Wild oats	43.2	7.7	17.7	0.8	1.8	6.8	17.0
8	Russian thistle	23.0	8.8	38.4	1.2	5.4	17.8	16.5
9	Lamb's-quarters	9.1	2.9	32.3	1.6	17.4	38.4	11.1
10	Stinkweed	27.1	4.9	18.2	0.4	1.7	8.8	10.5
11	Flixweed	29.7	3.8	12.7	0.2	0.8	2.8	9.1
12	Prostrate knotweed	20.7	3.8	18.5	0.5	2.5	4.4	9.0
13	Foxtail barley	21.5	2.1	9.7	0.4	1.8	13.4	7.1
14	Shepherd's-purse	20.8	1.4	6.8	0.1	0.6	2.8	5.2
15	Field peas	11.0	2.9	26.5	0.2	1.6	3.6	5.0
16	Prostrate pigweed	13.2	1.7	12.5	0.1	0.8	0.8	4.0
17	Wild tomato	15.8	0.8	5.0	< 0.1	0.2	0.2	3.5
18	American vetch	4.9	0.5	10.0	< 0.1	0.4	0.4	1.3
19	Yellow alyssum	4.0	0.4	10.0	< 0.1	0.4	0.4	1.1
20	Canada thistle	4.0	0.2	5.0	< 0.1	1.0	1.0	1.0
21	Alfalfa	4.0	0.2	5.0	< 0.1	0.2	0.2	0.9
22	Round-leaved mallow	2.5	0.4	15.0	< 0.1	0.6	0.6	0.8
23	American dragonhead	2.5	0.1	5.0	< 0.1	0.6	0.6	0.6
24	Common pepper-grass	2.5	0.1	5.0	< 0.1	0.2	0.2	0.5

Field Survey Summary Tables – Special Area 4

Table 169. 2010 annual crops in Special Area 4 in the Central Region (18 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	100.0	50.4	50.4	8.4	8.4	34.4	61.0
2	Green foxtail	69.1	19.6	28.4	13.2	19.1	186.0	52.5
3	Narrow-leaved hawk's-beard	70.1	30.9	44.1	9.9	14.2	148.2	50.3
4	Dandelion	64.5	13.4	20.9	1.1	1.6	3.8	18.6
5	Lamb's-quarters	39.7	14.4	36.2	1.4	3.5	8.4	16.5
6	Redroot pigweed	47.9	9.9	20.7	1.5	3.1	9.6	15.5
7	Shepherd's-purse	44.3	8.1	18.4	0.7	1.6	6.6	12.2
8	Flixweed	43.4	8.1	18.6	0.5	1.2	2.8	11.5
9	Stinkweed	33.5	6.3	18.8	0.6	1.9	8.2	9.5
10	Wild oats	19.6	4.0	20.4	0.8	3.9	7.0	6.7
11	Kochia	16.9	4.0	23.7	0.7	4.4	10.2	6.3
12	Russian thistle	24.8	2.8	11.3	0.2	0.7	1.2	5.3
13	Canada thistle	27.3	1.7	6.1	0.1	0.5	1.0	5.0
14	Field peas	18.6	3.1	16.7	0.2	0.9	1.4	4.6
15	Prostrate knotweed	12.4	2.5	20.0	0.3	2.3	3.6	3.7
16	Common pepper-grass	6.2	2.8	45.0	0.2	3.6	3.6	2.9
17	Stork's-bill	12.4	1.5	12.5	0.1	1.0	1.6	2.8
18	Canola	12.4	1.5	12.5	0.1	0.6	0.6	2.7
19	Wild tomato	12.4	1.2	10.0	0.1	0.6	0.8	2.5
20	Alfalfa	12.4	0.9	7.5	< 0.1	0.3	0.4	2.3
21	Foxtail barley	9.8	0.8	8.7	< 0.1	0.4	0.8	1.9
22	Round-leaved mallow	6.2	0.9	15.0	0.1	1.6	1.6	1.6
23	Clover species	6.2	0.9	15.0	< 0.1	0.6	0.6	1.4
24	Quack grass	3.6	1.1	30.0	< 0.1	1.2	1.2	1.2
25	Barley	6.2	0.3	5.0	< 0.1	0.2	0.2	1.0
26	Perennial sow-thistle	3.6	0.2	5.0	< 0.1	0.2	0.2	0.6

Table 170. 2010 annual crops in Starland in the Central Region (20 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	74.2	39.1	52.6	2.7	3.6	14.0	64.8
2	Spiny annual sow-thistle	65.9	24.0	36.4	2.8	4.2	23.4	53.1
3	Canola	53.2	15.1	28.4	1.1	2.0	6.0	30.1
4	Wheat	36.8	14.7	39.9	0.9	2.5	5.4	25.4
5	Canada thistle	59.6	6.7	11.3	0.6	1.1	4.6	21.9
6	Dandelion	36.2	6.1	16.8	0.6	1.7	10.0	16.7
7	Narrow-leaved hawk's-beard	13.3	5.9	44.1	1.1	8.5	21.2	16.1
8	Wild oats	31.1	5.3	17.1	0.7	2.1	10.6	15.4
9	Cleavers	10.1	4.3	42.5	0.5	5.3	10.4	9.4
10	Hemp-nettle	15.1	4.0	26.7	0.3	2.2	4.8	8.6
11	Stinkweed	20.1	3.0	15.0	0.2	0.8	1.0	7.5
12	Lamb's-quarters	14.7	3.1	20.9	0.2	1.1	2.8	6.4
13	Foxtail barley	11.0	1.1	10.0	0.1	0.5	0.6	3.4
14	Perennial sow-thistle	5.0	1.5	30.0	0.1	2.6	2.6	3.2
15	Pale smartweed	11.0	0.8	7.3	< 0.1	0.3	0.4	3.0
16	Prostrate knotweed	11.0	0.6	5.0	< 0.1	0.3	0.4	2.8
17	Dock species	5.0	1.0	20.0	0.1	2.2	2.2	2.6
18	Flixweed	5.0	0.8	15.0	< 0.1	0.8	0.8	1.9
19	Shepherd's-purse	5.0	0.8	15.0	< 0.1	0.8	0.8	1.9
20	Kochia	5.0	0.5	10.0	< 0.1	0.4	0.4	1.5
21	Barnyard grass	5.0	0.3	5.0	< 0.1	0.2	0.2	1.3
22	Common groundsel	5.0	0.3	5.0	< 0.1	0.2	0.2	1.3
23	Redroot pigweed	5.0	0.3	5.0	< 0.1	0.2	0.2	1.3
24	American dragonhead	2.2	0.1	5.0	< 0.1	0.2	0.2	0.6

Field Survey Summary Tables – Stettler

Table 171. 2010 annual crops in Stettler in the Central Region (34 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	43.6	27.4	62.8	25.9	59.4	161.6	77.8
2	Wild buckwheat	37.8	17.4	46.2	4.9	12.9	72.8	28.3
3	Chickweed	44.8	14.0	31.2	3.7	8.2	42.6	24.8
4	Spiny annual sow-thistle	30.2	12.5	41.5	2.1	6.8	23.6	18.0
5	Shepherd's-purse	35.0	11.1	31.8	1.5	4.4	14.8	16.9
6	Canola	40.6	10.6	26.0	1.2	2.8	16.2	16.8
7	Western marsh cudweed	27.2	6.3	23.1	3.5	13.0	33.4	16.2
8	Pale smartweed	29.4	5.6	19.1	1.0	3.3	21.0	11.1
9	Lamb's-quarters	39.0	4.1	10.6	0.3	0.8	3.0	10.5
10	Canada thistle	27.6	6.0	21.6	0.5	1.9	5.6	10.1
11	Perennial sow-thistle	24.4	4.4	18.0	0.4	1.6	4.6	8.2
12	Dandelion	24.6	3.6	14.9	0.3	1.3	6.4	7.6
13	Wild mustard	18.2	4.6	25.3	0.6	3.3	10.8	7.6
14	Henbit	6.8	3.9	57.5	1.8	26.4	47.0	7.4
15	Cleavers	17.0	4.1	24.0	0.5	3.0	8.2	6.9
16	Pineappleweed	22.3	2.4	10.9	0.3	1.3	4.2	6.3
17	Hemp-nettle	13.2	3.6	27.6	0.7	5.3	13.0	6.3
18	Stinkweed	20.7	1.3	6.1	0.1	0.3	0.6	4.8
19	Stork's-bill	6.0	2.5	42.0	0.3	5.4	9.2	3.4
20	Wild chamomile	5.2	1.9	37.5	0.2	3.7	7.2	2.6
21	Common groundsel	9.8	1.0	10.0	0.1	0.8	1.2	2.6
22	Field horsetail	5.2	0.9	16.5	0.2	3.6	5.0	1.9
23	Biennial wormwood	5.2	0.8	15.0	0.1	1.5	2.8	1.6
24	Narrow-leaved hawk's-beard	3.4	0.3	10.0	< 0.1	1.0	1.0	0.9
25	Prostrate knotweed	2.6	0.5	20.0	< 0.1	1.2	1.2	0.9
26	White cockle	3.0	0.1	5.0	< 0.1	0.6	0.6	0.7

Table 172. 2010 annual crops in Cardston & Pincher Creek in the Southern Region (26 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Stork's-bill	6.1	6.1	100.0	3.5	57.0	57.0	38.1
2	Field bindweed	38.9	10.5	27.1	0.7	1.8	9.0	31.1
3	Canada thistle	33.1	7.3	22.2	0.8	2.3	9.2	25.7
4	Redroot pigweed	15.7	6.6	42.4	1.0	6.7	15.6	21.9
5	Stinkweed	33.1	6.4	19.2	0.4	1.2	3.2	21.4
6	Lamb's-quarters	10.0	6.2	61.7	1.2	12.1	19.6	20.9
7	Foxtail barley	16.7	2.3	14.0	1.0	6.2	10.4	16.5
8	Wild oats	8.9	3.5	39.3	0.6	7.2	14.0	12.4
9	Cow cockle	18.2	3.1	16.8	0.2	1.0	2.0	10.9
10	Dandelion	20.8	2.7	12.8	0.1	0.7	1.6	10.8
11	Yellow alyssum	3.9	2.9	75.0	0.6	15.4	15.4	10.0
12	Wild mustard	3.9	2.6	65.0	0.6	14.6	14.6	9.2
13	Round-leaved mallow	17.7	1.9	10.5	0.2	0.9	2.0	9.1
14	American dragonhead	10.0	2.7	27.2	0.2	2.0	2.6	8.1
15	Prostrate knotweed	11.7	1.1	9.6	0.1	0.8	1.6	5.8
16	Perennial sow-thistle	9.6	1.5	15.3	0.1	0.8	1.0	5.4
17	Cleavers	3.4	1.7	50.0	0.2	6.6	11.8	5.1
18	Wild buckwheat	5.6	1.5	27.4	0.1	2.0	2.4	4.6
19	Canola	7.9	1.0	12.5	0.1	1.1	2.0	4.3
20	Downy brome	5.6	0.9	15.4	0.1	2.3	2.8	3.9
21	Prostrate pigweed	7.2	0.6	7.7	< 0.1	0.3	0.4	3.0
22	Quack grass	4.9	0.7	13.5	0.1	1.1	2.4	2.8
23	Sunflower	3.9	0.2	5.0	0.1	3.2	3.2	2.4
24	Flixweed	5.6	0.3	5.0	< 0.1	0.2	0.2	2.1
25	Black medick	3.9	0.4	10.0	< 0.1	0.6	0.6	1.9
26	Spear-leaved goosefoot	3.9	0.2	5.0	< 0.1	0.2	0.2	1.5
27	Henbit	3.9	0.2	5.0	< 0.1	0.2	0.2	1.5
28	Kochia	3.9	0.2	5.0	< 0.1	0.2	0.2	1.5
29	Spiny annual sow-thistle	1.7	0.3	20.0	< 0.1	2.8	2.8	1.3
30	Dogbane species	3.2	0.2	5.0	< 0.1	0.6	0.6	1.3
31	Alfalfa	1.7	0.2	10.0	< 0.1	0.4	0.4	0.8
32	Grass	1.7	0.2	10.0	< 0.1	0.4	0.4	0.8
33	Rose species	1.7	0.1	5.0	< 0.1	1.0	1.0	0.8
34	Wheat	1.7	0.1	5.0	< 0.1	0.4	0.4	0.7
35	Low larkspur	1.7	0.1	5.0	< 0.1	0.2	0.2	0.6
36	Silvery lupin	1.7	0.1	5.0	< 0.1	0.2	0.2	0.6
37	Clover species	1.7	0.1	5.0	< 0.1	0.2	0.2	0.6
38	Timothy	1.7	0.1	5.0	< 0.1	0.2	0.2	0.6

Field Survey Summary Tables – Cypress

Table 173. 2010 annual crops in Cypress in the Southern Region (21 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	69.7	13.9	19.9	2.2	3.1	20.6	69.6
2	Wild buckwheat	57.2	14.6	25.5	1.3	2.2	13.2	56.2
3	Kochia	34.8	6.5	18.8	1.1	3.3	23.4	35.0
4	Narrow-leaved hawk's-beard	21.6	6.8	31.7	1.3	5.9	21.6	33.0
5	Redroot pigweed	39.6	3.7	9.5	0.5	1.2	6.4	23.7
6	Prostrate pigweed	4.1	3.1	75.0	0.6	15.6	15.6	14.1
7	Green foxtail	13.0	3.2	24.8	0.3	2.5	3.6	13.0
8	Dandelion	12.8	2.1	16.3	0.1	1.0	2.2	8.8
9	Russian thistle	17.5	1.5	8.8	0.1	0.4	0.8	8.5
10	Perennial sow-thistle	12.8	1.3	10.1	0.1	0.5	1.0	6.8
11	Foxtail barley	8.3	1.2	14.9	0.1	1.5	2.8	6.0
12	Thyme-leaved spurge	4.2	0.8	20.0	0.2	4.4	4.4	4.9
13	Flixweed	8.6	0.9	10.1	0.1	0.9	1.2	4.9
14	Barley	7.0	1.1	15.0	< 0.1	0.6	0.6	4.3
15	Field peas	7.0	0.7	10.0	< 0.1	0.4	0.4	3.6
16	Canada fleabane	4.2	0.6	15.0	< 0.1	0.8	0.8	2.7
17	Goat's-beard	4.4	0.7	15.0	< 0.1	0.6	0.6	2.7
18	Round-leaved mallow	5.2	0.3	5.0	< 0.1	0.2	0.2	2.1

Table 174. 2010 annual crops in Forty Mile in the Southern Region (29 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Russian thistle	34.1	16.4	48.3	3.9	11.4	35.4	68.1
2	Wild buckwheat	49.6	11.3	22.8	0.9	1.9	9.6	40.8
3	Wheat	11.1	4.4	40.0	1.8	15.9	31.8	25.5
4	Prostrate knotweed	17.0	8.1	47.6	0.6	3.6	7.2	22.2
5	Dandelion	14.8	4.6	31.3	1.2	7.9	28.2	21.7
6	Flixweed	19.2	5.0	26.0	0.4	2.0	7.0	16.8
7	Kochia	14.8	5.0	33.8	0.5	3.2	4.0	16.1
8	Wild oats	18.5	4.1	22.0	0.4	2.3	6.2	15.8
9	Purslane	13.3	4.0	29.7	0.3	2.2	4.4	12.6
10	Canada thistle	15.5	1.9	12.4	0.1	0.6	1.0	8.9
11	Barley	7.4	2.2	30.0	0.3	3.4	5.2	7.8
12	Foxtail barley	7.4	0.9	12.5	0.1	2.0	2.2	5.2
13	Spiny annual sow-thistle	3.7	1.1	30.0	0.2	4.6	4.6	4.3
14	Perennial sow-thistle	3.7	1.1	30.0	0.2	4.2	4.2	4.2
15	Stinkweed	5.9	0.8	14.3	0.1	0.9	1.4	3.7
16	Scouring-rush	3.7	0.6	15.0	0.2	4.4	4.4	3.5
17	Prickly lettuce	3.7	0.2	5.0	0.2	4.2	4.2	2.9
18	Volunteer grain	3.7	0.7	20.0	< 0.1	0.8	0.8	2.6
19	Purslane speedwell	3.7	0.4	10.0	0.1	2.0	2.0	2.5
20	Field bindweed	3.7	0.6	15.0	< 0.1	1.2	1.2	2.5
21	Lamb's-quarters	3.7	0.6	15.0	< 0.1	0.6	0.6	2.3
22	Scarlet mallow	3.7	0.6	15.0	< 0.1	0.6	0.6	2.3
23	Green foxtail	3.7	0.4	10.0	< 0.1	0.4	0.4	1.9
24	Goat's-beard	3.7	0.2	5.0	< 0.1	0.4	0.4	1.7
25	Cow cockle	3.7	0.2	5.0	< 0.1	0.2	0.2	1.6
26	Redroot pigweed	3.7	0.2	5.0	< 0.1	0.2	0.2	1.6
27	Blue lettuce	2.2	0.1	5.0	< 0.1	0.2	0.2	1.0

Field Survey Summary Tables – Lethbridge

Table 175. 2010 annual crops in Lethbridge in the Southern Region (26 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	33.8	11.4	33.7	10.4	30.7	284.6	68.4
2	Kochia	39.8	12.5	31.4	2.2	5.4	25.6	39.3
3	Downy brome	7.4	3.1	42.5	7.0	94.1	187.6	34.6
4	Wild buckwheat	42.1	10.3	24.4	0.8	2.0	10.8	31.4
5	Canada thistle	32.8	3.6	10.8	0.4	1.2	2.6	16.9
6	Spiny annual sow-thistle	18.5	3.3	18.0	0.2	1.0	2.2	11.3
7	Stinkweed	10.2	3.4	33.2	0.6	5.9	9.4	10.5
8	Wheat	6.0	3.4	56.2	0.9	15.0	24.0	10.4
9	Henbit	5.6	0.5	8.3	1.6	29.0	43.4	8.8
10	Foxtail barley	14.9	1.8	12.1	0.2	1.0	3.6	7.9
11	Russian thistle	6.6	1.6	24.4	0.1	1.8	2.4	4.9
12	Dandelion	12.0	0.7	5.8	< 0.1	0.2	0.4	4.8
13	Round-leaved mallow	9.2	1.2	12.5	0.1	0.6	0.6	4.8
14	Flixweed	8.3	1.2	14.4	0.1	0.9	1.0	4.6
15	Prostrate pigweed	3.7	1.5	40.0	0.1	3.2	3.2	3.8
16	Lamb's-quarters	8.3	0.6	7.8	< 0.1	0.4	0.6	3.7
17	Pale smartweed	8.8	0.5	6.1	< 0.1	0.2	0.4	3.6
18	Perennial sow-thistle	5.6	0.9	16.7	0.1	1.1	1.4	3.3
19	Thyme-leaved spurge	3.7	1.1	30.0	0.1	3.0	3.0	3.2
20	Prickly lettuce	7.4	0.5	6.3	< 0.1	0.6	0.8	3.1
21	Shepherd's-purse	4.6	0.9	20.0	< 0.1	1.0	1.0	3.0
22	Chickweed	4.6	0.7	15.0	0.1	1.2	1.2	2.7
23	Green foxtail	5.2	0.6	12.2	< 0.1	0.6	1.0	2.6
24	Redroot pigweed	5.6	0.5	8.3	< 0.1	0.4	0.8	2.5
25	Barley	5.6	0.3	5.0	< 0.1	0.3	0.4	2.2
26	Canola	3.7	0.6	15.0	< 0.1	0.8	1.2	2.1
27	Cow cockle	1.8	0.7	40.0	0.1	3.2	3.2	1.9
28	Biennial wormwood	4.6	0.2	5.0	< 0.1	0.2	0.2	1.8
29	Goat's-beard	1.9	0.2	10.0	< 0.1	0.6	0.6	0.9
30	Crested wheat grass	1.5	0.1	5.0	< 0.1	0.4	0.4	0.6
31	Purslane	1.5	0.1	5.0	< 0.1	0.2	0.2	0.6

Table 176. 2010 annual crops in Taber in the Southern Region (15 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	68.8	22.4	32.5	4.9	7.1	23.6	127.0
2	Wild buckwheat	51.2	11.3	22.1	1.0	1.9	7.4	49.4
3	Kochia	52.1	4.3	8.2	0.4	0.8	4.8	29.1
4	Russian thistle	20.0	2.4	12.0	0.3	1.7	5.2	15.0
5	Prostrate knotweed	14.4	3.4	23.4	0.2	1.4	2.2	13.3
6	Dandelion	20.0	1.6	7.8	0.2	0.9	1.4	11.3
7	Spiny annual sow-thistle	17.7	2.2	12.5	0.1	0.7	1.0	11.1
8	Redroot pigweed	11.2	1.4	12.5	0.1	0.7	1.2	7.0
9	Foxtail barley	11.2	1.1	10.0	0.1	0.6	0.8	6.3
10	Canada thistle	14.4	0.7	5.0	< 0.1	0.3	0.4	6.3
11	Thyme-leaved spurge	11.2	1.1	10.0	0.1	0.5	0.6	6.2
12	Round-leaved mallow	5.6	0.6	10.0	0.1	1.6	1.6	3.9
13	Stinkweed	8.8	0.4	5.0	< 0.1	0.2	0.2	3.7
14	Lamb's-quarters	5.6	0.6	10.0	< 0.1	0.4	0.4	3.0
15	Downy brome	5.6	0.3	5.0	< 0.1	0.2	0.2	2.4
16	Flixweed	5.6	0.3	5.0	< 0.1	0.2	0.2	2.4
17	Common yarrow	5.6	0.3	5.0	< 0.1	0.2	0.2	2.4

Field Survey Summary Tables – Vulcan

Table 177. 2010 annual crops in Vulcan in the Southern Region (44 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild oats	47.8	17.2	36.0	4.0	8.3	26.2	67.3
2	Wild buckwheat	58.4	18.2	31.2	1.8	3.1	15.0	51.4
3	Kochia	28.8	4.6	16.1	1.3	4.6	62.2	24.2
4	Foxtail barley	26.1	6.7	25.8	0.7	2.5	7.4	20.0
5	Canada thistle	36.3	4.4	12.1	0.3	0.9	2.4	16.5
6	Dandelion	20.1	4.2	21.1	0.5	2.4	9.4	14.0
7	Canola	17.6	4.9	28.0	0.4	2.4	7.4	13.7
8	Stinkweed	24.2	1.6	6.6	0.3	1.3	4.0	10.3
9	Spiny annual sow-thistle	13.8	2.8	20.0	0.2	1.6	3.2	8.5
10	Barley	16.1	2.2	13.8	0.2	1.0	3.6	7.9
11	Yellow toadflax	6.3	2.5	40.0	0.4	5.6	5.6	7.6
12	Perennial sow-thistle	14.9	2.1	13.8	0.2	1.1	3.6	7.4
13	Lamb's-quarters	18.2	1.5	8.4	0.1	0.4	0.6	6.7
14	Redroot pigweed	13.1	1.8	14.0	0.1	1.0	2.2	6.4
15	Field peas	7.9	2.0	24.8	0.1	1.2	2.4	5.0
16	Prostrate knotweed	8.2	1.7	20.4	0.1	0.9	1.0	4.5
17	Stork's-bill	6.3	1.3	20.0	0.1	2.2	2.2	4.2
18	Wheat	9.4	0.8	8.0	0.1	0.6	1.6	3.6
19	Shepherd's-purse	6.3	0.9	15.0	0.1	1.2	1.2	3.3
20	Green foxtail	8.2	0.8	9.6	< 0.1	0.5	1.0	3.2
21	Flixweed	7.9	0.6	7.4	< 0.1	0.3	0.4	2.8
22	Narrow-leaved hawk's-beard	6.3	0.6	10.0	< 0.1	0.4	0.4	2.4
23	Cow cockle	3.8	0.7	17.5	< 0.1	0.8	1.4	1.9
24	Round-leaved mallow	5.1	0.3	5.0	< 0.1	0.2	0.2	1.6
25	Goat's-beard	3.8	0.2	5.0	< 0.1	0.2	0.2	1.2
26	Pale smartweed	3.8	0.2	5.0	< 0.1	0.2	0.2	1.2
27	Downy brome	1.9	0.3	15.0	< 0.1	2.2	2.2	1.1
28	Russian thistle	2.3	0.1	5.0	< 0.1	0.2	0.2	0.7
29	White mustard	1.9	0.1	5.0	< 0.1	0.4	0.4	0.6
30	Wild mustard	1.9	0.1	5.0	< 0.1	0.2	0.2	0.6

Table 178. 2010 annual crops in Warner in the Southern Region (27 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Kochia	39.6	5.7	14.5	0.5	1.3	5.2	50.9
2	Redroot pigweed	39.7	5.3	13.4	0.3	0.8	3.6	42.1
3	Russian thistle	32.2	5.2	16.1	0.4	1.1	3.4	40.2
4	Wild buckwheat	37.8	5.3	14.0	0.3	0.7	1.4	38.7
5	Canola	14.7	3.0	20.3	0.3	2.2	3.0	26.7
6	Wild oats	23.9	1.8	7.7	0.1	0.4	0.8	17.5
7	Flixweed	15.0	1.7	11.4	0.2	1.1	3.2	16.7
8	Downy brome	18.6	1.1	6.0	0.1	0.4	0.6	12.4
9	Canada thistle	10.7	1.0	9.8	0.1	0.9	1.4	10.7
10	Alfalfa	10.4	1.1	10.4	0.1	0.8	1.2	9.9
11	Dandelion	13.3	0.9	7.1	0.1	0.4	0.8	9.8
12	Stinkweed	6.5	1.0	15.5	0.1	1.5	2.6	9.0
13	Volunteer grain	3.9	0.6	15.0	< 0.1	1.0	1.0	4.6
14	Green foxtail	3.9	0.2	5.0	< 0.1	0.4	0.4	2.5
15	Bluebur	3.9	0.2	5.0	< 0.1	0.2	0.2	2.2
16	Cow cockle	3.9	0.2	5.0	< 0.1	0.2	0.2	2.2
17	Field peas	3.4	0.2	5.0	< 0.1	0.2	0.2	2.0
18	Spiny annual sow-thistle	3.1	0.2	5.0	< 0.1	0.2	0.2	1.8

Field Survey Summary Tables – Wheatland & Newell

Table 179. 2010 annual crops in Wheatland & Newell in the Southern Region (44 fields)

Rank	Species	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
1	Wild buckwheat	59.3	14.9	25.2	1.3	2.2	20.0	44.3
2	Canola	28.3	8.0	28.2	2.1	7.4	43.6	35.2
3	Wheat	31.5	9.8	31.2	1.3	4.1	22.6	31.1
4	Kochia	30.9	5.7	18.6	0.4	1.4	7.8	18.4
5	Green foxtail	17.1	3.2	18.8	1.1	6.7	28.2	18.3
6	Shepherd's-purse	13.7	3.6	26.3	0.8	6.1	32.2	15.1
7	Canada thistle	24.4	3.3	13.3	0.4	1.7	8.4	13.4
8	Cleavers	10.2	3.2	31.0	0.6	5.6	13.0	11.4
9	Dandelion	24.6	2.3	9.3	0.1	0.4	1.0	9.4
10	Stinkweed	19.2	2.1	10.9	0.1	0.5	1.2	8.0
11	Wild oats	7.1	1.2	16.9	0.5	6.8	22.2	7.5
12	Barnyard grass	4.6	1.9	41.1	0.4	9.8	15.8	7.4
13	Lamb's-quarters	13.5	1.5	11.2	0.2	1.7	4.2	7.0
14	Flixweed	19.1	1.2	6.5	0.1	0.4	0.6	6.6
15	Chickweed	5.6	2.3	41.7	0.2	3.3	4.4	5.8
16	Foxtail barley	11.3	1.3	11.2	0.1	1.0	2.0	5.3
17	Prostrate knotweed	8.1	1.6	19.9	0.1	1.5	3.2	5.0
18	Narrow-leaved hawk's-beard	9.0	1.5	16.4	0.1	1.1	3.2	4.8
19	Spiny annual sow-thistle	7.5	1.5	19.7	0.1	1.8	3.8	4.8
20	Redroot pigweed	8.7	1.3	14.4	0.1	0.9	1.6	4.3
21	Oats	5.2	0.9	16.4	0.2	3.2	8.6	3.8
22	Prostrate pigweed	6.1	0.8	12.7	0.1	2.1	6.2	3.5
23	Thyme-leaved spurge	7.4	0.9	12.0	< 0.1	0.6	1.6	3.2
24	Hemp-nettle	6.1	1.0	16.7	< 0.1	0.8	1.0	3.1
25	Perennial sow-thistle	3.9	0.8	20.4	0.1	2.9	6.2	2.9
26	Quack grass	2.1	0.3	15.0	0.2	9.2	9.2	2.6
27	Russian thistle	5.4	0.5	10.1	< 0.1	0.5	0.8	2.1
28	Round-leaved mallow	5.6	0.4	7.7	< 0.1	0.3	0.6	2.0
29	Goat's-beard	3.5	0.7	19.4	< 0.1	0.9	1.4	1.9
30	Field peas	3.0	0.6	20.0	< 0.1	1.1	1.6	1.7
31	Bluebur	5.0	0.2	5.0	< 0.1	0.3	0.4	1.6
32	Pale smartweed	4.6	0.2	5.0	< 0.1	0.4	0.8	1.5
33	Clover species	4.1	0.2	5.0	< 0.1	0.2	0.2	1.3
34	Tansy	2.3	0.1	5.0	< 0.1	0.6	0.6	0.8
35	Canada fleabane	2.3	0.1	5.0	< 0.1	0.2	0.2	0.7
36	Stork's-bill	2.1	0.1	5.0	< 0.1	0.2	0.2	0.7
37	American dragonhead	1.5	0.1	5.0	< 0.1	1.4	1.4	0.6
38	Cow cockle	1.5	0.1	10.0	< 0.1	0.6	0.6	0.6
39	Slender wheat grass	1.5	0.1	10.0	< 0.1	0.4	0.4	0.6
40	Rough cinquefoil	1.5	0.1	5.0	< 0.1	0.6	0.6	0.5
41	Sheep sorrel	1.5	0.1	5.0	< 0.1	0.2	0.2	0.5
42	Grass	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 2010 with results from the 2001, 1997, 1987-1989 and 1973-1977 provincial surveys enables the identification of recent shifts in selected weed populations. Data from 986 dryland fields of annual cereal, oilseed and pulse crops were surveyed in 2010 in Alberta were included in this analysis. 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. Data are weighted in analysis to account for missing fields, based on a targeted 1200 fields. Weed data are summarized using a relative abundance index based on frequency, field uniformity and density. Wild buckwheat was the most abundant weed in 2010, wild oats ranked second, and cleavers ranked third. The list of the twenty most abundant species included four perennials (Canada thistle, dandelion, perennial sow-thistle, and field horsetail). The results from the 2010 survey are compared to results from surveys of 1153 fields in 2001, 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. Eleven species have been ranked amongst the top twenty most abundant species in each survey. Extreme weather, drought in the Peace River and high precipitation elsewhere likely influenced results. For example, low cudweed is ranked in the top twenty for the first time in 2010, due to high densities in wet fields. However, weed control measures are generally working well as the weed densities in 2010 were lower than any of the previous surveys.

Residual Weed Population Shifts in Alberta – 1970s to 2010

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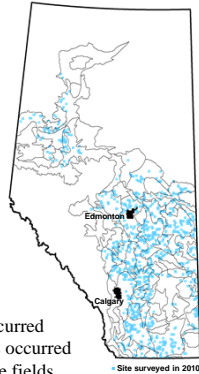
Objectives

- Compare the relative abundance of weeds in Alberta in 2010 with results from the 2001, 1997, 1987-1989 and 1973-1977 provincial surveys
- Identify recent shifts in selected weed populations

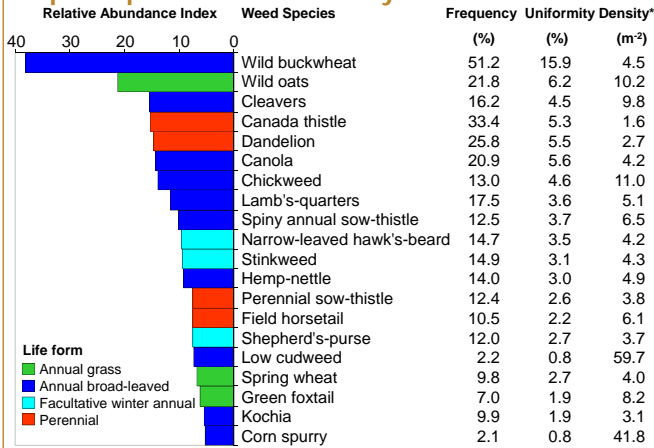
Methods

- Used proportionally allocated stratified random sampling procedure to select fields in ecodistricts shown on map
 - Number of fields proportional to area sown to surveyed crops in each ecodistrict
- Data included from 986 dryland fields of annual cereal, oilseed and pulse crops
- Counted weeds in 20 quadrats (50 by 50 cm) per field in late summer (residual populations)
- Data weighted in analysis to account for missing fields, based on a targeted 1200 fields
- 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 to similarly weighted data from surveys of
 - 1153 fields in 2001
 - 685 fields in 1997
 - 1113 fields in 1987-1989
 - 3109 fields in 1973-1977

Ecodistricts Surveyed in Alberta



Top 20 Species in 2010 Survey



*Average density in occurrence fields

Species Shifts

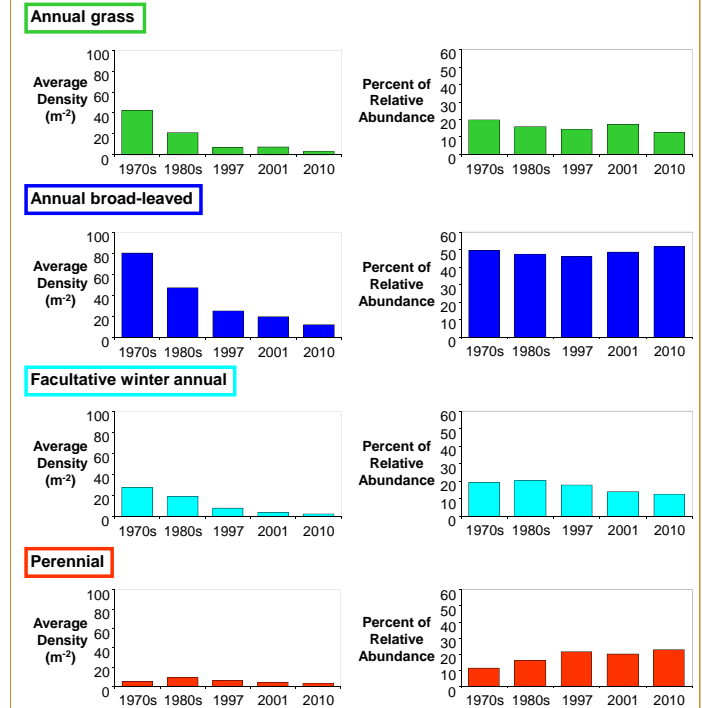
	Change in Relative Abundance Rank				
	1970's to 1980's	1980's to 1997	1997 to 2001	2001 to 2010	1970's to 2010
Annual grass					
Wheat		10	1	2	13
Wild oats	-1	1	0	0	0
Green foxtail	0	-14	9	-9	-14
Annual broad-leaved					
Cleavers	14	21	1	3	39
Spiny annual sow-thistle		12	13	6	31
Low cudweed		21	-15	22	28
Kochia	4	-3	4	1	6
Canola	-9	-1	4	11	5
Pineappleweed	3	12	-4	-6	5
Wild buckwheat	2	-2	2	0	2
Chickweed	1	4	-2	-4	-1
Common groundsel	19	0	-9	-11	-1
Lamb's-quarters	-1	-2	1	-1	-3
Hemp-nettle	0	-4	4	-4	-4
Corn spurry	-11	1	-6	8	-8
Redroot pigweed	-3	-6	-3	1	-11
Tartary buckwheat	-7	-11	-32	38	-12
Russian thistle	6	-23	6	-4	-15
Pale smartweed	-3	-5	4	-12	-16
Wild mustard	-19	-11	11	-8	-27
Facultative winter annual					
Shepherd's-purse	12	3	-7	-2	6
Flixweed	-6	-13	7	1	-11
Narrow-leaved hawk's-beard	7	4	-5	6	12
Stinkweed	-1	-2	-1	-6	-10
Bluebur	0	-8	-2	-12	-22
Perennial					
Dandelion	-3	9	-1	5	10
Canada thistle	-3	7	1	0	5
Perennial sow-thistle	0	4	-5	5	4
Quack grass	1	6	2	-8	1
Field horsetail	3	1	-2	-2	0
Clover species		-10	0	2	-8

*Species in italics have maintained a position in the top 20 since 1970's
Numbers in italics are changes from the 1980's surveys to 2010; these species were not identified in the 1970's surveys

Species Shifts Summary

- Shifts have occurred in the relative abundance of the top 20 species
- Eleven species have been in the top 20 since the 1970's
- Wild buckwheat and wild oats have been ranked in the top three in all surveys
 - Cleavers is ranked third for the first time in 2010
- Low cudweed is ranked in the top twenty for the first time in 2010
 - Attributable to high densities in wet areas

Life Form Shifts



Life Form Shift Summary

- Densities of all life forms were lowest ever recorded in 2010
- Higher relative abundance of perennials in last three surveys
 - Primarily due to better control of winter annuals

Discussion

- Extreme weather, drought in the Peace River and high precipitation elsewhere likely influenced results
- Next step is interpreting shifts in terms of management practices based on information obtained from questionnaires completed by survey participants

Sources

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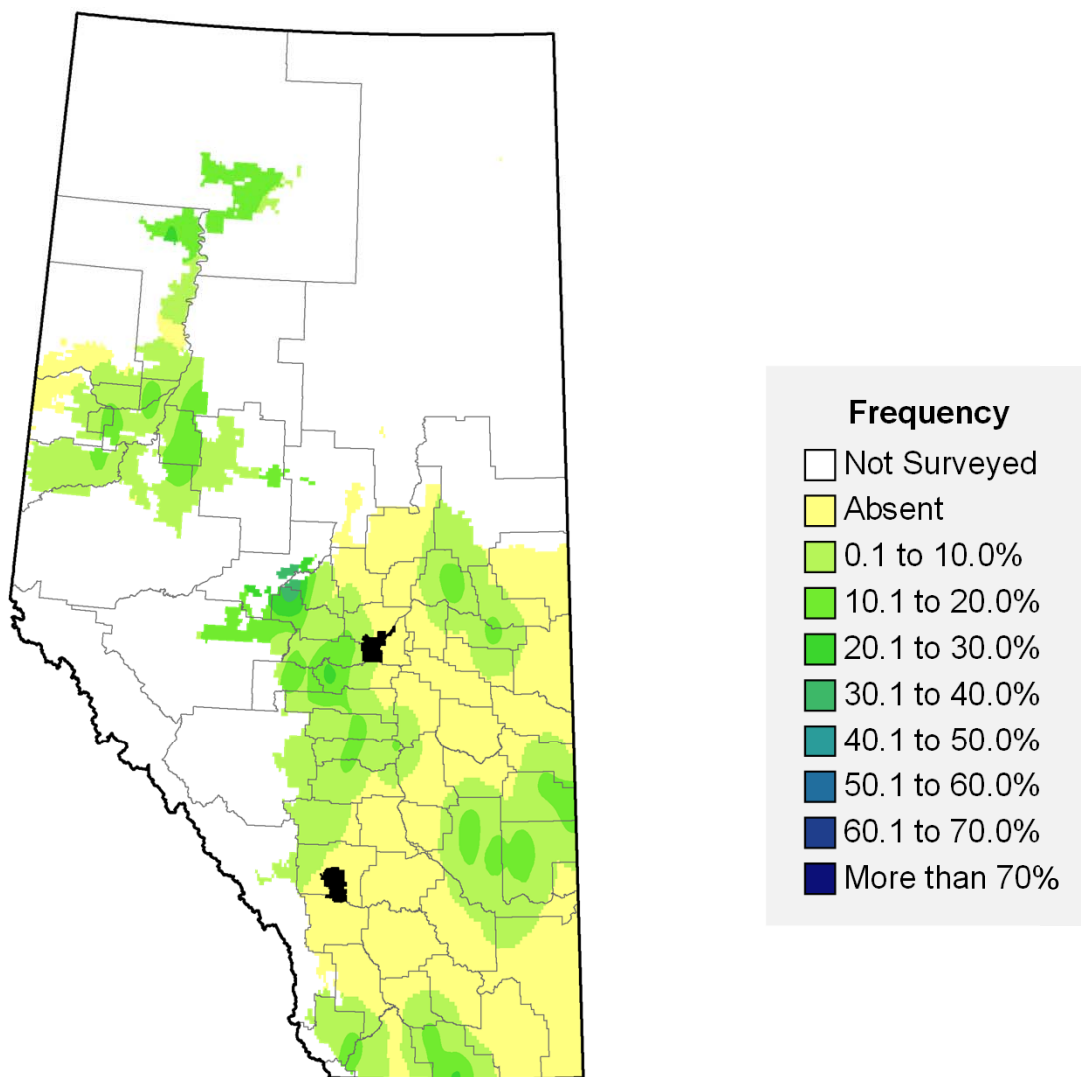
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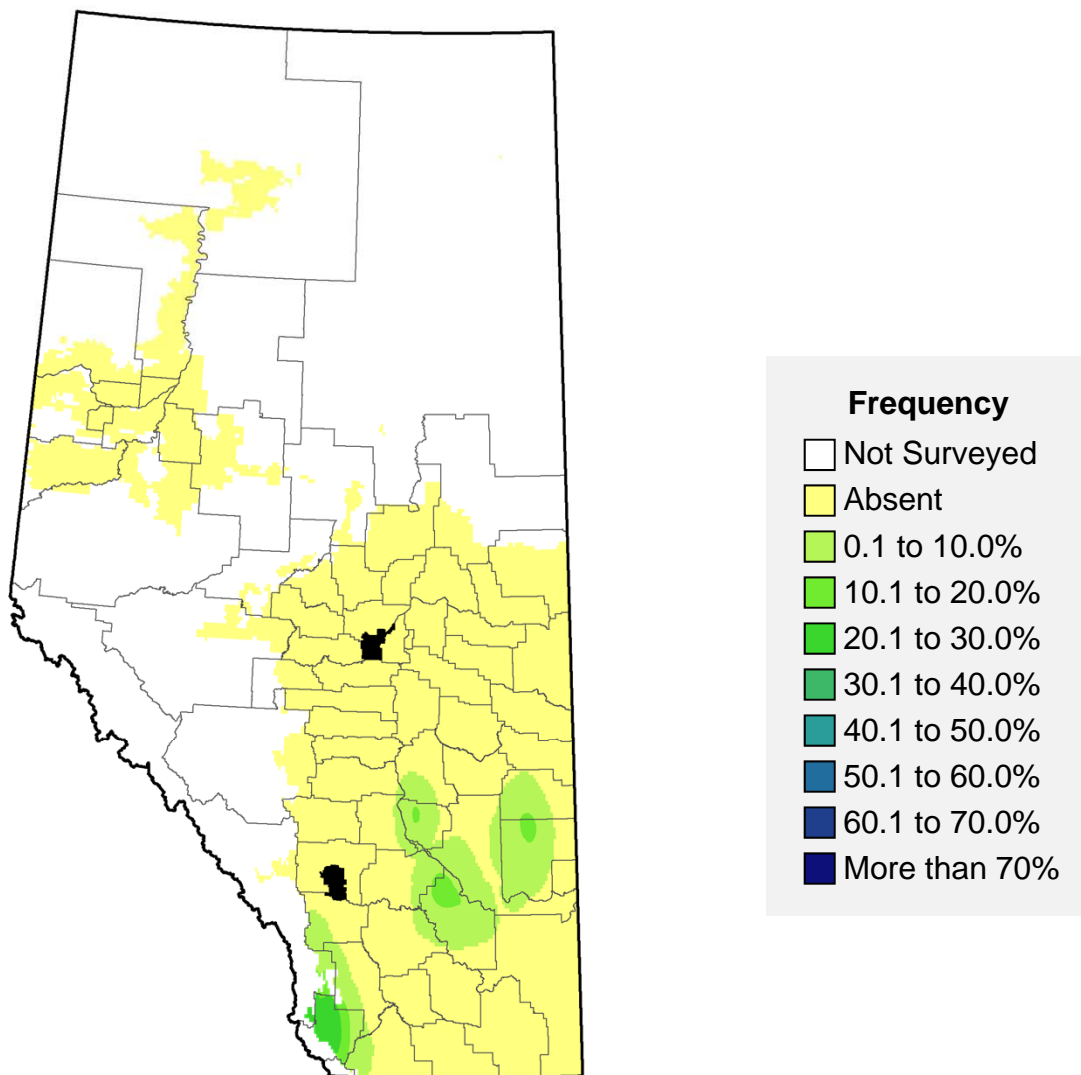
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Alfalfa, *Medicago sativa*



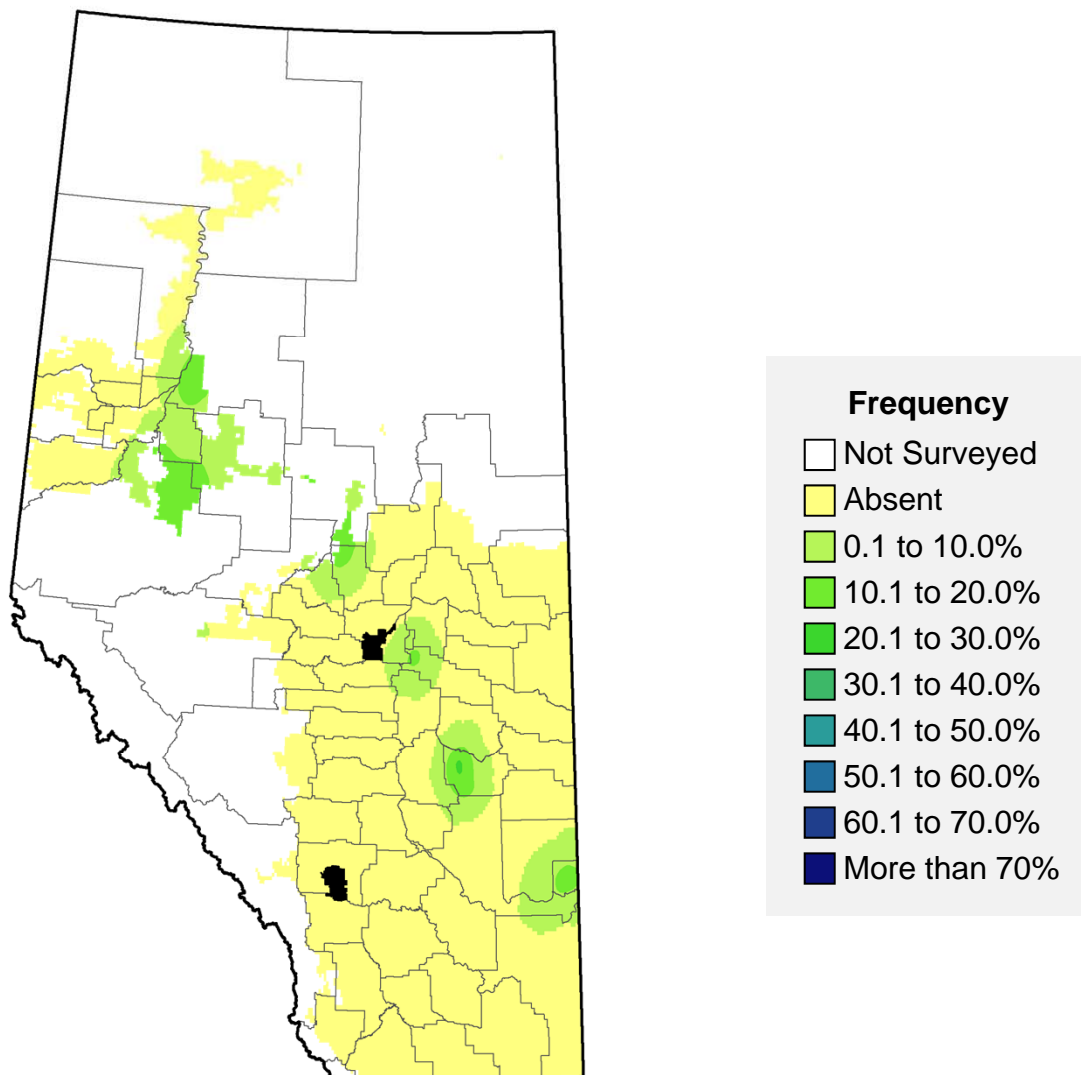
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	43	1.5	0.3	16.7	< 0.1	1.1	2.6	0.7
Barley	32	2.8	0.6	20.4	0.1	3.2	25.4	1.6
Durum	-	-	-	-	-	-	-	-
Oat	18	6.7	3.1	45.6	0.8	11.4	19.2	4.4
Canola	30	2.6	0.6	23.6	< 0.1	1.7	7.2	1.7
Field pea	25	10.3	0.6	6.0	< 0.1	0.3	1.6	2.3
Perennial	-	-	-	-	-	-	-	-

American dragonhead, *Dracocephalum parviflorum*



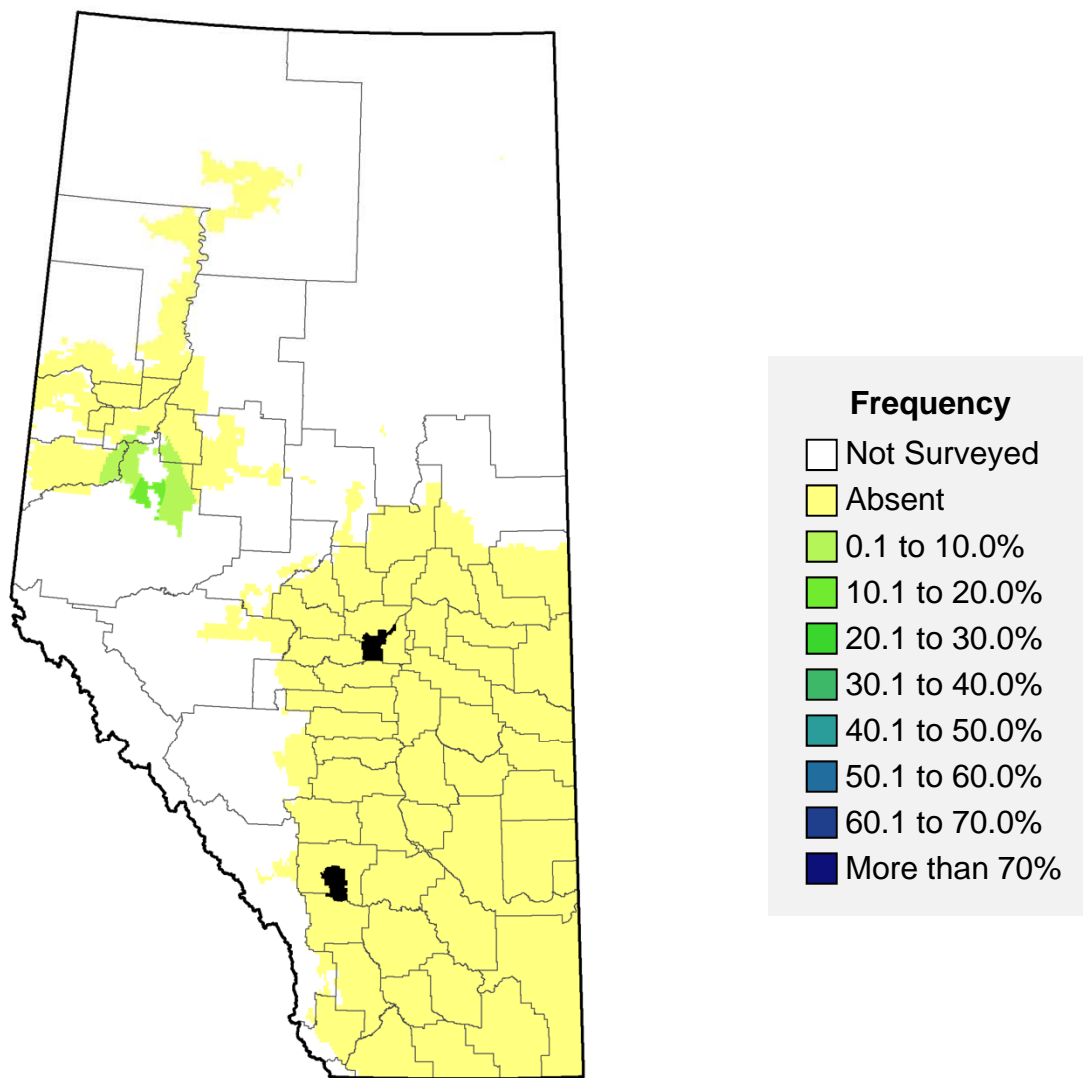
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	72	0.5	< 0.1	5.0	< 0.1	0.9	1.4	0.2
Barley	49	1.1	0.3	27.2	< 0.1	2.0	2.6	0.7
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

American vetch, *Vicia americana* var. *americana*



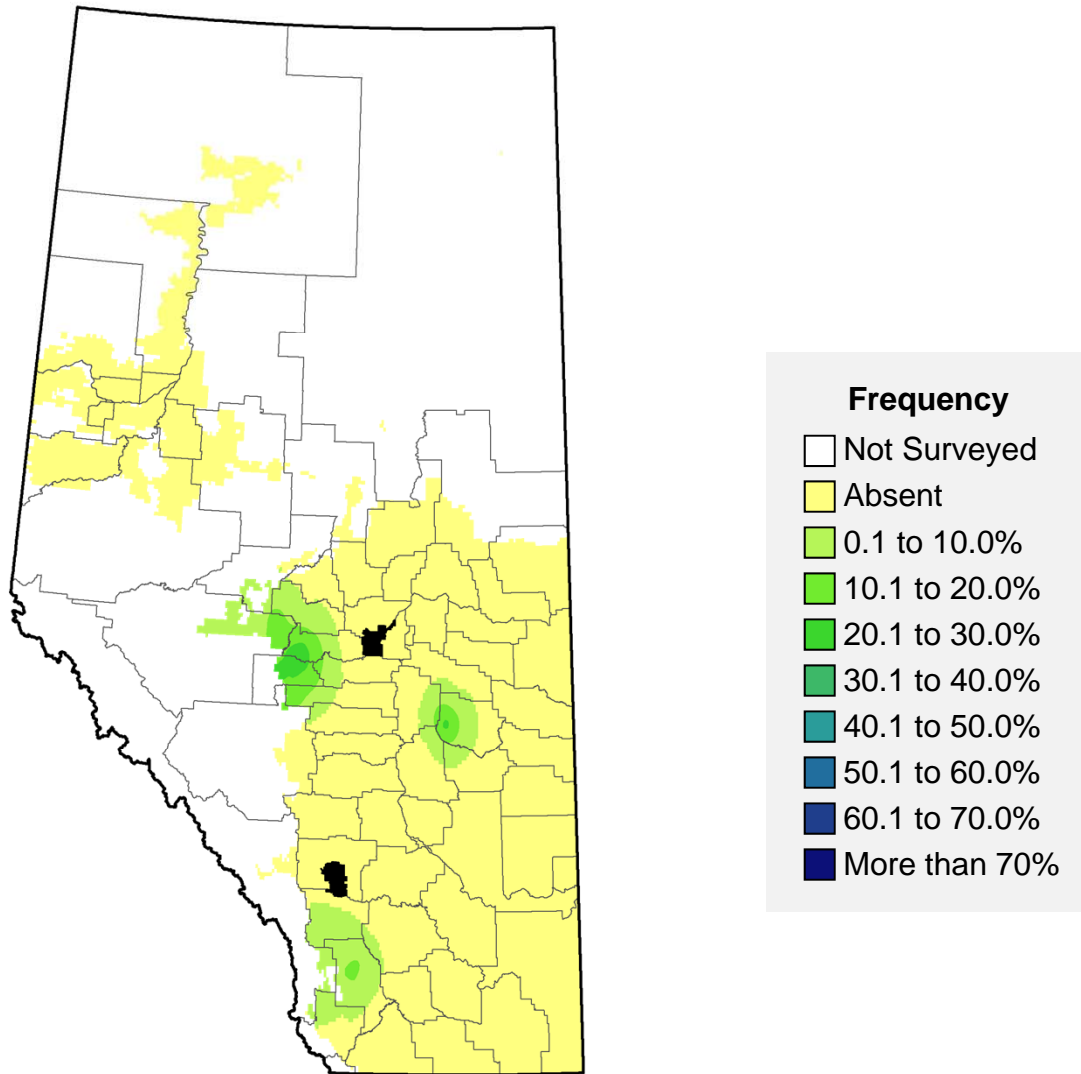
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	57	0.9	< 0.1	5.0	< 0.1	0.4	1.0	0.3
Barley	57	0.9	0.1	7.0	< 0.1	0.3	0.4	0.3
Durum	-	-	-	-	-	-	-	-
Oat	30	2.4	1.2	50.0	0.4	18.4	18.4	1.9
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	29	4.1	0.4	10.0	0.1	1.4	1.4	1.6

Annual blue grass, *Poa annua*



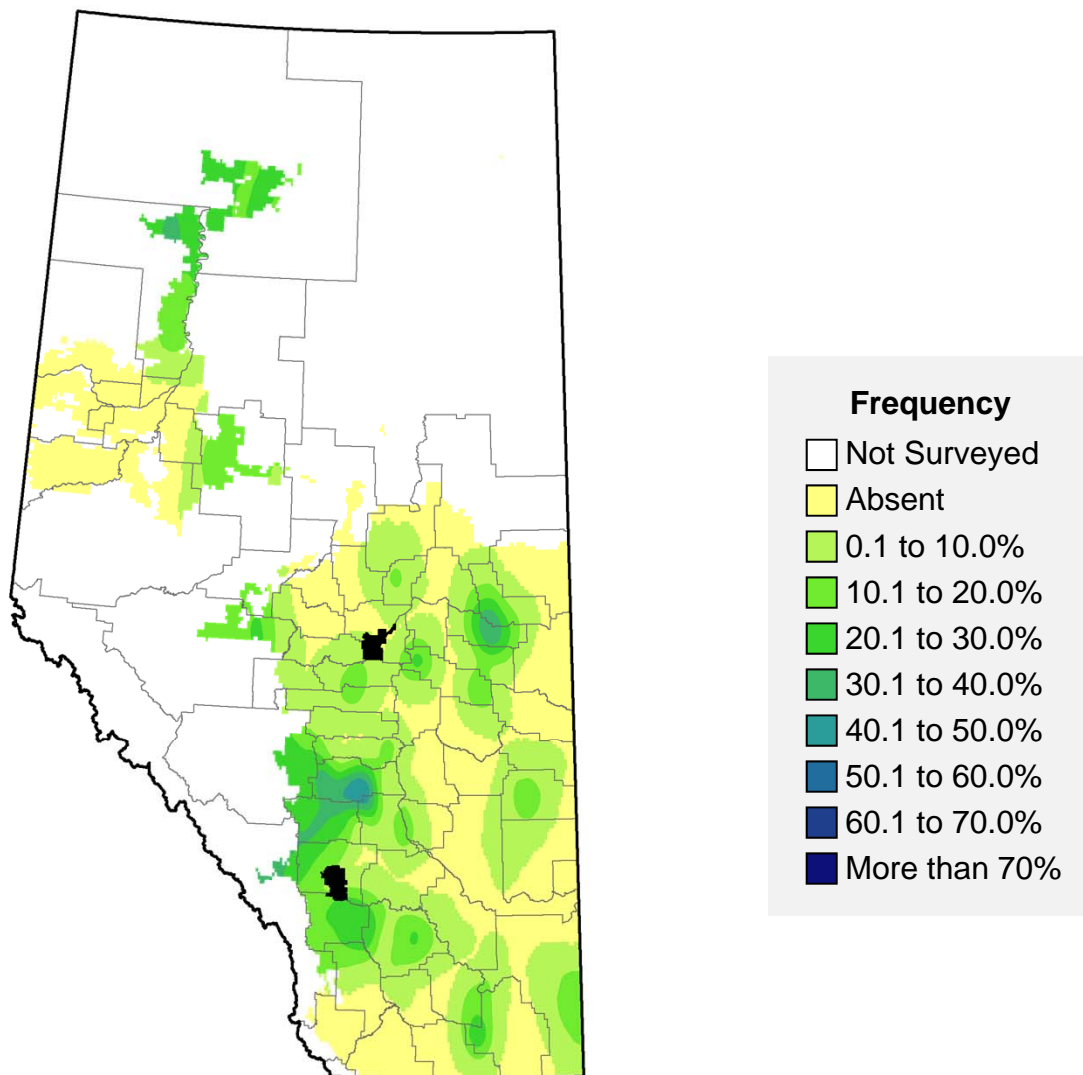
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	15	1.2	0.6	50.0	1.2	101.6	101.6	4.0

Ball mustard, *Neslia paniculata*



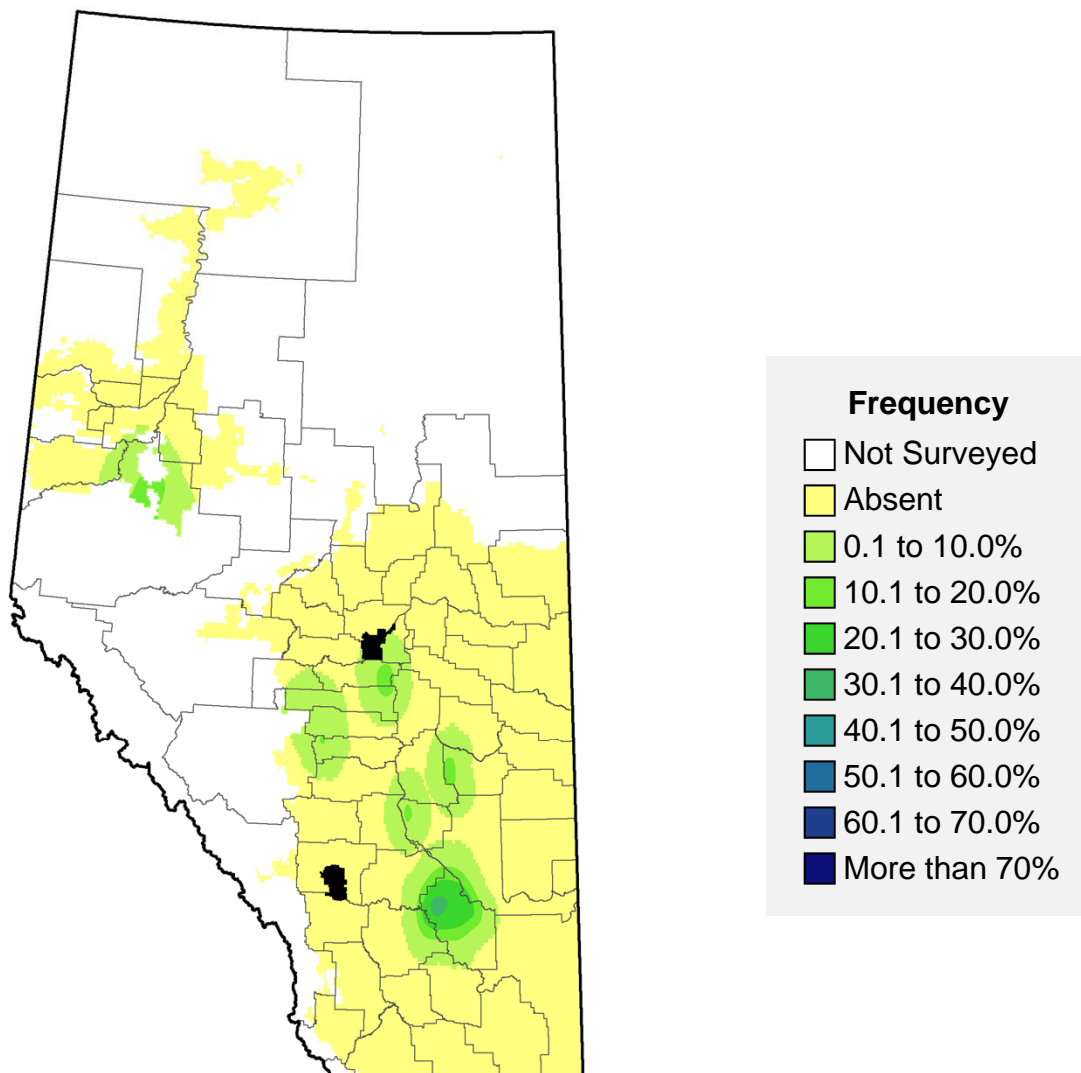
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	82	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Barley	72	0.3	< 0.1	10.0	< 0.1	0.6	0.6	0.1
Durum	-	-	-	-	-	-	-	-
Oat	44	3.2	0.2	5.0	< 0.1	0.2	0.2	0.7
Canola	48	0.6	0.1	22.5	< 0.1	4.5	7.4	0.6
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Barley, *Hordeum vulgare*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	38	1.8	0.3	15.7	< 0.1	1.1	1.8	0.8
Barley	79	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
Durum	-	-	-	-	-	-	-	-
Oat	32	2.3	1.7	75.0	0.1	5.6	5.6	1.7
Canola	19	8.3	1.4	16.4	0.1	1.8	14.4	4.8
Field pea	15	19.5	4.0	20.6	0.5	2.7	9.6	8.0
Perennials	-	-	-	-	-	-	-	-

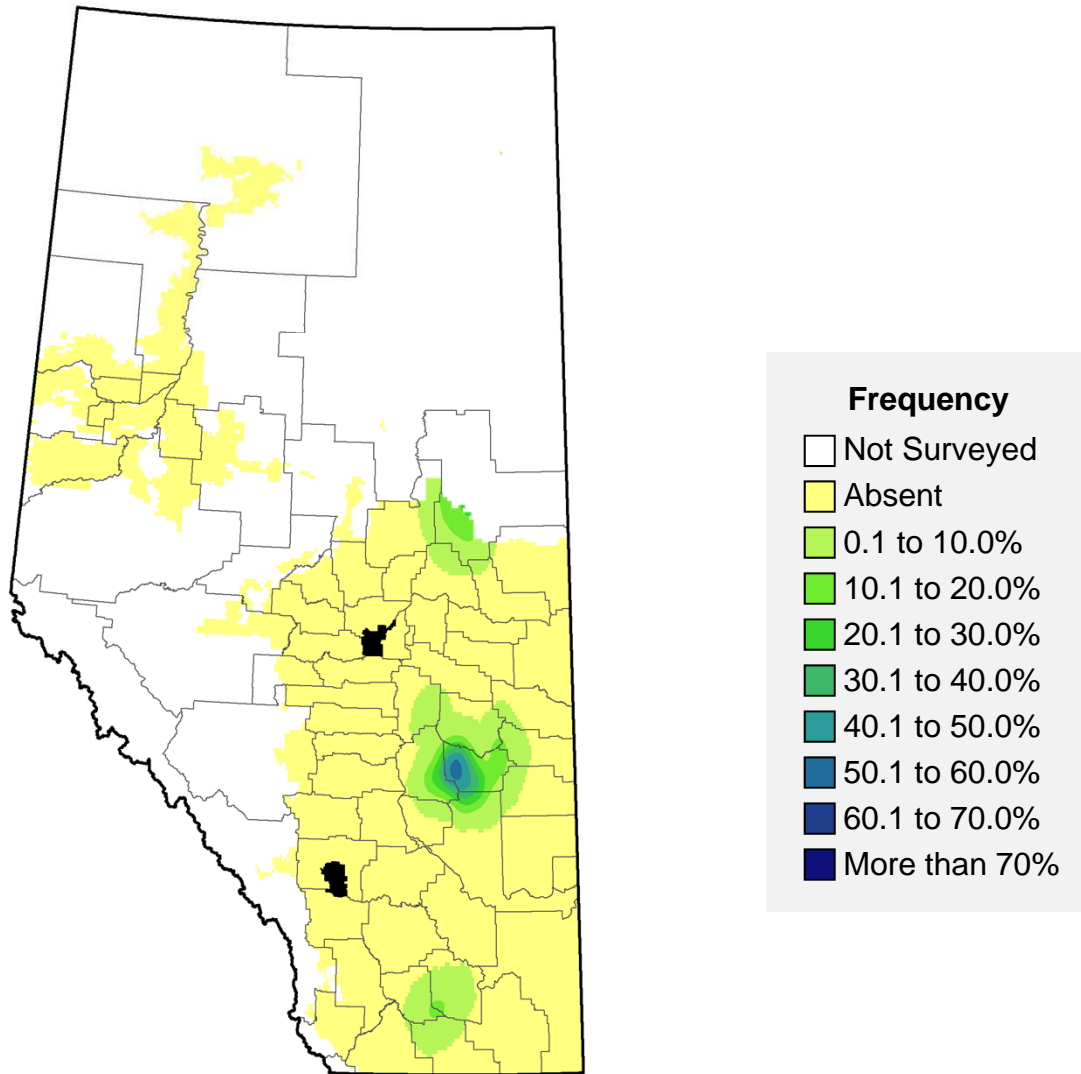
Barnyard grass, *Echinochloa crusgalli**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	41	0.9	0.3	31.8	0.1	6.3	15.8	0.8
Barley	51	1.1	0.1	13.5	< 0.1	3.7	10.0	0.6
Durum	-	-	-	-	-	-	-	-
Oat	57	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	25	1.2	0.2	20.0	0.6	55.2	55.2	2.2

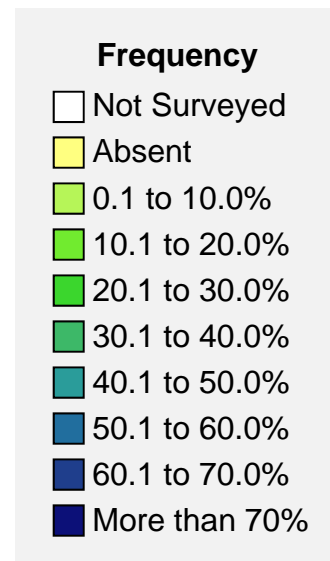
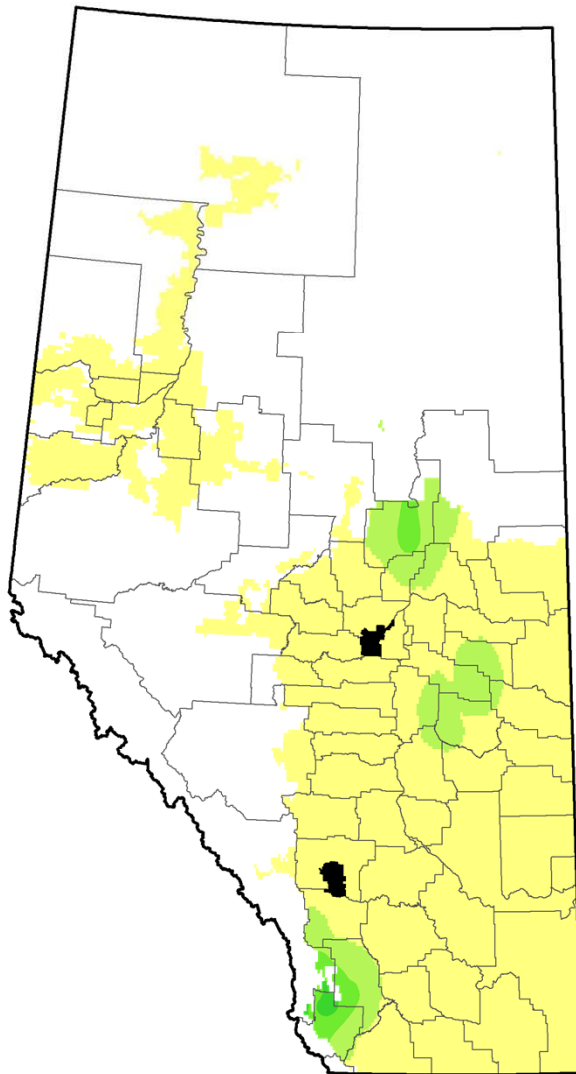
* Includes western barnyard grass (*E. microstachya*)

Biennial wormwood, *Artemisia biennis*



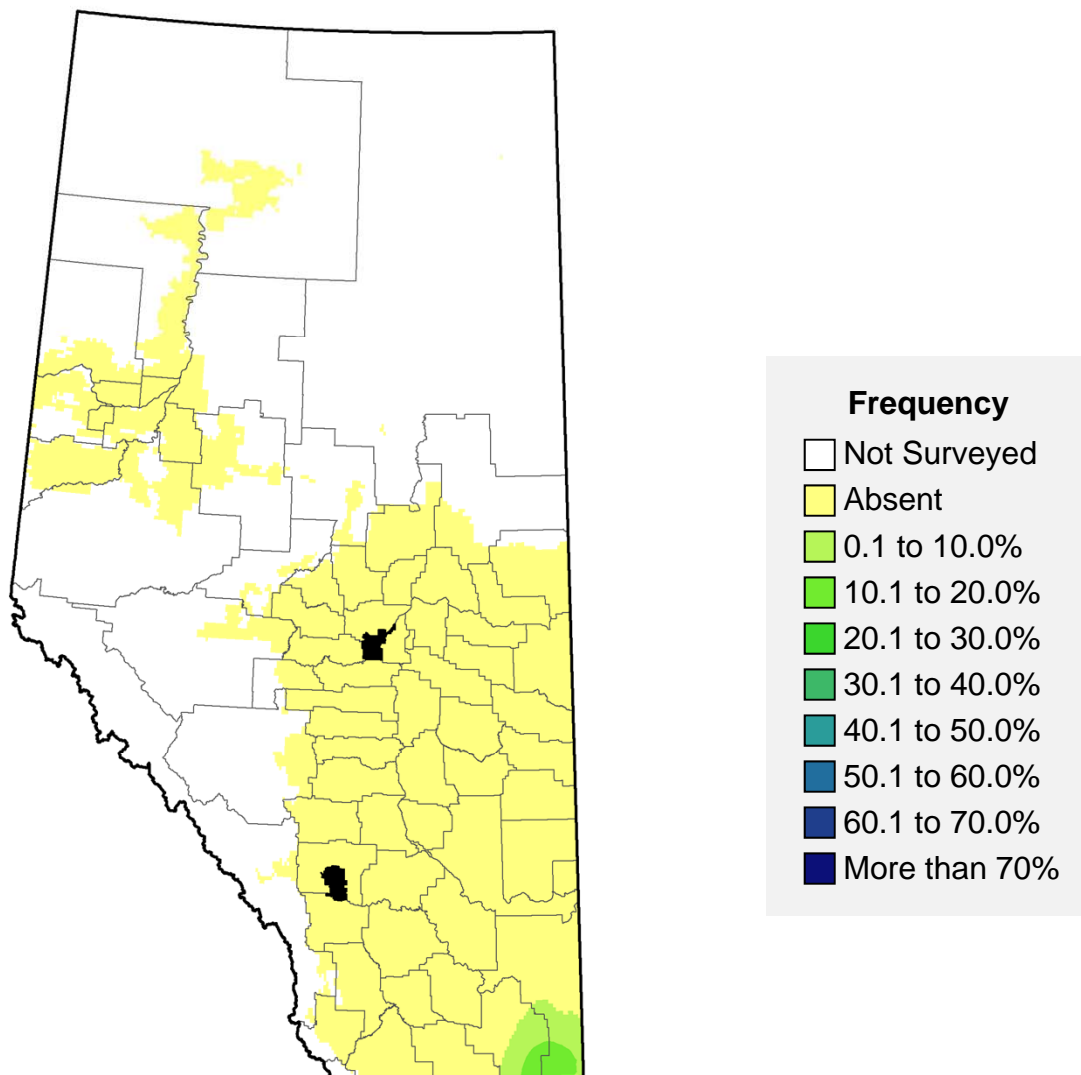
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	54	1.0	0.1	10.6	< 0.1	0.9	2.8	0.4
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	43	1.6	0.6	35.0	< 0.1	3.0	3.0	0.7
Canola	65	0.5	< 0.1	5.0	< 0.1	0.3	0.4	0.2
Field pea	39	2.7	0.2	9.3	< 0.1	0.6	1.2	0.7
Perennials	38	1.5	0.1	5.0	0.1	4.0	4.0	0.6

Black medick, *Medicago lupulina*



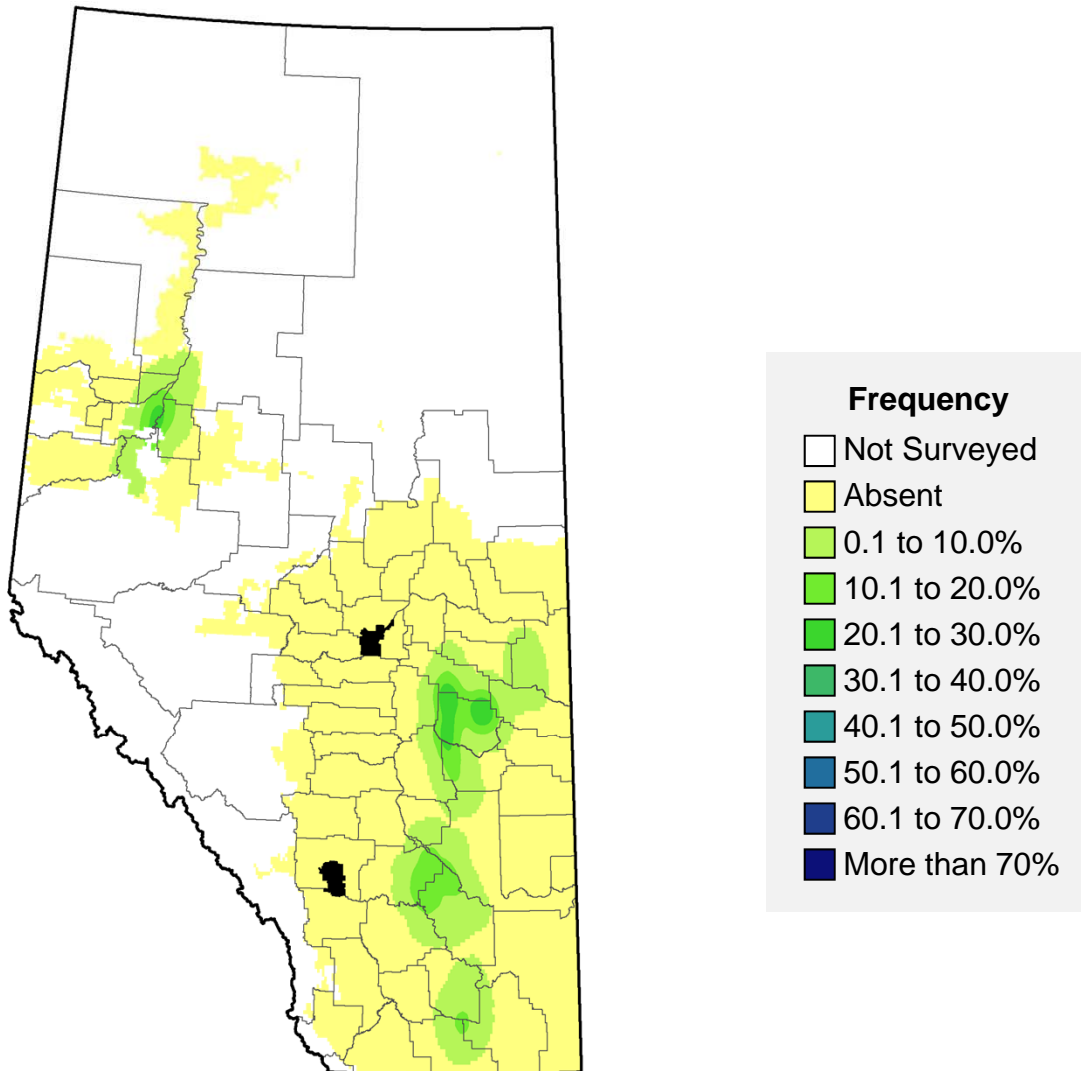
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	63	0.3	0.1	20.0	< 0.1	11.8	11.8	0.3
Barley	50	0.8	0.3	39.6	< 0.1	3.6	7.2	0.6
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	66	0.3	< 0.1	15.0	< 0.1	0.6	0.6	0.2
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Blue lettuce, *Lactuca tatarica* subsp. *pulchella*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	93	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

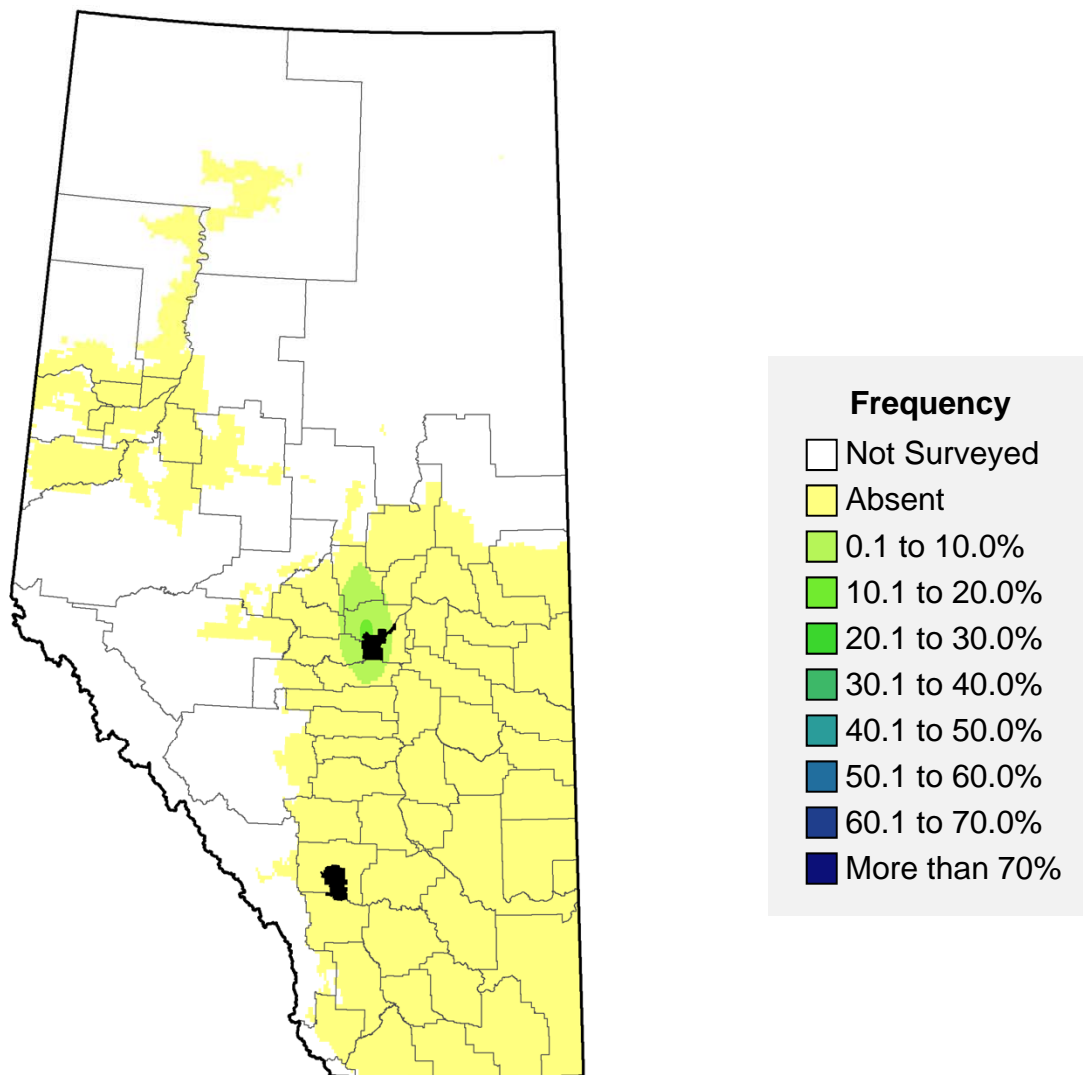
Bluebur, *Lappula squarrosa**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	42	2.0	0.1	6.3	< 0.1	1.0	5.8	0.7
Barley	75	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	25	3.1	0.5	17.6	0.1	4.5	18.8	2.5
Field pea	34	3.9	0.4	9.4	0.1	1.4	4.0	1.1
Perennials	-	-	-	-	-	-	-	-

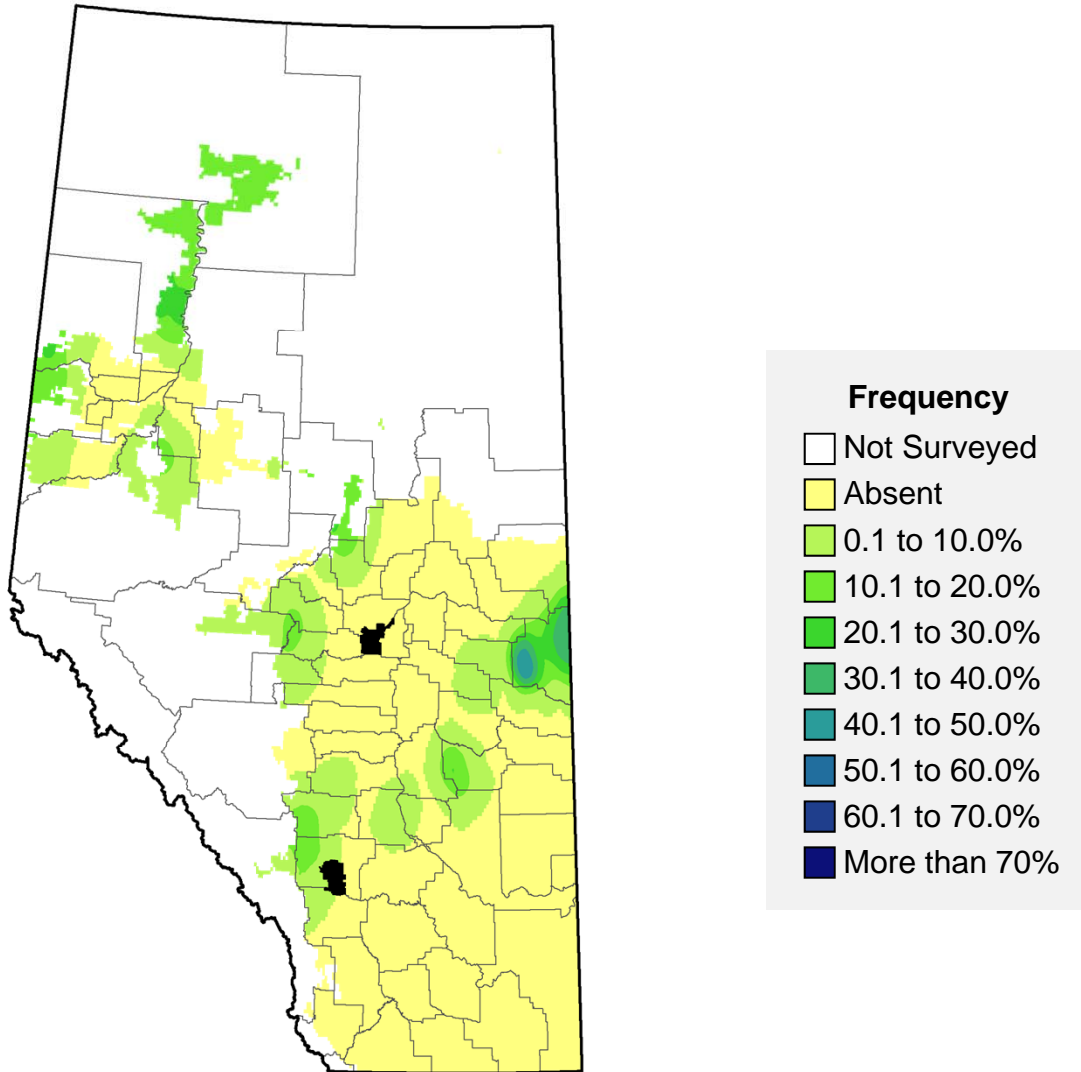
* Includes western bluebur (*L. occidentalis*)

Borage, *Borago officinalis*



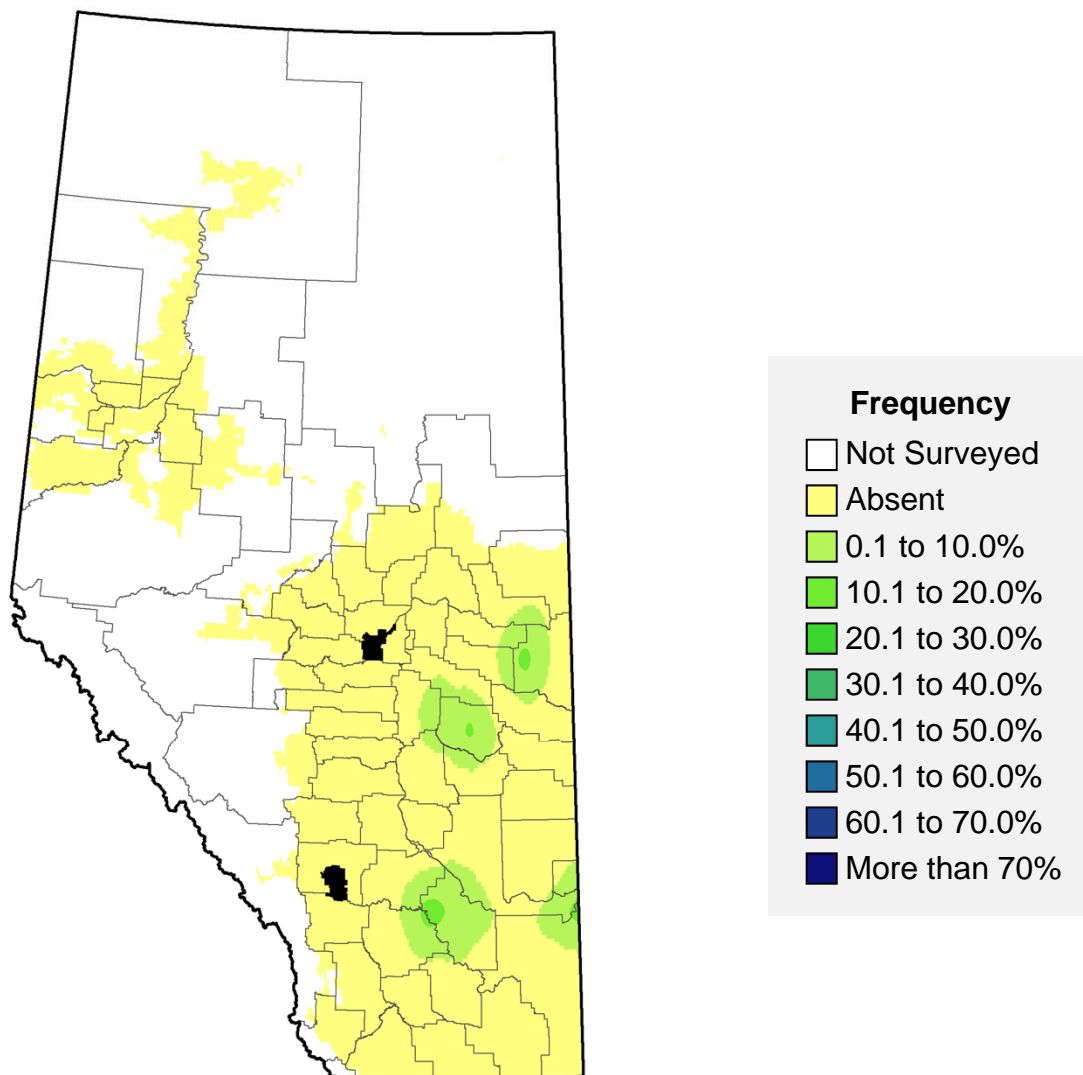
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	58	0.3	0.1	45.0	< 0.1	4.6	4.6	0.3
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Broad-leaved plantain, *Plantago major*



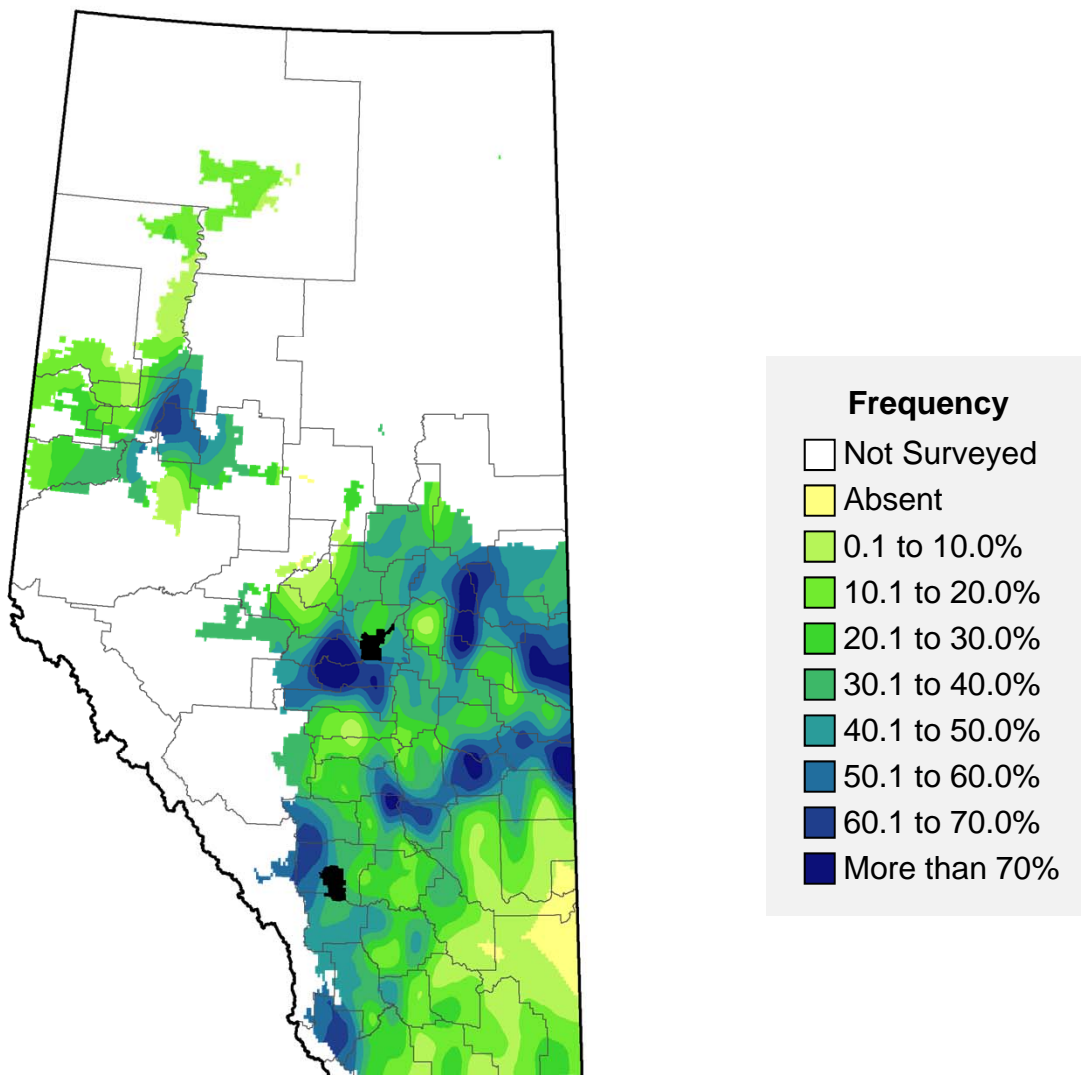
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	45	1.9	0.1	7.0	< 0.1	0.5	0.6	0.7
Barley	42	2.5	0.2	6.5	< 0.1	0.5	1.0	0.8
Durum	-	-	-	-	-	-	-	-
Oat	25	10.5	1.5	13.8	0.1	1.0	2.0	2.9
Canola	76	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Field pea	-	-	-	-	-	-	-	-
Perennials	23	6.8	0.7	10.0	< 0.1	0.4	0.6	2.4

Canada fleabane, *Conyza canadensis*



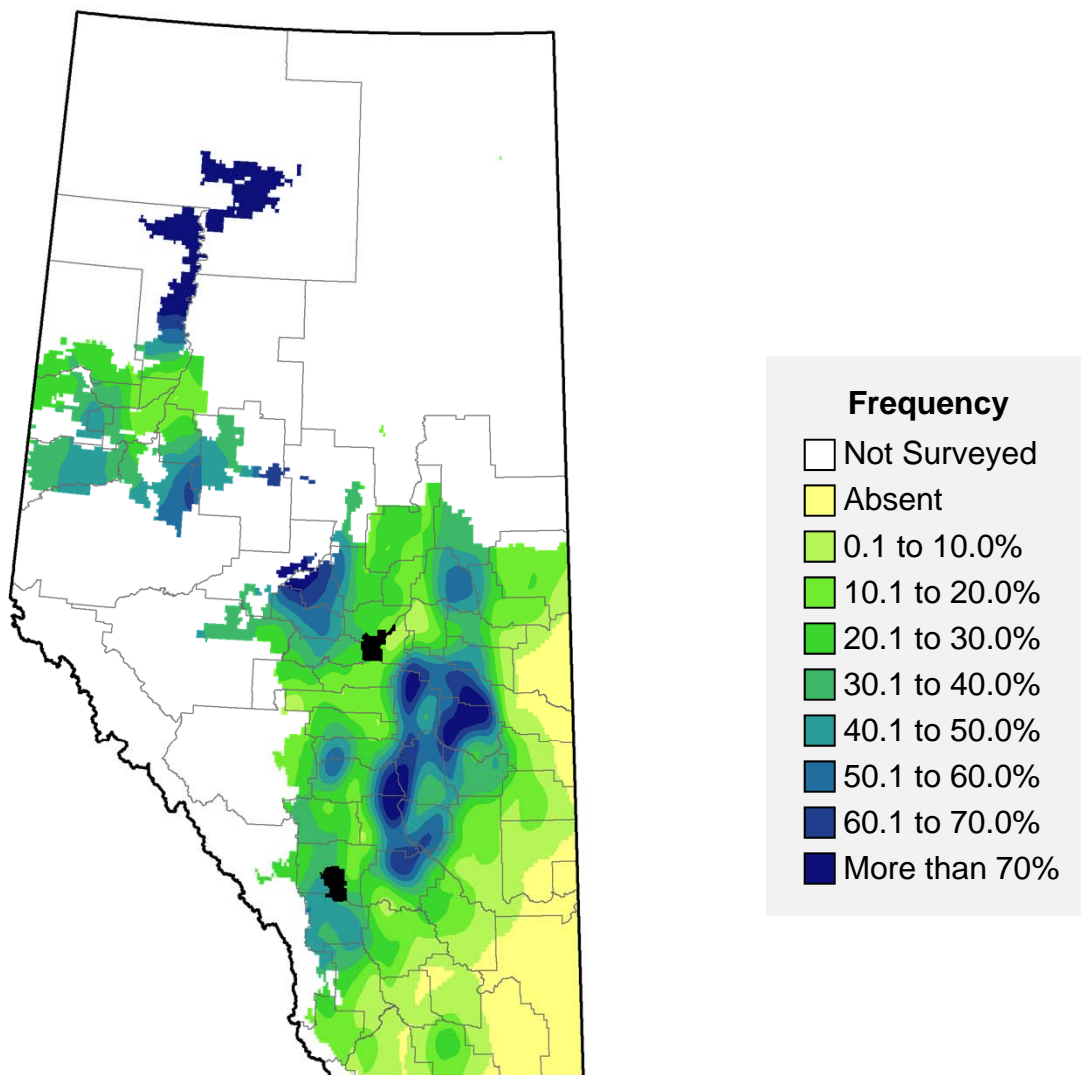
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	49	0.7	0.3	38.1	< 0.1	3.5	4.0	0.5
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	63	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.2
Field pea	-	-	-	-	-	-	-	-
Perennials	44	1.3	0.1	10.0	< 0.1	0.4	0.4	0.5

Canada thistle, *Cirsium arvense*



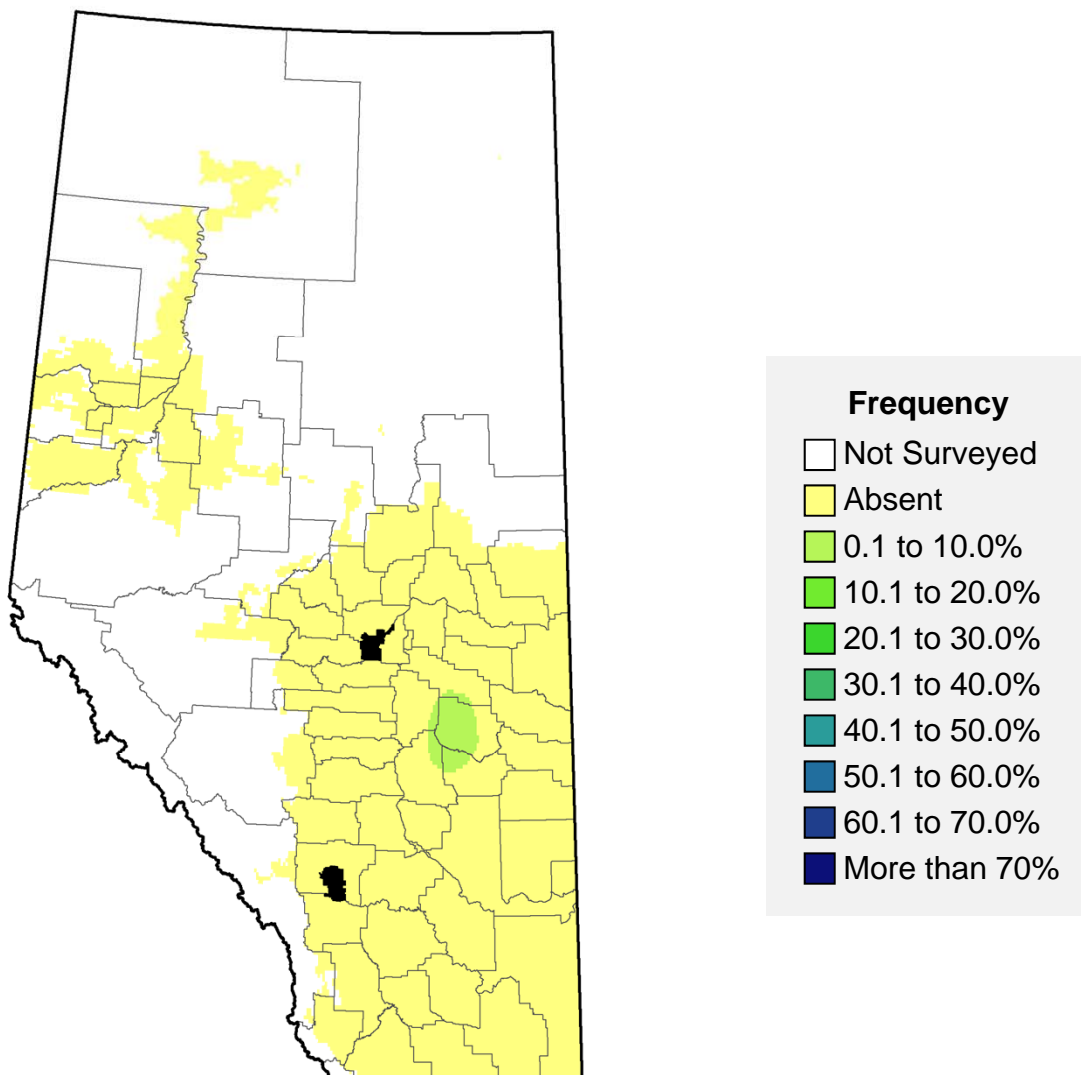
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence		
Spring wheat	4	33.8	5.2	15.5	0.5	1.6	10.0	16.2
Barley	4	35.3	5.8	16.5	0.6	1.6	16.2	16.3
Durum	10	14.9	1.5	10.4	0.1	0.7	2.0	7.3
Oat	10	26.8	7.1	26.5	0.7	2.6	11.8	10.2
Canola	6	28.9	4.2	14.4	0.4	1.4	16.0	15.0
Field pea	6	50.1	7.3	14.6	0.7	1.3	9.2	16.1
Perennials	5	23.3	3.3	14.0	0.3	1.1	2.8	9.6

Canola, *Brassica napus* and *B. rapa*



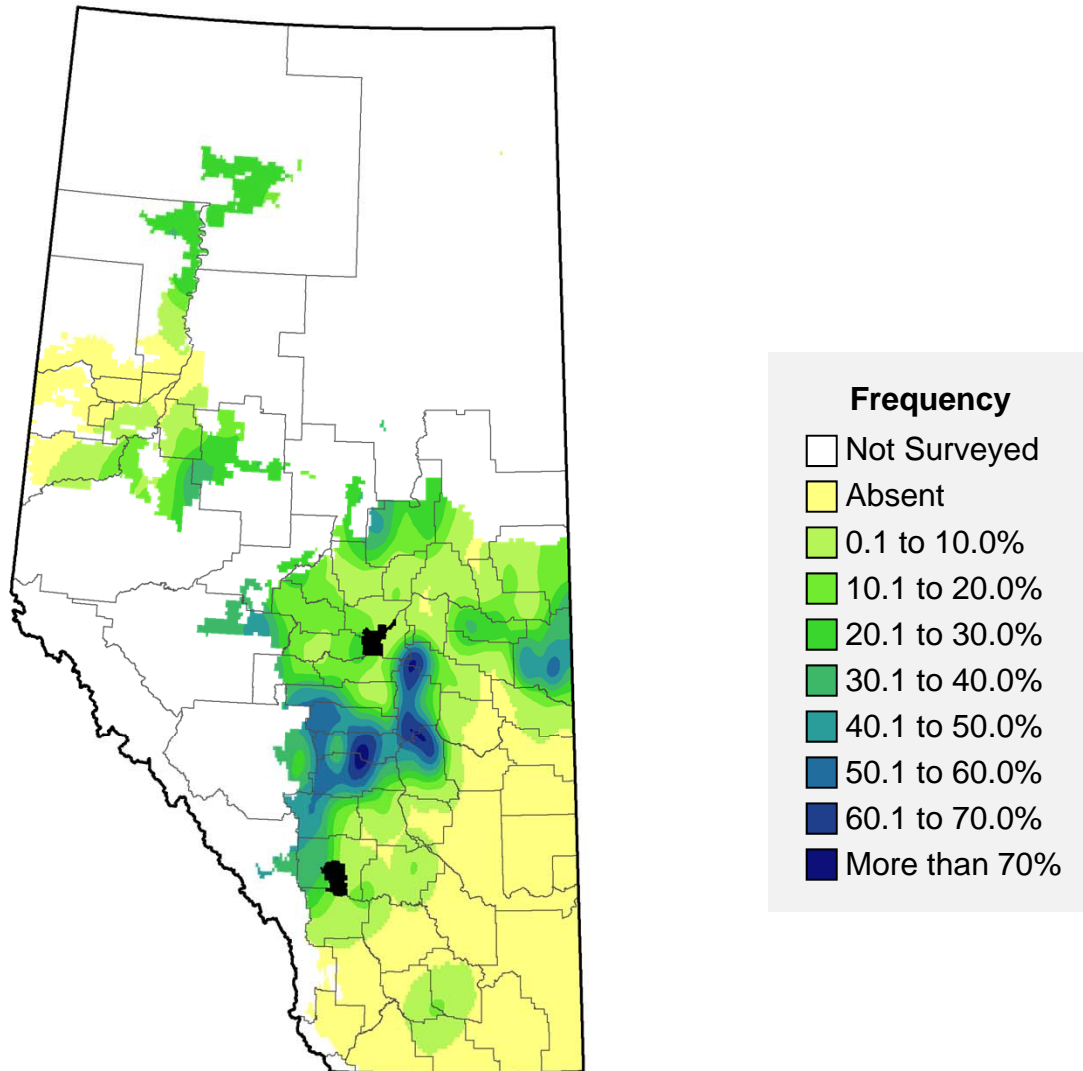
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	3	32.2	8.7	27.0	1.2	3.8	40.6	22.6
Barley	5	21.3	6.7	31.2	1.2	5.4	43.6	16.2
Durum	17	6.0	0.6	10.0	0.1	1.2	1.8	3.2
Oat	6	29.6	9.1	30.6	1.5	5.2	44.4	13.4
Canola	37	1.8	0.4	20.3	< 0.1	1.5	4.6	1.1
Field pea	5	37.9	7.9	20.9	1.5	3.9	85.4	16.9
Perennials	27	6.1	0.3	5.0	< 0.1	0.2	0.2	1.9

Caraway, *Carum carvi*



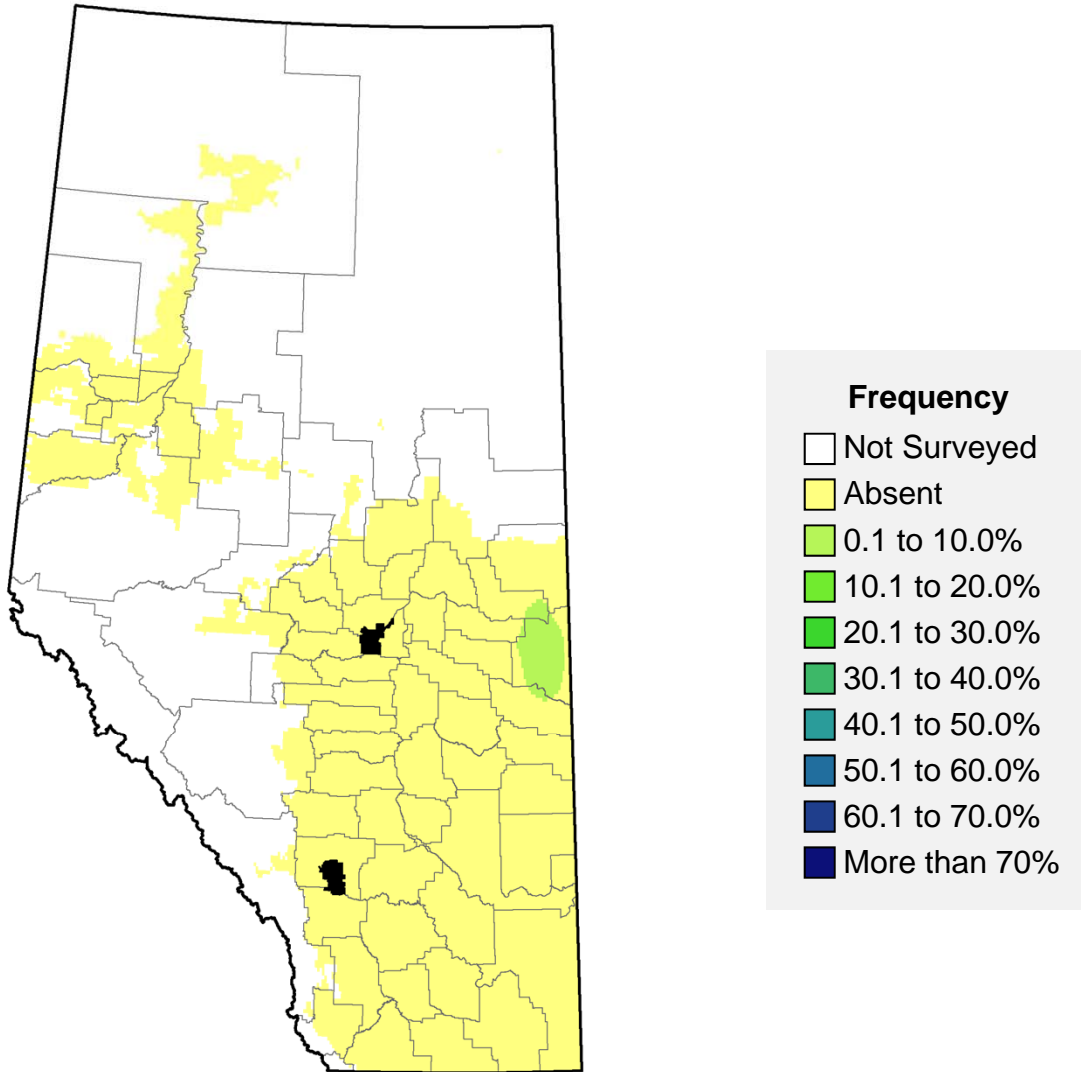
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	74	0.3	< 0.1	5.0	< 0.1	0.2	0.1
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

Chickweed, *Stellaria media*



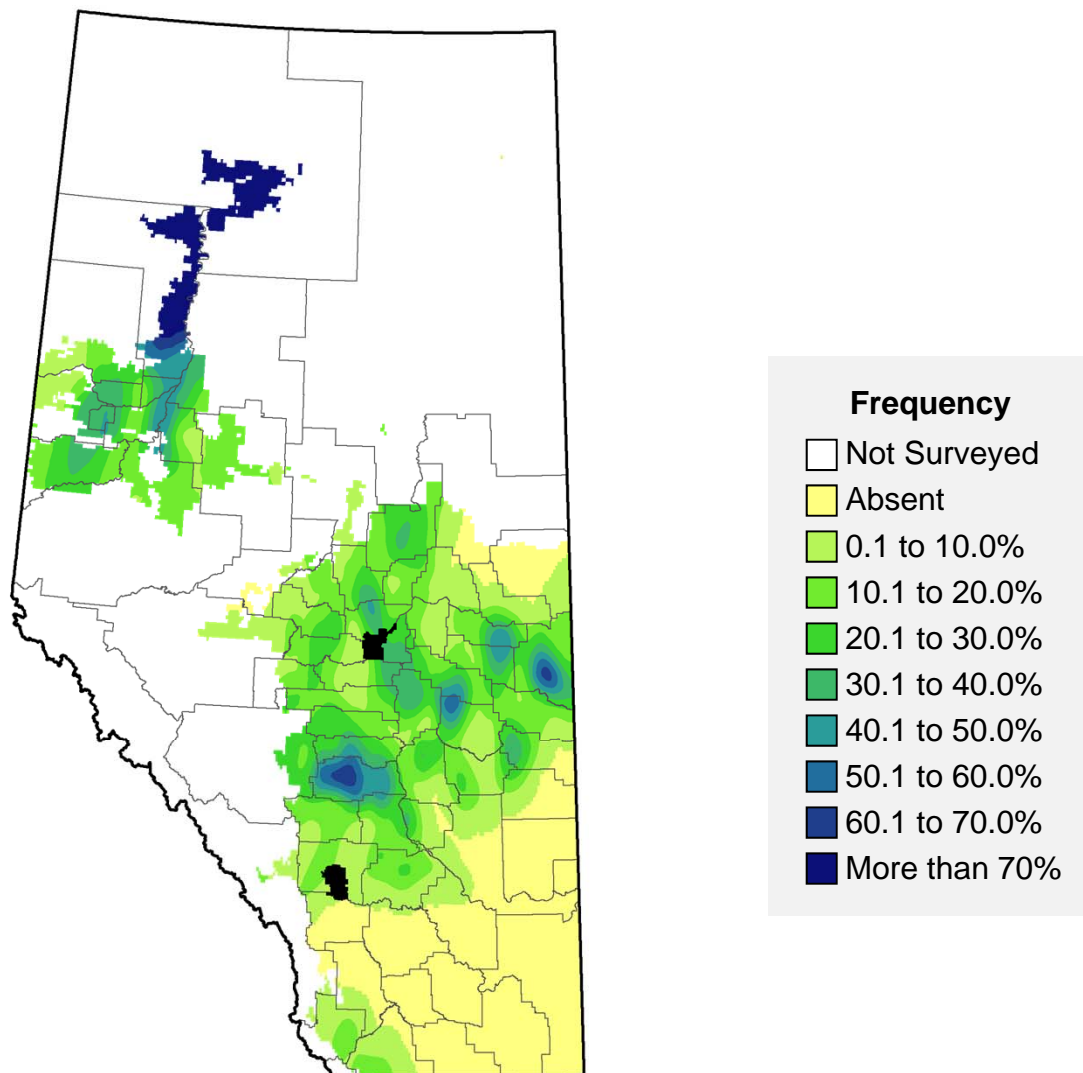
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	7	9.6	4.0	41.0	1.2	12.4	111.4	12.0
Barley	3	18.0	6.1	33.8	2.2	12.5	174.0	19.4
Durum	-	-	-	-	-	-	-	-
Oat	13	14.4	7.1	49.2	1.3	9.3	24.8	9.1
Canola	15	11.5	2.0	17.1	0.4	3.1	36.2	7.9
Field pea	2	20.1	10.7	53.2	3.7	18.3	41.2	22.8
Perennials	22	5.3	1.2	21.9	0.2	3.0	7.8	2.8

Cicer milk-vetch, *Astragalus cicer*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	85	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

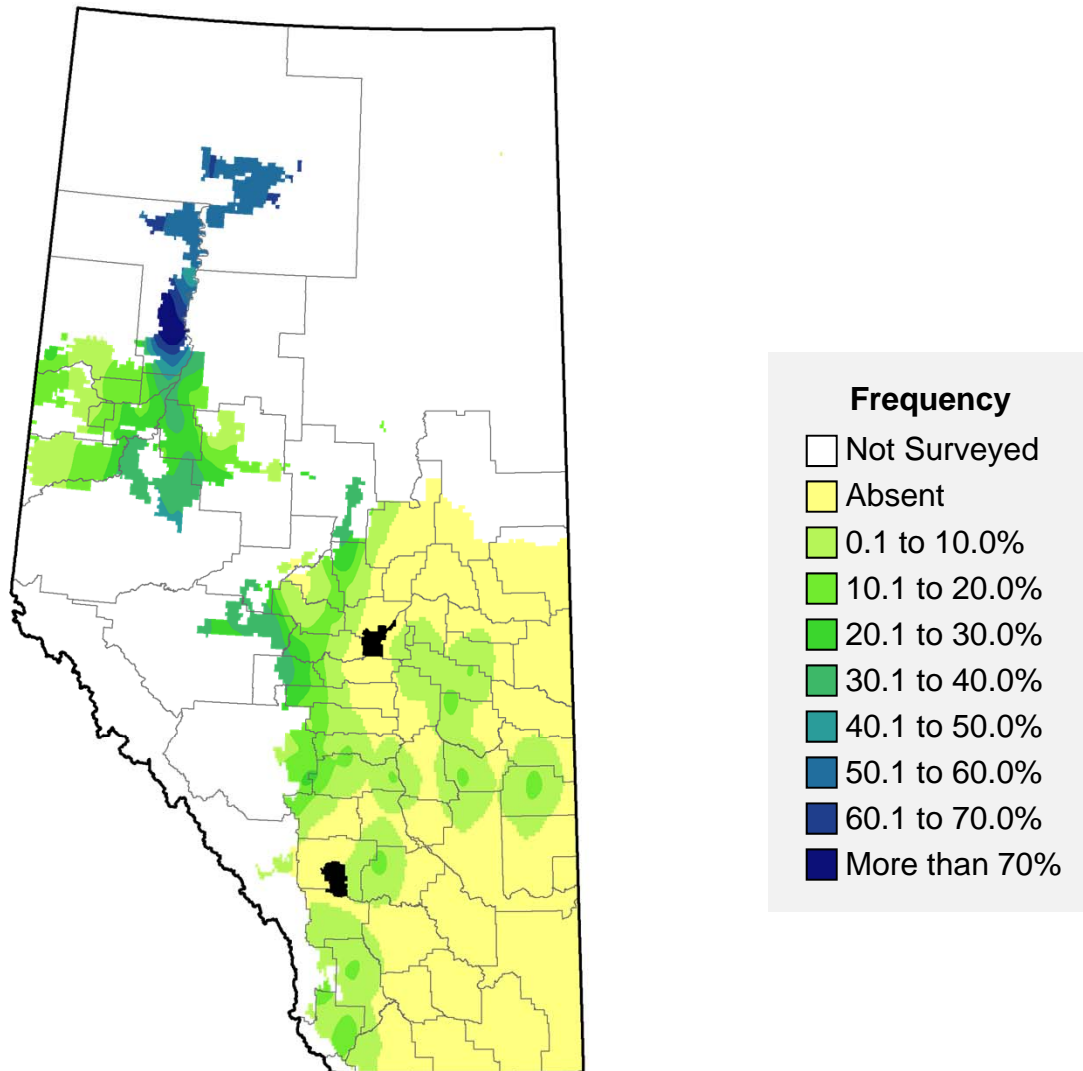
Cleavers, *Galium aparine**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	8	13.0	3.8	29.1	1.0	7.9	147.0	11.8
Barley	9	17.7	4.6	26.1	0.6	3.5	34.8	11.3
Durum	-	-	-	-	-	-	-	-
Oat	31	6.8	0.6	9.5	< 0.1	0.7	1.0	1.7
Canola	3	21.6	4.9	22.8	1.0	4.5	60.6	18.7
Field pea	1	21.4	10.5	49.3	11.3	52.9	135.8	46.4
Perennials	31	3.8	0.5	13.3	< 0.1	0.8	1.2	1.5

* Includes false cleavers (*G. spurium*)

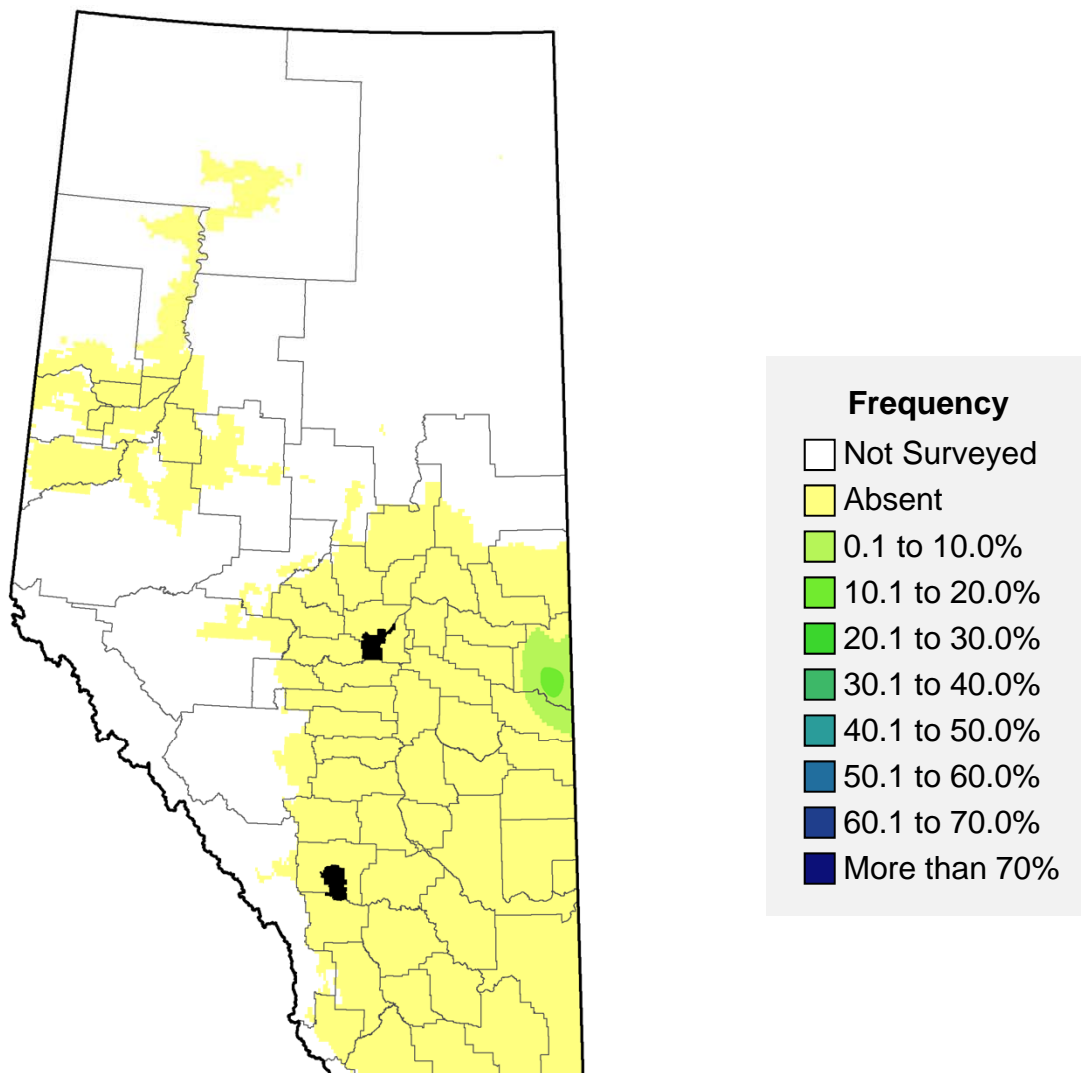
Clover species, *Trifolium spp.**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	34	2.2	0.3	12.6	0.1	4.2	23.4	1.2
Barley	25	4.5	0.9	19.9	0.2	3.8	18.2	2.6
Durum	-	-	-	-	-	-	-	-
Oat	5	14.4	8.0	55.8	5.2	36.1	162.4	16.7
Canola	23	6.6	0.7	10.4	< 0.1	0.7	2.4	2.8
Field pea	22	8.7	1.3	15.1	0.1	1.2	3.2	2.8
Perennials	16	11.8	0.6	5.5	0.1	0.7	3.2	3.9

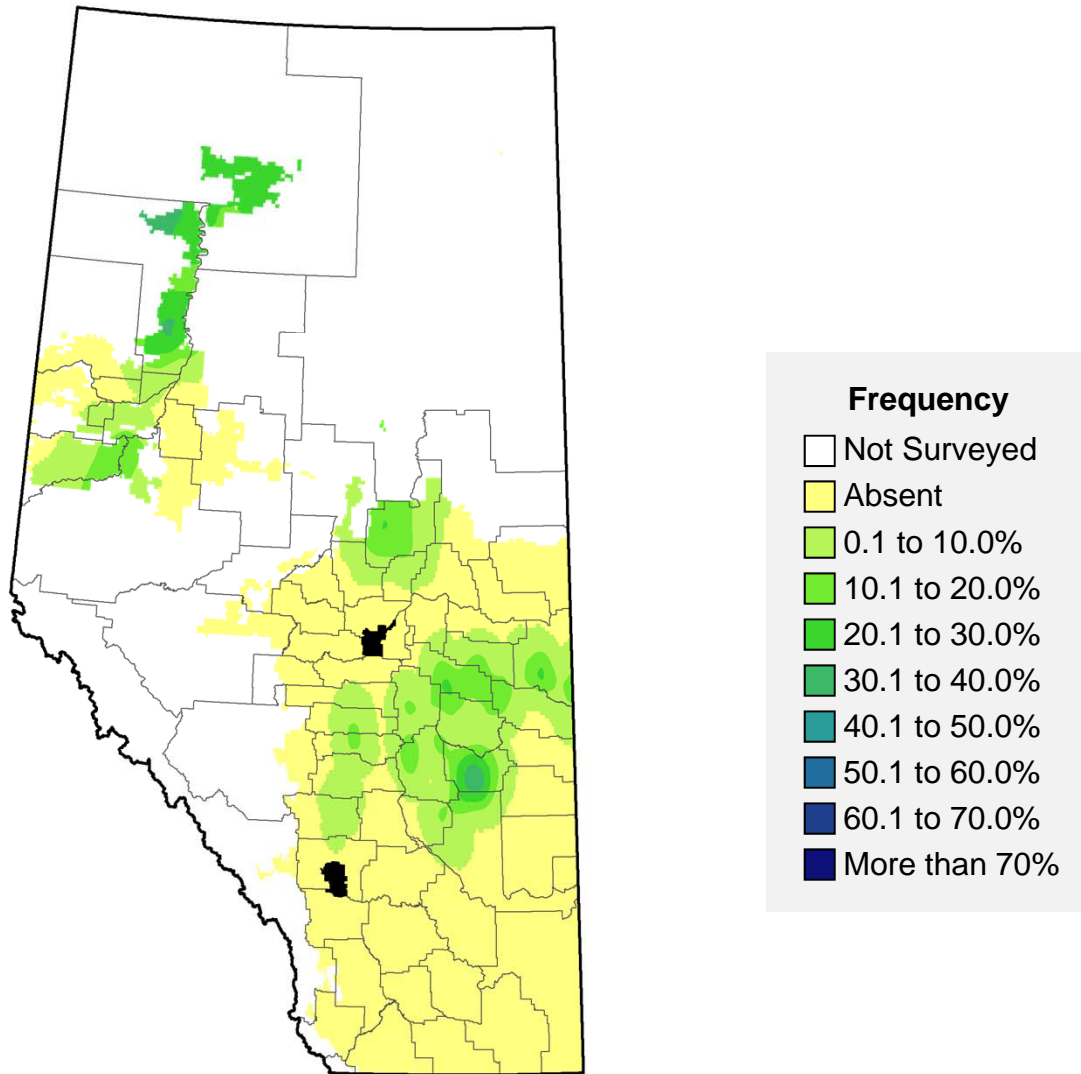
* Includes alsike, white and red clover (*T. hybridum.*, *T. repens* & *T. pratense*)

Common burdock, *Arctium minus* subsp. *minus*



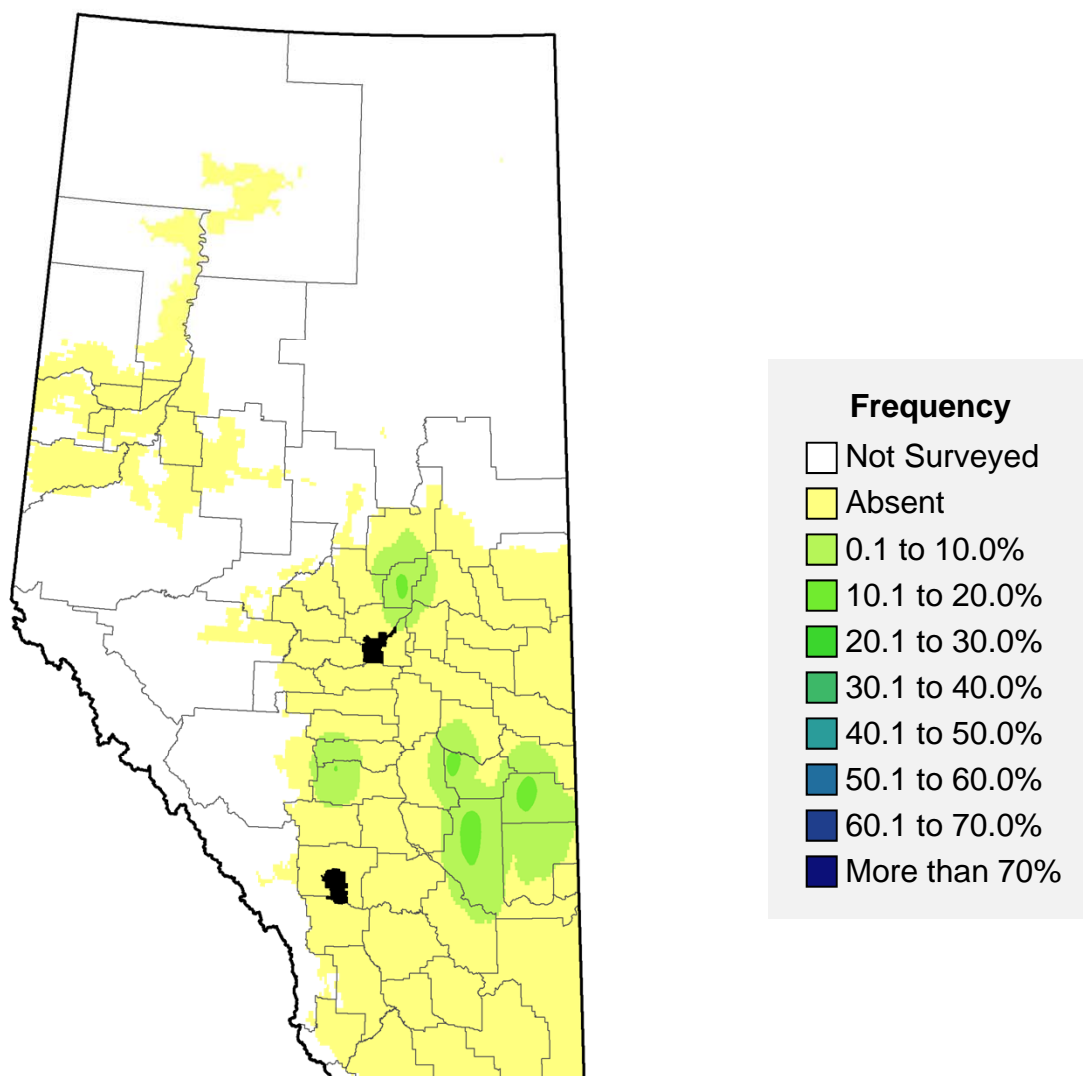
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	High	
Spring wheat	-	-	-	-	-	-	-
Barley	74	0.3	< 0.1	10.0	< 0.1	0.4	0.1
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	52	1.2	0.1	5.0	< 0.1	0.2	0.2
Perennials	-	-	-	-	-	-	-

Common groundsel, *Senecio vulgaris*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	26	3.5	0.6	15.6	0.2	4.7	35.0	2.2
Barley	37	4.0	0.3	7.3	< 0.1	0.3	0.8	1.3
Durum	-	-	-	-	-	-	-	-
Oat	42	2.3	0.6	25.0	0.1	2.2	2.2	0.8
Canola	36	2.4	0.3	11.4	0.1	2.5	8.8	1.4
Field pea	32	4.9	0.5	9.7	< 0.1	0.6	1.6	1.3
Perennials	-	-	-	-	-	-	-	-

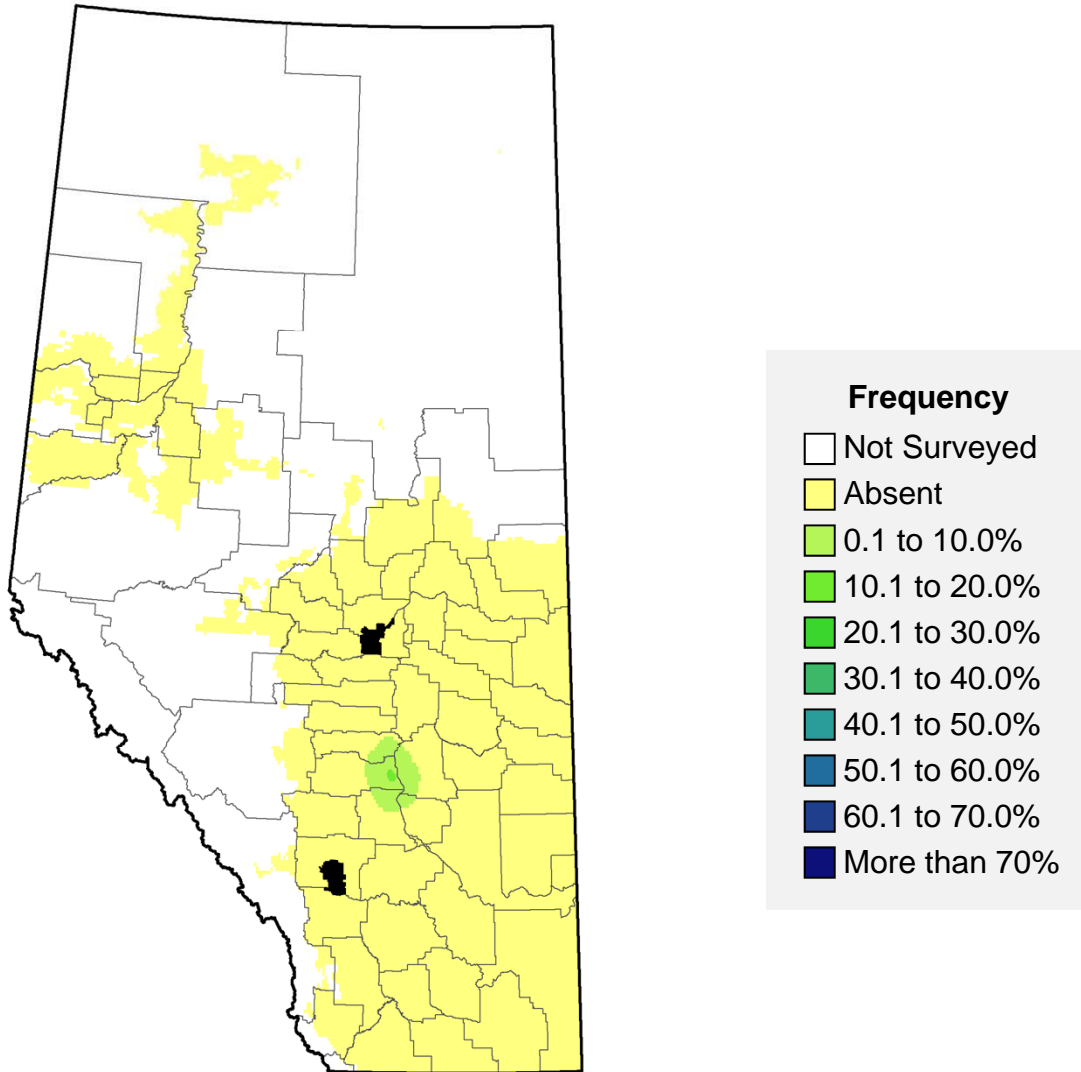
Common pepper-grass, *Lepidium densiflorum**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	65	0.4	0.1	30.3	< 0.1	2.4	3.6	0.2
Barley	65	0.6	0.1	12.4	< 0.1	1.0	1.4	0.2
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	57	0.2	0.1	30.0	< 0.1	4.2	4.2	0.2
Field pea	-	-	-	-	-	-	-	-
Perennials	37	1.5	0.3	20.0	< 0.1	0.8	0.8	0.7

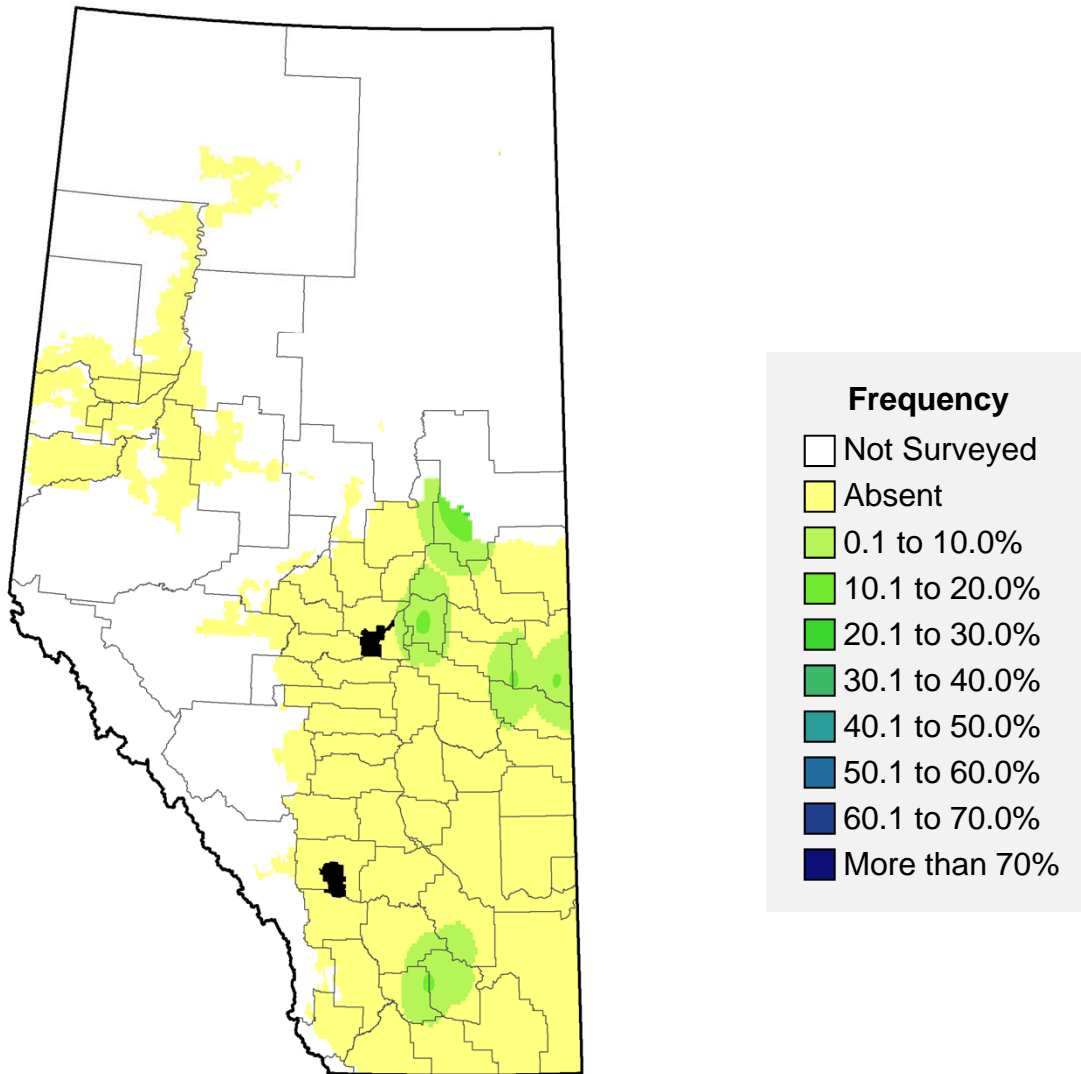
* May include field pepper-grass (*L. campestre*)

Common reed, *Phragmites australis*



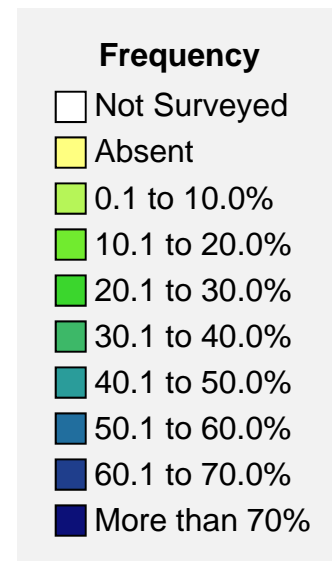
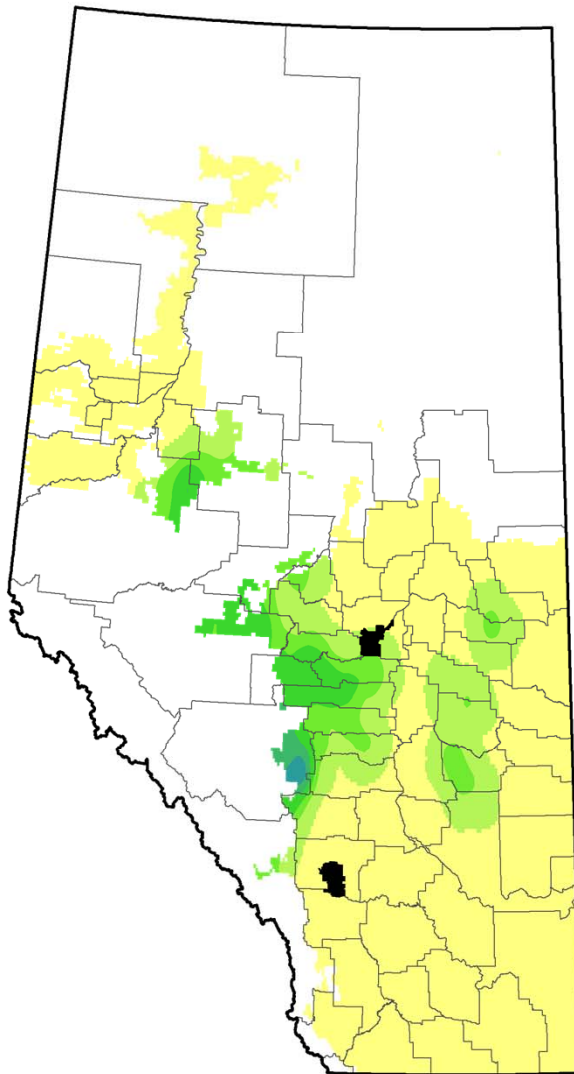
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	High	
Spring wheat	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	28	5.1	0.5	10.0	< 0.1	0.6	0.6

Common yarrow, *Achillea millefolium*



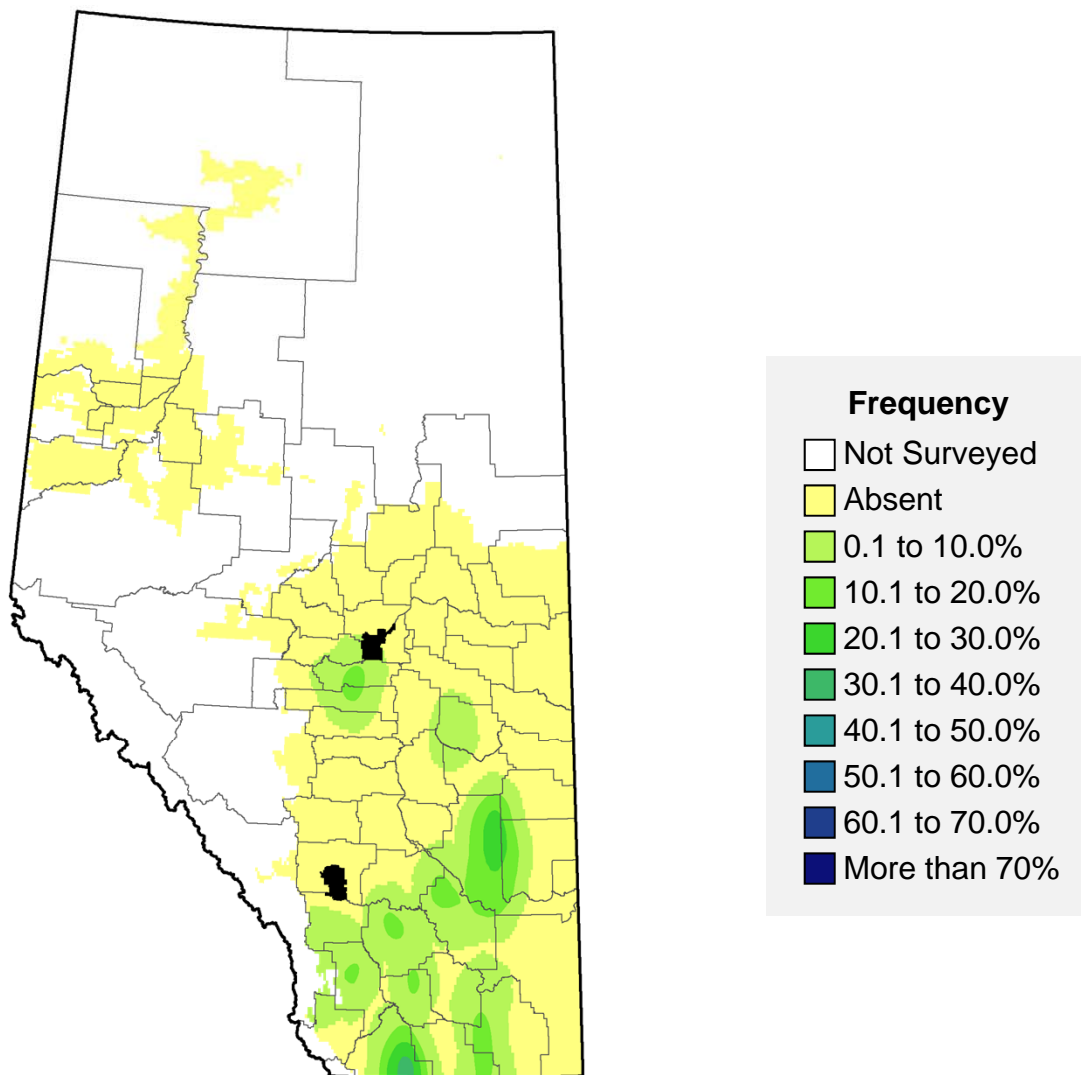
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	92	0.2	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	47	1.2	0.1	10.0	< 0.1	0.8	0.8	0.3
Perennials	6	6.3	2.7	43.7	0.9	14.2	25.4	6.4

Corn spurry, *Spergula arvensis*



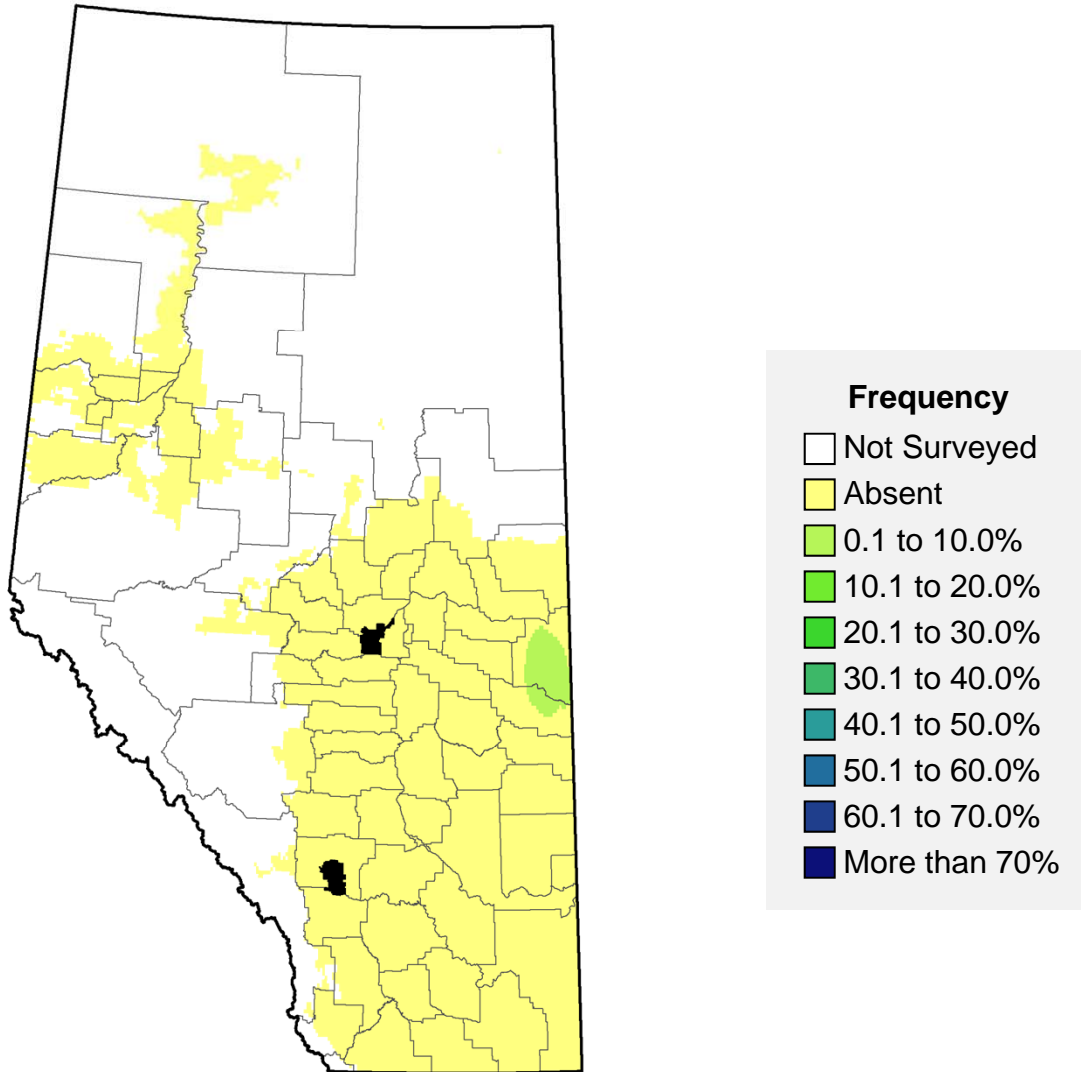
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	35	1.4	0.3	23.5	0.1	4.5	12.4	1.0
Barley	8	2.2	1.0	46.2	2.4	107.3	362.0	11.5
Durum	-	-	-	-	-	-	-	-
Oat	7	8.2	5.1	61.4	4.6	56.2	160.0	12.9
Canola	43	1.7	0.3	15.7	< 0.1	1.3	4.4	0.9
Field pea	50	1.0	0.1	5.0	< 0.1	2.4	2.4	0.3
Perennials	-	-	-	-	-	-	-	-

Cow cockle, *Vaccaria hispanica*



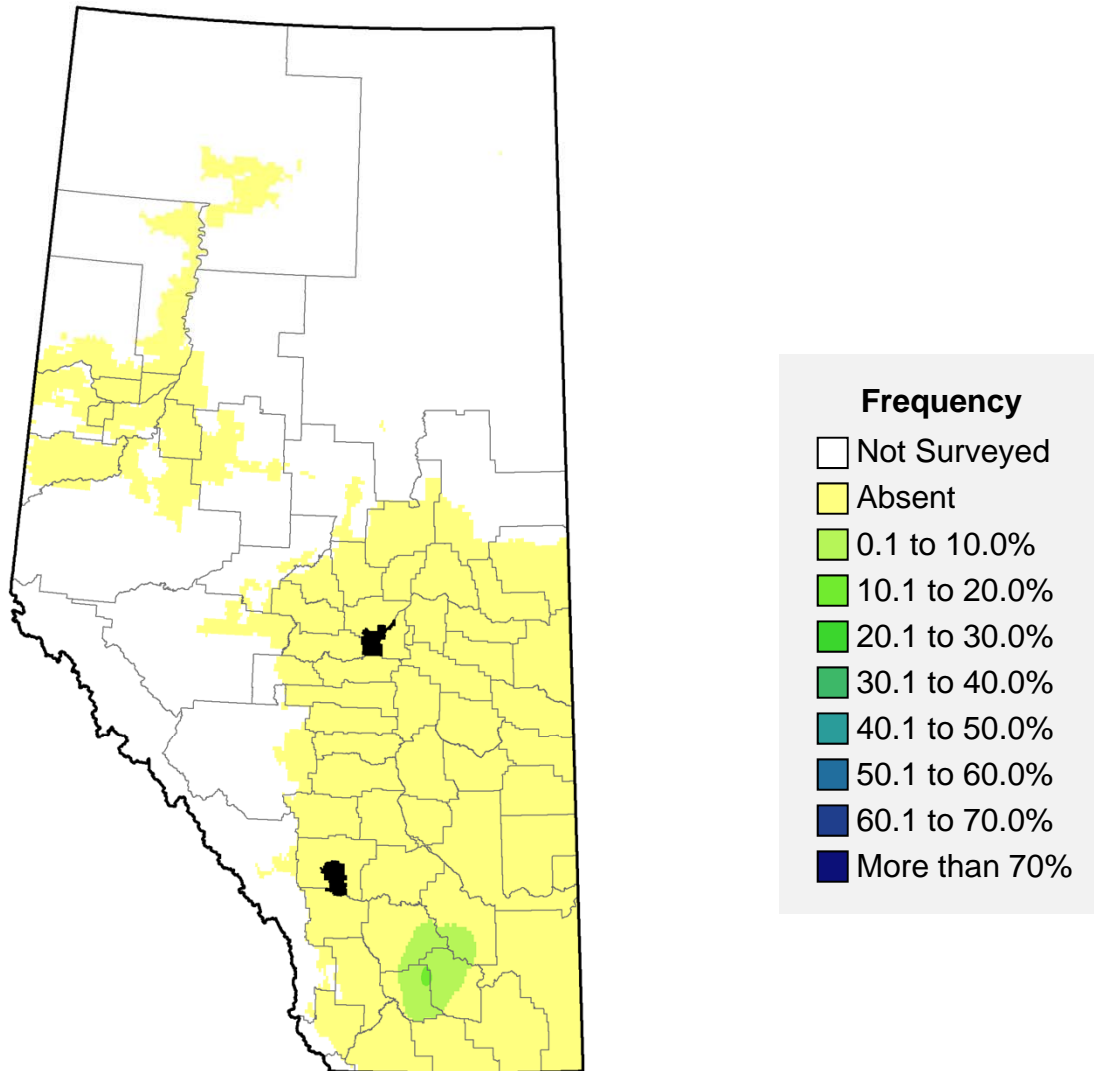
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance		
			All	Occurrence	All	Occurrence High			
Spring wheat	52	1.1	0.1	9.9	< 0.1	0.4	1.4	0.4	
Barley	35	3.2	0.5	15.1	< 0.1	0.9	3.2	1.3	
Durum	-	-	-	-	-	-	-	-	-
Oat	54	1.9	0.1	5.0	< 0.1	0.2	0.2	0.4	
Canola	64	0.3	< 0.1	15.0	< 0.1	1.0	1.0	0.2	
Field pea	46	1.5	0.1	5.0	< 0.1	0.2	0.2	0.3	
Perennials	-	-	-	-	-	-	-	-	-

Cream-colored vetchling, *Lathyrus ochroleucus*



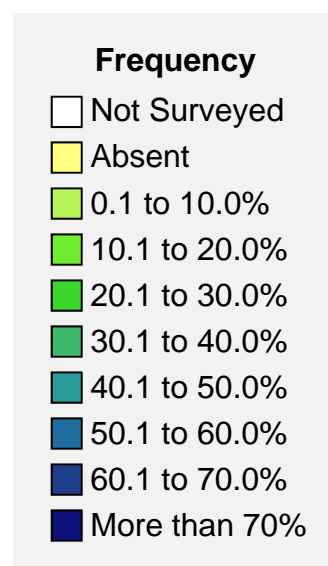
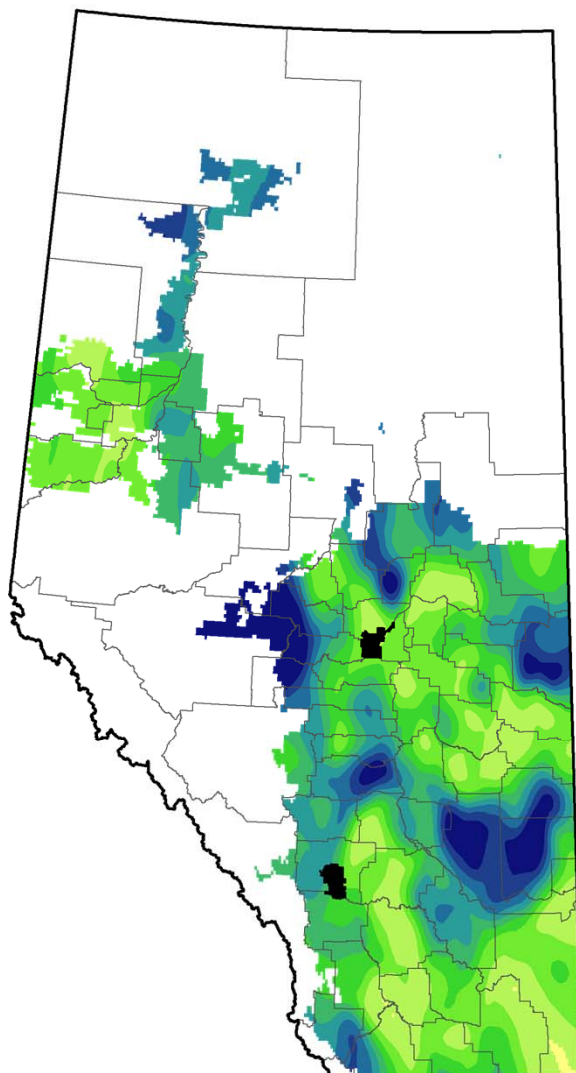
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	54	1.2	0.1	5.0	< 0.1	0.2	0.2
Perennials	-	-	-	-	-	-	-

Crested wheat grass, *Agropyron cristatum*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	High	
Spring wheat	95	0.1	< 0.1	5.0	< 0.1	0.4	< 0.1
Barley	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

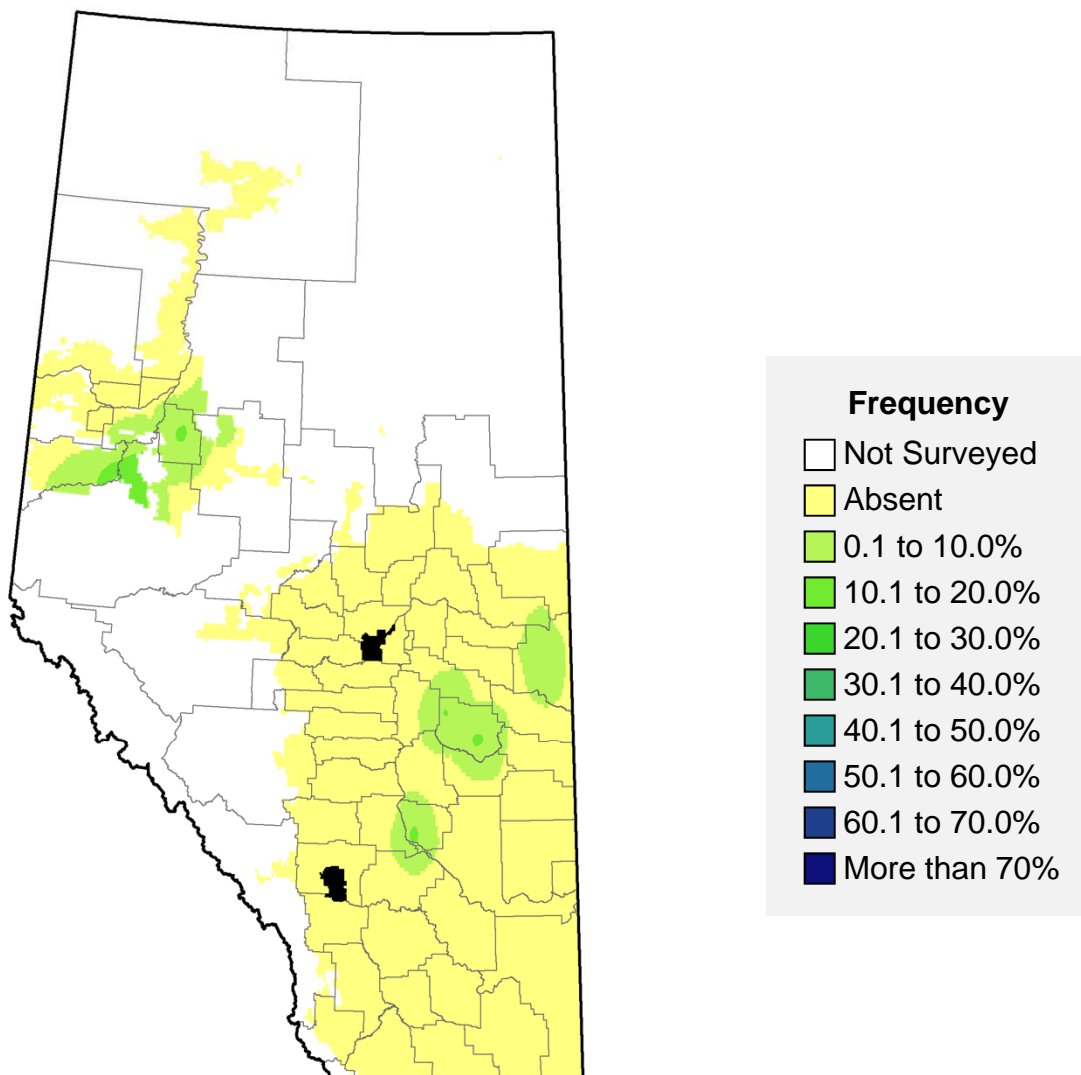
Dandelion, *Taraxacum officinale**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	9	22.7	3.7	16.2	0.3	1.3	15.0	10.7
Barley	6	27.8	6.8	24.4	0.7	2.4	29.0	15.9
Durum	5	23.0	5.0	21.6	1.1	4.9	28.2	23.7
Oat	1	48.4	20.7	42.8	7.4	15.3	102.4	34.2
Canola	10	21.9	3.9	18.0	0.3	1.3	10.0	12.1
Field pea	10	33.0	6.4	19.4	0.4	1.1	2.6	11.5
Perennials	1	85.7	56.6	66.0	16.3	19.1	102.0	114.9

* Includes red-seeded dandelion (*T. erythrospermum*)

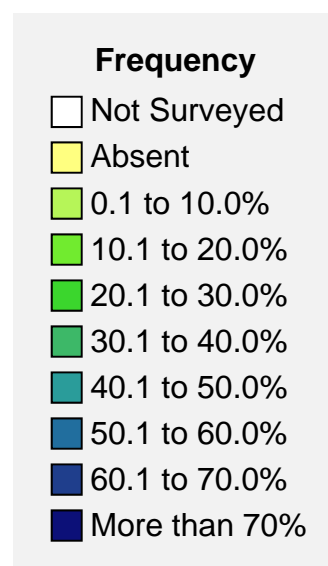
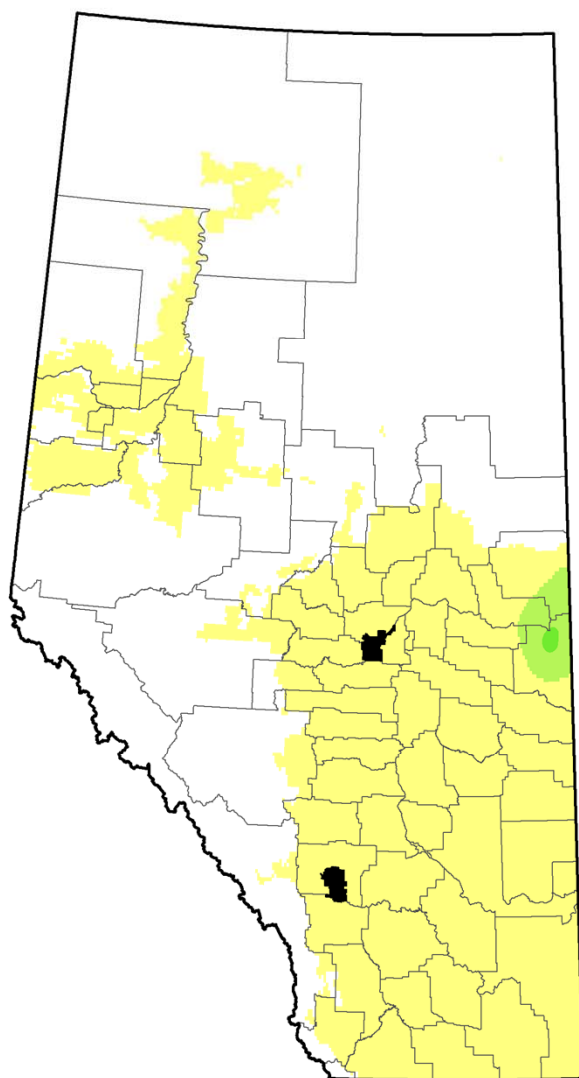
Dock species, *Rumex spp.**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	40	1.2	0.2	20.7	< 0.1	3.8	14.0	0.8
Barley	36	0.5	0.1	25.0	0.3	56.0	56.0	1.3
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	52	0.8	0.1	12.5	< 0.1	1.2	2.2	0.4
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

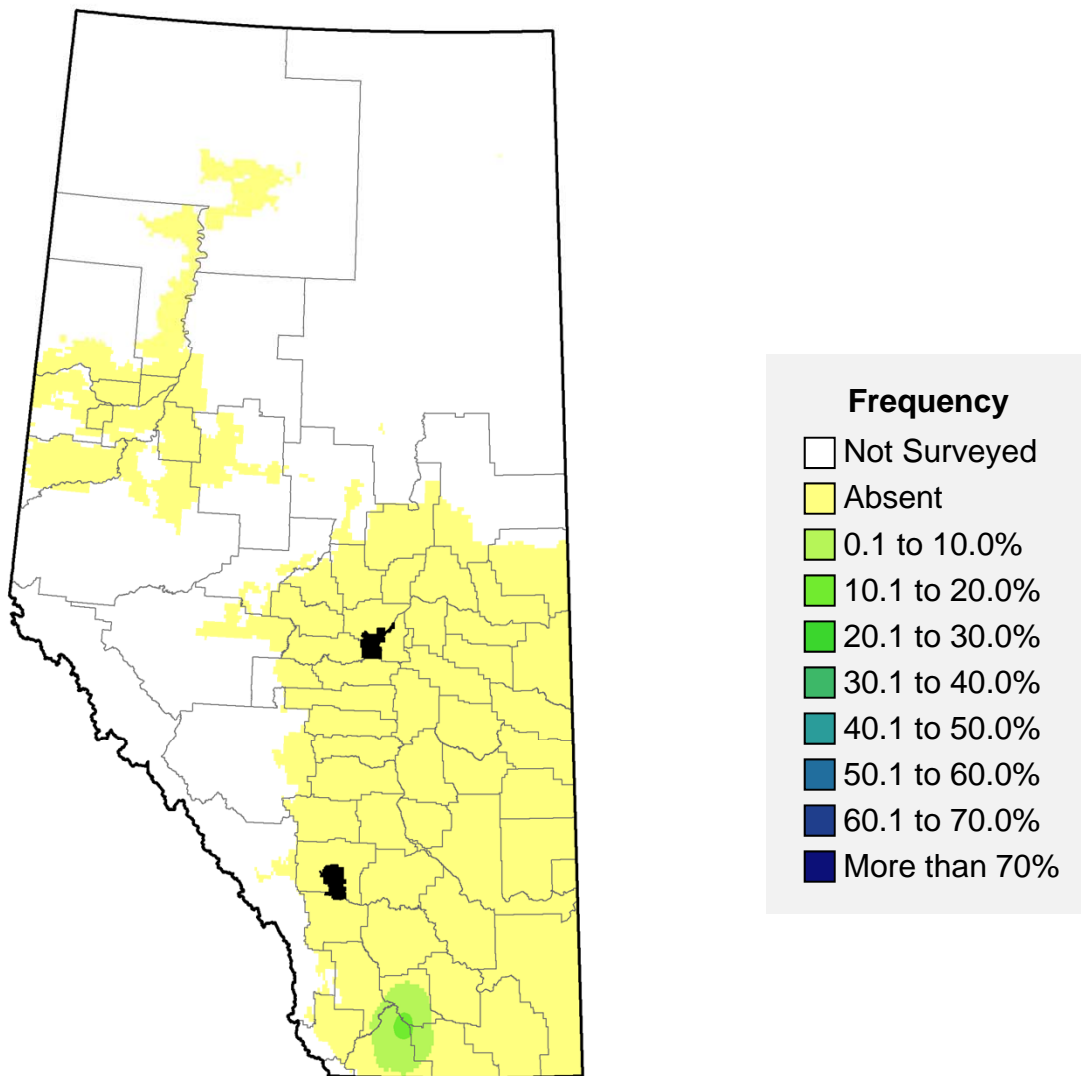
*Includes curled, field, western and willow-leaved dock (*R. crispus*, *R. pseudonatronatus*, *R. occidentalis* and *R. triangulivalvis*)

Dog mustard, *Erucastrum gallicum*



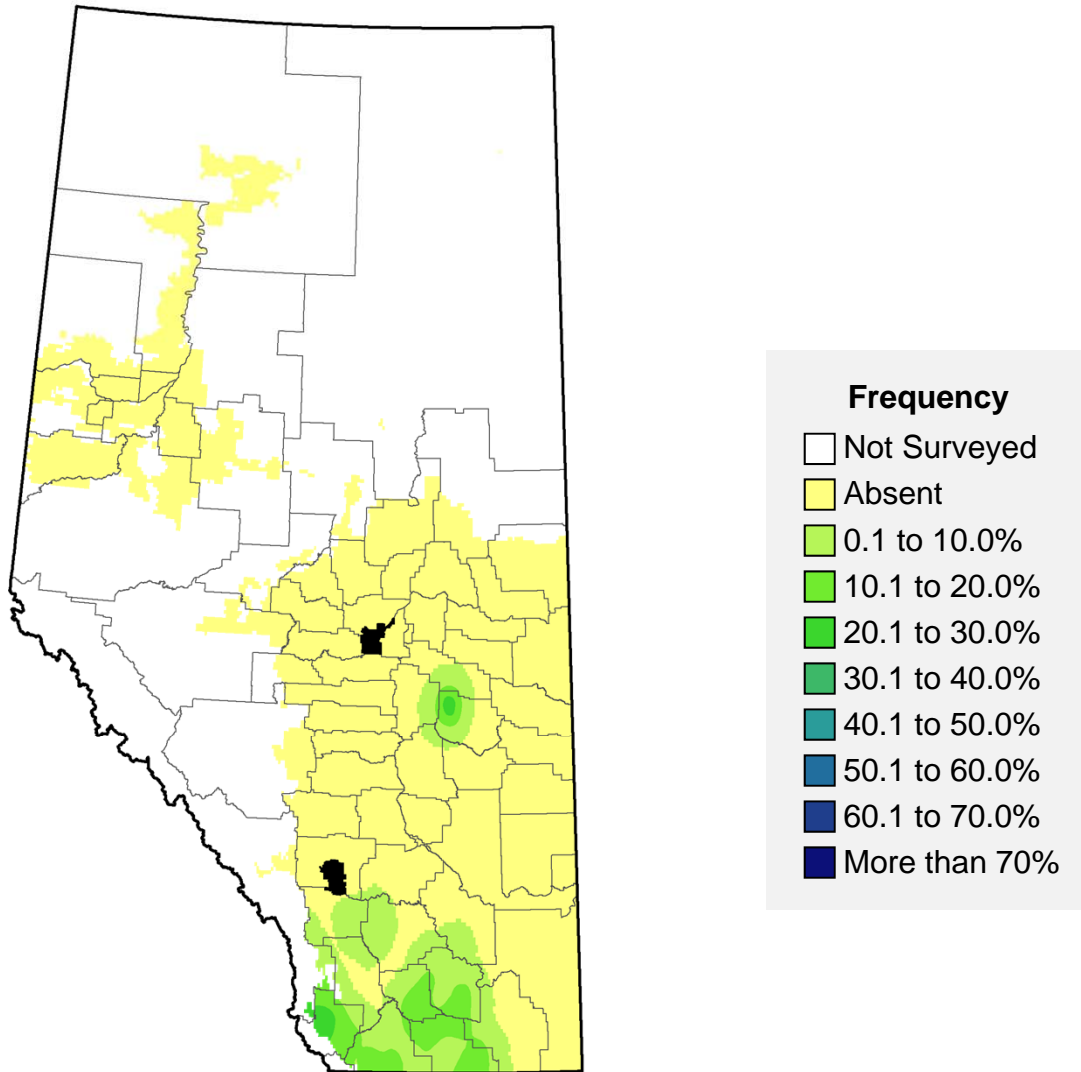
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	70	0.5	< 0.1	5.0	< 0.1	0.2	0.1
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

Dogbane species, *Apocynum* spp.



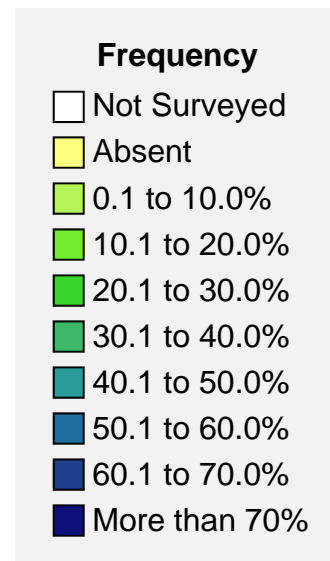
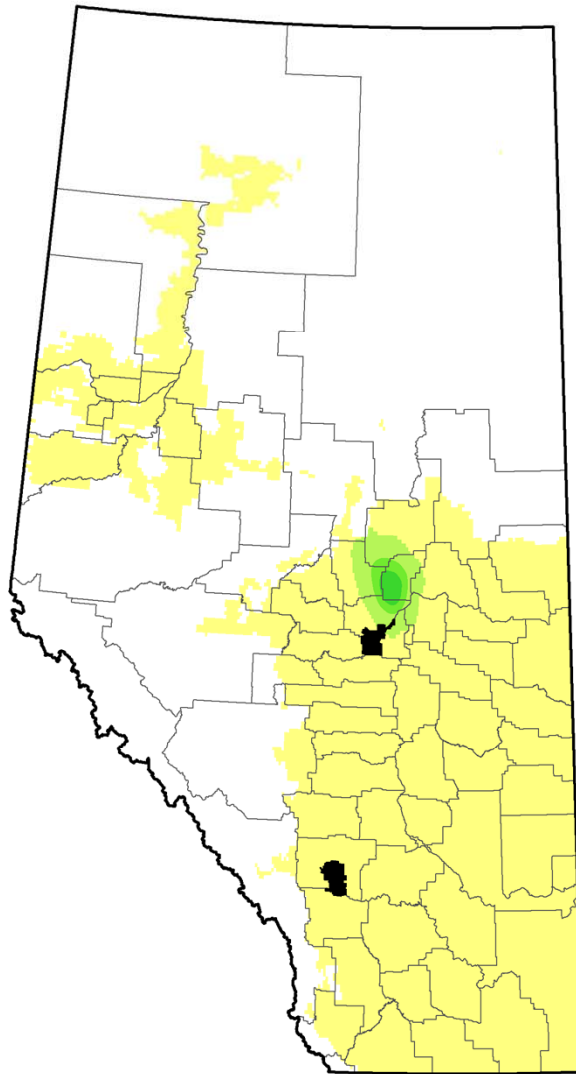
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	78	0.4	< 0.1	5.0	< 0.1	0.6	0.1
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

Downy brome, *Bromus tectorum*



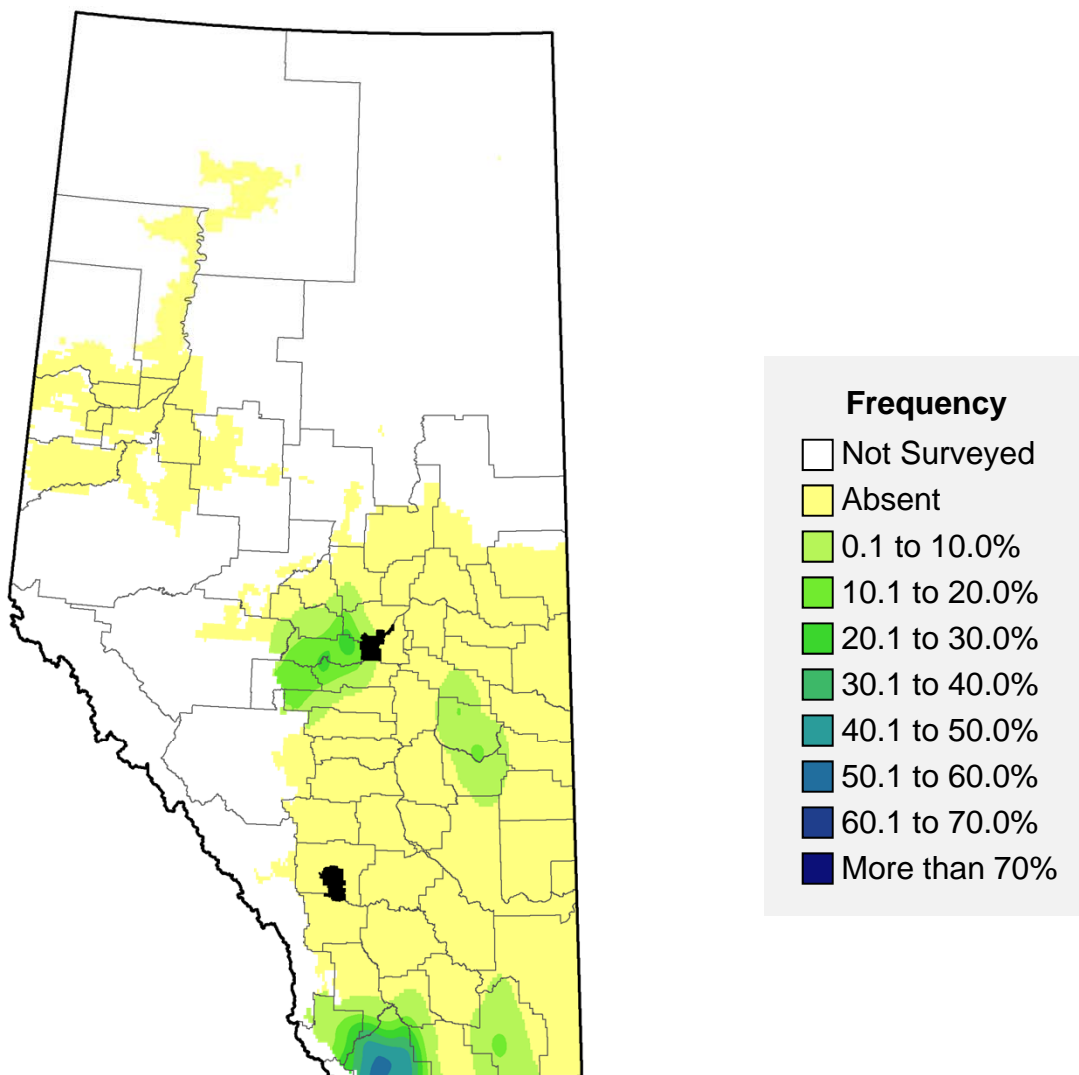
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	37	2.2	0.2	8.8	< 0.1	2.1	14.6	0.9
Barley	23	1.0	0.4	39.3	0.7	70.5	187.6	3.5
Durum	25	5.1	0.3	5.0	< 0.1	0.3	0.4	1.9
Oat	-	-	-	-	-	-	-	-
Canola	50	0.6	0.1	20.3	< 0.1	1.8	2.2	0.4
Field pea	38	1.1	0.5	40.0	0.1	5.2	5.2	0.7
Perennials	2	6.9	6.9	100.0	6.4	93.0	93.0	24.7

False ragweed, *Iva xanthifolia*



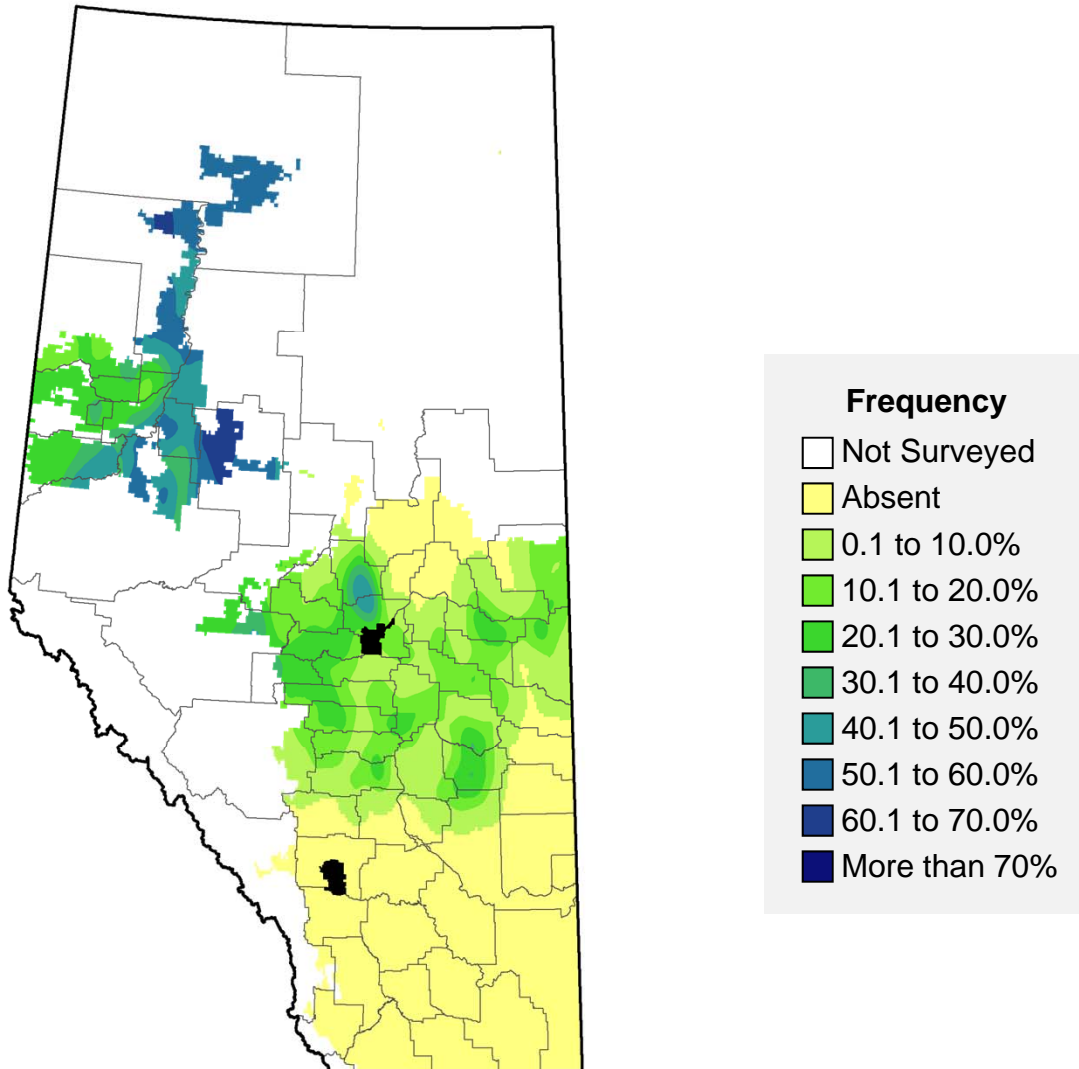
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	75	0.3	0.1	25.0	< 0.1	1.4	1.4	0.1
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	46	0.7	0.4	57.9	< 0.1	2.6	3.2	0.7
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Field bindweed, *Convolvulus arvensis*



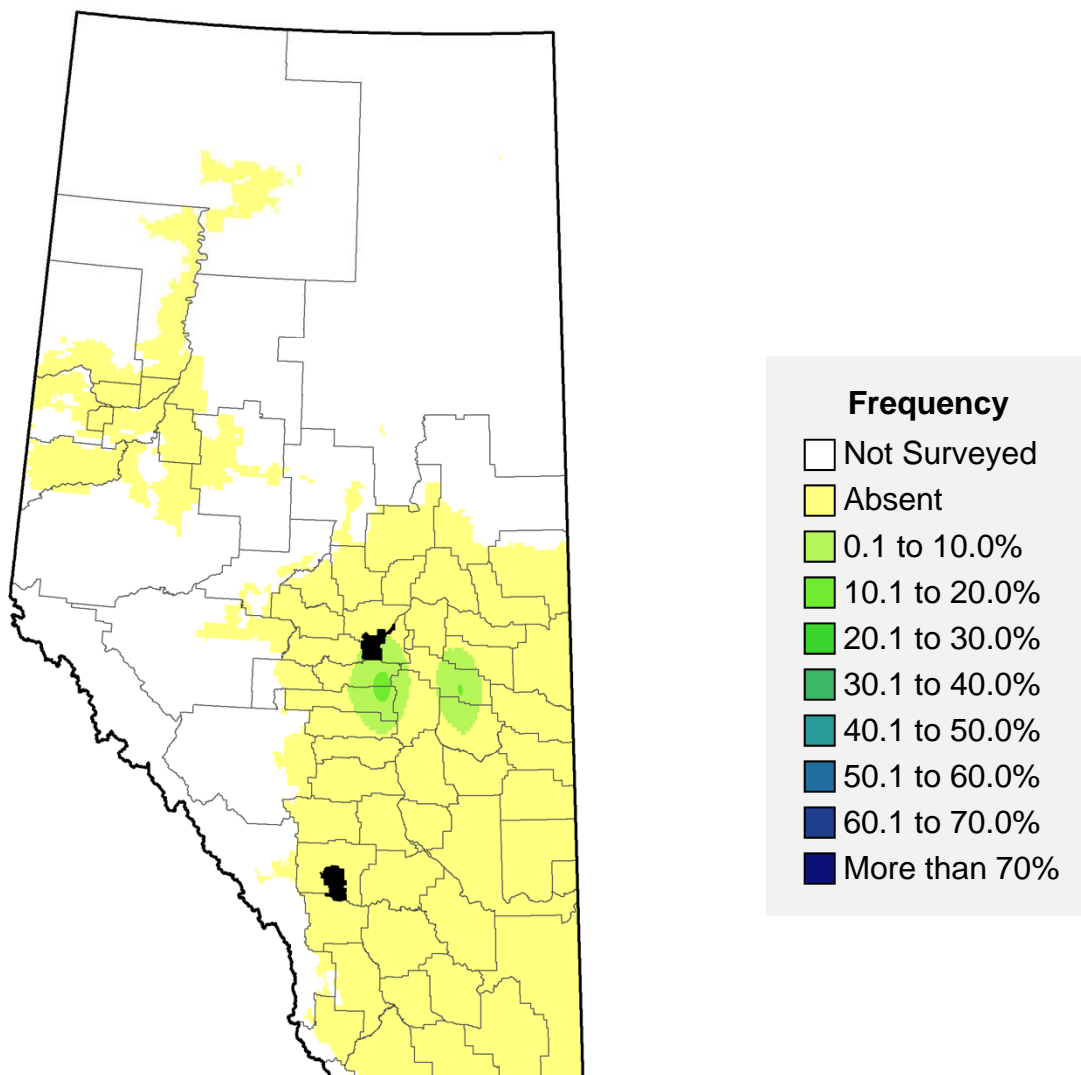
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	36	1.3	0.4	32.4	< 0.1	2.7	5.0	0.9
Barley	46	2.0	0.2	10.9	< 0.1	0.4	0.6	0.7
Durum	20	3.6	0.5	15.0	< 0.1	1.2	1.2	2.2
Oat	27	3.2	2.4	75.0	0.2	7.6	7.6	2.4
Canola	41	1.8	0.3	19.0	< 0.1	1.0	4.6	1.0
Field pea	30	1.5	1.5	100.0	0.1	9.0	9.0	1.8
Perennials	-	-	-	-	-	-	-	-

Field horsetail, *Equisetum arvense*



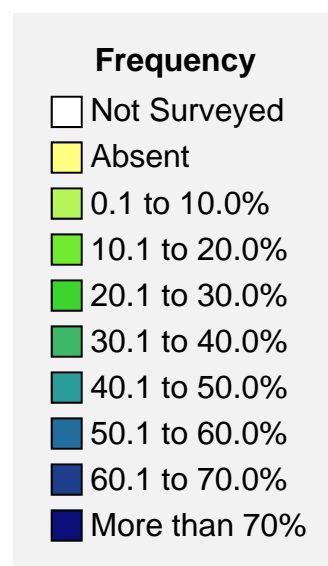
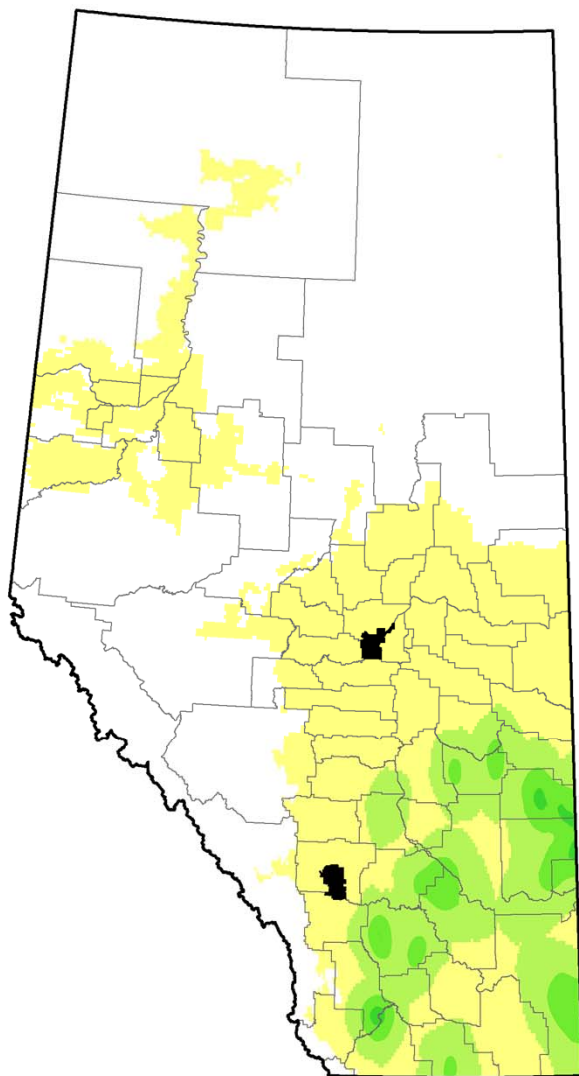
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	16	7.9	1.6	19.9	0.5	6.3	50.4	5.8
Barley	27	6.0	0.5	8.4	0.1	1.6	7.4	2.3
Durum	-	-	-	-	-	-	-	-
Oat	17	12.8	2.7	20.7	0.8	6.1	25.6	5.3
Canola	8	18.6	3.7	19.8	0.6	3.3	42.6	13.7
Field pea	4	11.5	7.0	60.3	3.6	30.8	50.2	18.1
Perennials	18	7.1	1.6	22.7	0.2	2.6	5.6	3.8

Field mint, *Mentha arvensis*



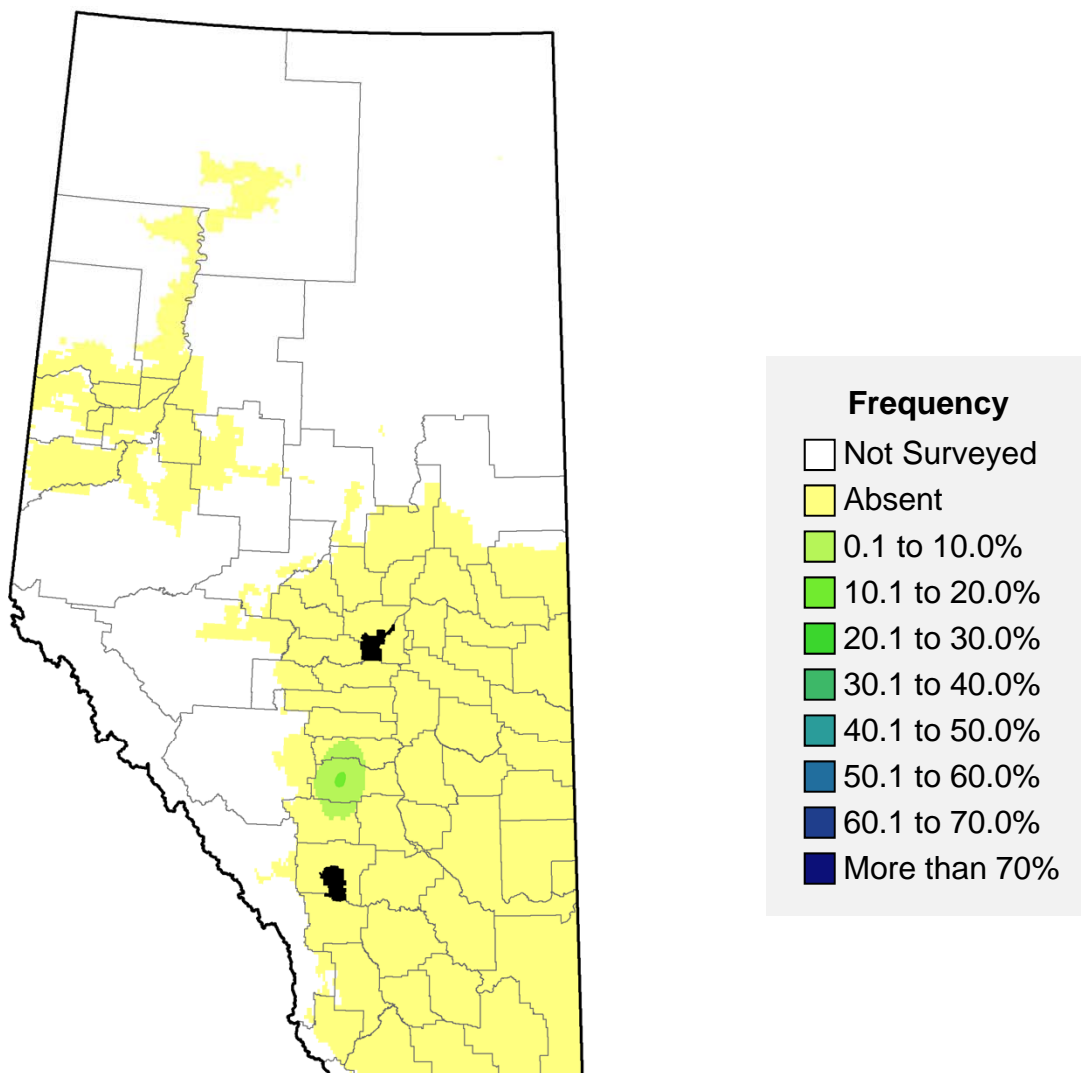
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	53	0.3	0.1	35.0	< 0.1	16.2	16.2	0.4
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	70	0.3	< 0.1	5.0	< 0.1	1.0	1.0	0.1
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Field peas, *Pisum arvense*



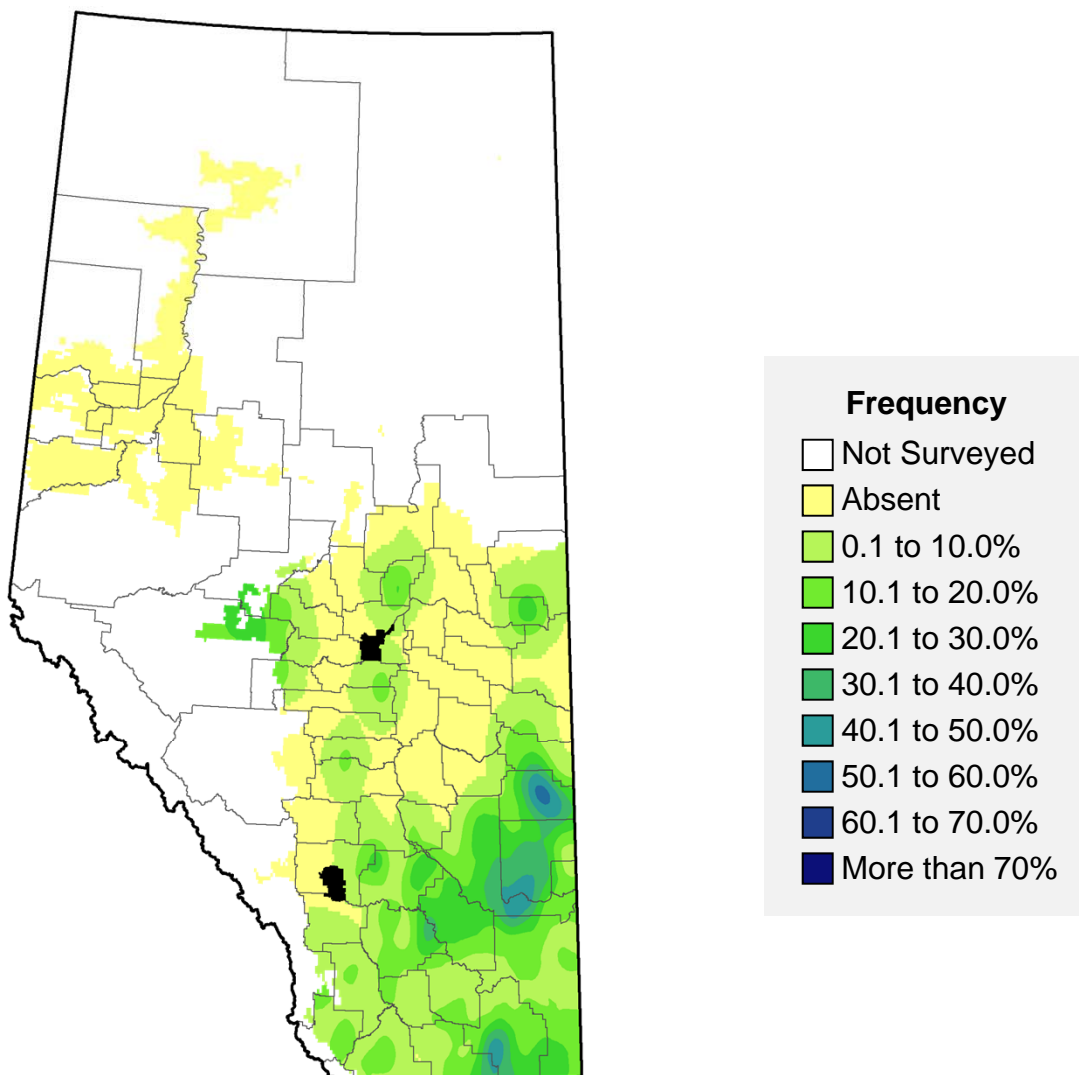
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	30	3.3	0.6	17.7	< 0.1	1.0	3.6	1.5
Barley	56	0.7	0.1	13.8	< 0.1	0.7	1.4	0.3
Durum	9	8.7	2.7	31.7	0.2	2.4	6.2	8.2
Oat	-	-	-	-	-	-	-	-
Canola	53	0.6	0.1	19.7	< 0.1	1.0	1.6	0.3
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Flax, *Linum usitatissimum*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	61	0.4	0.1	20.0	< 0.1	3.6	3.6
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

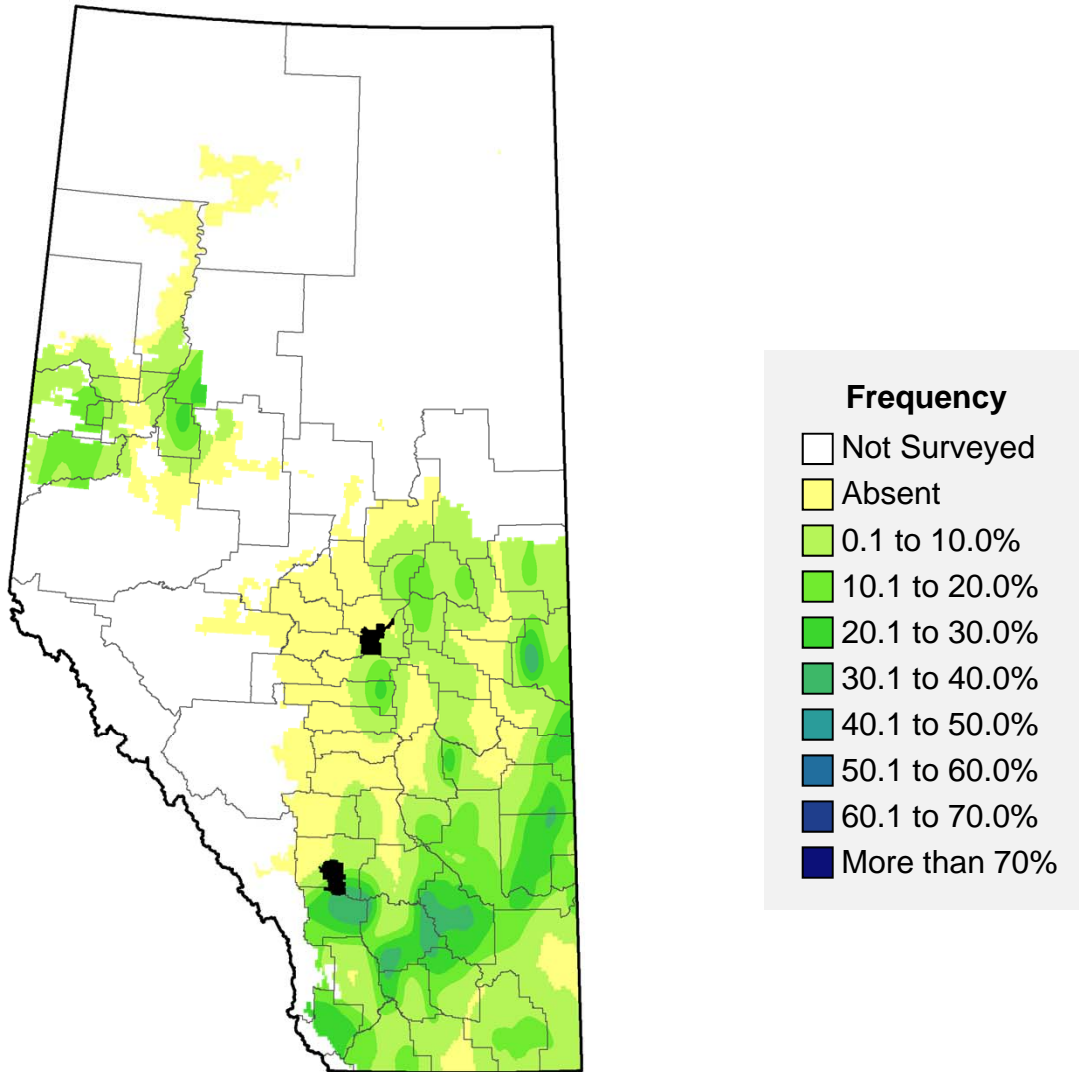
Flixweed, *Descurainia sophia**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	28	5.0	0.6	12.0	< 0.1	0.8	3.2	2.0
Barley	40	2.6	0.3	11.4	< 0.1	0.6	1.2	1.0
Durum	7	22.8	3.8	16.6	0.3	1.4	7.0	14.6
Oat	19	15.4	2.1	13.7	0.1	0.8	2.6	4.2
Canola	24	6.1	0.6	10.3	< 0.1	0.6	2.8	2.5
Field pea	28	6.7	0.7	11.0	< 0.1	0.5	1.2	1.8
Perennials	40	1.5	0.1	5.0	< 0.1	0.8	0.8	0.5

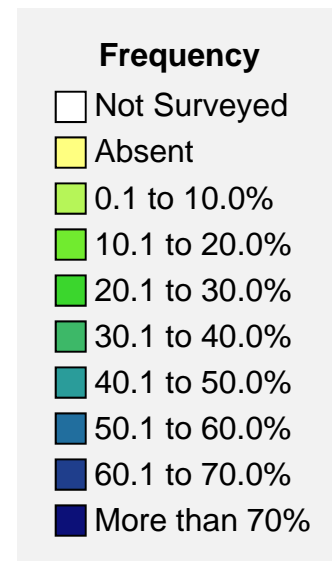
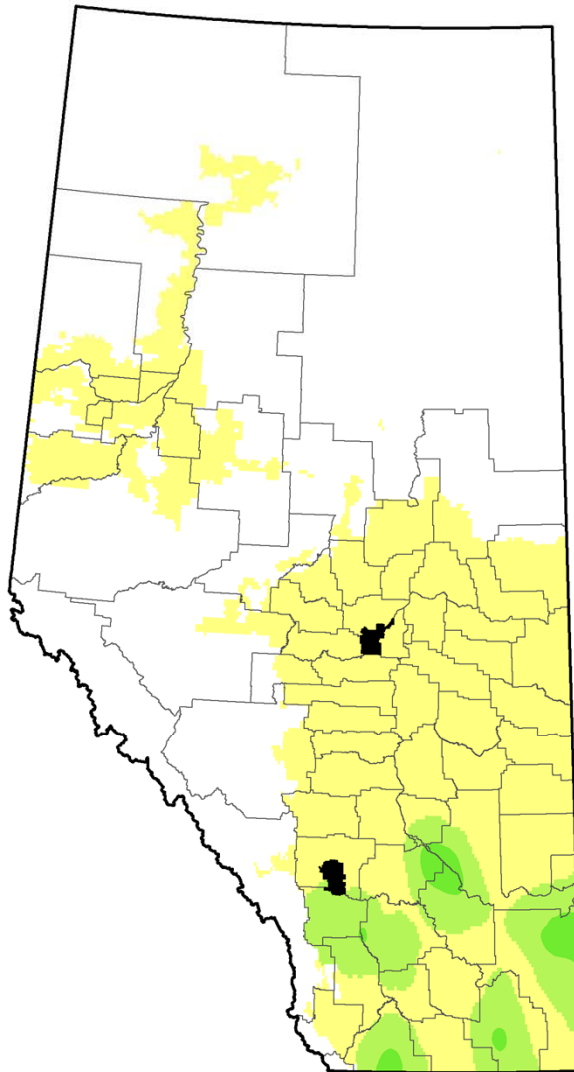
*Includes grey tansy mustard (*D. incana*) and green tansy mustard (*D. pinnata*)

Foxtail barley, *Hordeum jubatum*



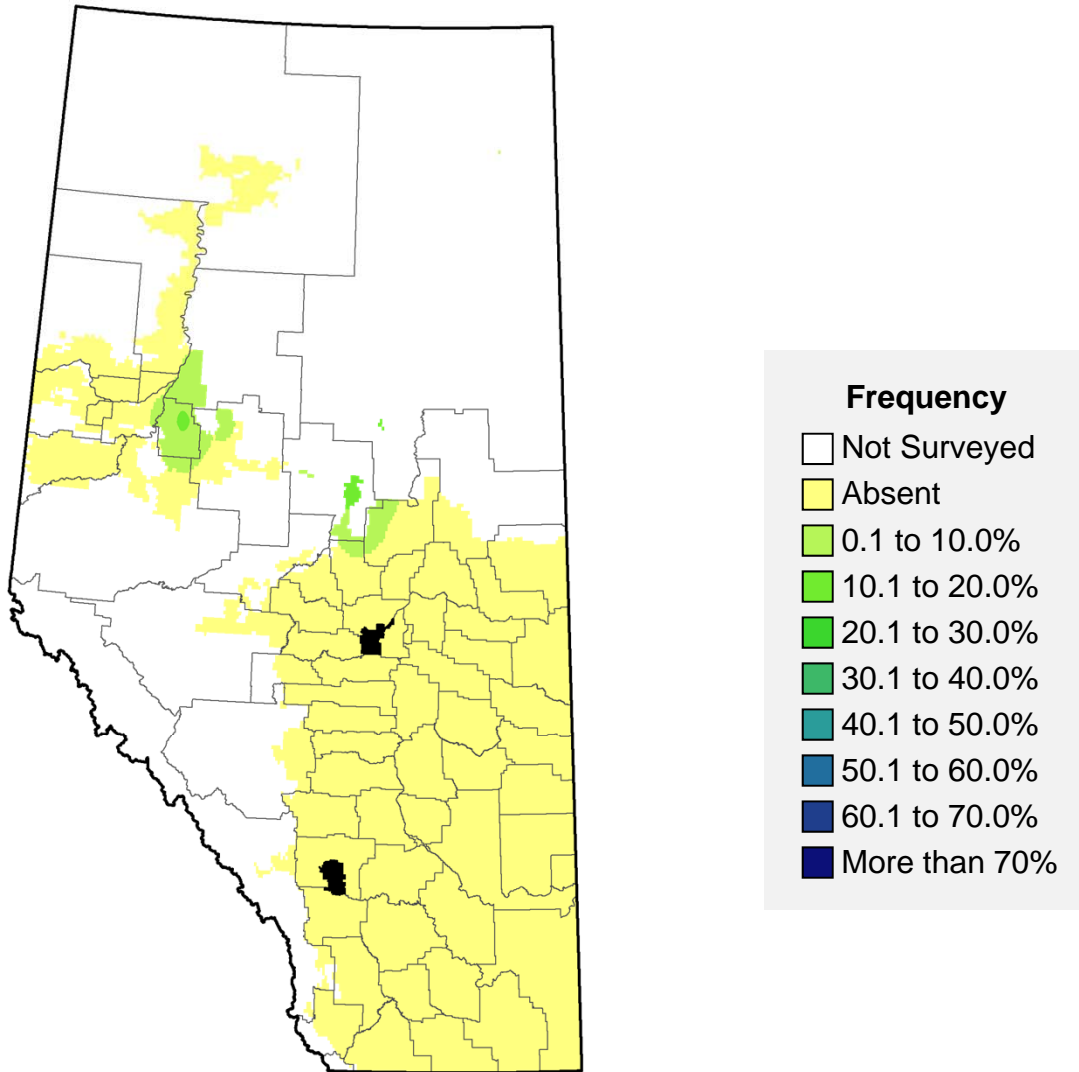
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	22	6.1	1.4	22.2	0.2	2.7	13.4	3.7
Barley	24	7.2	0.9	12.7	0.2	2.3	10.4	3.3
Durum	12	15.6	1.0	6.2	0.1	0.6	1.8	6.5
Oat	22	13.6	1.5	10.8	0.1	0.9	1.4	3.6
Canola	34	2.6	0.4	15.1	< 0.1	1.7	4.8	1.4
Field pea	35	3.8	0.4	10.8	< 0.1	1.0	1.4	1.1
Perennials	20	10.3	0.7	6.5	0.1	0.6	0.8	3.4

Goat's-beard, *Tragopogon dubius*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	-	-	-	-	-	-	-	
Barley	80	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Durum	23	5.1	0.3	6.4	< 0.1	0.5	0.6	2.1
Oat	-	-	-	-	-	-	-	-
Canola	75	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Field pea	33	3.7	0.7	18.9	< 0.1	0.8	1.4	1.2
Perennials	13	13.9	0.7	5.0	< 0.1	0.2	0.2	4.3

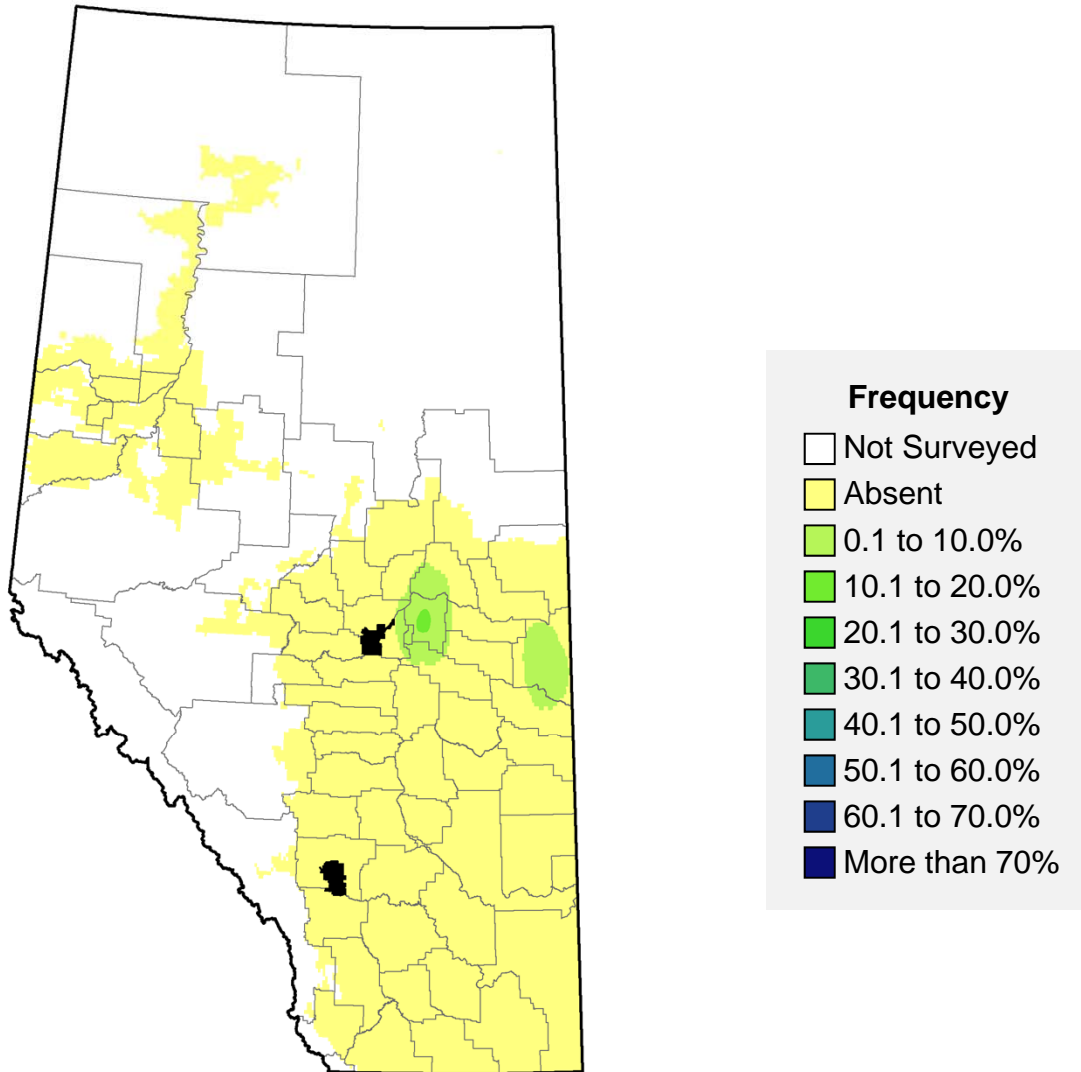
Golden corydalis, *Corydalis aurea**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	71	0.4	< 0.1	5.0	< 0.1	0.2	0.2
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

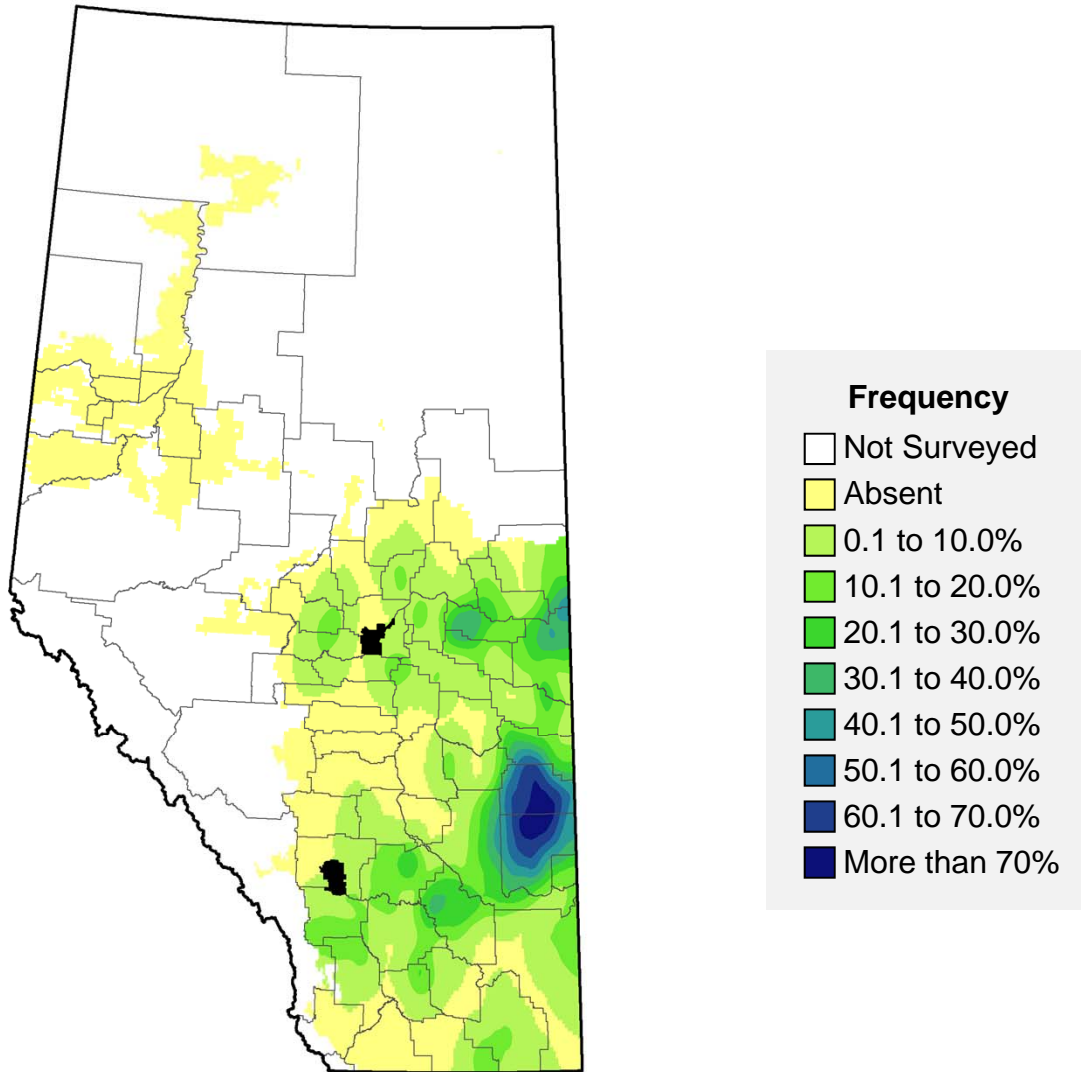
*May include other corydalis species

Goldenrod species, *Solidago spp.*



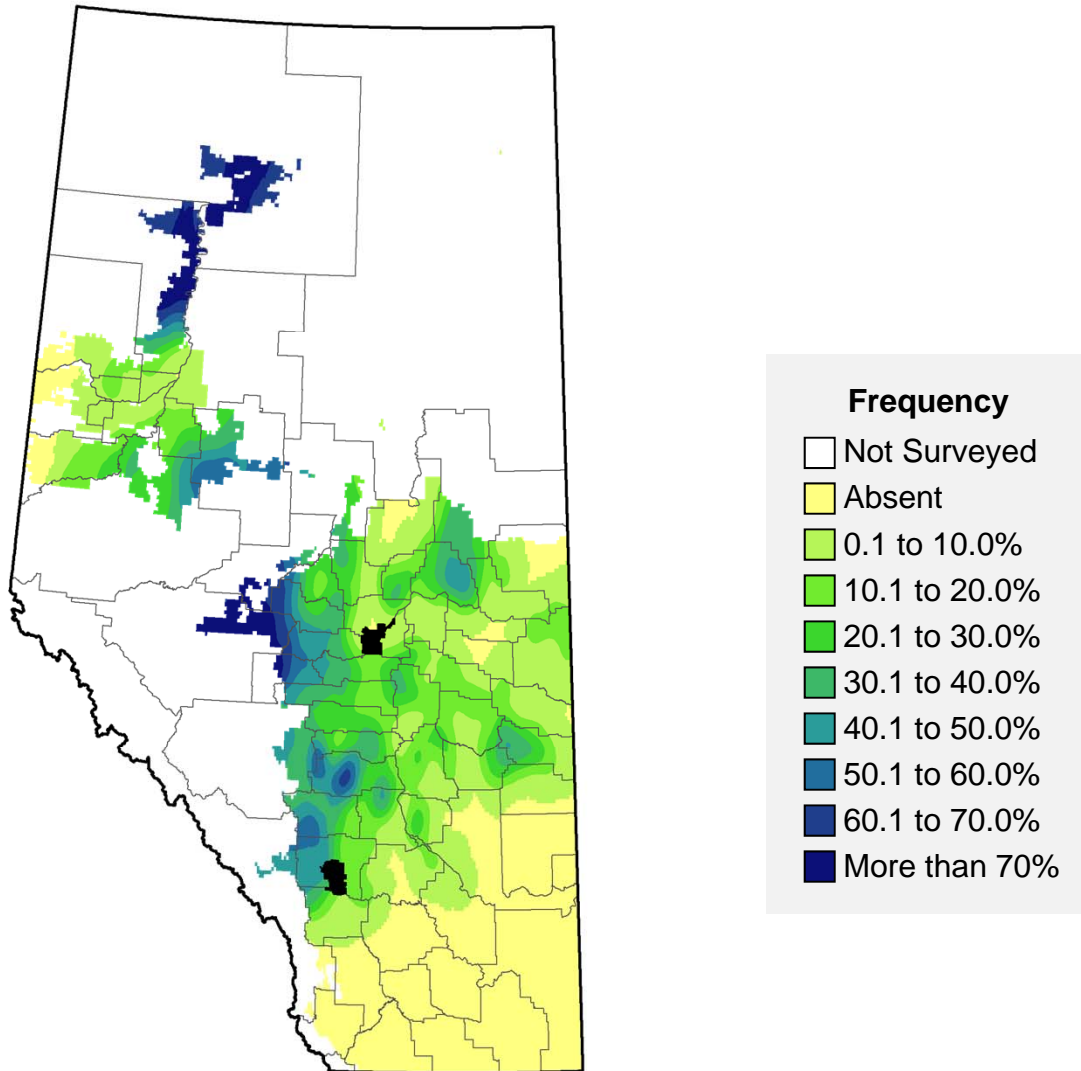
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-
Oat	51	2.2	0.1	5.0	< 0.1	0.2	0.5
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	30	3.5	0.5	15.0	0.1	1.8	1.5

Green foxtail, *Setaria viridis*



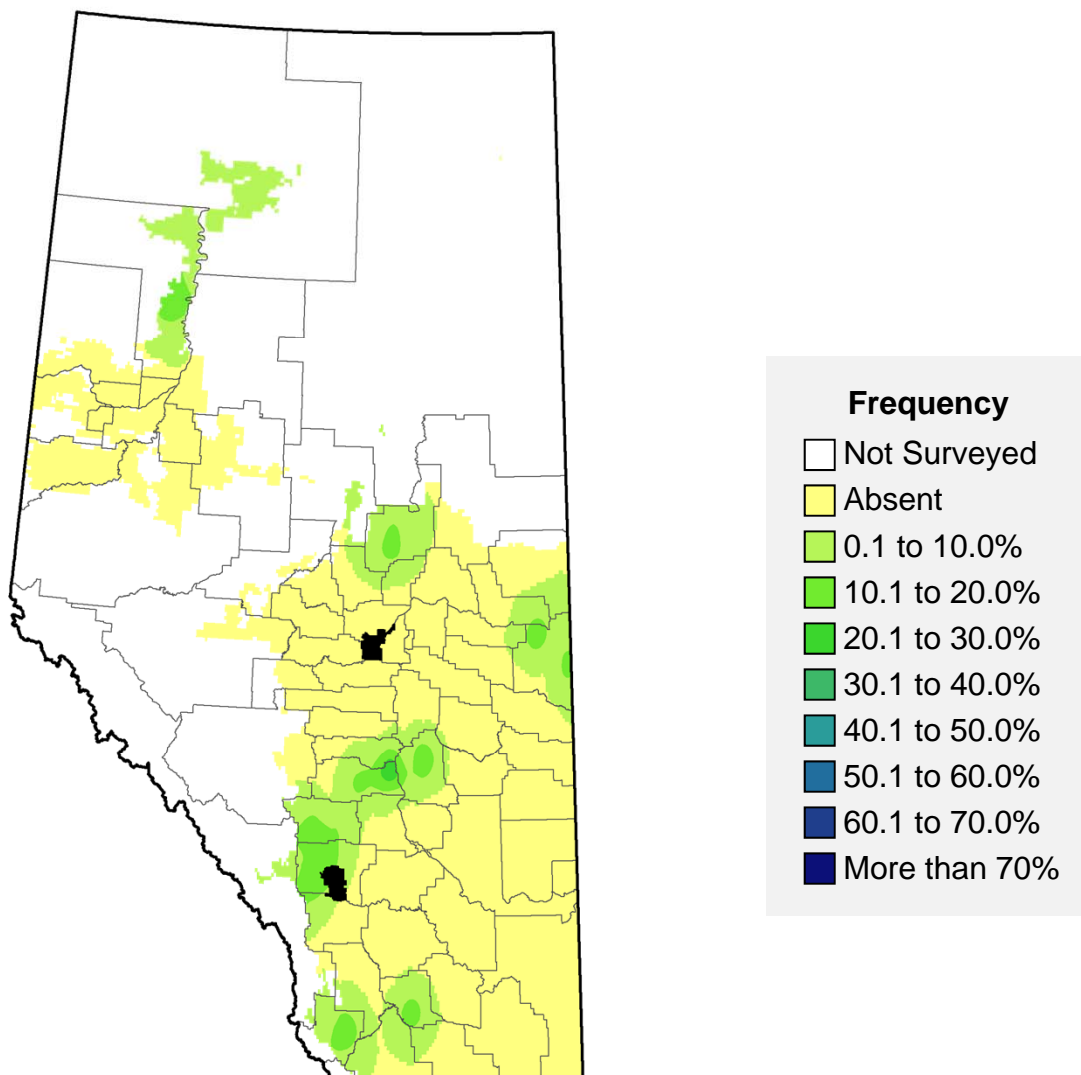
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	10	8.8	2.2	25.5	0.9	10.7	186.0	8.8
Barley	15	9.4	2.6	27.6	0.6	6.1	90.0	7.1
Durum	16	6.8	0.8	11.6	< 0.1	0.7	1.4	3.4
Oat	9	10.2	8.6	84.8	2.7	26.1	40.4	11.7
Canola	26	3.3	0.5	16.9	0.1	1.7	6.0	1.9
Field pea	51	1.0	0.1	10.0	< 0.1	0.4	0.4	0.3
Perennials	36	1.5	0.3	20.0	< 0.1	2.4	2.4	0.8

Hemp-nettle, *Galeopsis tetrahit*



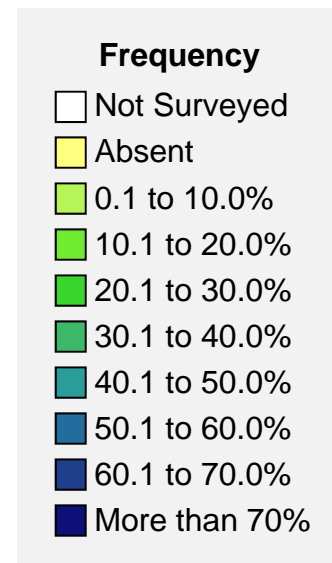
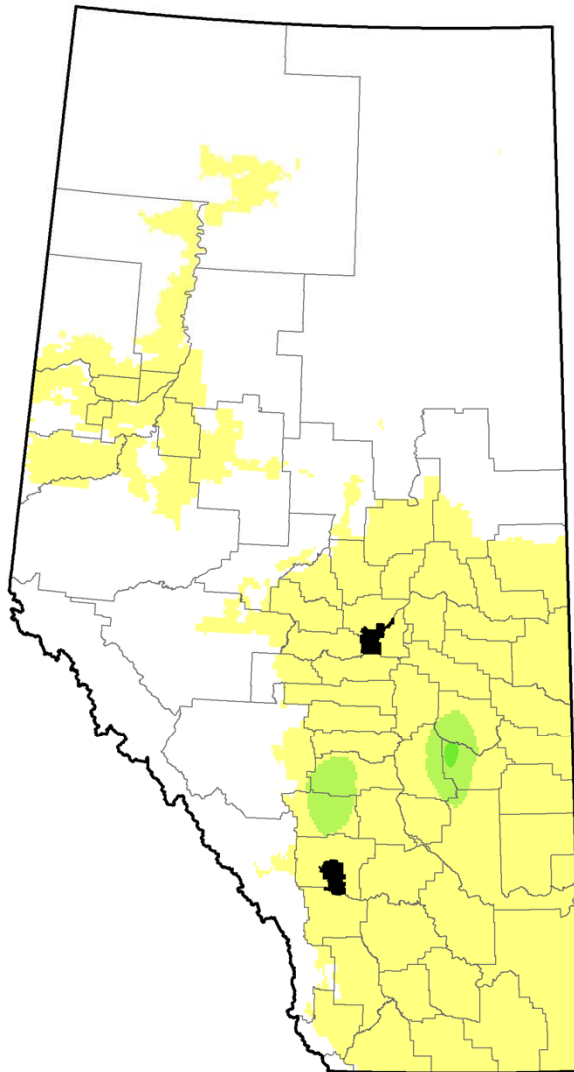
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	14	11.6	2.2	19.3	0.3	2.9	38.0	6.7
Barley	7	17.6	4.3	24.2	0.9	4.8	45.6	11.8
Durum	-	-	-	-	-	-	-	-
Oat	2	33.2	13.0	39.1	7.1	21.3	184.8	26.3
Canola	18	10.5	1.3	12.7	0.1	1.0	4.0	5.0
Field pea	20	14.1	1.3	9.3	0.1	0.9	2.4	3.8
Perennials	17	8.5	1.3	15.5	0.2	1.9	3.6	3.8

Henbit, *Lamium amplexicaule*



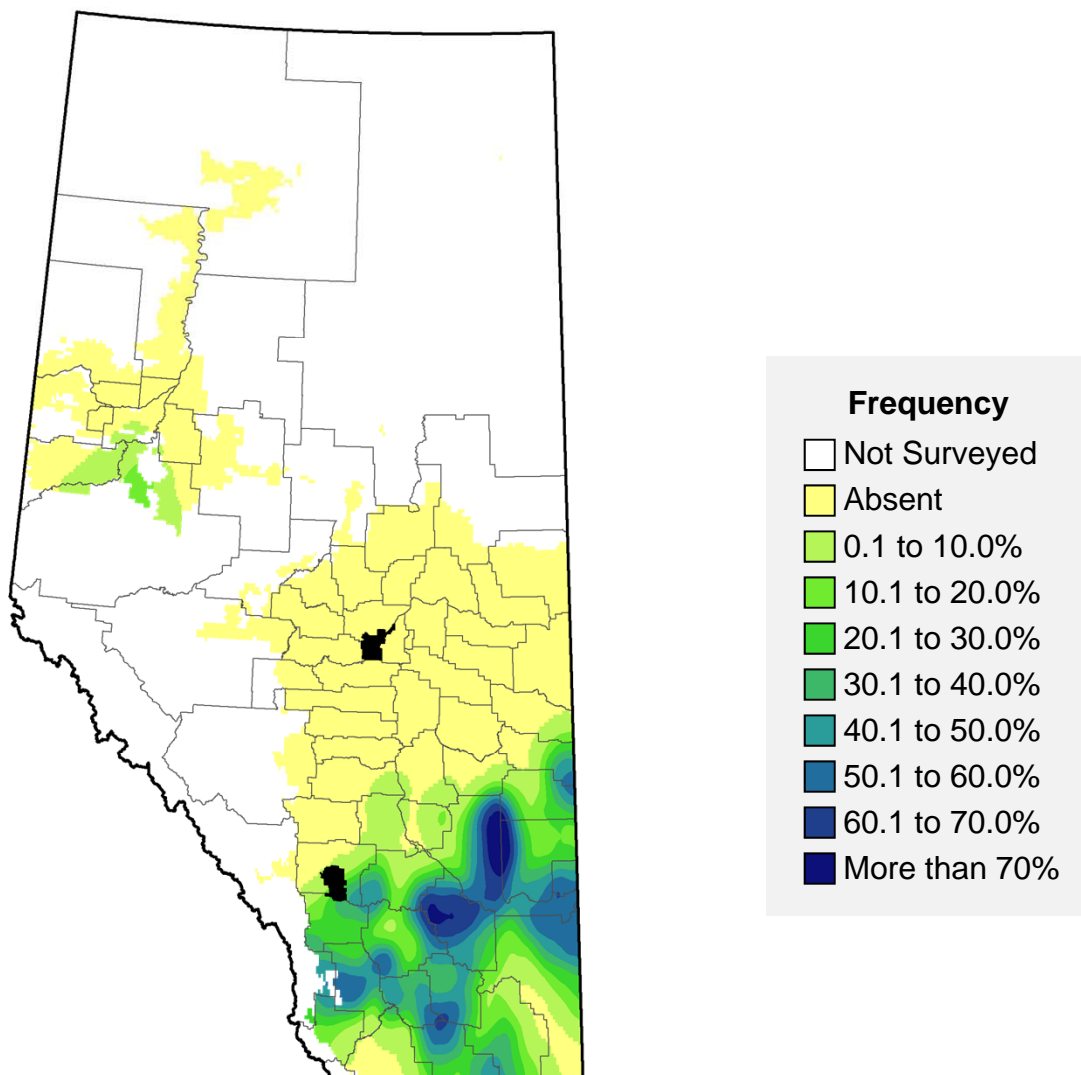
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	56	0.8	0.1	13.4	< 0.1	0.9	2.2	0.4
Barley	28	2.7	0.4	14.0	0.2	7.6	43.4	1.8
Durum	28	1.4	0.1	5.0	< 0.1	0.2	0.2	0.5
Oat	45	3.1	0.2	5.0	< 0.1	0.2	0.2	0.7
Canola	27	0.9	0.4	39.7	0.2	17.6	47.0	1.9
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Kentucky blue grass, *Poa pratensis*



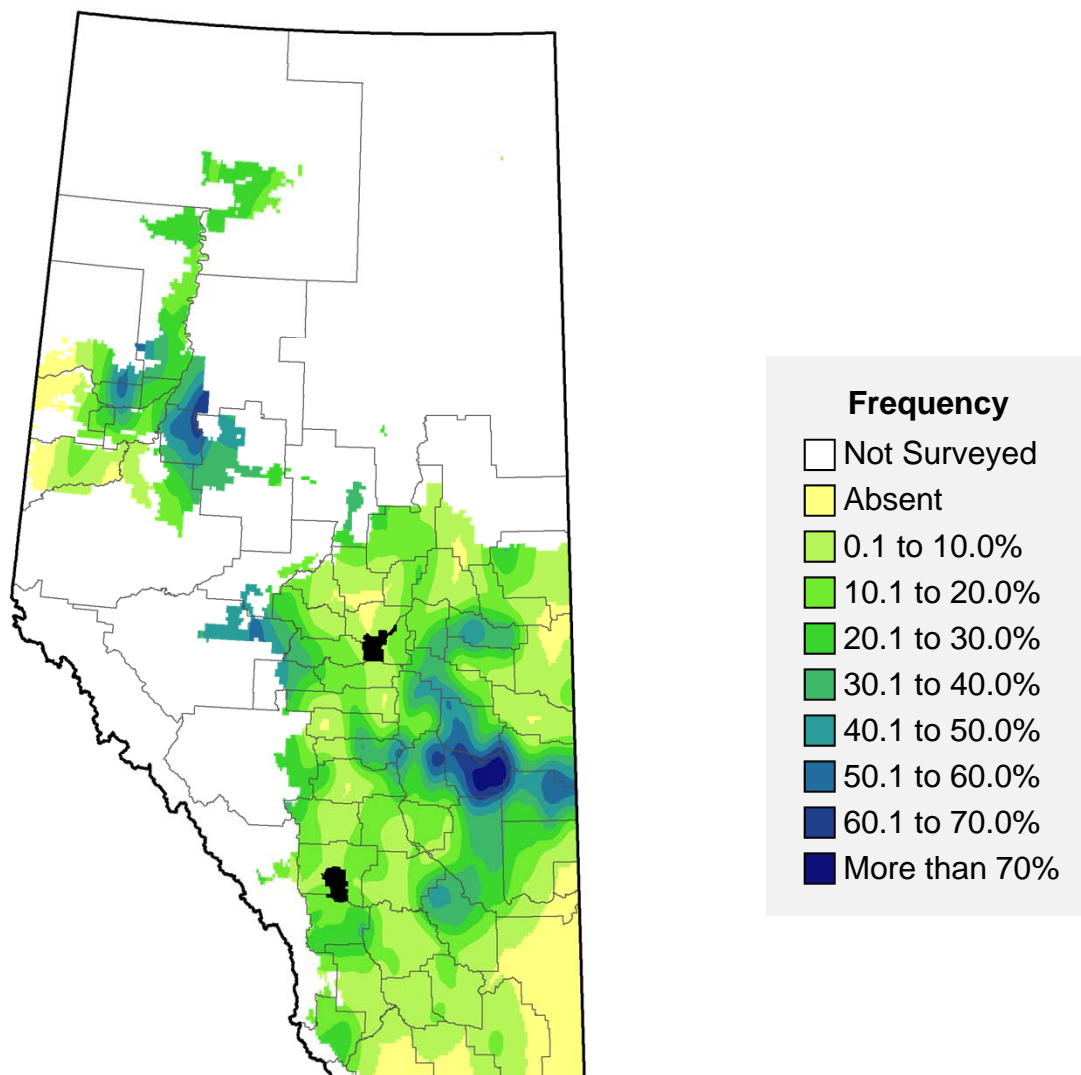
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	High	
Spring wheat	-	-	-	-	-	-	-
Barley	69	0.4	< 0.1	5.0	< 0.1	2.6	2.6
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	44	0.2	0.1	25.0	0.1	32.8	32.8
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

Kochia, *Kochia scoparia*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	19	11.0	1.5	13.4	0.1	1.1	9.6	4.8
Barley	14	12.9	2.9	22.2	0.5	3.6	25.6	7.7
Durum	3	30.9	8.1	26.1	2.1	6.8	52.8	39.1
Oat	49	2.3	0.1	5.0	< 0.1	0.2	0.2	0.5
Canola	21	4.2	0.7	16.7	0.2	5.0	62.2	3.5
Field pea	17	9.0	3.1	34.5	0.4	4.7	23.4	5.2
Perennials	-	-	-	-	-	-	-	-

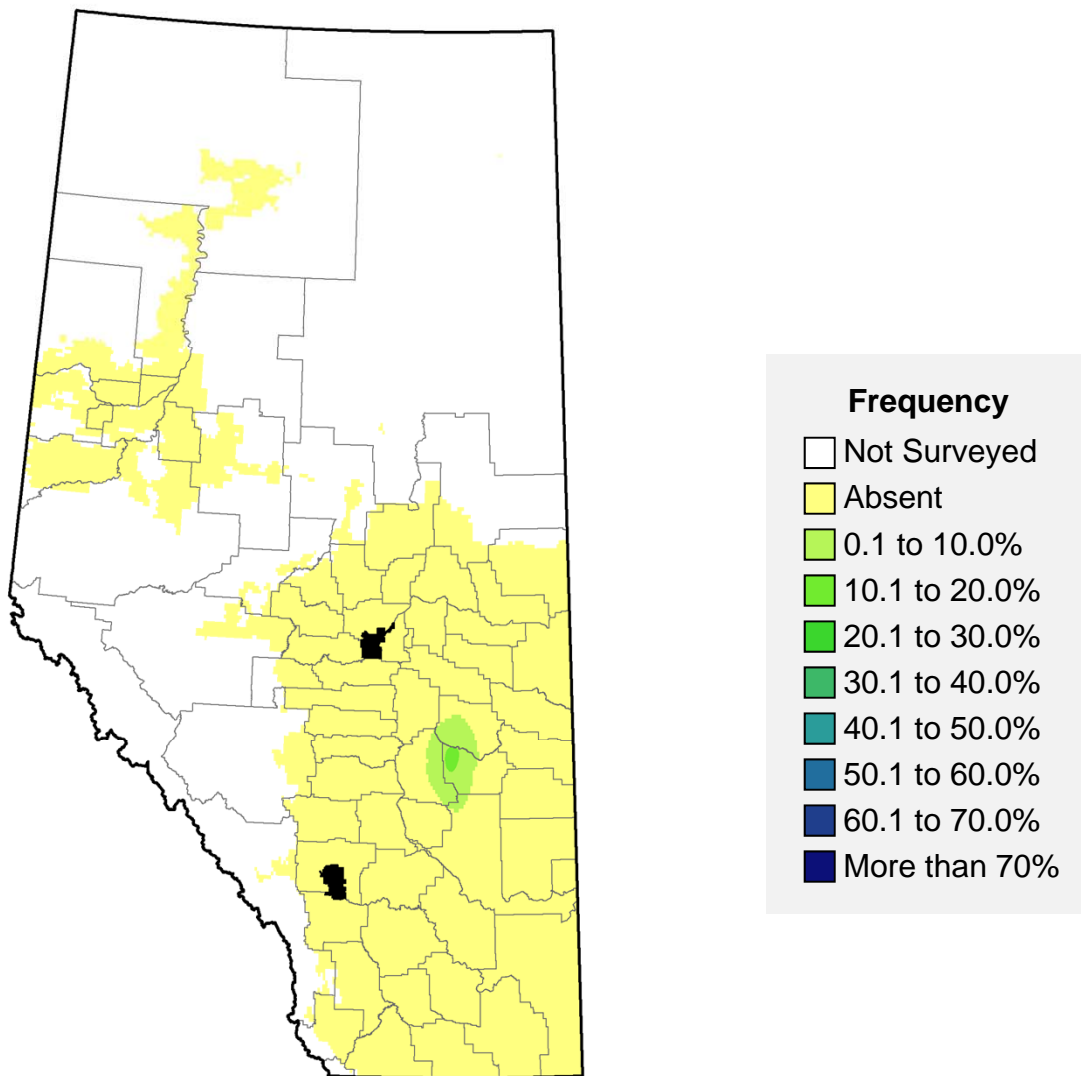
Lamb's-quarters, *Chenopodium album**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	15	12.2	1.8	14.7	0.3	2.2	38.4	6.1
Barley	11	11.4	2.7	23.3	1.3	11.1	328.8	10.5
Durum	-	-	-	-	-	-	-	-
Oat	4	31.7	11.7	36.9	5.0	15.8	67.2	21.6
Canola	4	26.1	4.6	17.7	0.6	2.2	22.8	16.3
Field pea	14	27.2	4.1	15.1	0.3	1.1	4.4	8.6
Perennials	12	9.9	1.6	16.0	0.2	1.8	2.6	4.5

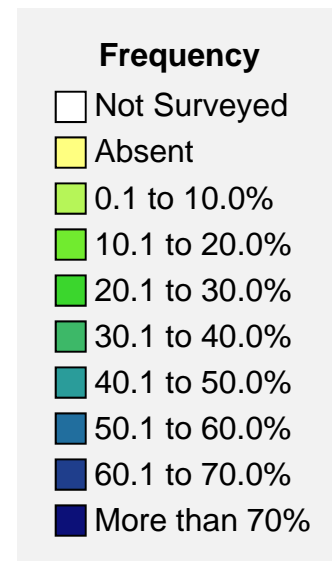
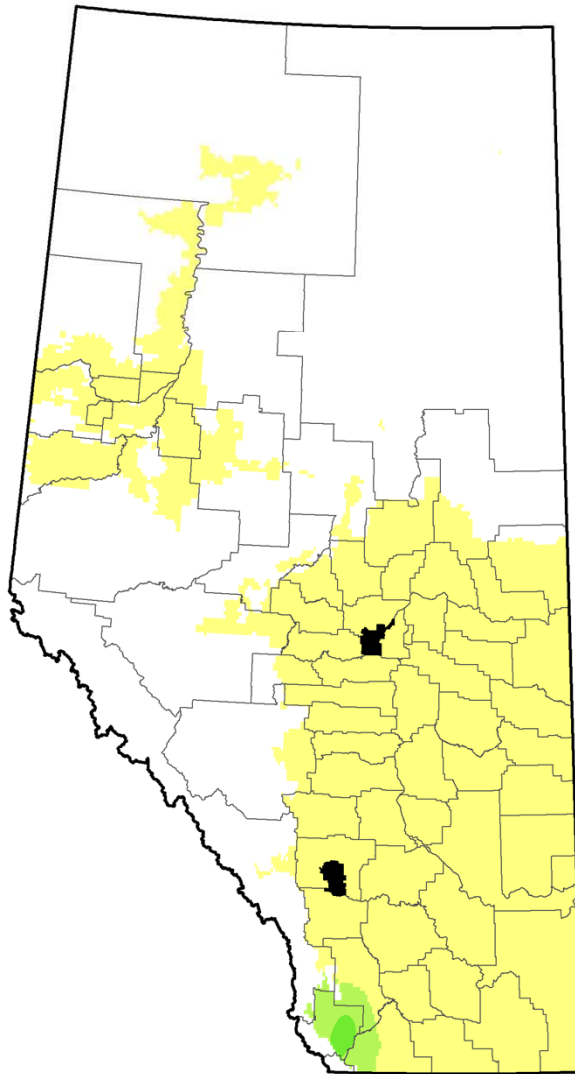
*Includes net-seeded lamb's-quarters (*C. berlandier*)

Linear-leaved plantain, *Plantago elongata*



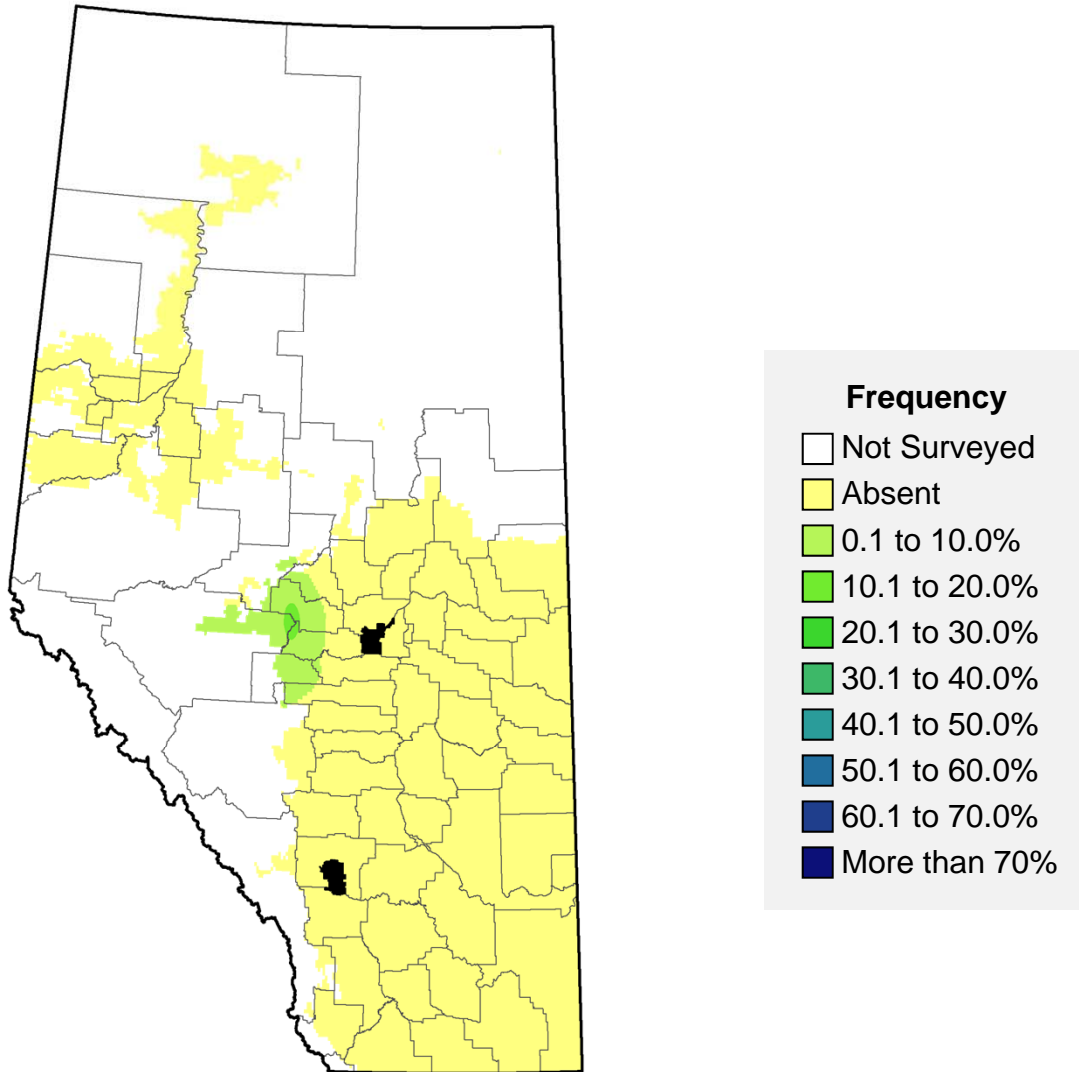
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	-	-	-	-	-	-	-	
Barley	-	-	-	-	-	-	-	
Durum	-	-	-	-	-	-	-	
Oat	-	-	-	-	-	-	-	
Canola	69	0.2	< 0.1	15.0	< 0.1	1.2	1.2	0.1
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Low larkspur, *Delphinium bicolor*



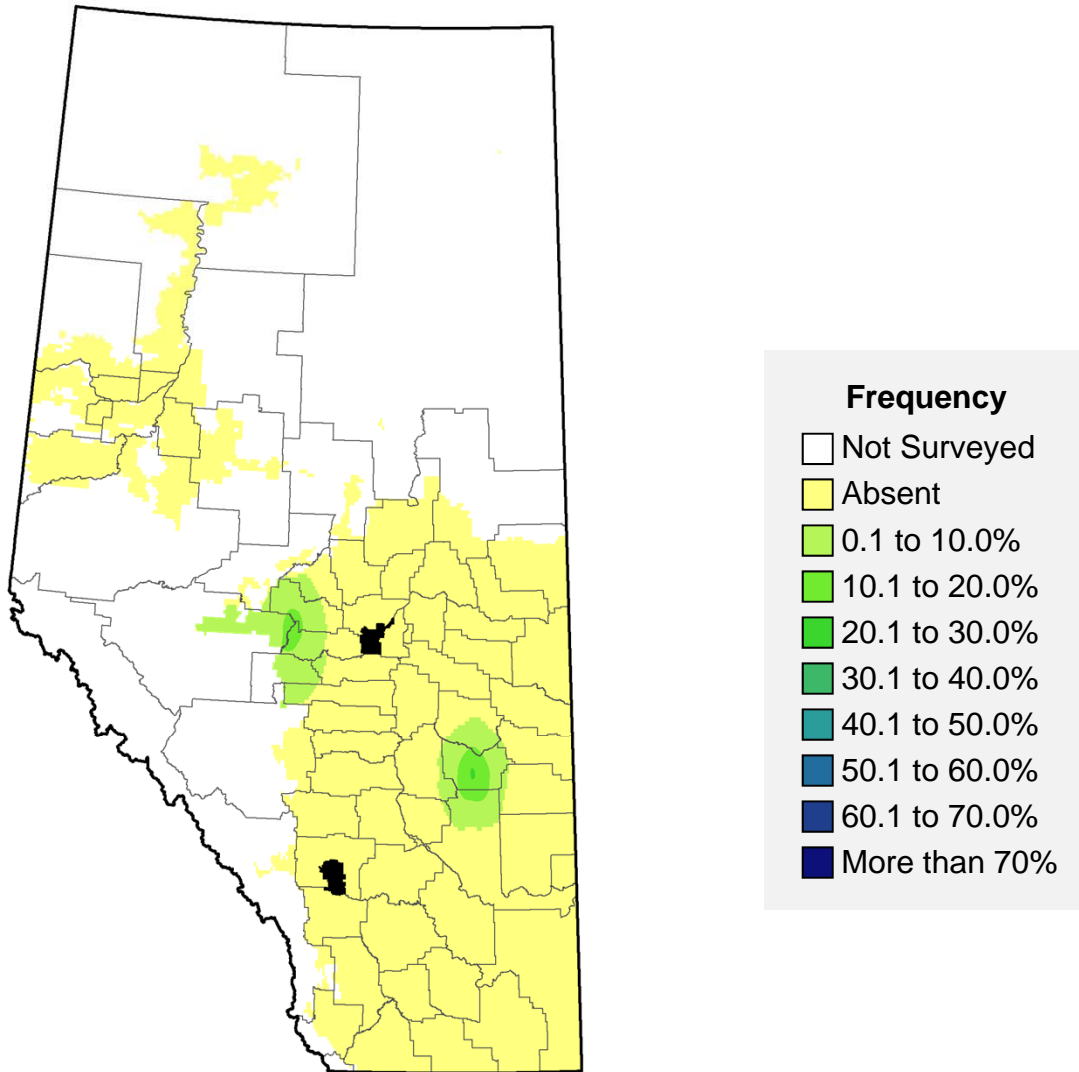
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	84	0.2	< 0.1	5.0	< 0.1	0.2	0.1
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

Marsh hedge-nettle, *Stachys palustris*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	34	3.0	0.2	5.0	< 0.1	0.2	0.9

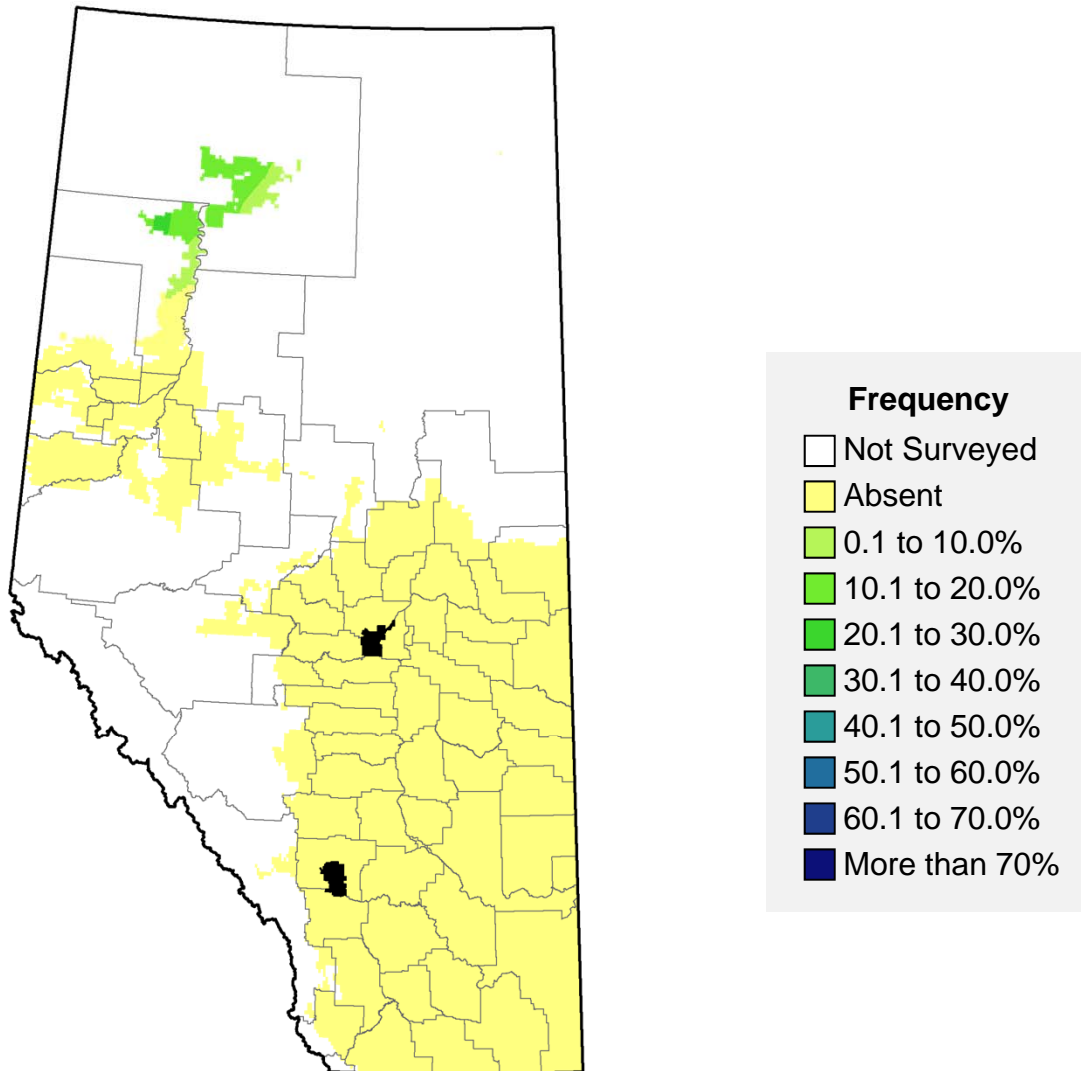
Marsh yellow cress, *Rorippa palustris*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	68	0.4	0.1	20.0	< 0.1	1.7	2.4	0.2
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	52	1.9	0.1	5.0	< 0.1	0.2	0.2	0.4
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

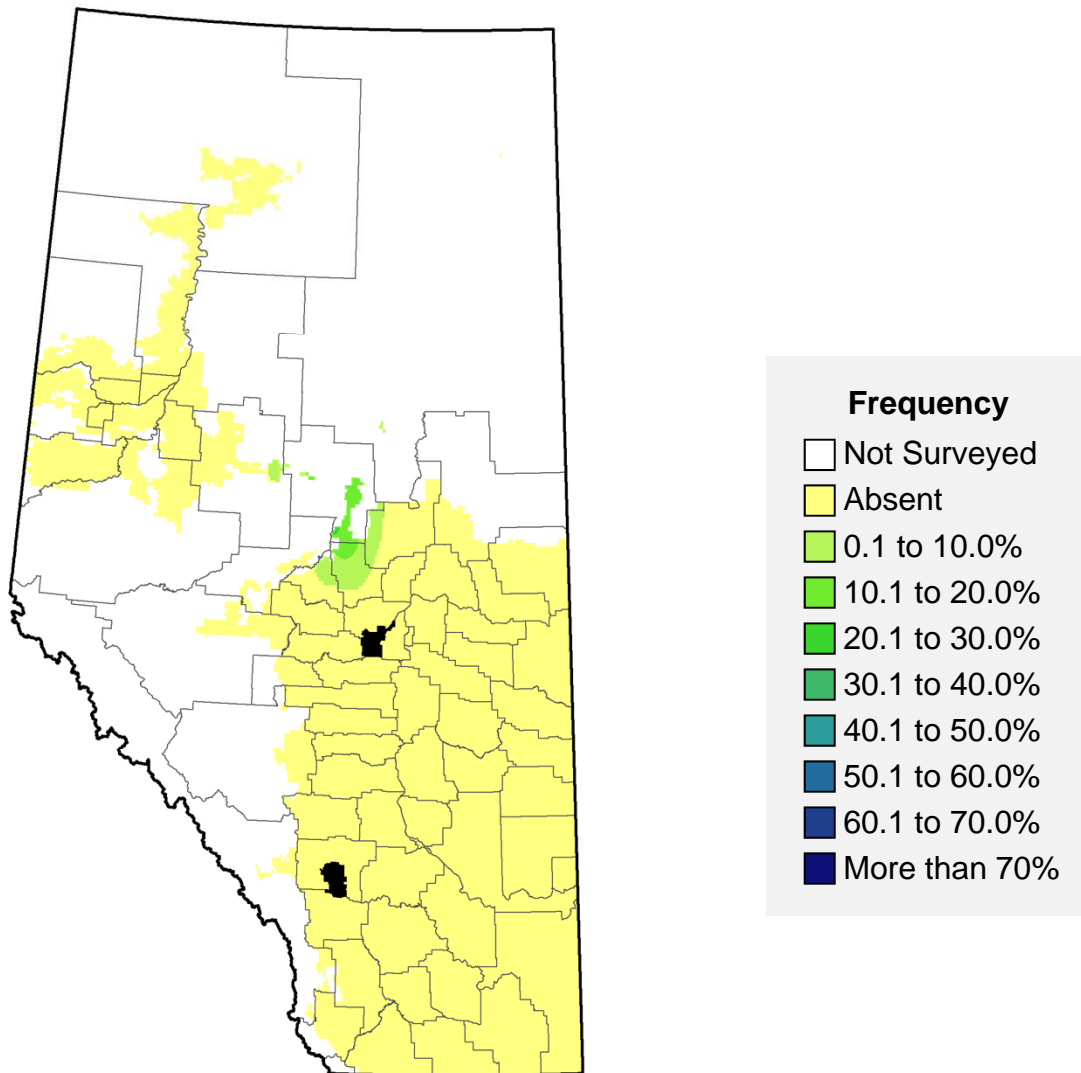
*May include other yellow cress species

Meadow brome, *Bromus riparius*



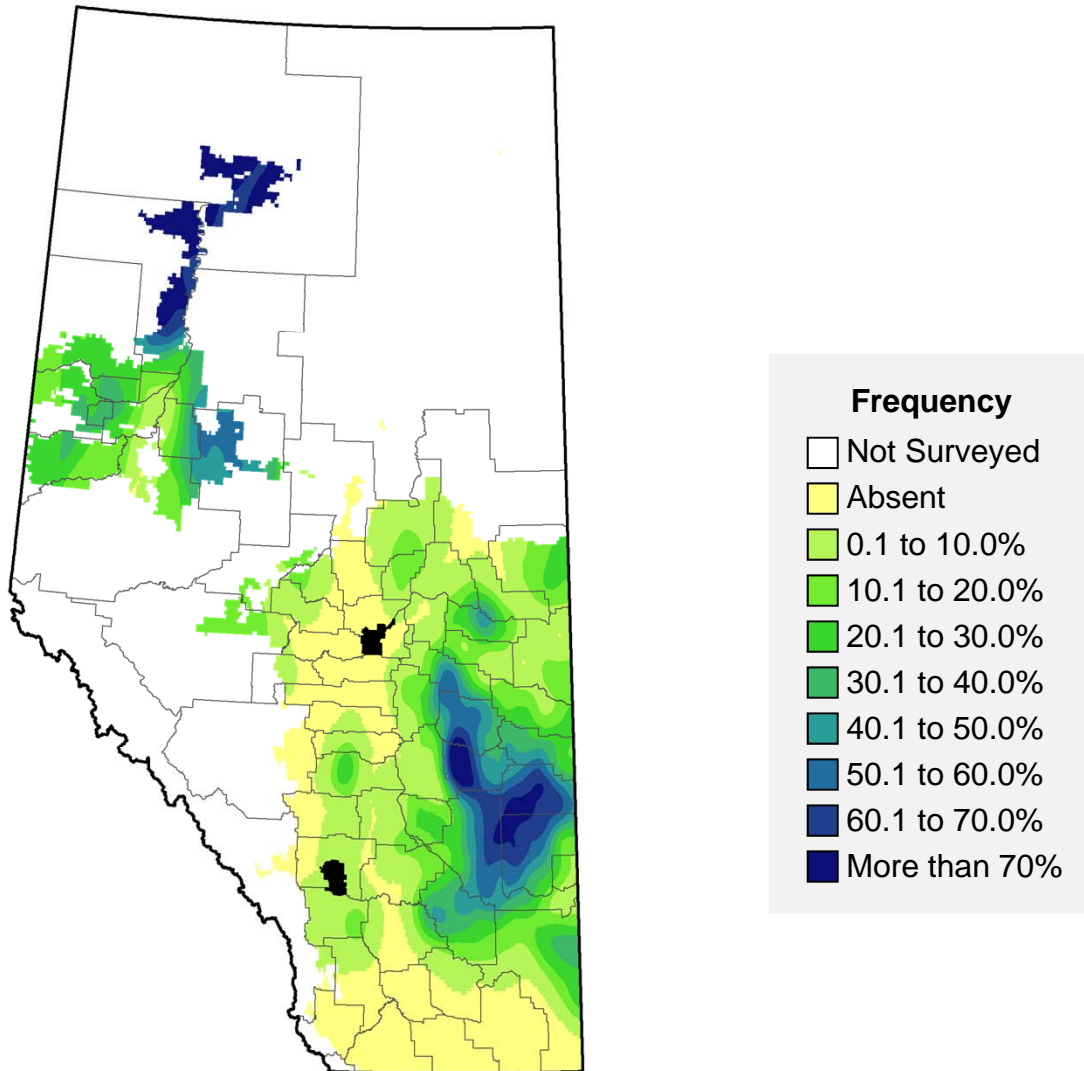
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	High	
Spring wheat	-	-	-	-	-	-	-
Barley	26	2.1	1.4	65.0	0.2	8.4	8.4
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

Mouse-eared chickweed, *Cerastium fontanum*



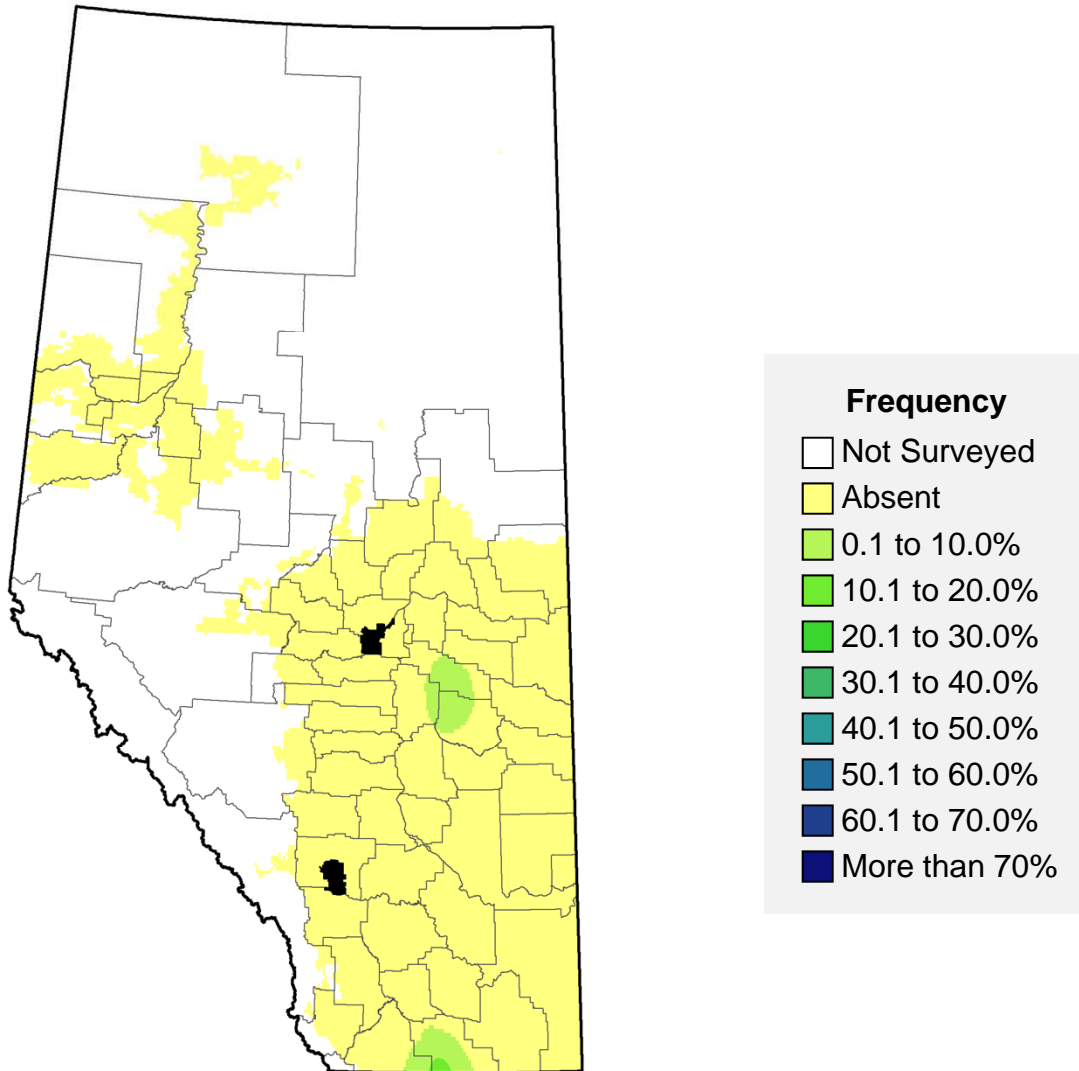
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-
Oat	59	1.4	0.1	5.0	< 0.1	0.2	0.3
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

Narrow-leaved hawk's-beard, *Crepis tectorum*



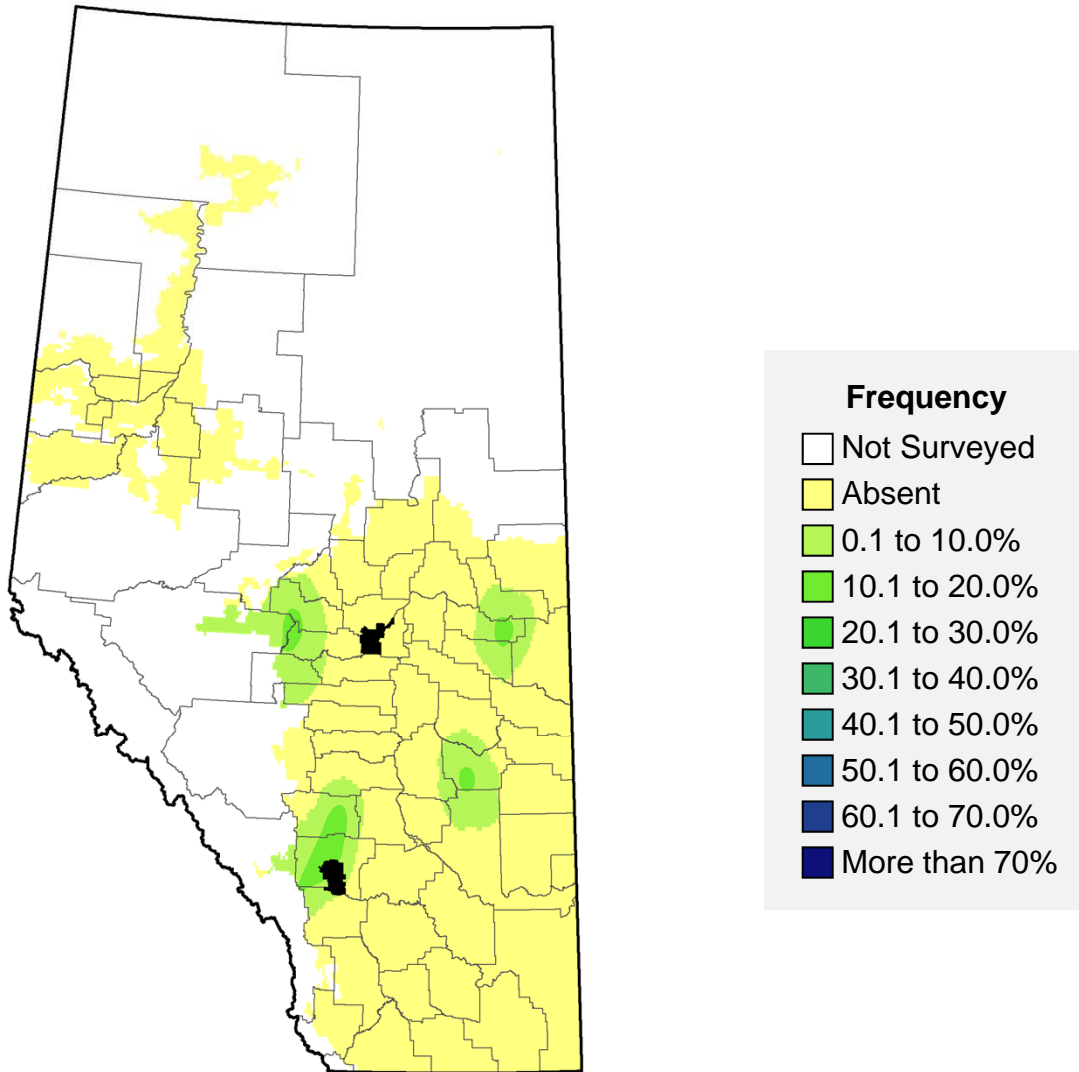
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	12	13.1	2.5	19.3	0.4	3.4	148.2	7.8
Barley	10	12.2	4.3	35.4	1.0	8.3	31.2	11.2
Durum	11	10.5	1.7	16.3	0.2	1.6	4.8	6.9
Oat	12	17.8	6.3	35.2	1.5	8.2	22.4	9.5
Canola	11	14.2	3.3	23.0	0.5	3.3	24.4	11.0
Field pea	11	33.1	5.8	17.6	0.5	1.5	5.8	11.5
Perennials	9	12.1	2.6	21.5	0.2	1.3	2.2	5.8

Narrow-leaved milk-vetch, *Astragalus pectinatus*



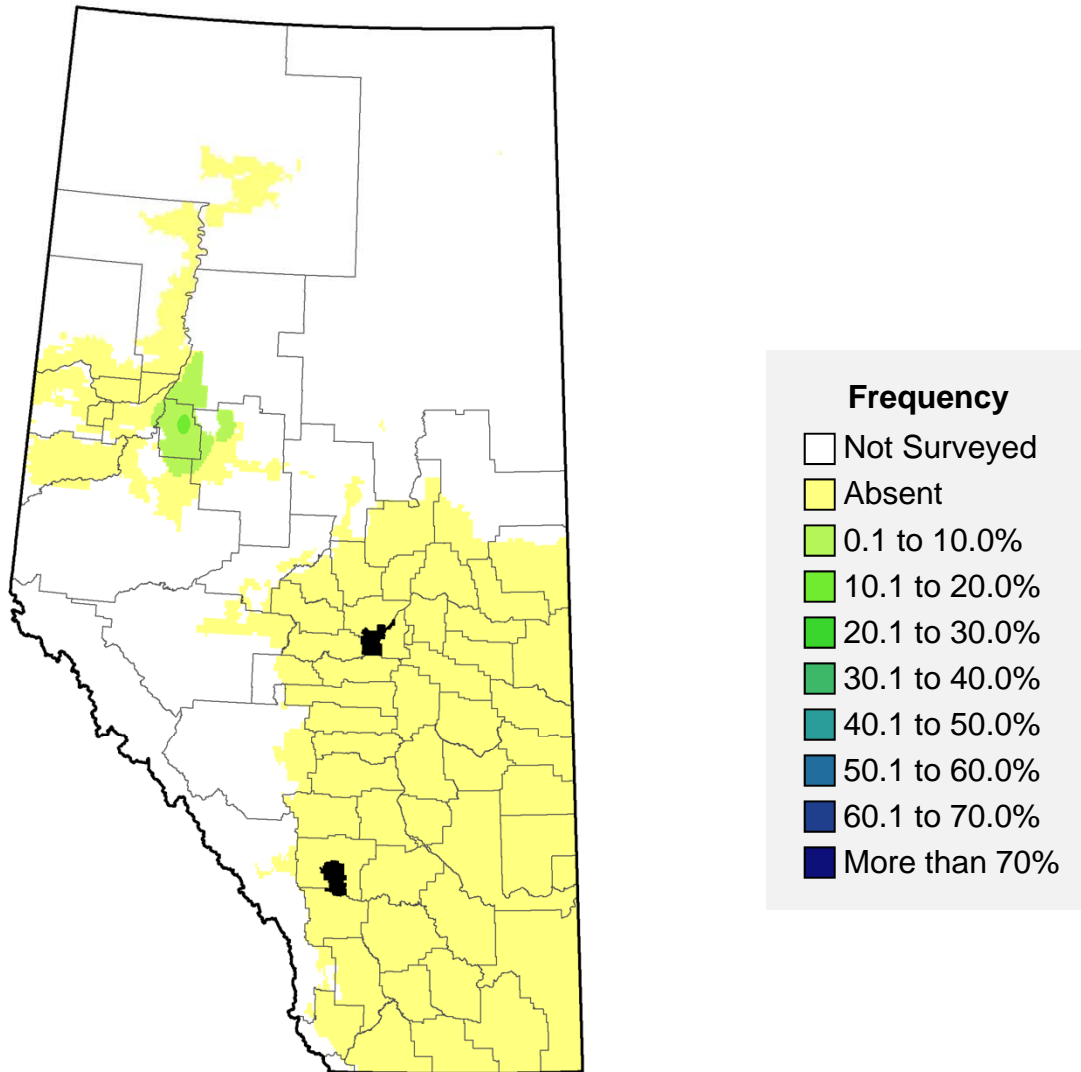
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-
Oat	34	2.2	1.1	50.0	0.3	11.6	11.6
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	46	0.7	0.1	10.0	< 0.1	0.6	0.6

Night-flowering catchfly, *Silene noctiflora*



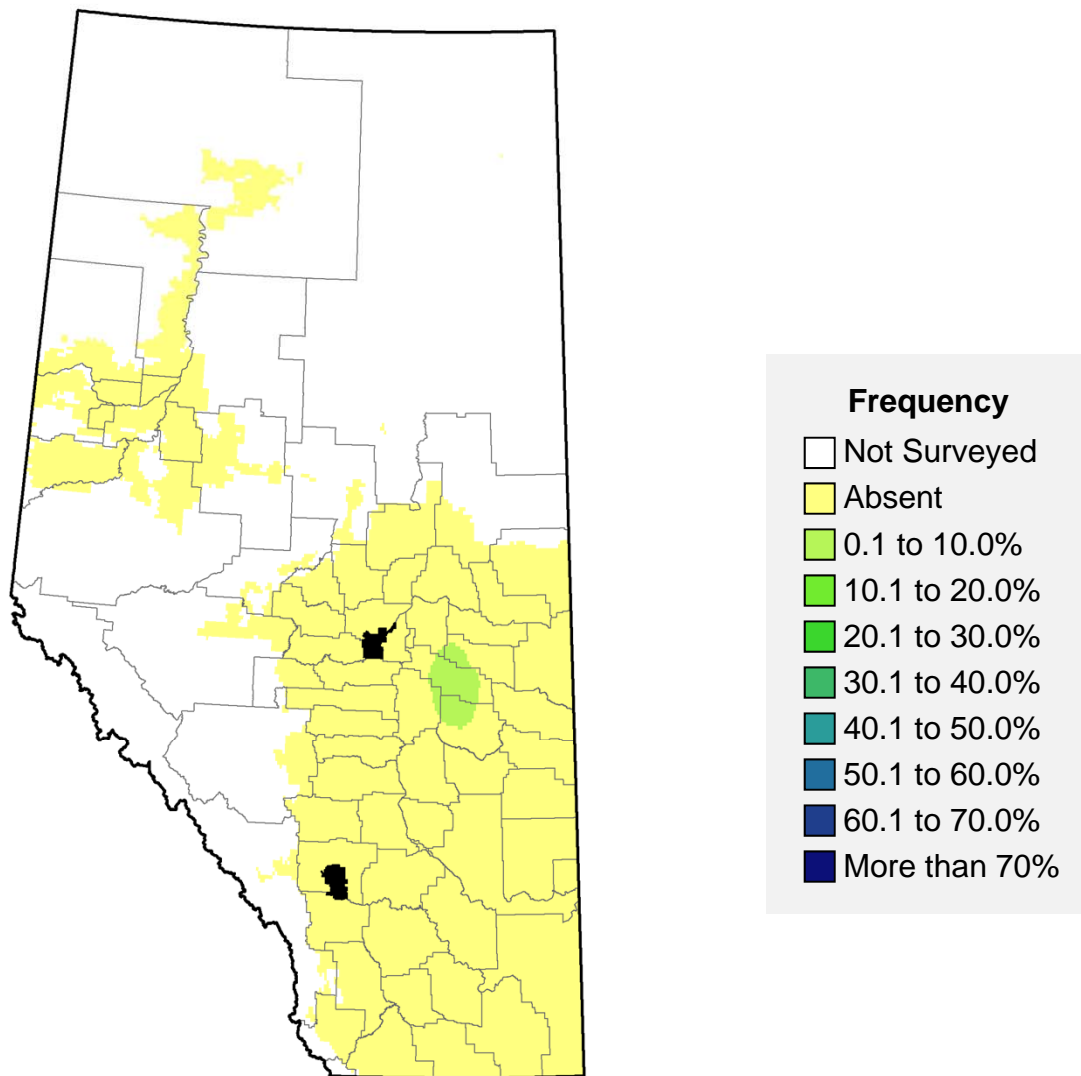
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	55	0.5	0.1	26.4	< 0.1	5.3	8.6	0.4
Barley	60	0.8	0.1	7.5	< 0.1	0.6	1.0	0.3
Durum	-	-	-	-	-	-	-	-
Oat	50	1.9	0.2	10.0	< 0.1	0.4	0.4	0.5
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Northern bedstraw, *Galium boreale*



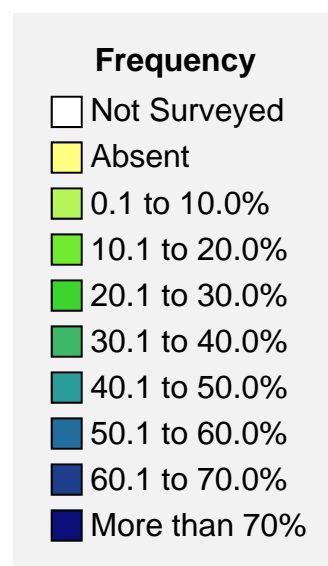
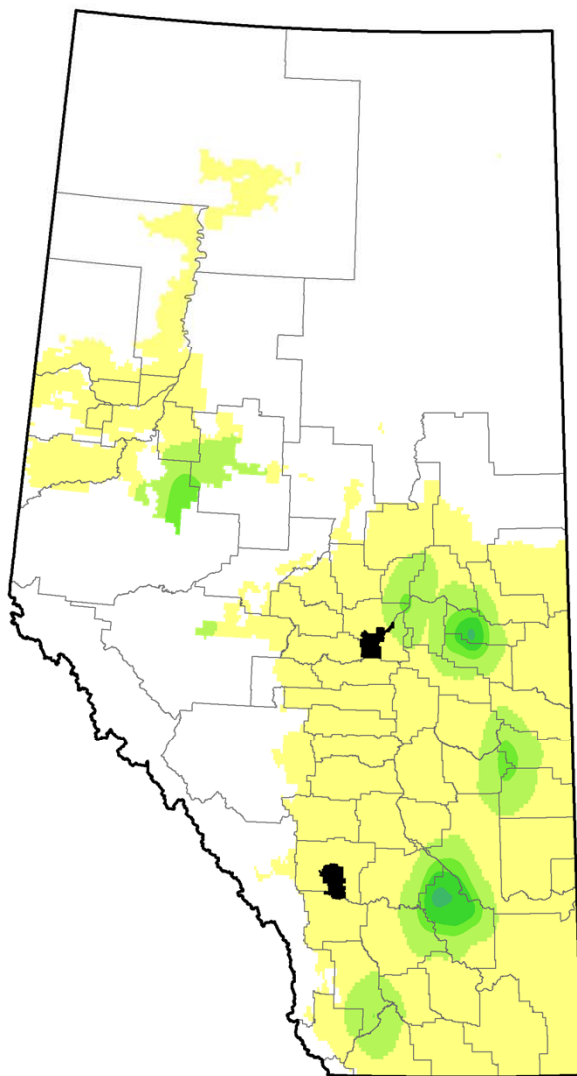
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	81	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Nuttall's alkali grass, *Puccinellia nuttalliana*



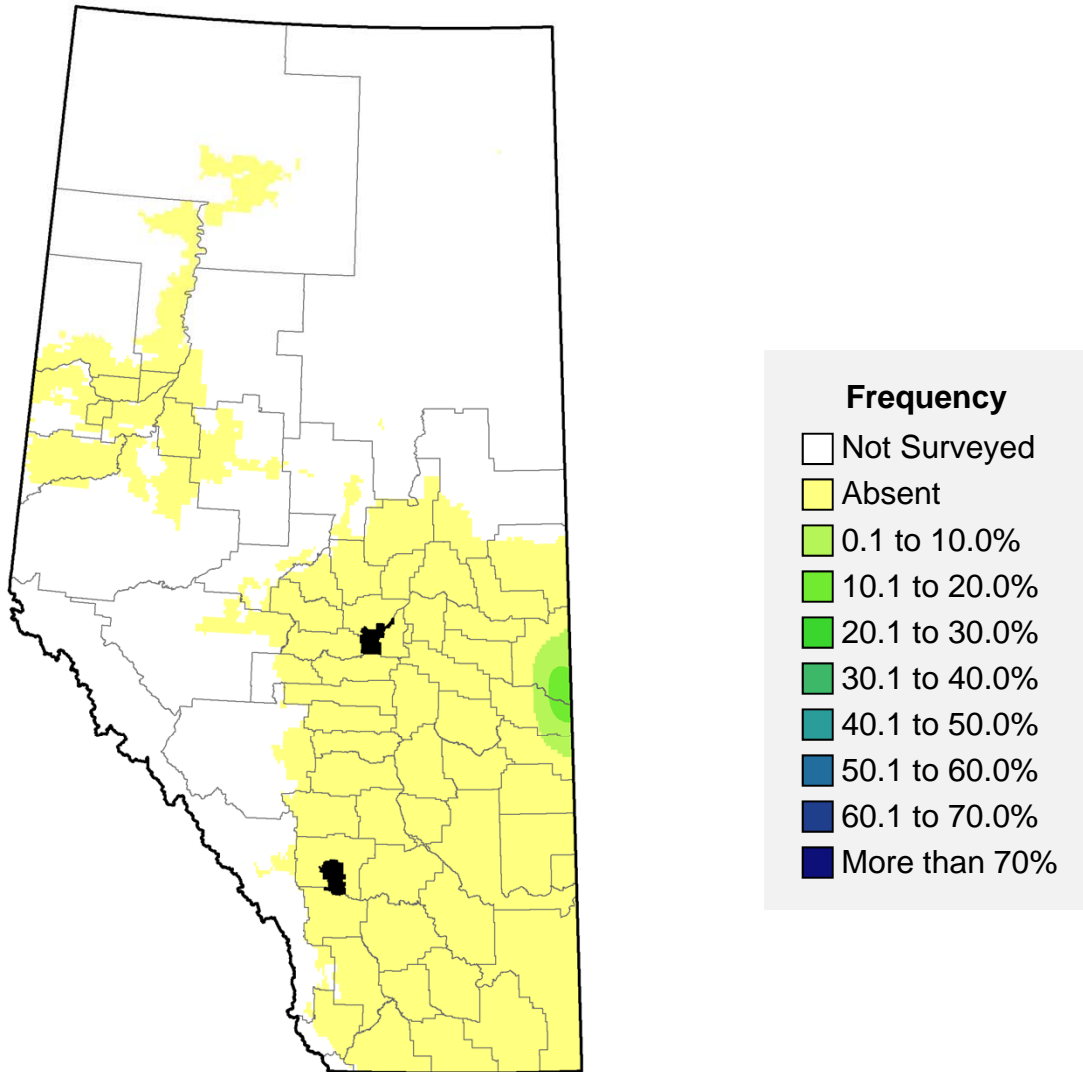
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	63	0.3	< 0.1	5.0	< 0.1	9.2	9.2
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

Oats, *Avena sativa*



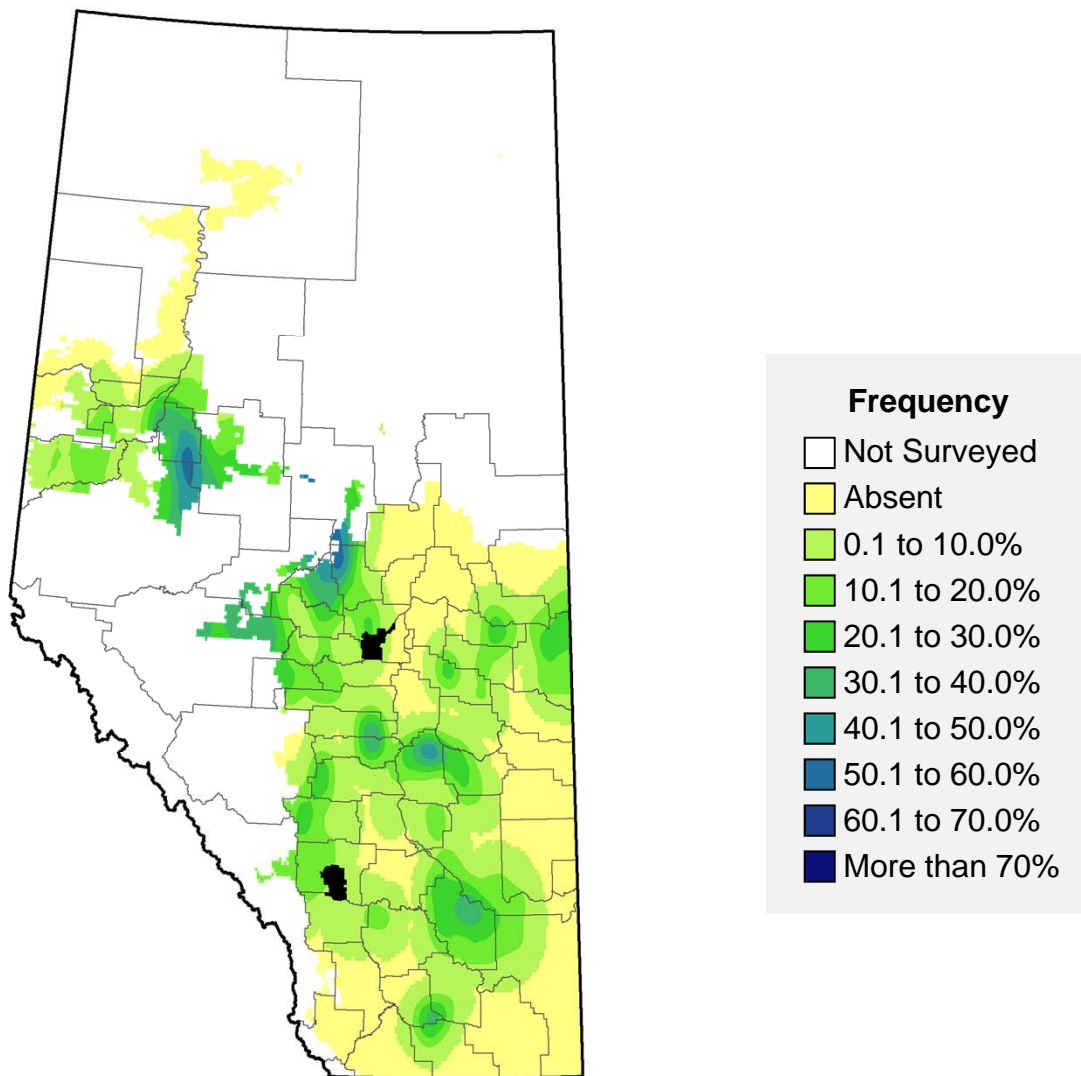
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	39	0.9	0.3	30.8	0.1	7.1	9.8	0.8
Barley	43	1.6	0.3	16.0	< 0.1	2.3	6.8	0.8
Durum	19	2.9	1.0	35.0	0.1	2.0	2.0	2.8
Oat	-	-	-	-	-	-	-	-
Canola	39	1.2	0.3	23.1	0.1	4.8	12.2	1.0
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Orchard grass, *Dactylis glomerata*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	64	0.5	0.1	20.0	< 0.1	0.8	0.2
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	49	1.2	0.1	10.0	< 0.1	0.4	0.3
Perennials	-	-	-	-	-	-	-

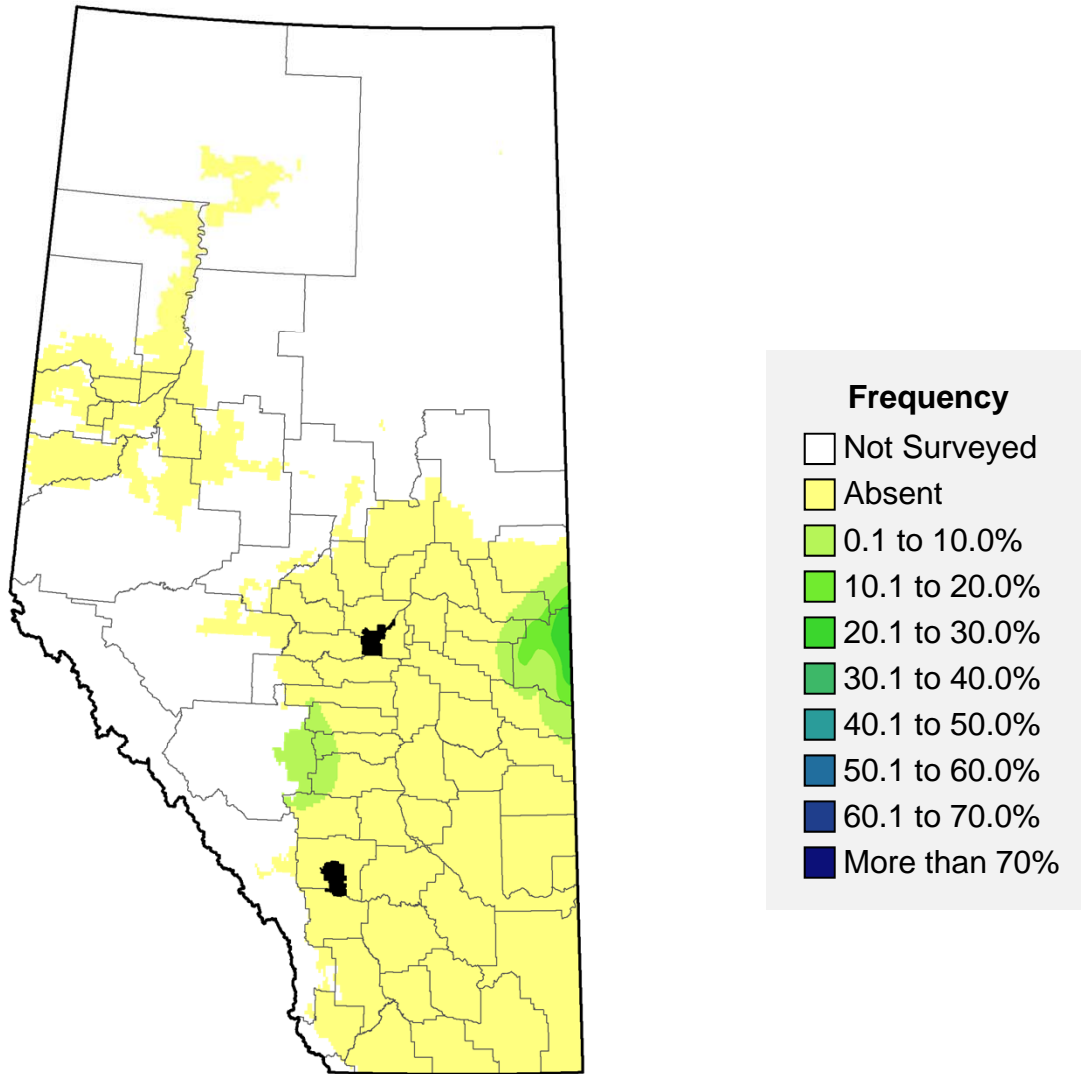
Pale smartweed, *Polygonum lapathifolium**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	17	6.3	1.2	19.8	0.6	9.0	151.0	5.4
Barley	21	8.1	1.4	17.9	0.1	1.6	7.0	3.8
Durum	-	-	-	-	-	-	-	-
Oat	14	19.2	4.4	23.1	1.4	7.2	47.2	8.6
Canola	35	3.5	0.3	9.1	< 0.1	0.5	1.4	1.4
Field pea	19	9.6	2.6	26.7	0.2	2.1	3.6	4.2
Perennials	-	-	-	-	-	-	-	-

*Includes green smartweed (*P. scabrum*)

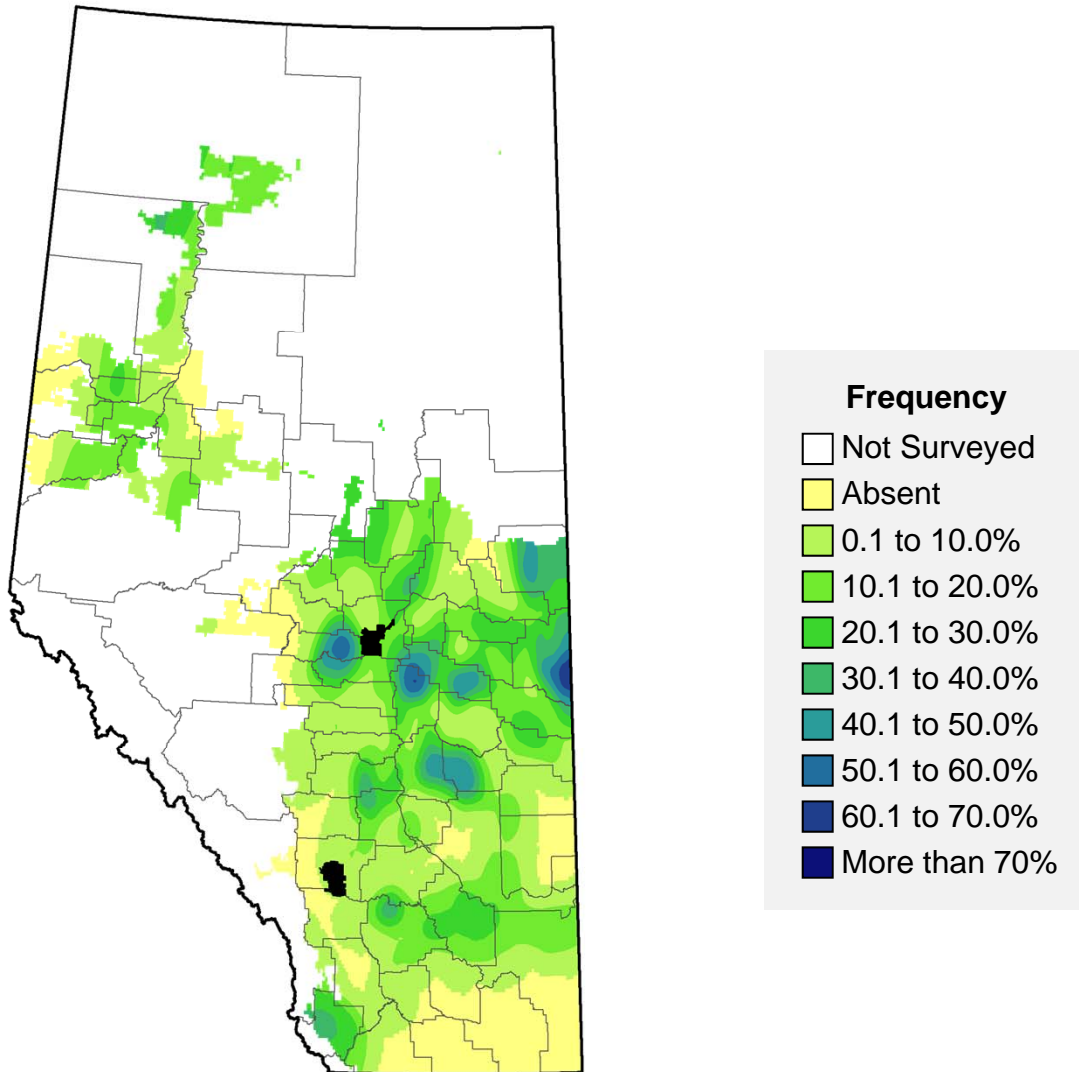
Pasture sage, *Artemisia frigida**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence		
Spring wheat	70	0.2	0.1	40.0	< 0.1	7.2	7.2	0.2
Barley	47	1.3	0.2	17.4	< 0.1	2.7	5.8	0.7
Durum	-	-	-	-	-	-	-	-
Oat	33	3.1	1.2	40.0	0.2	6.2	6.2	1.6
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	45	1.3	0.1	10.0	< 0.1	0.4	0.4	0.5

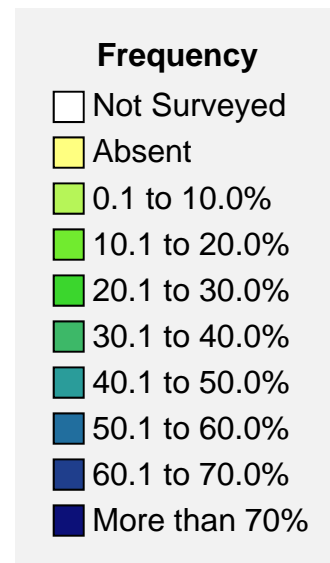
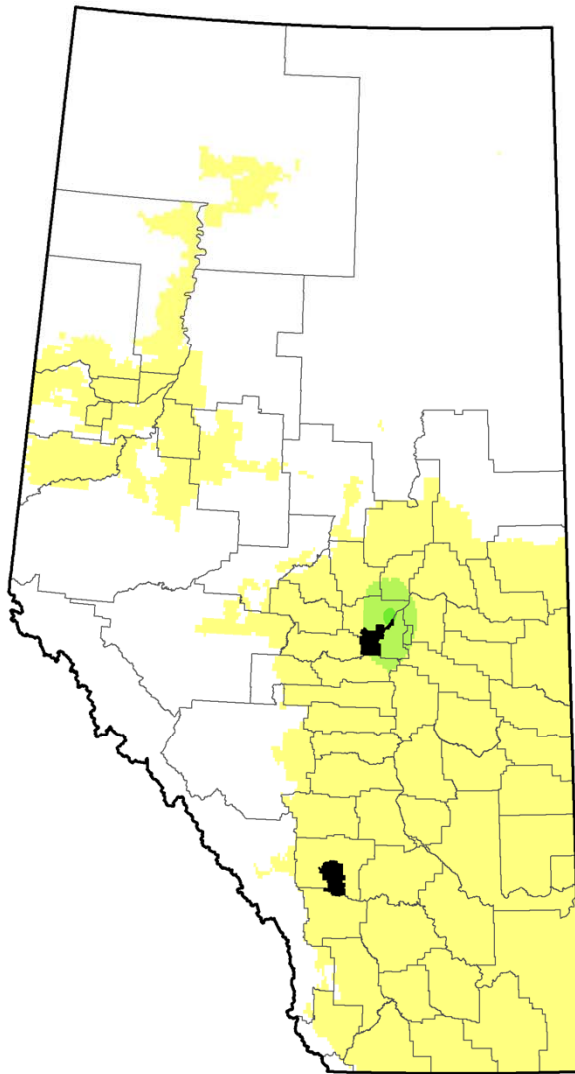
*May include other perennial sage species

Perennial sow-thistle, *Sonchus arvensis*



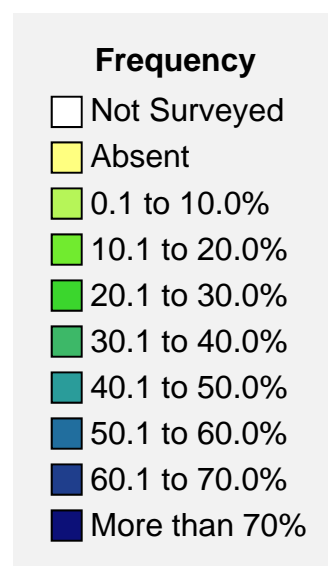
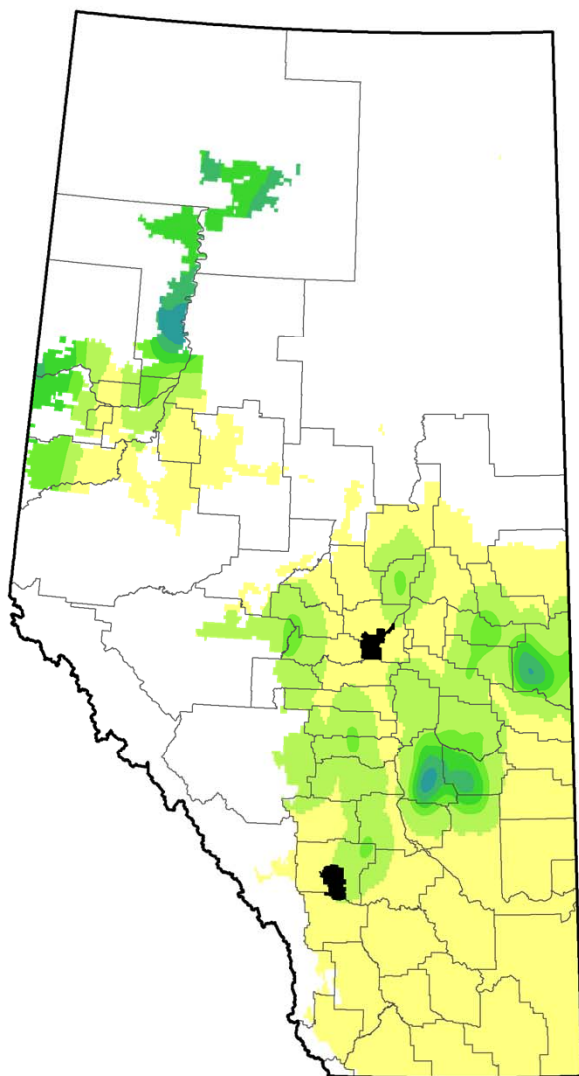
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	11	10.5	2.4	22.9	0.8	7.4	189.4	8.6
Barley	18	11.4	1.9	17.1	0.3	2.5	24.4	5.7
Durum	15	4.3	0.9	20.0	0.1	2.5	3.6	3.4
Oat	23	14.9	1.3	8.4	0.1	0.4	0.8	3.6
Canola	14	13.1	3.0	22.9	0.2	1.5	6.6	8.3
Field pea	8	25.5	5.8	22.7	1.3	4.9	69.0	12.6
Perennials	14	10.5	1.3	12.8	0.1	1.1	3.8	4.2

Persian darnel, *Lolium persicum*



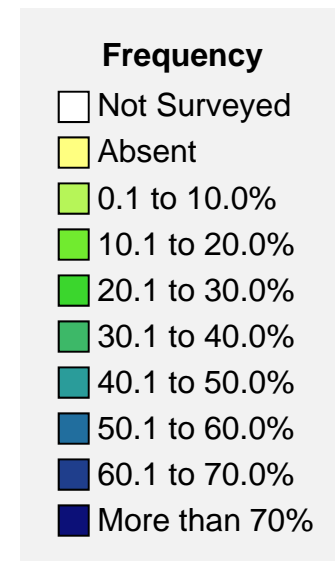
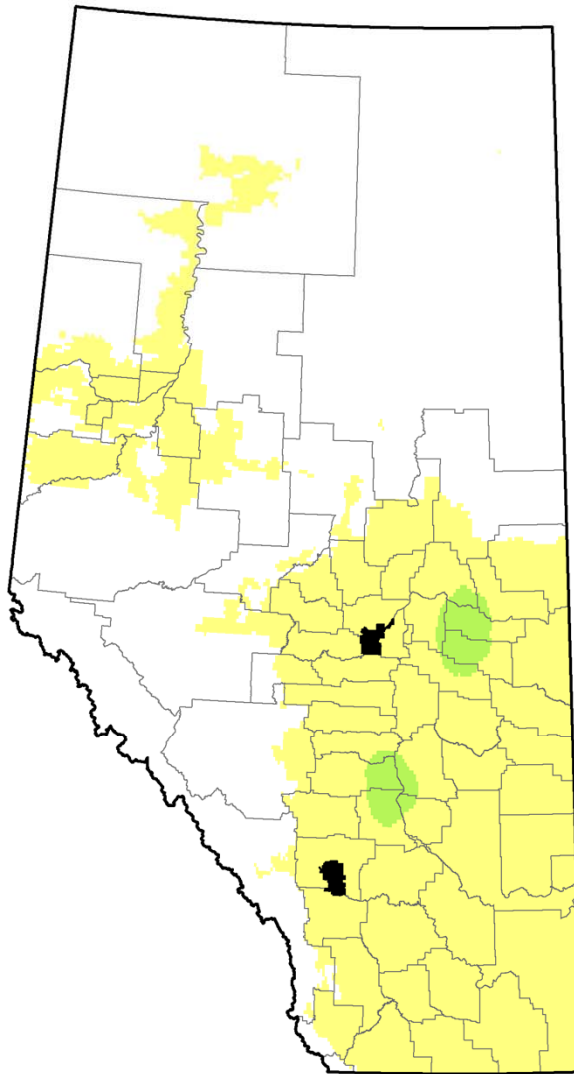
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	67	0.4	0.1	20.0	< 0.1	2.0	2.0
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

Pineappleweed, *Matricaria discoidea*



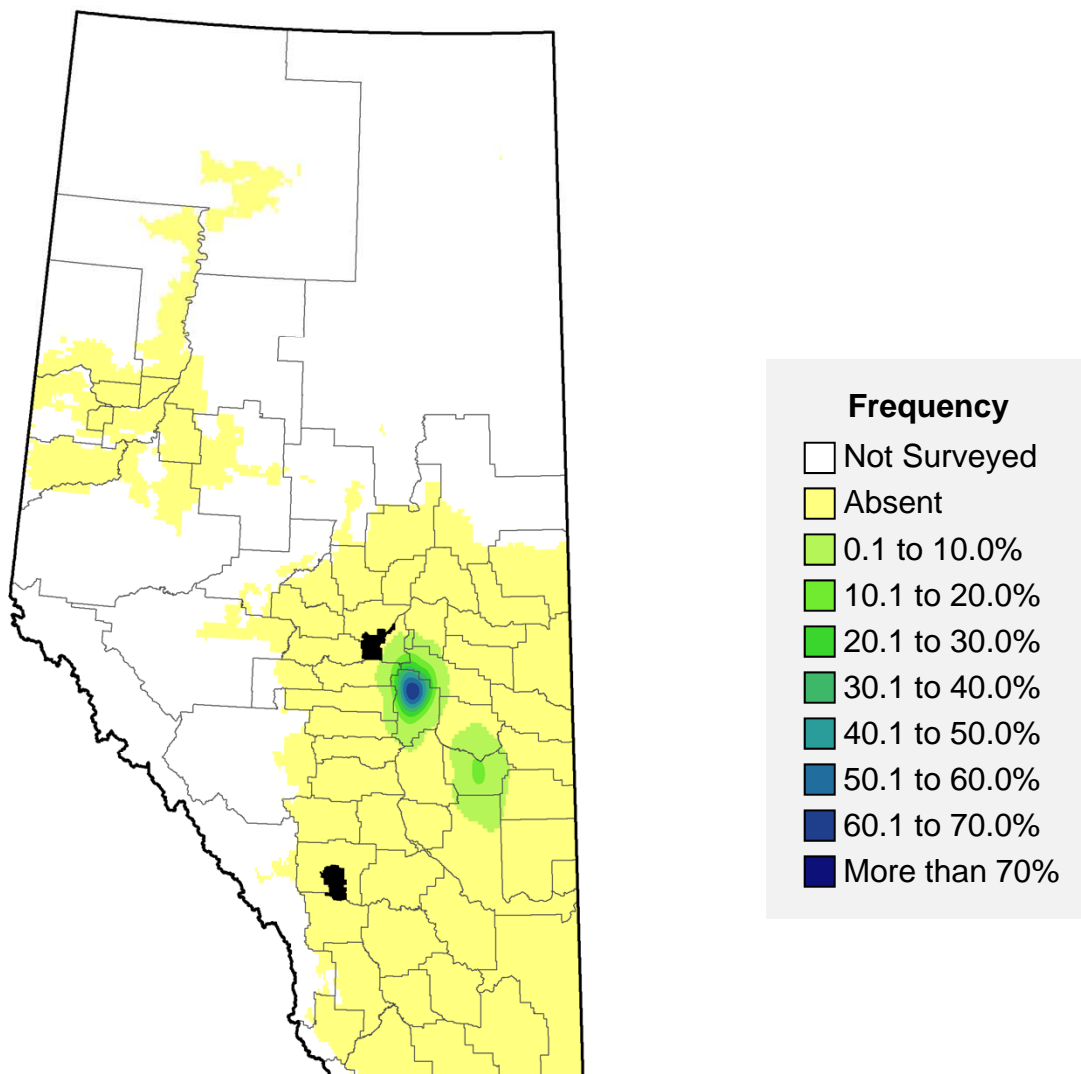
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	24	3.4	0.7	20.9	0.4	10.6	57.8	3.2
Barley	44	1.9	0.2	11.7	< 0.1	1.3	4.2	0.8
Durum	-	-	-	-	-	-	-	-
Oat	28	8.8	0.8	8.9	0.1	0.6	1.6	2.2
Canola	17	4.1	1.5	35.7	0.4	9.1	32.4	5.7
Field pea	23	8.2	1.0	12.8	0.1	1.7	2.8	2.6
Perennials	35	2.8	0.1	5.0	< 0.1	0.2	0.2	0.9

Poplar species, *Populus spp.*



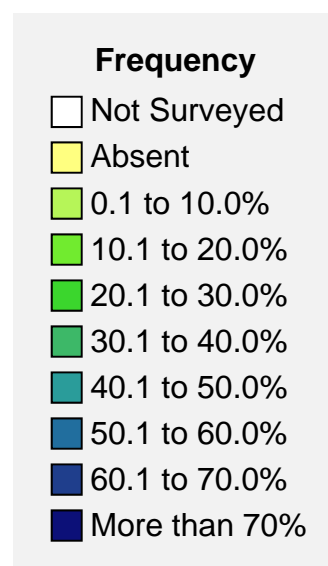
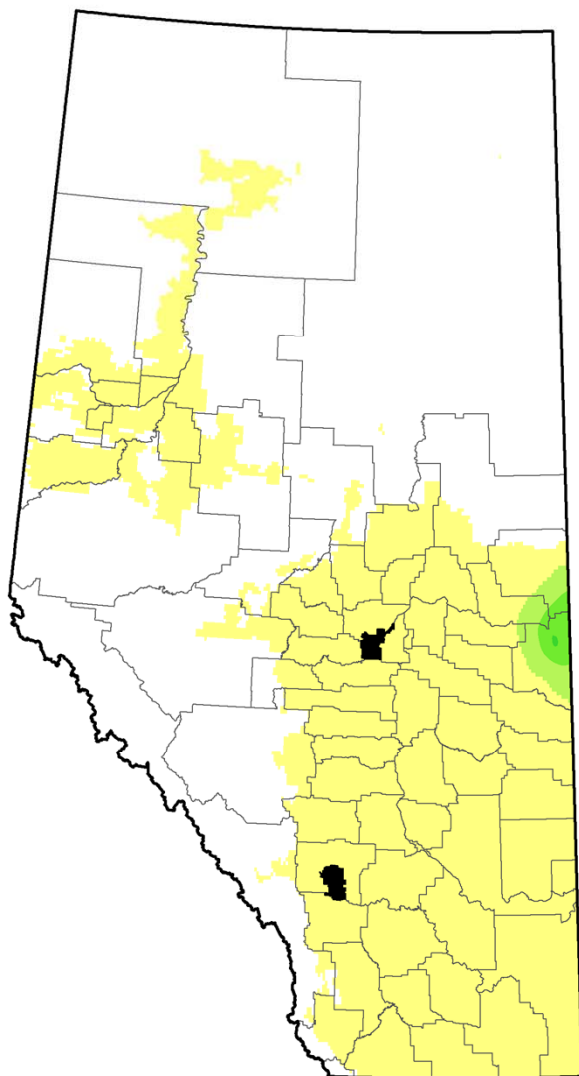
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	90	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
Barley	81	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Povertyweed, *Iva axillaris*



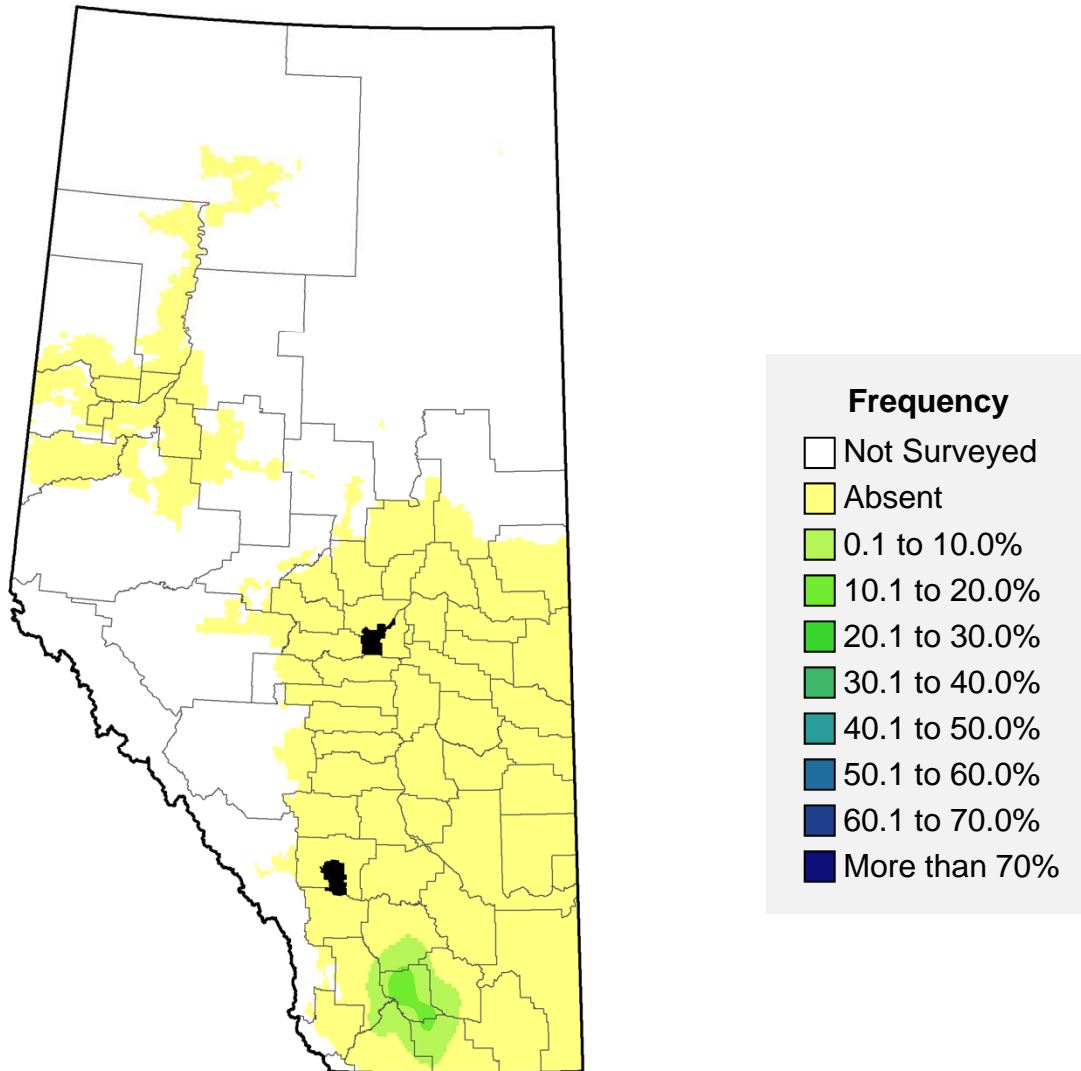
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	High		
Spring wheat	62	0.7	< 0.1	5.0	< 0.1	1.4	3.4	0.3
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	32	2.3	0.3	14.3	0.1	3.6	10.4	1.6
Field pea	27	2.3	0.7	32.5	0.3	12.6	20.0	1.8
Perennials	-	-	-	-	-	-	-	-

Prairie sage, *Artemisia ludoviciana*



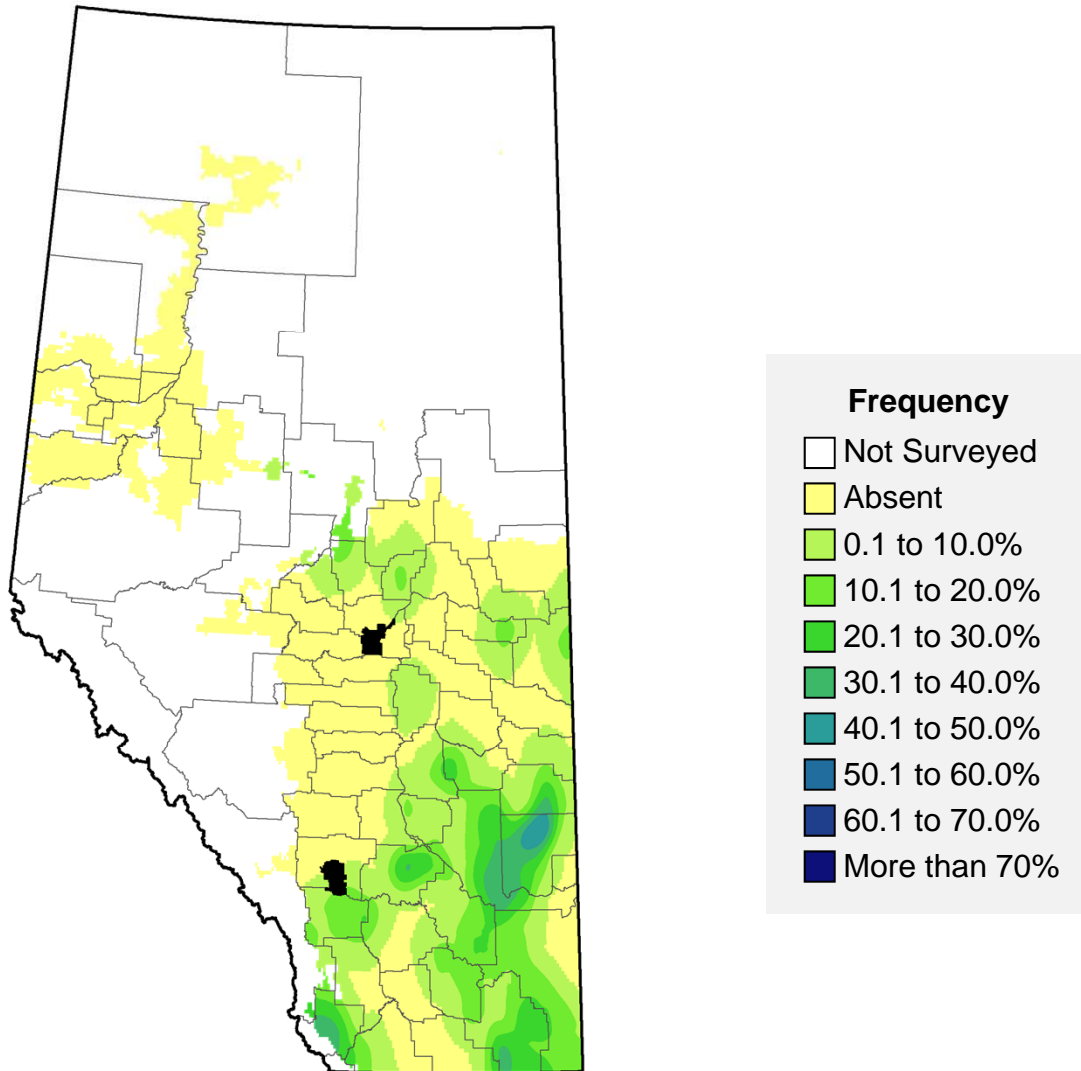
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	76	0.4	< 0.1	10.0	< 0.1	0.6	0.6	0.1
Barley	71	0.5	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Prickly lettuce, *Lactuca serriola*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All Occurrence	High	All Occurrence	High		
Spring wheat	94	0.1	< 0.1	10.0	< 0.1	0.4	0.4	0.1
Barley	77	0.4	< 0.1	5.0	< 0.1	0.8	0.8	0.1
Durum	29	1.4	0.1	5.0	< 0.1	0.2	0.2	0.5
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	41	1.5	0.1	5.0	0.1	4.2	4.2	0.5
Perennials	-	-	-	-	-	-	-	-

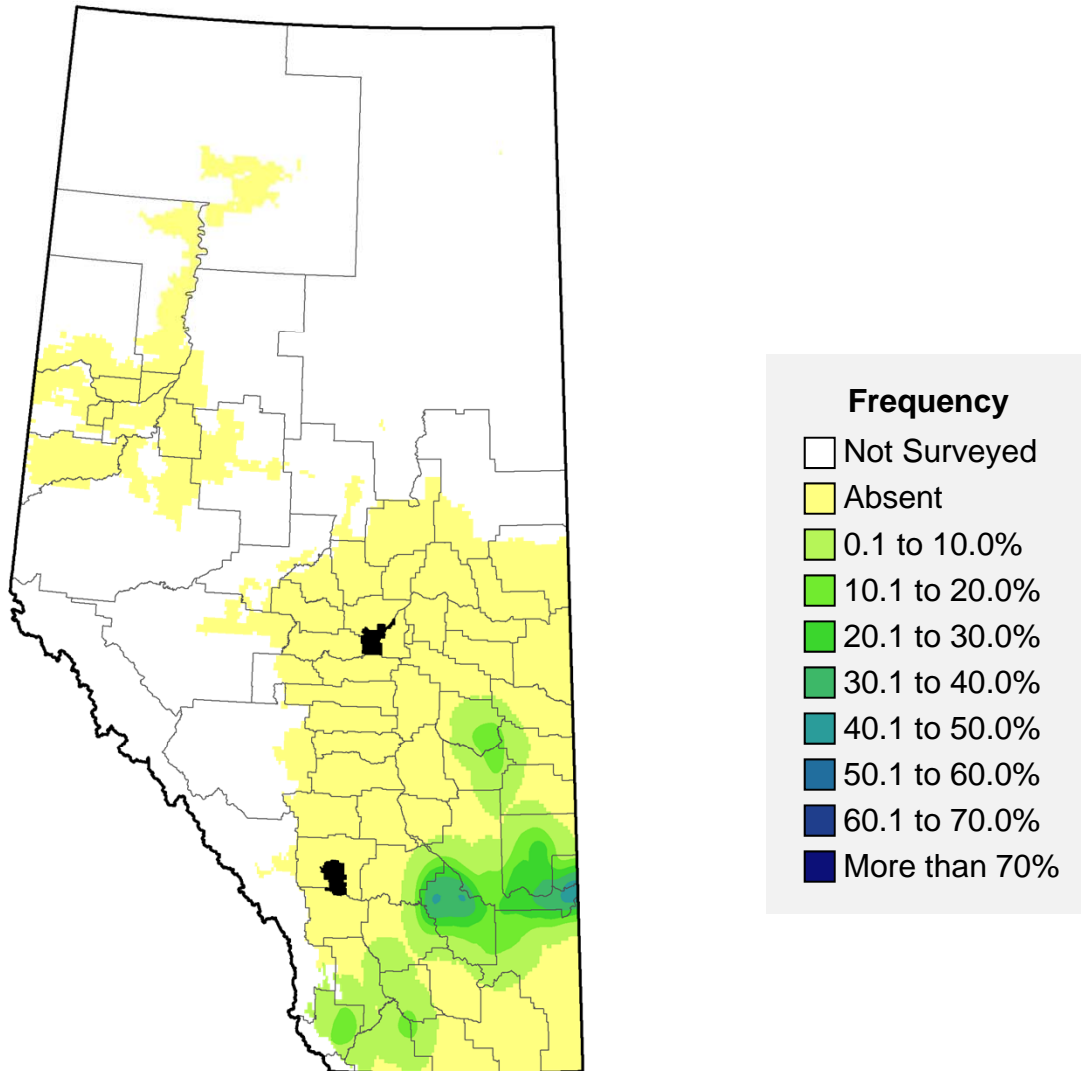
Prostrate knotweed, *Polygonum aviculare**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	25	4.6	1.3	28.9	0.1	2.4	7.2	3.0
Barley	34	3.5	0.4	12.9	< 0.1	1.3	3.6	1.4
Durum	18	3.6	0.9	25.0	0.1	1.8	1.8	2.9
Oat	55	1.6	0.1	5.0	< 0.1	0.4	0.4	0.4
Canola	40	2.0	0.3	17.1	< 0.1	0.8	1.0	1.0
Field pea	44	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
Perennials	39	1.5	0.2	10.0	< 0.1	1.2	1.2	0.6

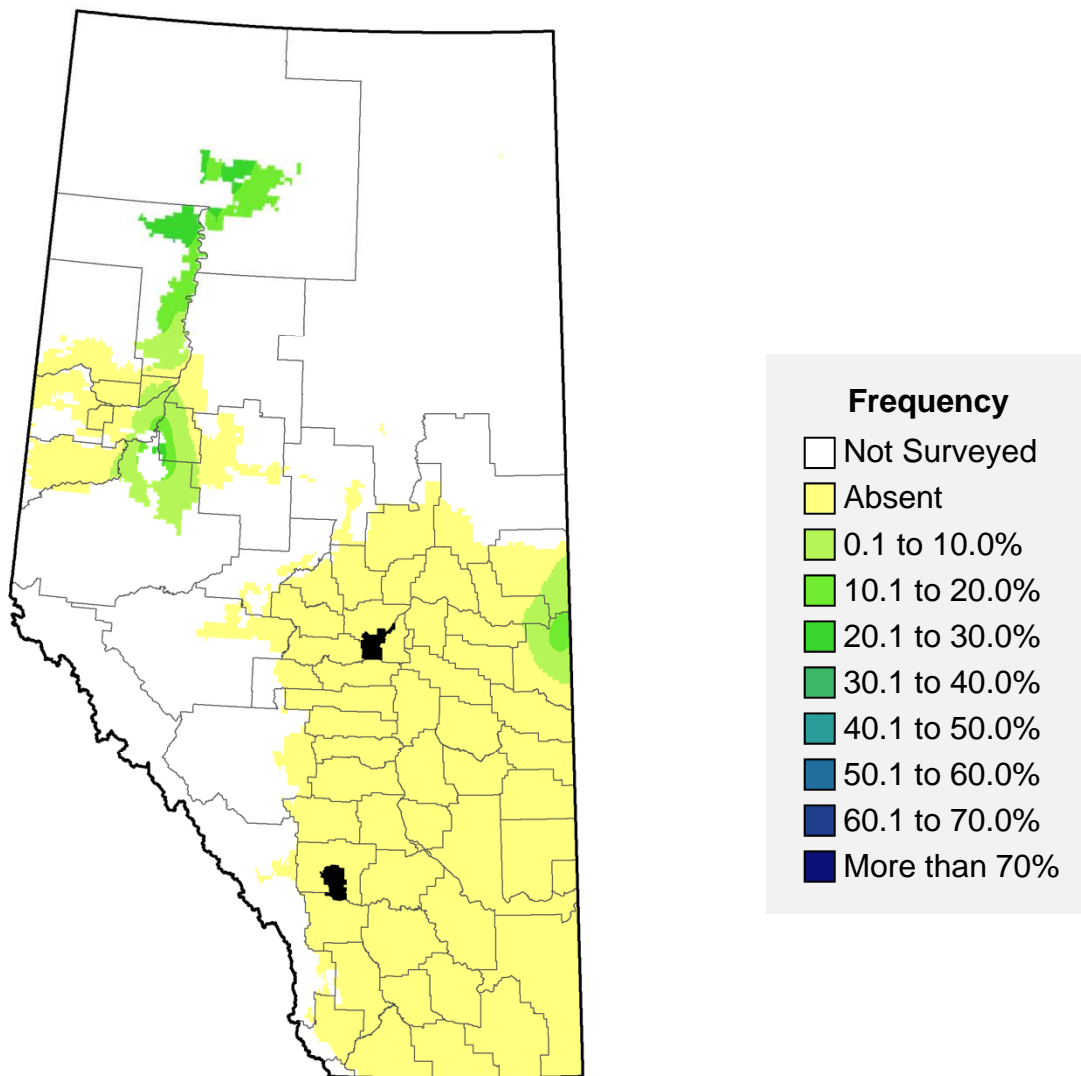
*Includes striate and erect knotweed (*P. achoreum* & *P. erectum*)

Prostrate pigweed, *Amaranthus blitoides*



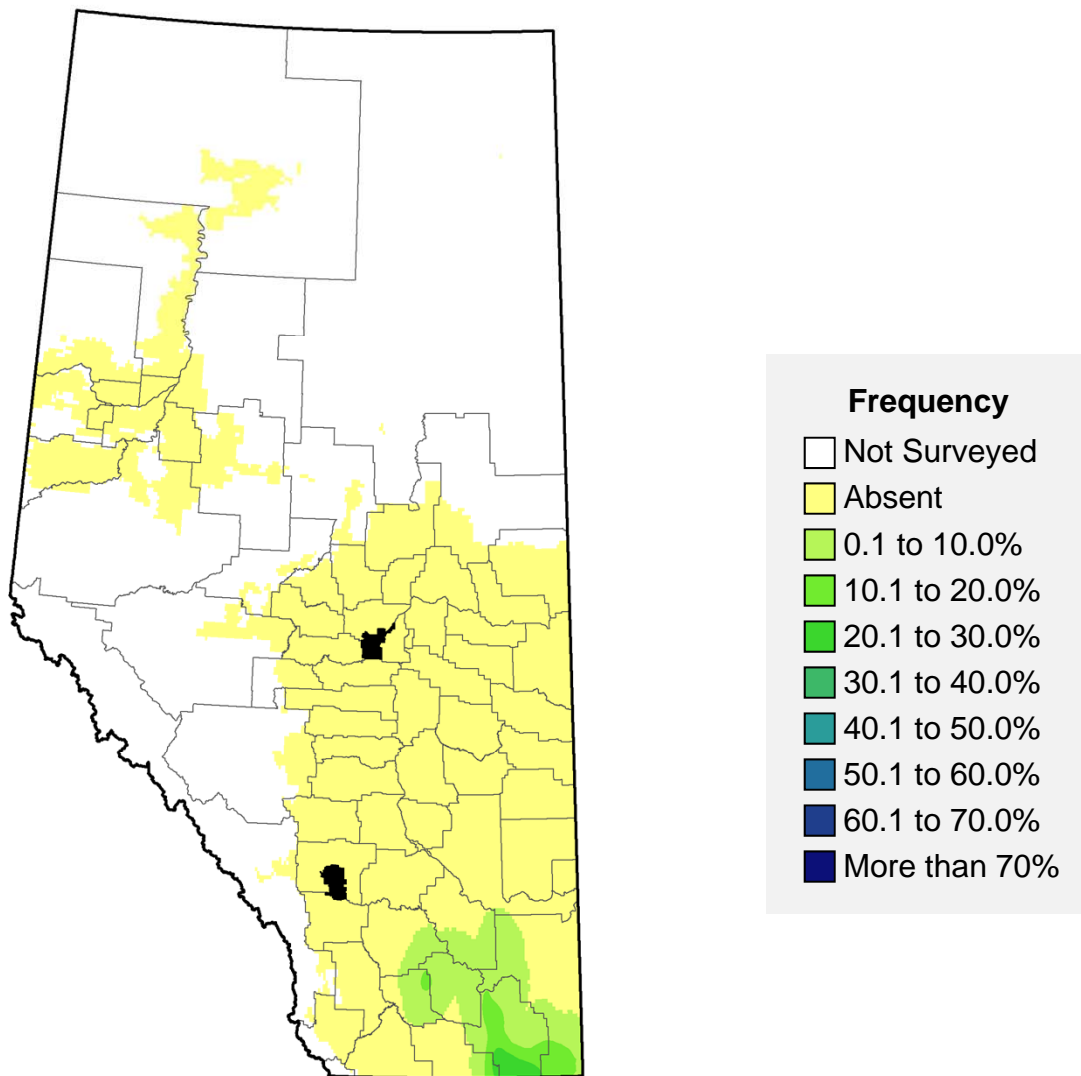
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	46	1.2	0.2	16.2	< 0.1	2.8	6.2	0.6
Barley	33	2.1	0.7	33.3	0.1	4.3	15.6	1.5
Durum	8	8.6	3.9	44.8	0.4	4.8	9.6	11.7
Oat	-	-	-	-	-	-	-	-
Canola	73	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Field pea	48	1.2	0.1	10.0	< 0.1	0.4	0.4	0.3
Perennials	43	1.5	0.1	5.0	< 0.1	0.2	0.2	0.5

Purple vetchling, *Lathyrus venosus*



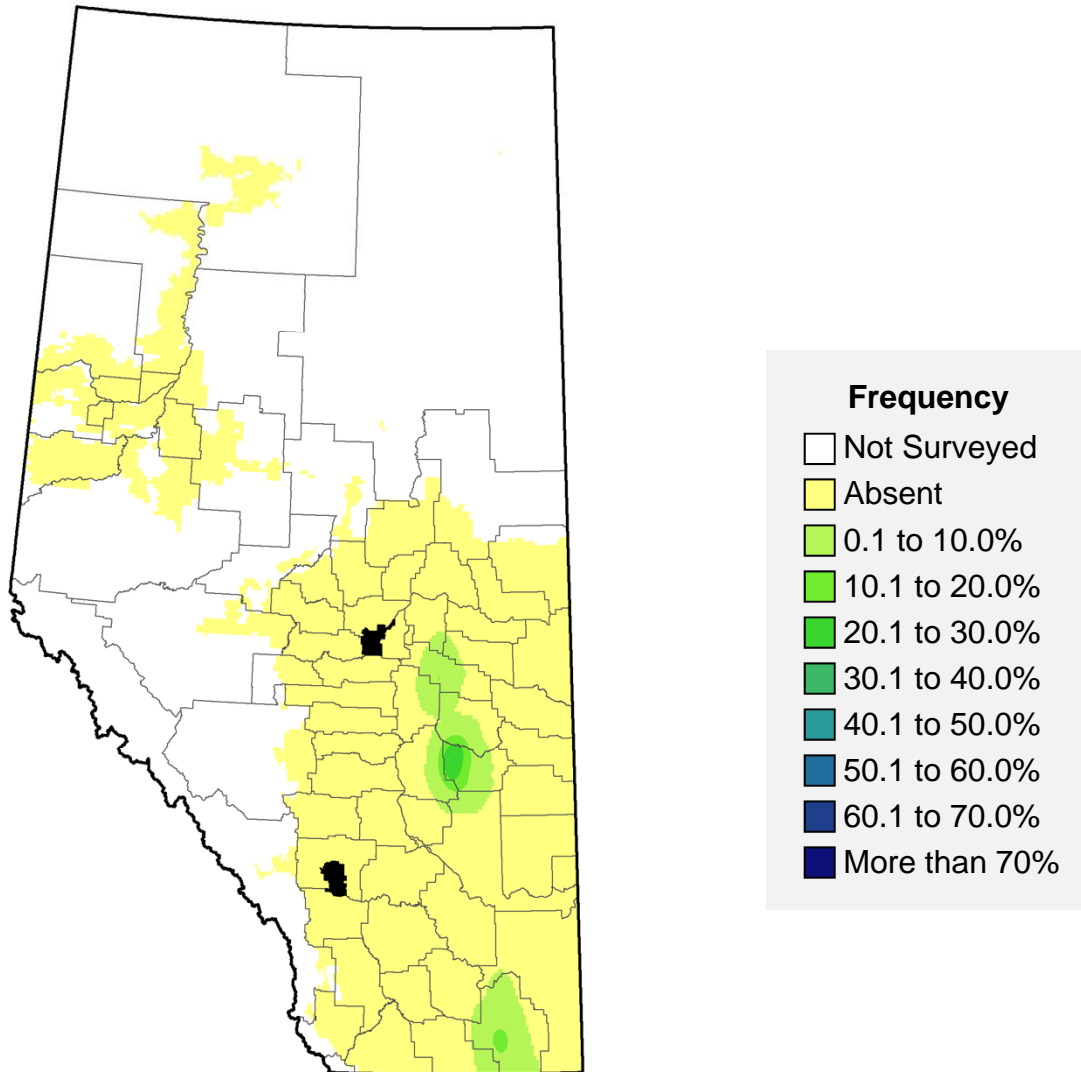
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	55	1.0	0.1	5.0	< 0.1	0.2	0.3
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	49	1.1	0.1	6.9	< 0.1	0.6	0.4
Field pea	29	7.0	0.7	10.0	< 0.1	0.4	1.8
Perennials	-	-	-	-	-	-	-

Purslane, *Portulaca oleracea*



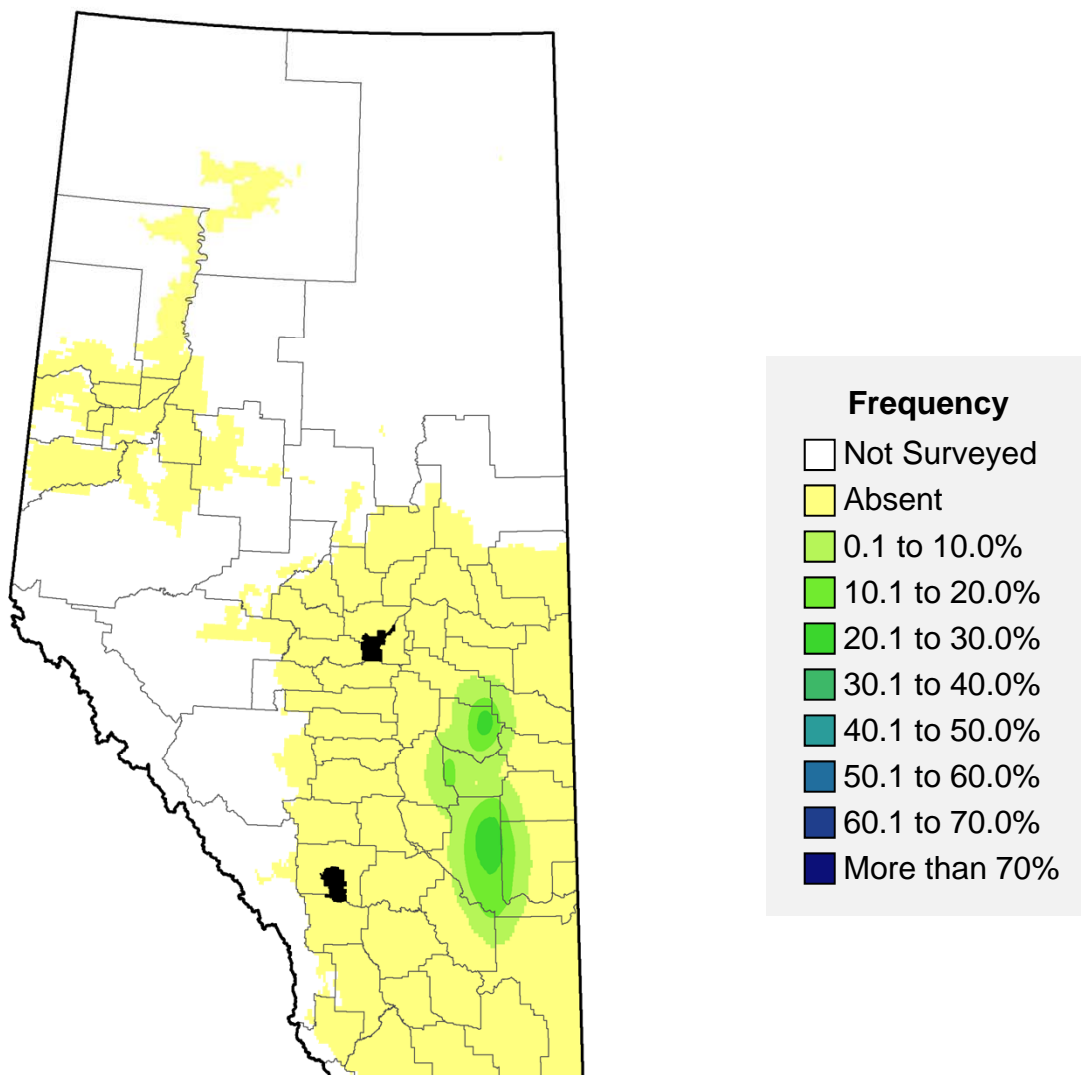
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	44	1.0	0.3	33.8	< 0.1	2.4	4.4	0.7
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	43	1.5	0.2	10.0	< 0.1	0.8	0.8	0.4
Perennials	-	-	-	-	-	-	-	-

Purslane speedwell, *Veronica peregrina*



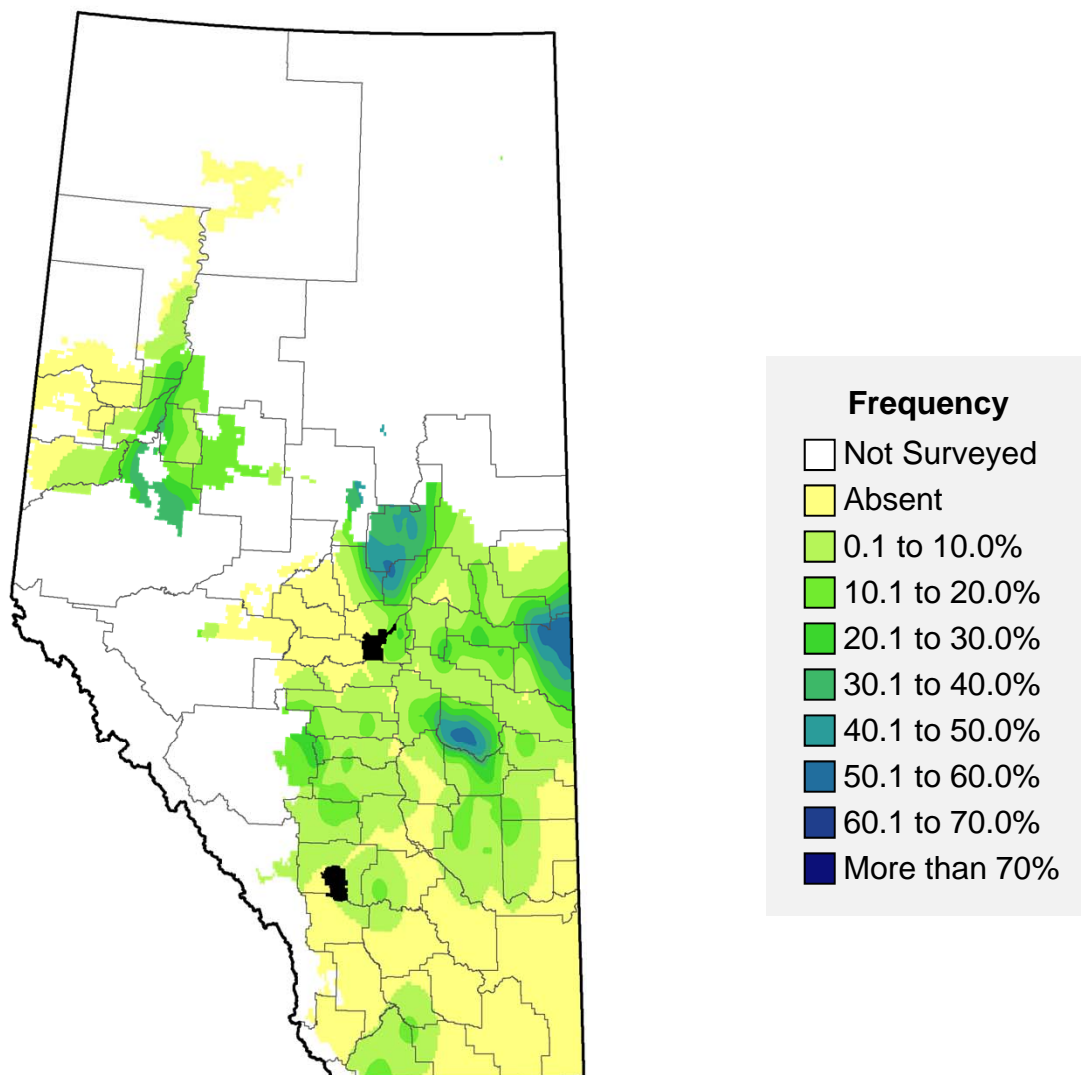
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	88	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
Barley	-	-	-	-	-	-	-	-
Durum	21	3.6	0.4	10.0	0.1	2.0	2.0	2.2
Oat	37	1.6	1.0	60.0	0.1	5.4	5.4	1.0
Canola	51	0.6	0.1	25.1	< 0.1	1.5	2.8	0.4
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Pygmyflower, *Androsace septentrionalis*



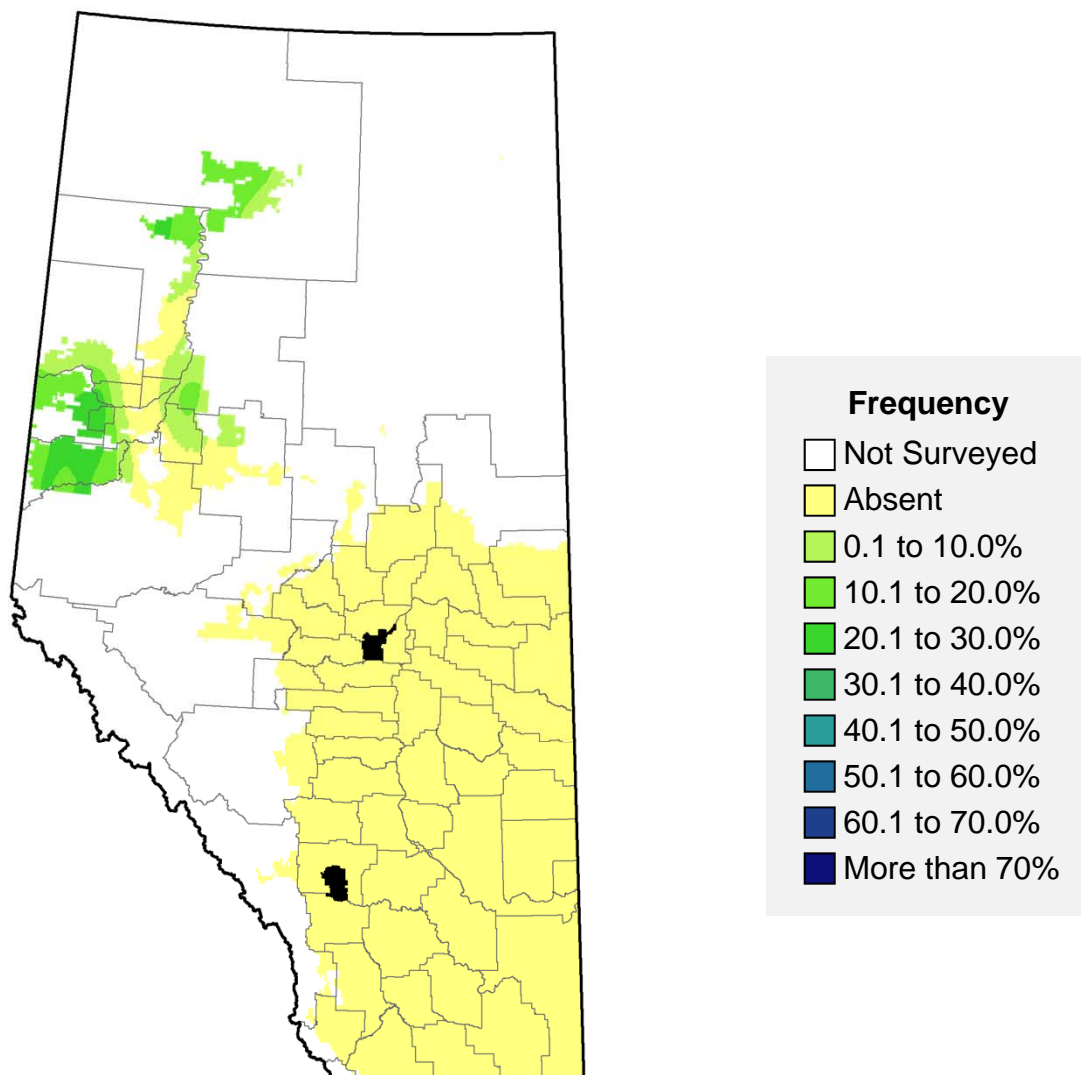
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	67	0.4	0.1	20.0	< 0.1	0.8	0.8	0.2
Barley	82	0.3	< 0.1	5.0	< 0.1	0.6	0.6	0.1
Durum	-	-	-	-	-	-	-	-
Oat	41	3.5	0.3	10.0	< 0.1	0.4	0.4	0.9
Canola	38	0.5	0.4	70.0	0.1	11.6	11.6	1.1
Field pea	-	-	-	-	-	-	-	-
Perennials	42	1.5	0.1	5.0	< 0.1	0.6	0.6	0.5

Quack grass, *Elytrigia repens*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	23	6.1	1.2	19.2	0.2	3.0	25.0	3.6
Barley	19	5.6	1.2	20.5	0.4	7.2	59.8	4.1
Durum	-	-	-	-	-	-	-	-
Oat	24	7.7	1.6	21.3	0.4	4.7	12.0	3.0
Canola	13	11.5	2.7	23.3	0.4	3.3	24.2	8.9
Field pea	21	5.0	1.9	37.6	0.2	4.3	11.0	2.9
Perennials	4	16.9	5.9	34.8	5.0	29.8	348.0	22.9

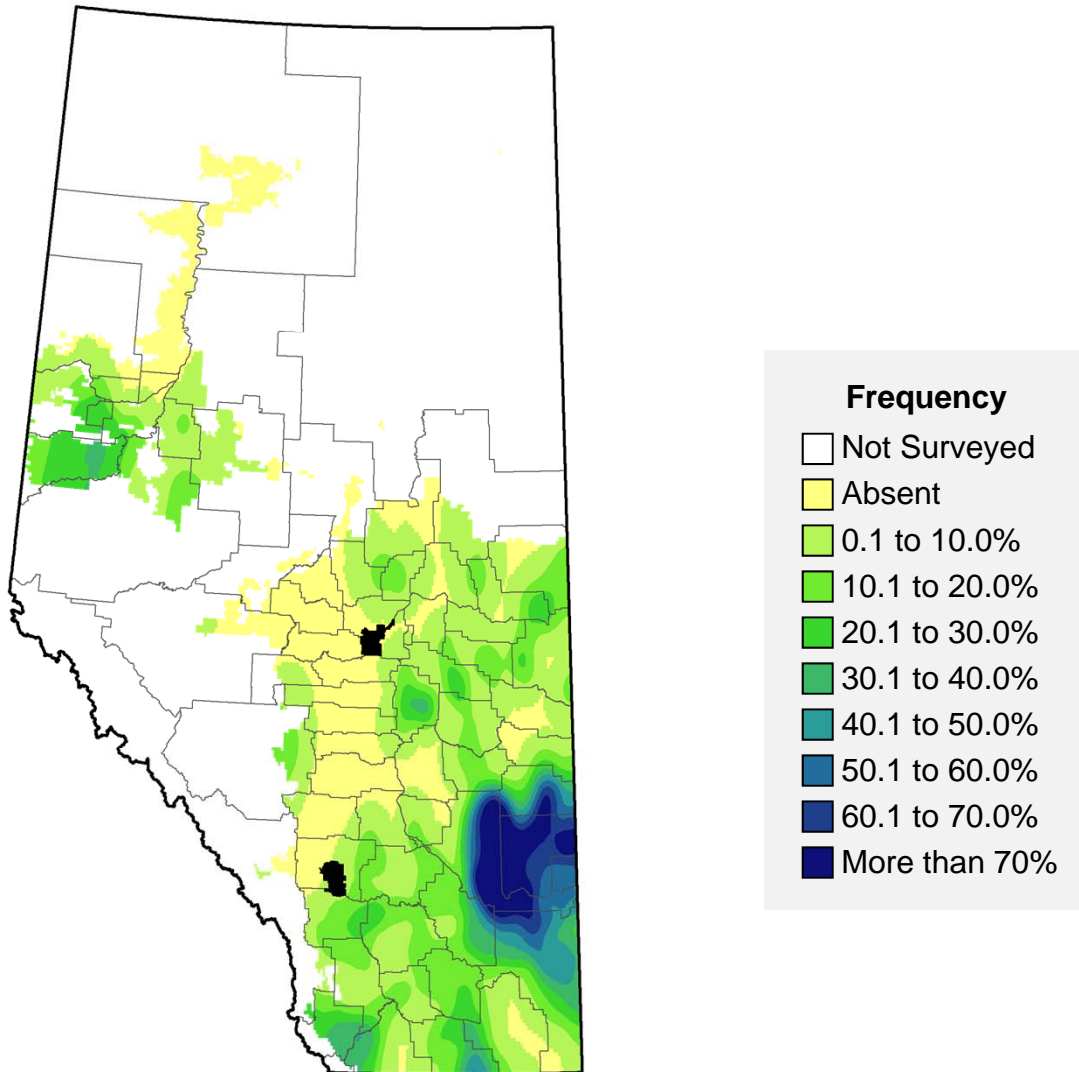
Red fescue, *Festuca rubra**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	59	0.9	< 0.1	5.0	< 0.1	0.2	0.2	0.3
Barley	41	2.1	0.3	15.0	< 0.1	1.4	1.4	0.9
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	59	0.6	< 0.1	5.0	< 0.1	0.2	0.2	0.2
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

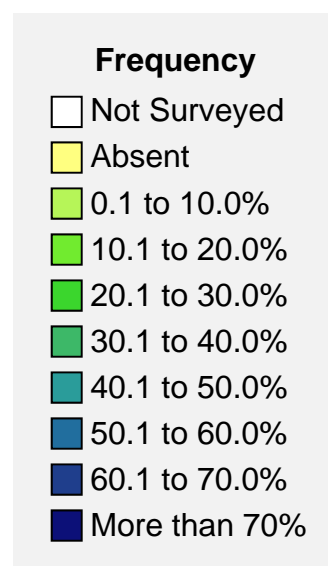
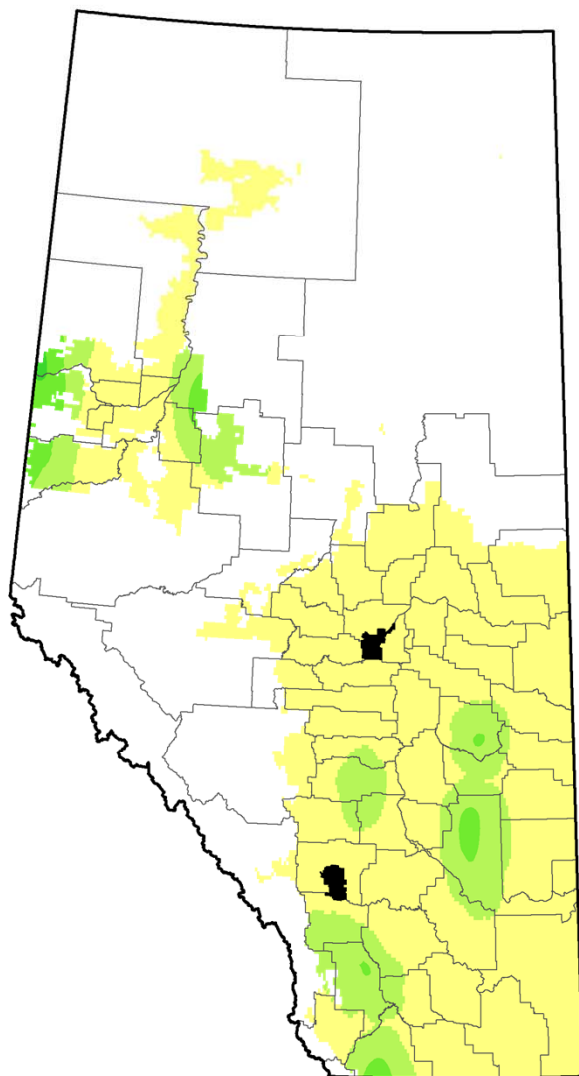
*May include other fescue species

Redroot pigweed, *Amaranthus retroflexus*



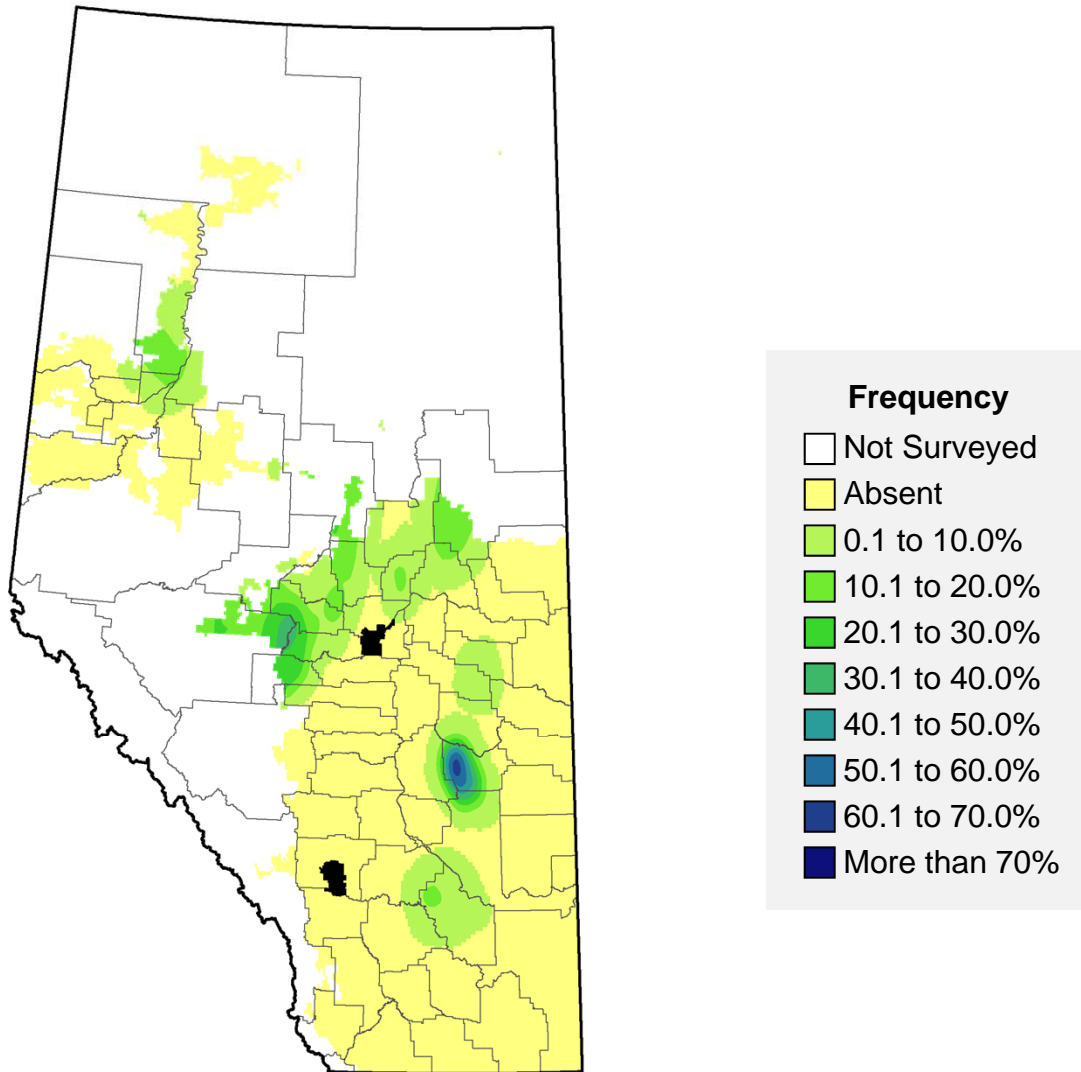
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	18	11.3	1.4	12.8	0.1	1.3	18.0	4.9
Barley	16	11.1	2.7	24.1	0.4	3.5	20.6	6.8
Durum	6	35.9	5.5	15.3	0.6	1.6	7.6	23.2
Oat	29	8.0	0.9	11.2	0.1	1.1	1.8	2.1
Canola	22	5.5	0.8	14.6	0.1	1.3	4.6	2.8
Field pea	26	6.2	0.9	13.9	0.1	1.8	4.6	2.1
Perennials	41	1.5	0.1	5.0	< 0.1	0.2	0.2	0.5

Rose species, *Rosa spp.*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	78	0.3	< 0.1	10.0	< 0.1	0.6	0.6	0.1
Barley	66	0.7	< 0.1	7.2	< 0.1	0.4	0.4	0.2
Durum	-	-	-	-	-	-	-	-
Oat	46	2.3	0.2	10.0	< 0.1	0.8	0.8	0.6
Canola	54	0.9	< 0.1	5.0	< 0.1	0.4	1.0	0.3
Field pea	-	-	-	-	-	-	-	-
Perennials	24	7.5	0.4	5.0	< 0.1	0.4	1.2	2.4

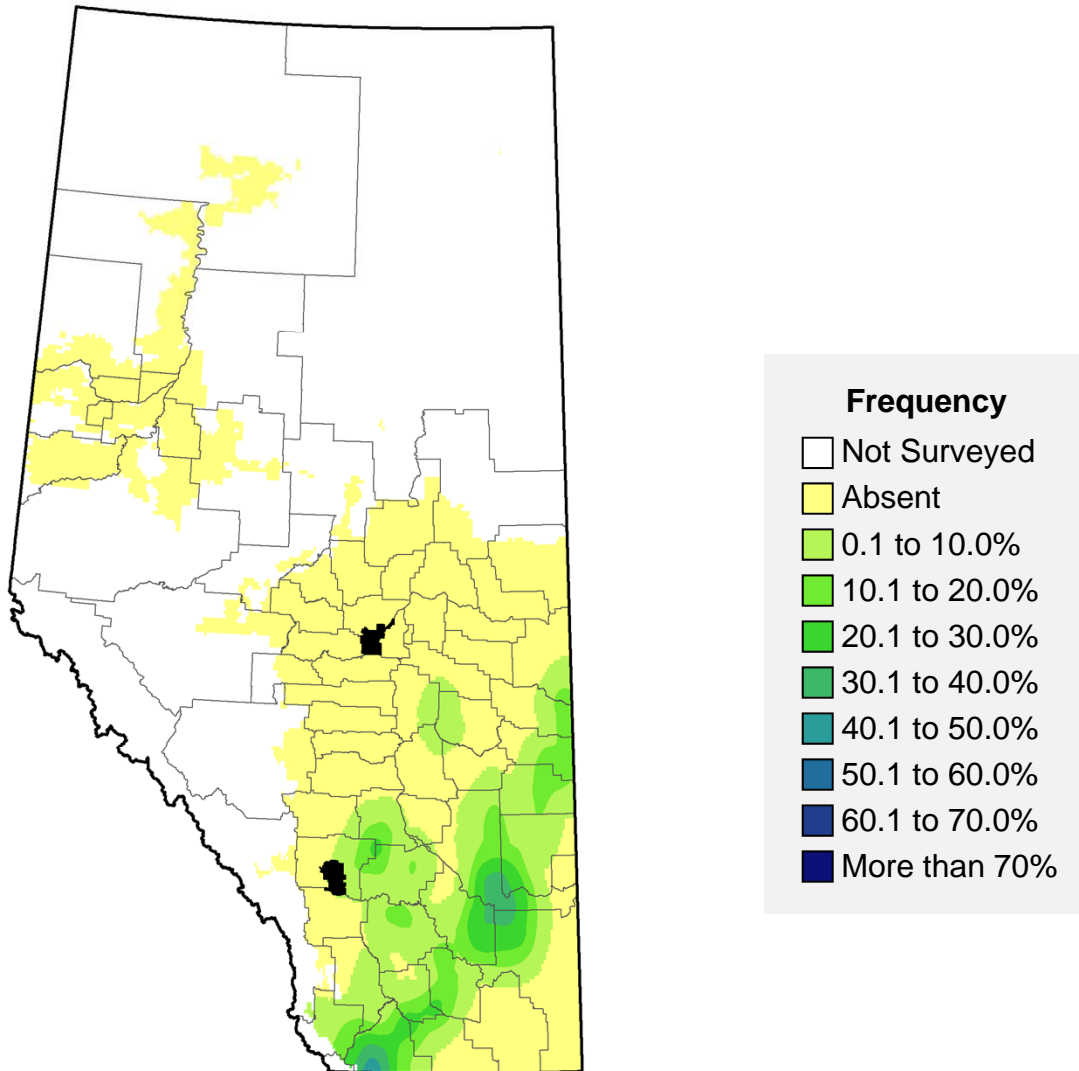
Rough cinquefoil, *Potentilla norvegica**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance		
			All	Occurrence	All	Occurrence High			
Spring wheat	51	1.3	0.1	5.7	< 0.1	0.4	1.0	0.4	
Barley	-	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-	-
Oat	26	6.9	2.1	30.2	0.2	2.9	7.4	2.8	
Canola	42	1.5	0.3	21.4	< 0.1	1.3	2.6	0.9	
Field pea	-	-	-	-	-	-	-	-	-
Perennials	10	10.5	2.3	22.1	0.3	2.7	3.8	5.5	

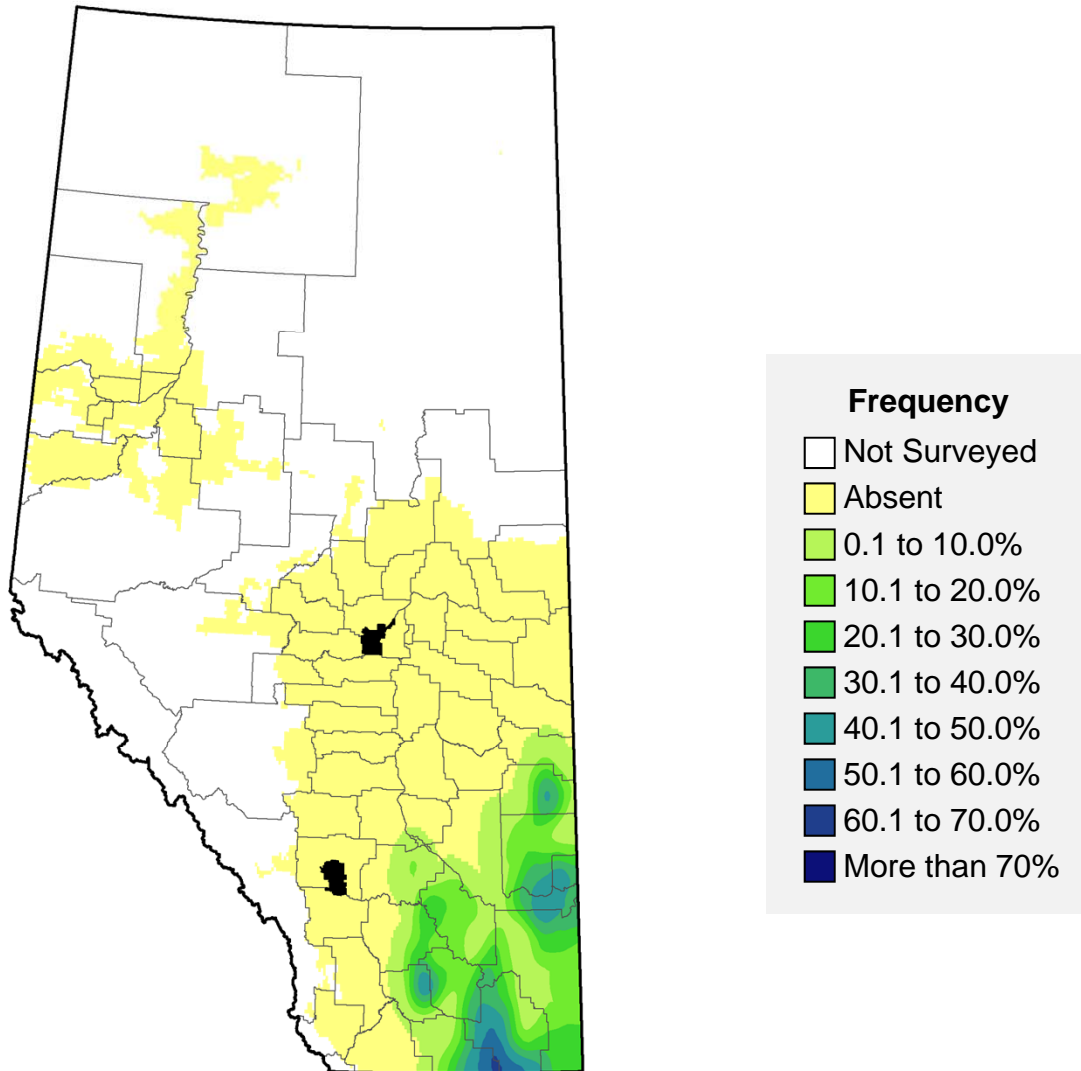
*May include other cinquefoil species

Round-leaved mallow, *Malva pusilla*



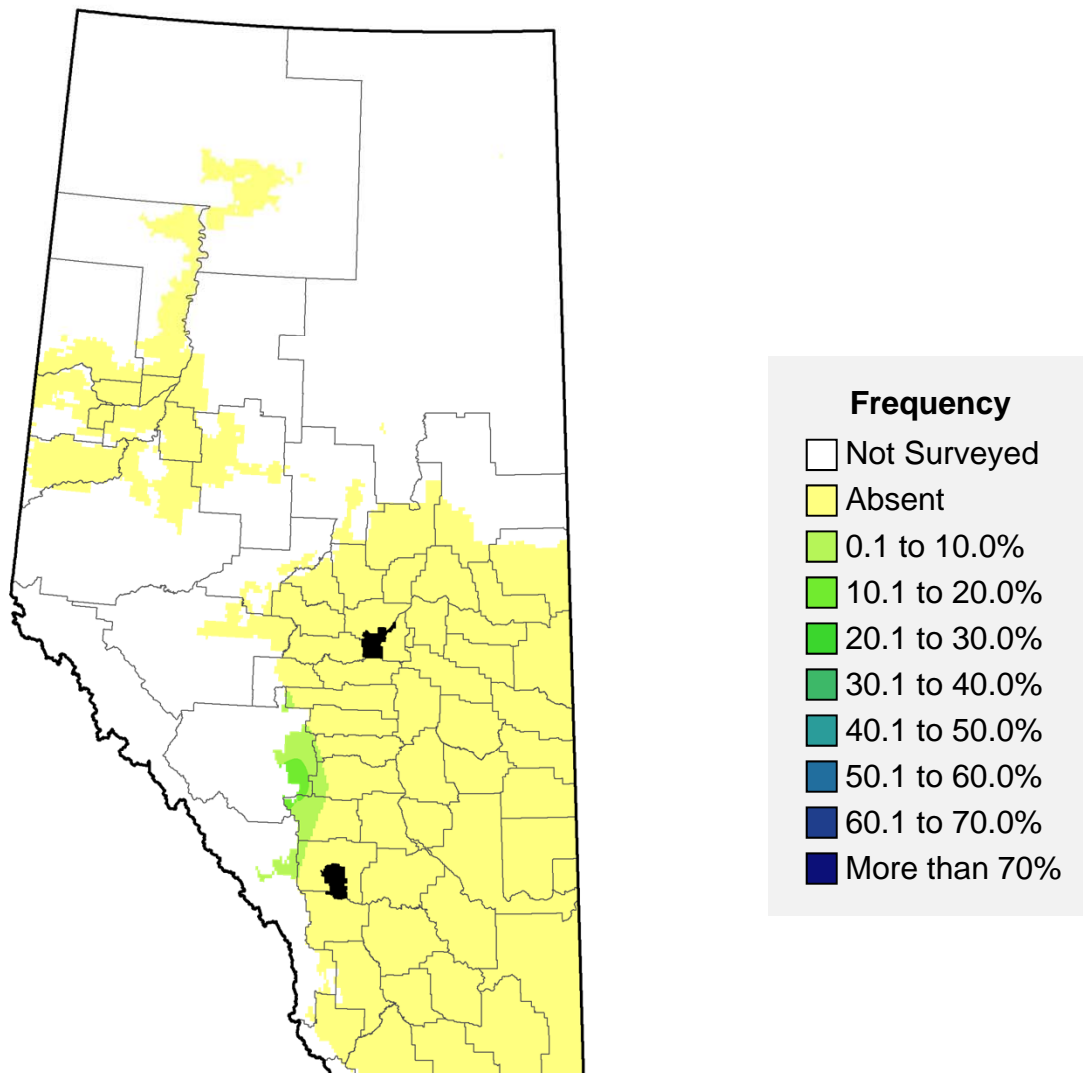
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	47	1.5	0.2	10.9	< 0.1	0.6	1.4	0.6
Barley	31	3.9	0.6	14.6	0.1	1.4	6.0	1.7
Durum	-	-	-	-	-	-	-	-
Oat	38	3.9	0.4	10.1	< 0.1	0.9	1.6	1.0
Canola	31	2.8	0.5	16.1	0.1	1.9	7.8	1.6
Field pea	42	1.5	0.2	15.0	< 0.1	0.6	0.6	0.5
Perennials	-	-	-	-	-	-	-	-

Russian thistle, *Salsola tragus*



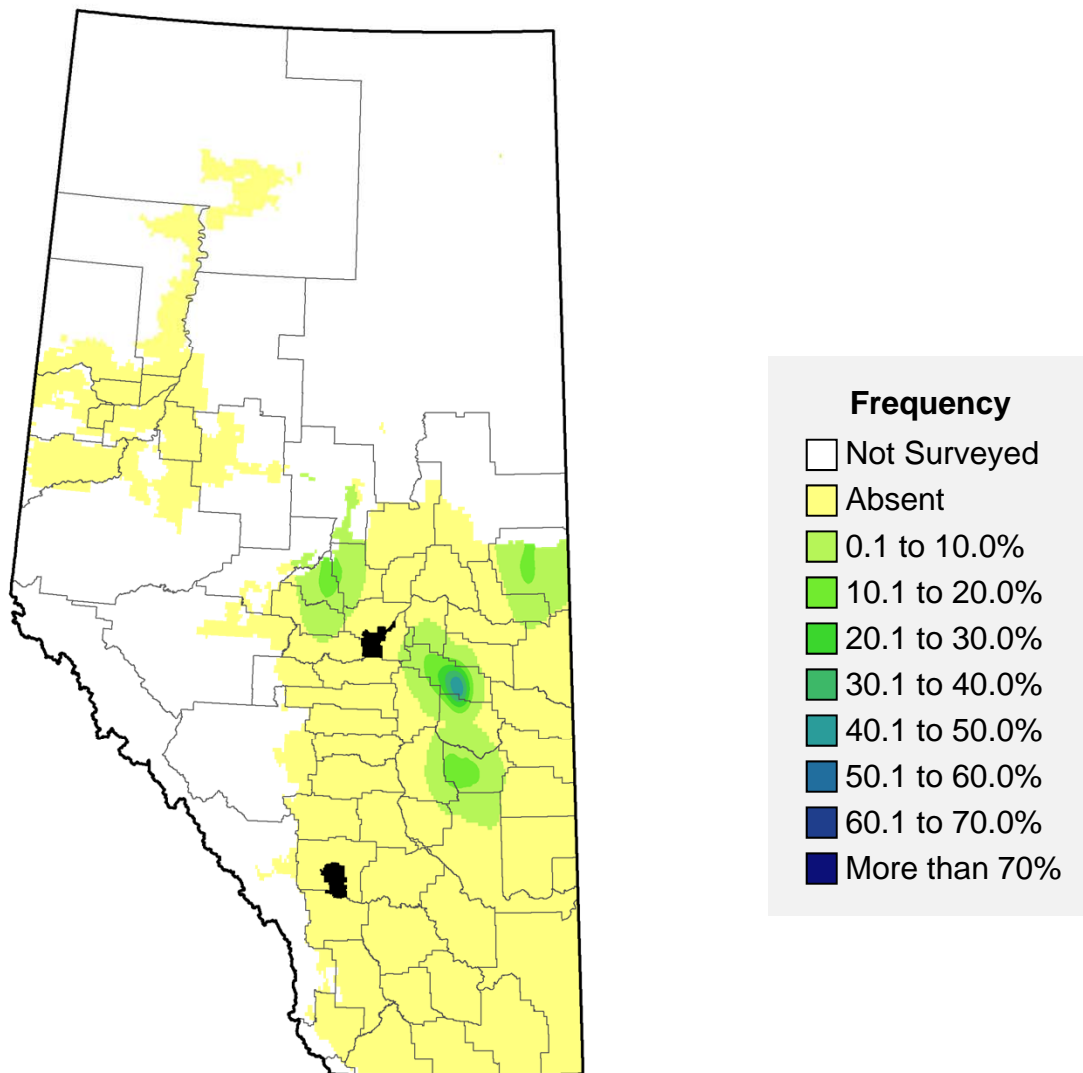
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	21	5.0	1.4	27.0	0.3	5.8	35.4	4.0
Barley	39	2.6	0.4	14.2	< 0.1	0.8	2.0	1.0
Durum	2	36.5	11.7	32.1	1.6	4.4	17.8	41.5
Oat	-	-	-	-	-	-	-	-
Canola	58	0.5	0.1	10.0	< 0.1	0.4	0.4	0.2
Field pea	24	5.6	1.4	25.4	0.2	3.3	10.8	2.6
Perennials	-	-	-	-	-	-	-	-

Scarlet mallow, *Sphaeralcea coccinea*



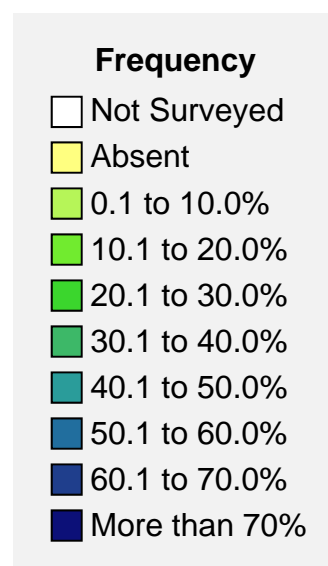
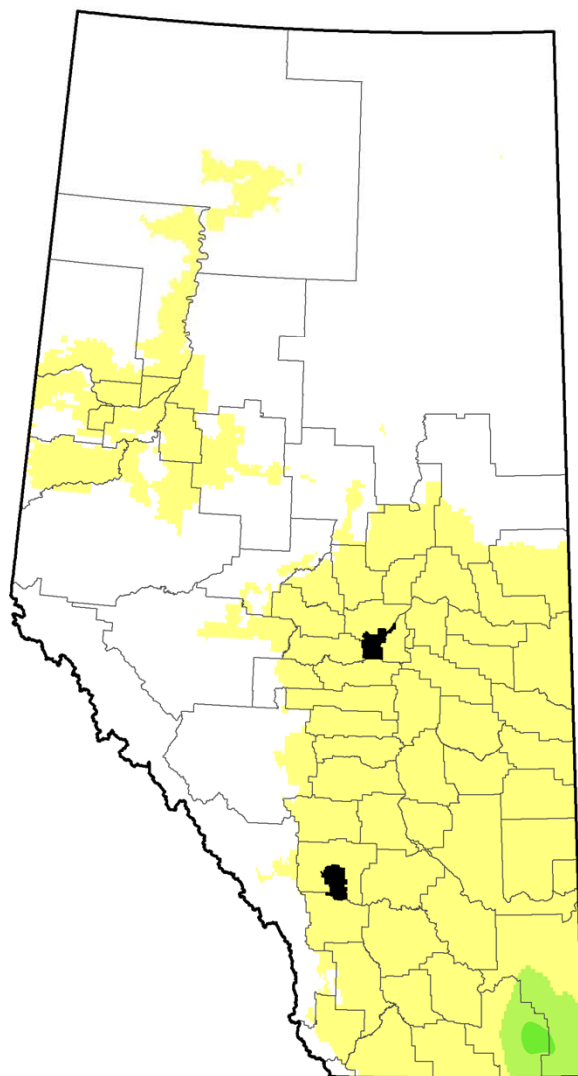
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Durum	24	3.6	0.5	15.0	< 0.1	0.6	2.0
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

Scentless chamomile, *Matricaria perforata*



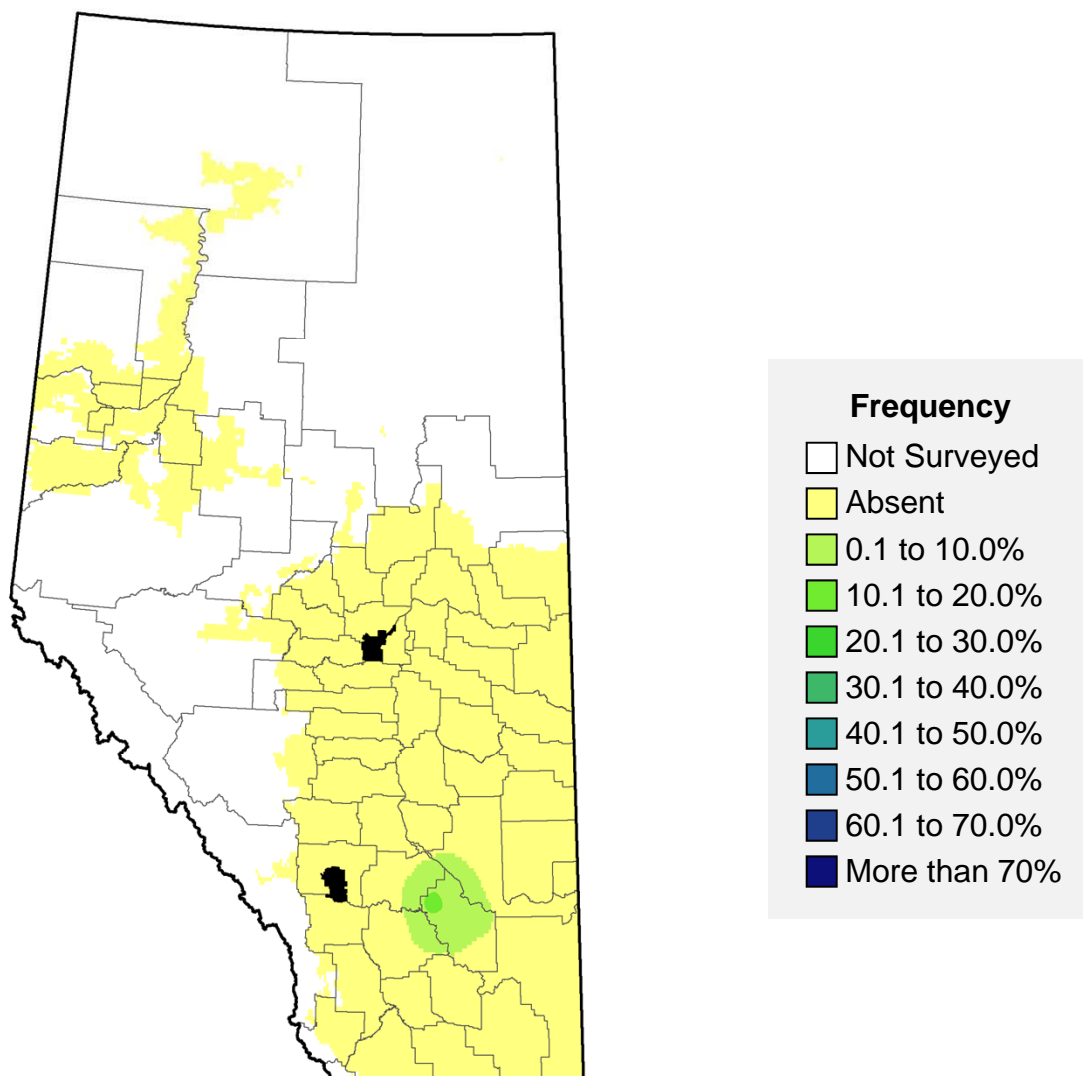
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	60	0.3	0.2	60.0	< 0.1	4.0	4.0	0.3
Barley	29	0.9	0.5	49.3	0.3	28.1	69.2	1.7
Durum	-	-	-	-	-	-	-	-
Oat	56	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
Canola	33	1.5	0.5	32.9	0.1	3.8	8.2	1.4
Field pea	31	4.7	0.9	20.0	0.1	1.2	1.2	1.7
Perennials	-	-	-	-	-	-	-	-

Scouring-rush, *Equisetum hyemale*



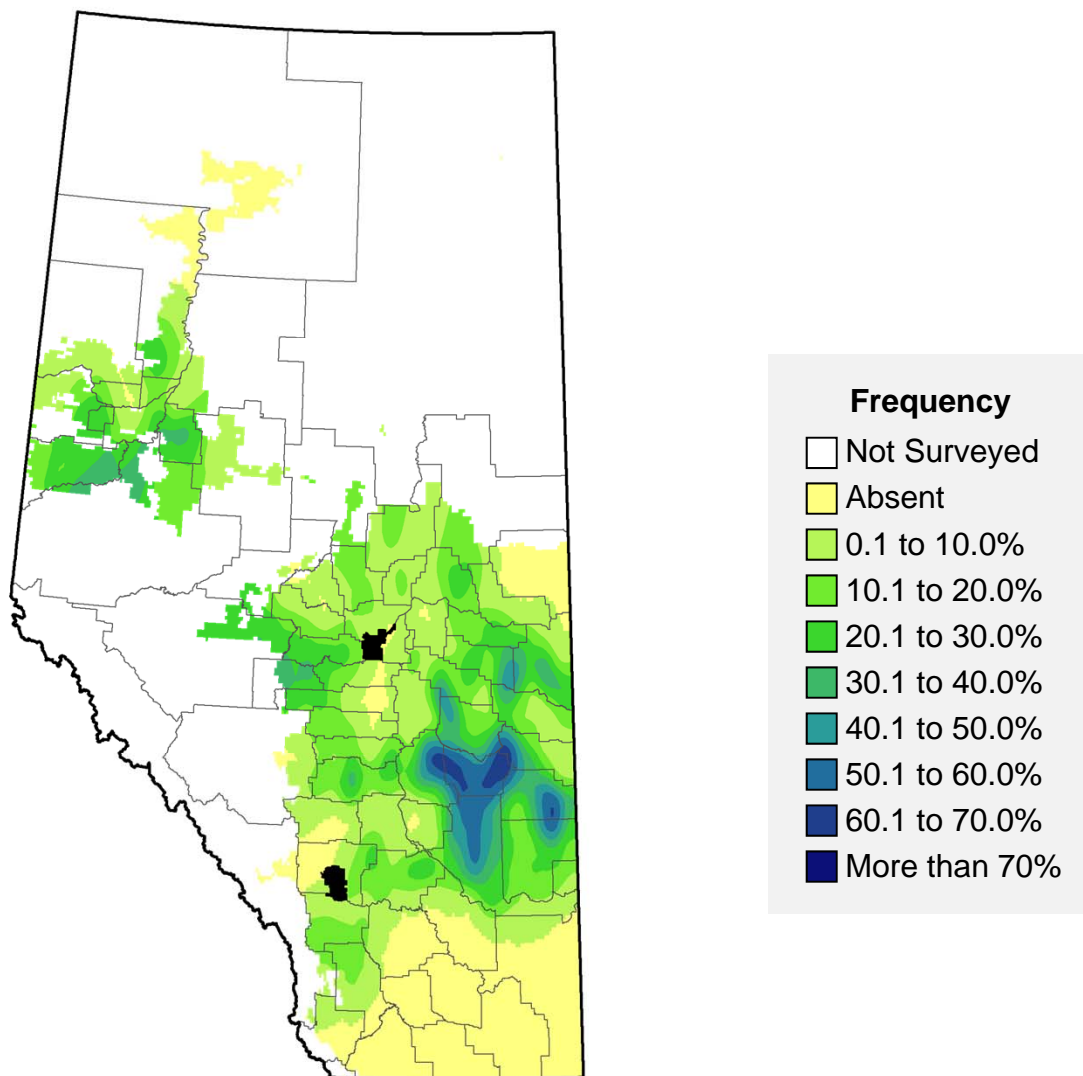
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	69	0.3	0.1	15.0	< 0.1	4.4	4.4	0.2
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Sheep sorrel, *Rumex acetosella* var. *pyrenaicus*



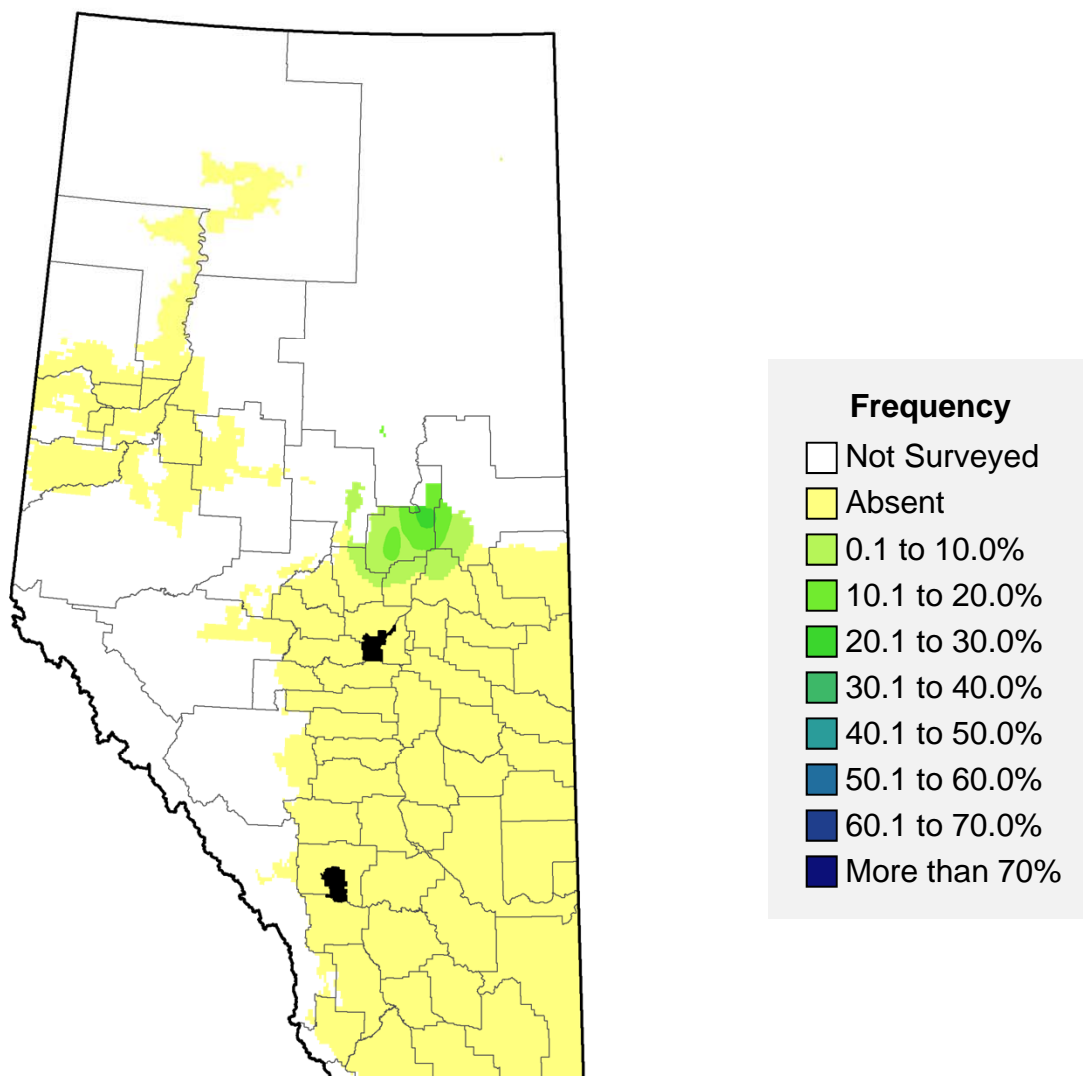
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	83	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Shepherd's-purse, *Capsella bursa-pastoris*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	13	11.7	2.5	21.6	0.5	4.0	32.2	7.6
Barley	20	9.1	1.2	13.2	0.2	1.9	12.0	4.0
Durum	-	-	-	-	-	-	-	-
Oat	16	11.3	4.6	40.9	0.5	4.0	7.2	5.6
Canola	7	15.6	3.9	25.1	0.7	4.6	31.2	14.0
Field pea	16	12.7	4.5	35.1	0.5	4.3	16.6	7.2
Perennials	33	2.8	0.2	7.2	< 0.1	0.7	1.0	1.0

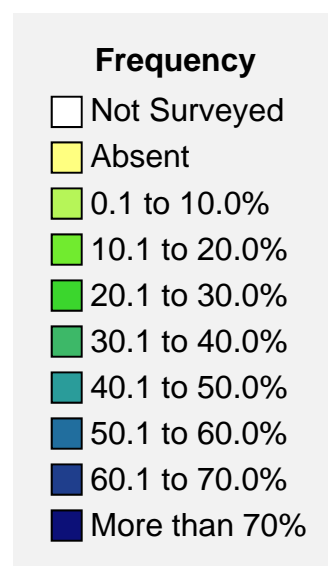
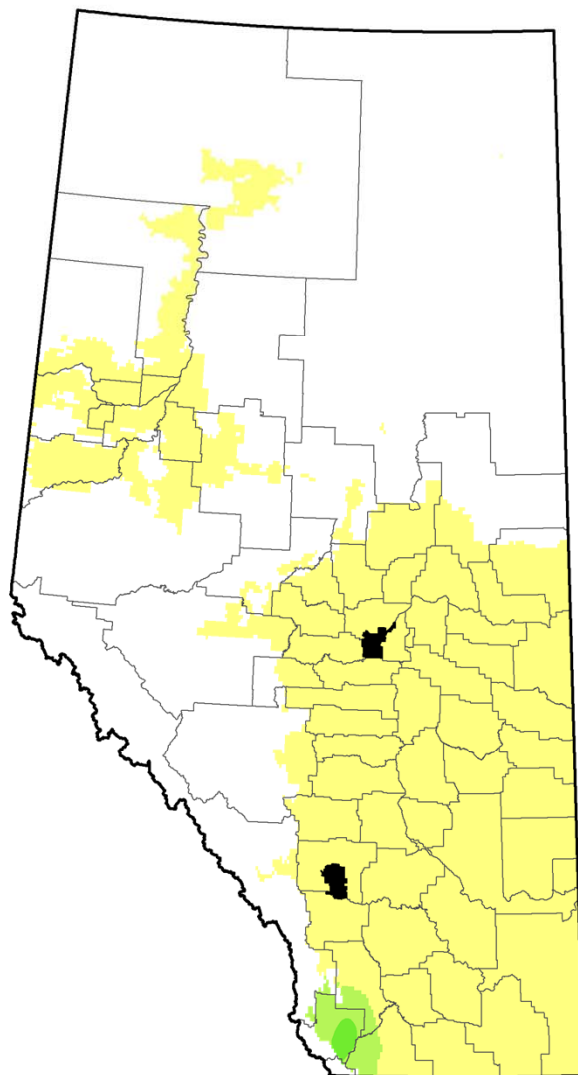
Showy milkweed, *Asclepias speciosa**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	61	0.6	0.1	17.5	< 0.1	1.1	1.4	0.3
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

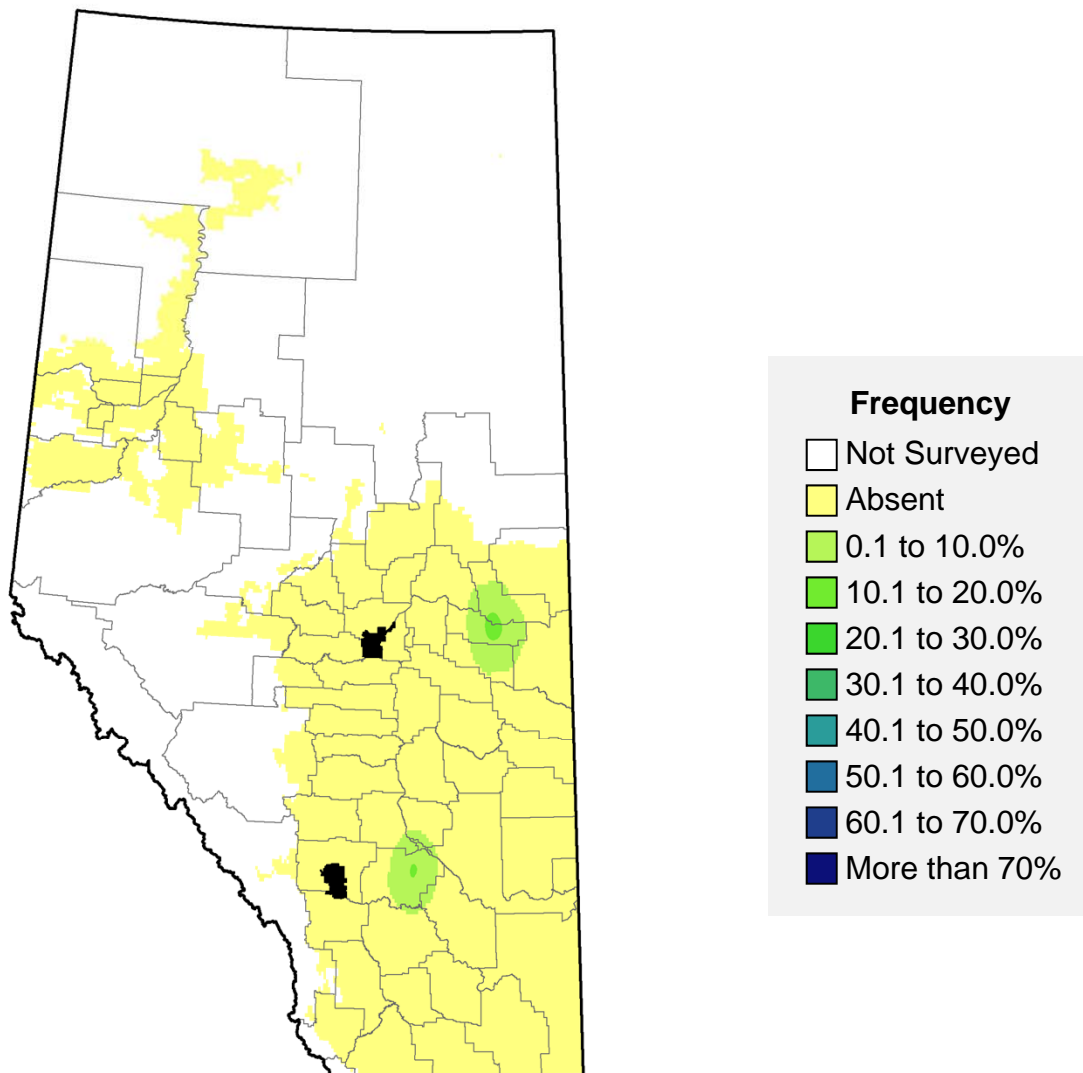
*May include common milkweed (*A. syriaca*)

Silvery lupin, *Lupinus argenteus*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	85	0.2	< 0.1	5.0	< 0.1	0.2	0.1
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

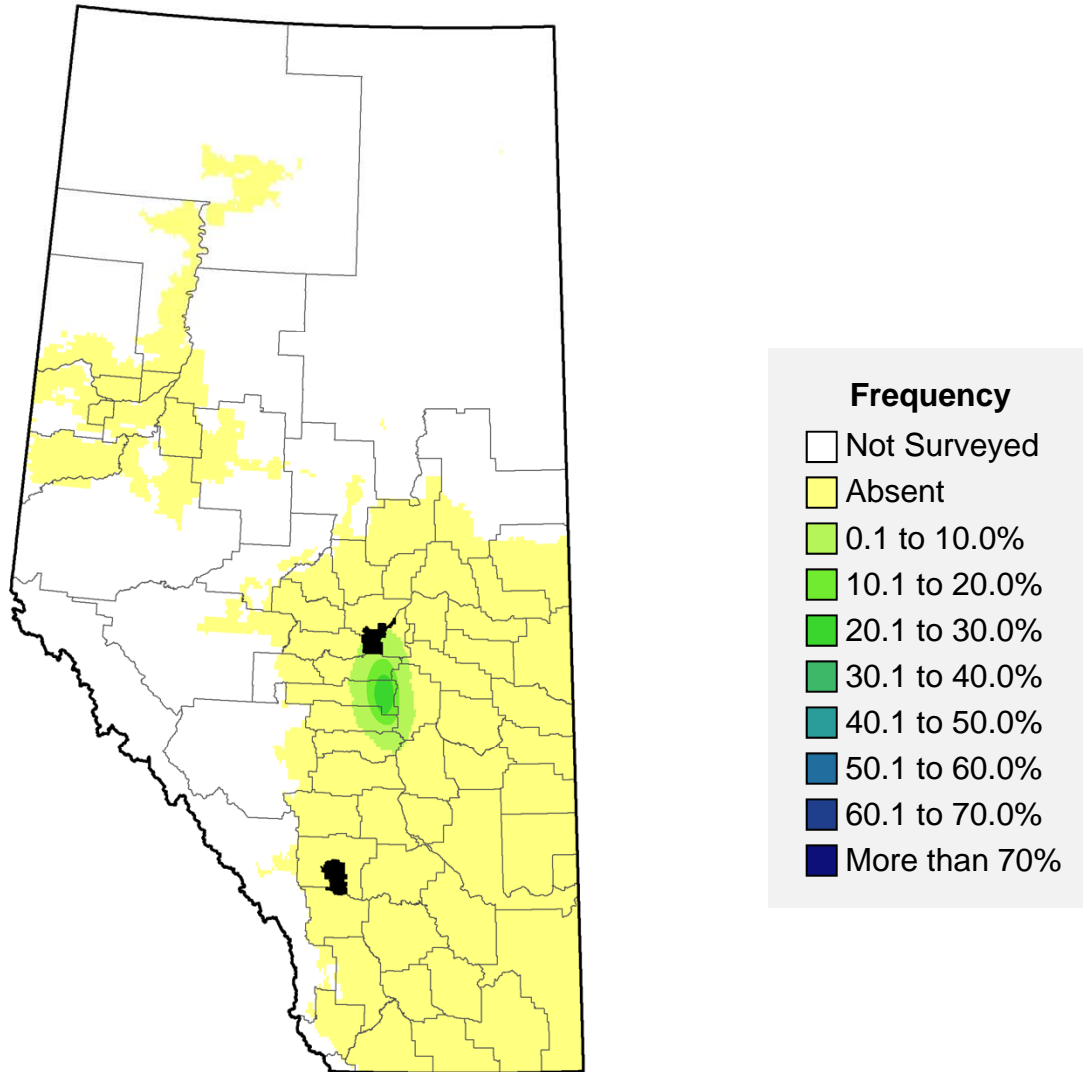
Slender wheat grass, *Elymus trachycaulus**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All Occurrence	High	All Occurrence	High		
Spring wheat	80	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
Barley	76	0.4	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

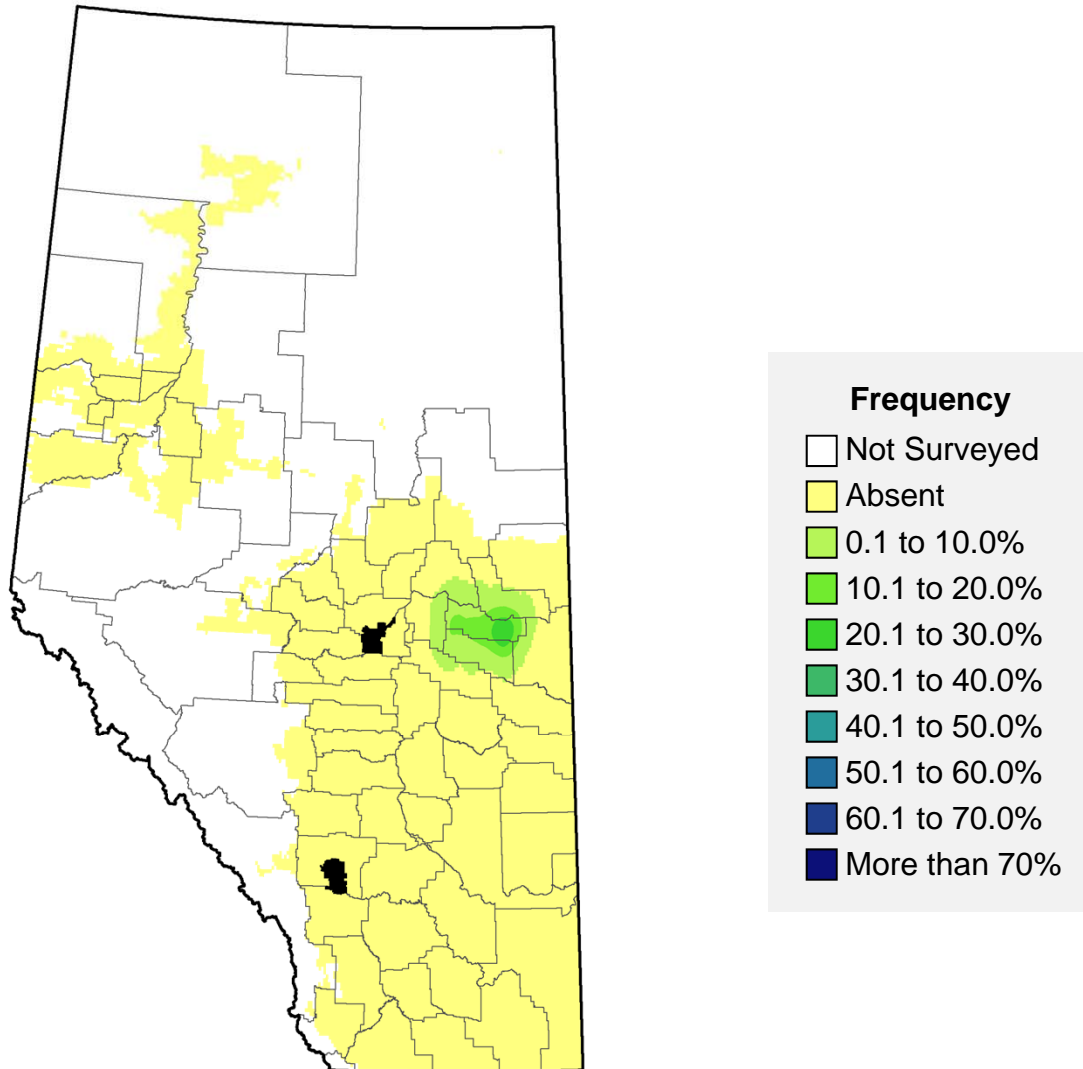
*May include other perennial wheat grass species

Slough grass, *Beckmannia syzigachne*



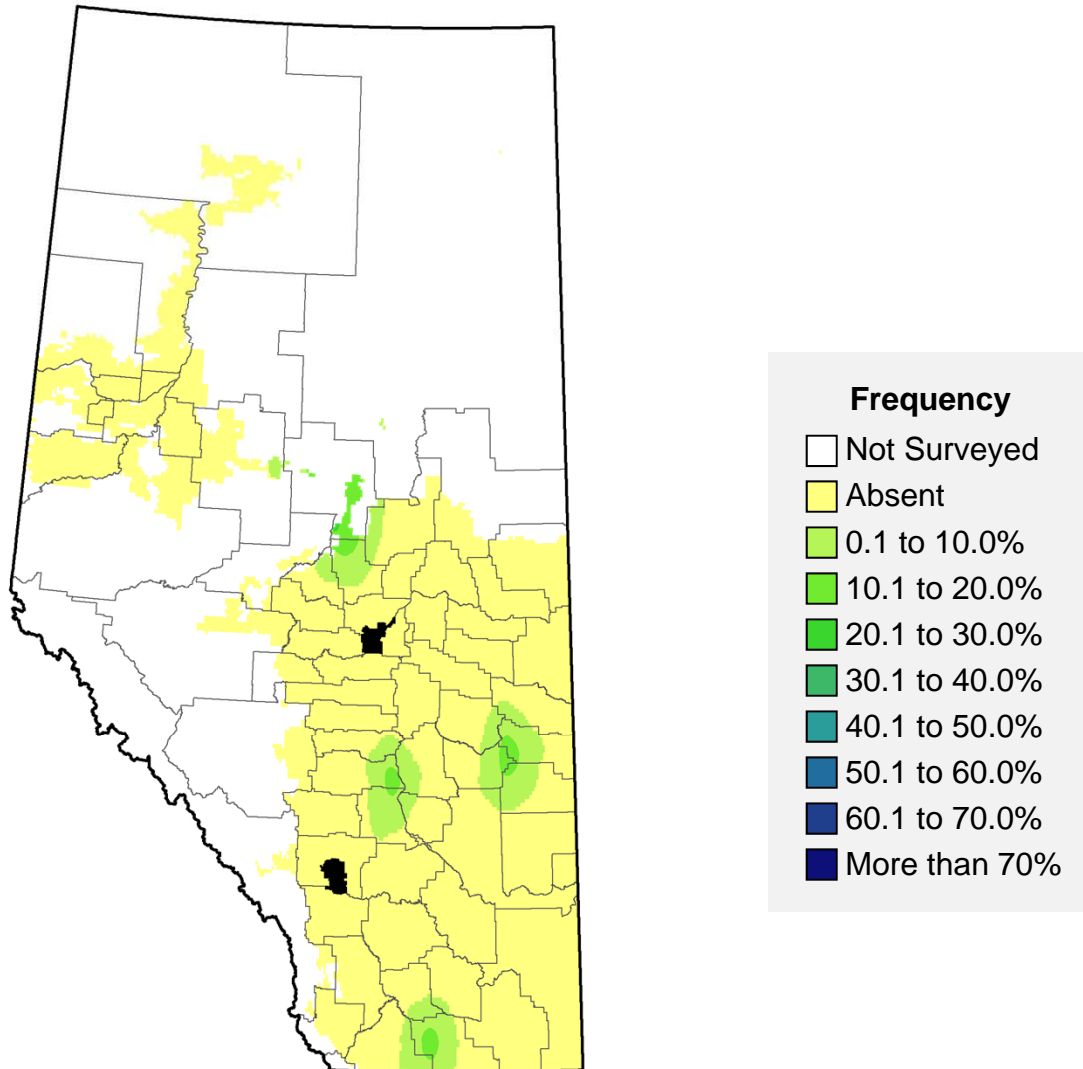
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	32	0.6	0.2	27.5	0.2	37.3	74.2	1.4
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	61	0.4	0.1	15.0	< 0.1	1.0	1.0	0.2
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Small-seeded false flax, *Camelina microcarpa*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	66	0.7	< 0.1	5.0	< 0.1	1.0	2.0	0.2
Barley	62	0.4	0.1	25.0	< 0.1	2.0	2.0	0.2
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	72	0.3	< 0.1	5.0	< 0.1	0.8	0.8	0.1
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

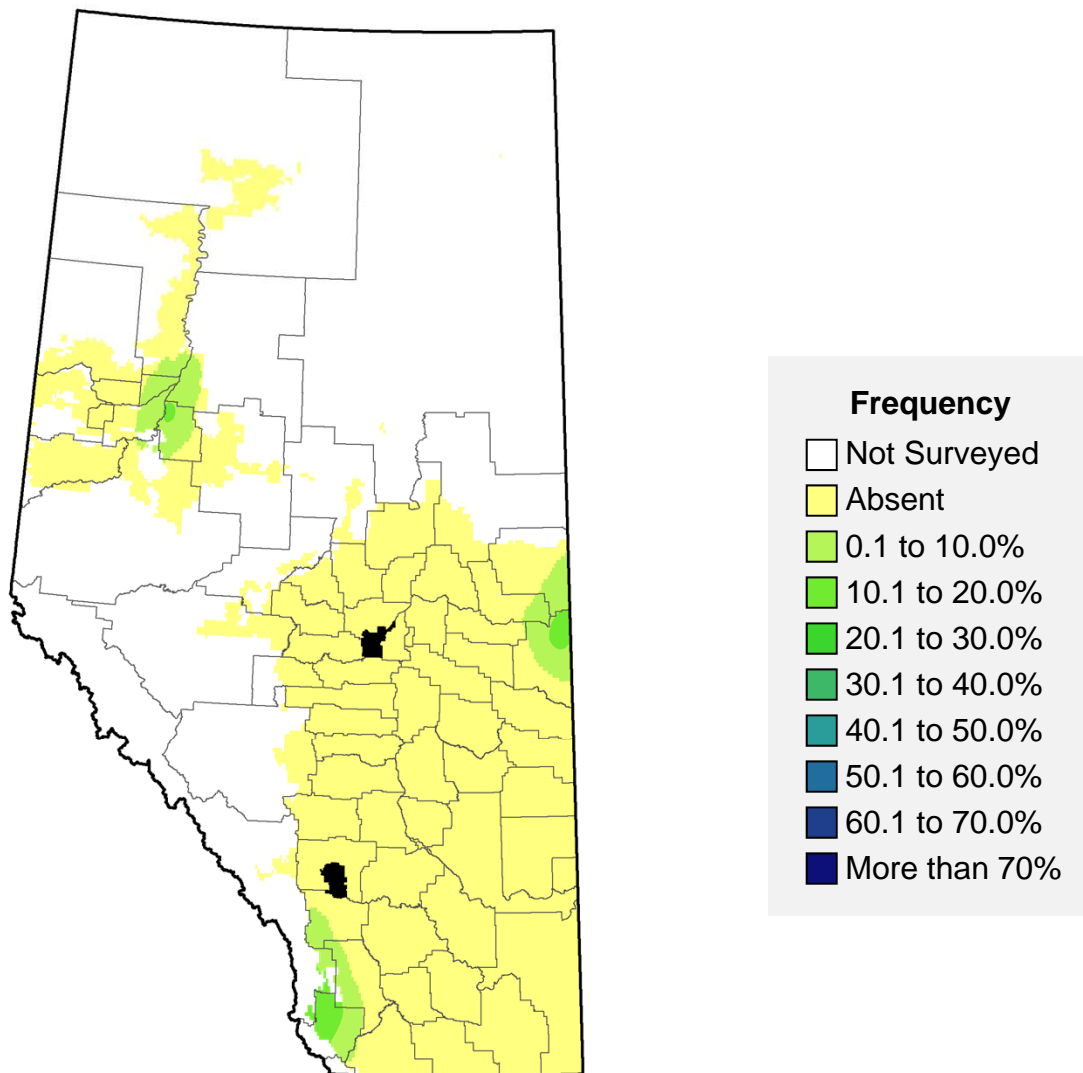
Smooth brome, *Bromus inermis**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All Occurrence	High	All Occurrence	High		
Spring wheat	79	0.3	< 0.1	5.0	< 0.1	1.0	1.0	0.1
Barley	73	0.3	< 0.1	10.0	< 0.1	0.4	0.4	0.1
Durum	-	-	-	-	-	-	-	-
Oat	58	1.4	0.1	5.0	< 0.1	0.2	0.2	0.3
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	8	11.4	2.1	18.8	0.4	3.2	5.2	5.8

*May include other perennial brome species

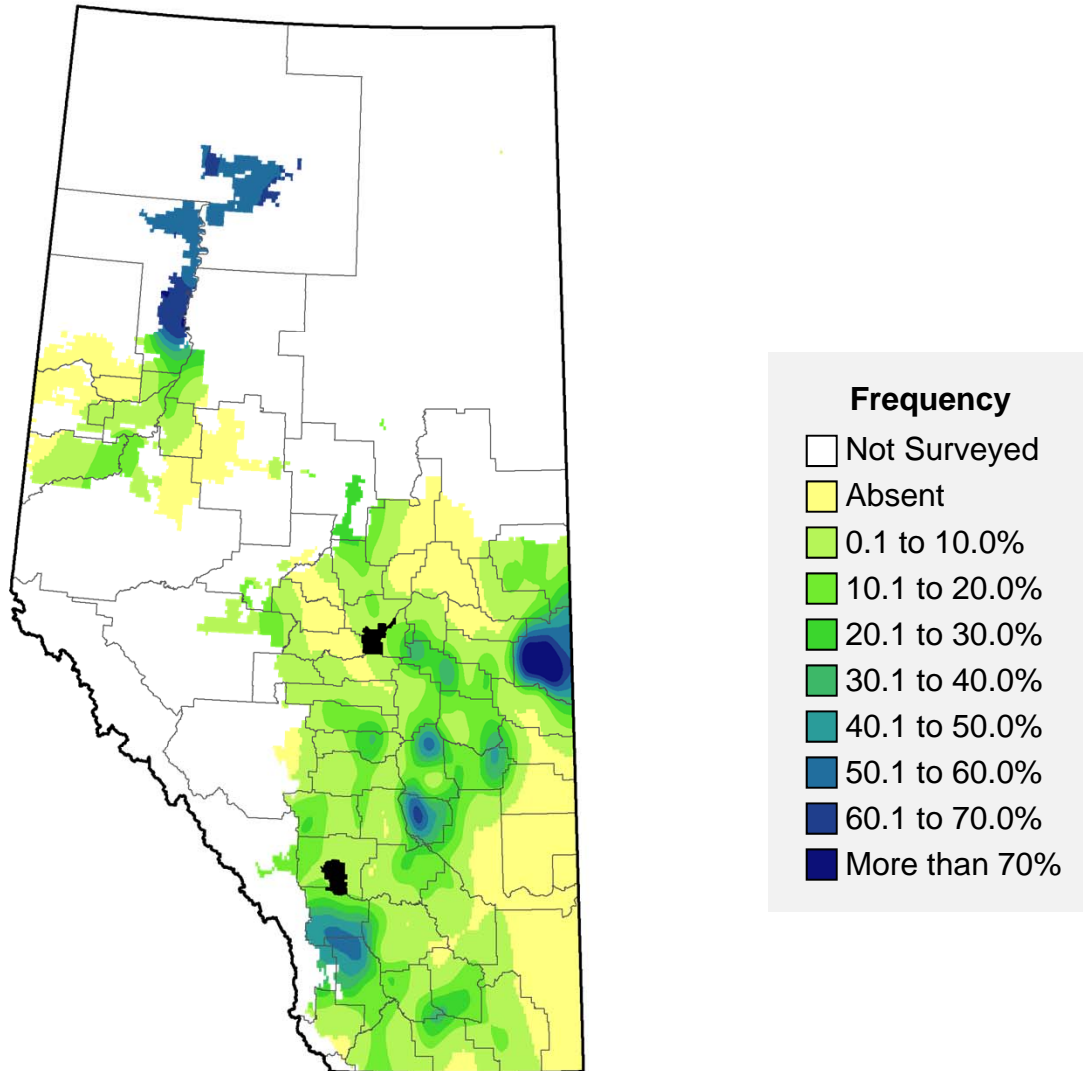
Spear-leaved goosefoot, *Monolepis nuttalliana**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	58	0.9	< 0.1	5.0	< 0.1	0.3	0.3
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	60	0.4	0.1	15.0	< 0.1	1.2	0.2
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

*May include other goosefoot species

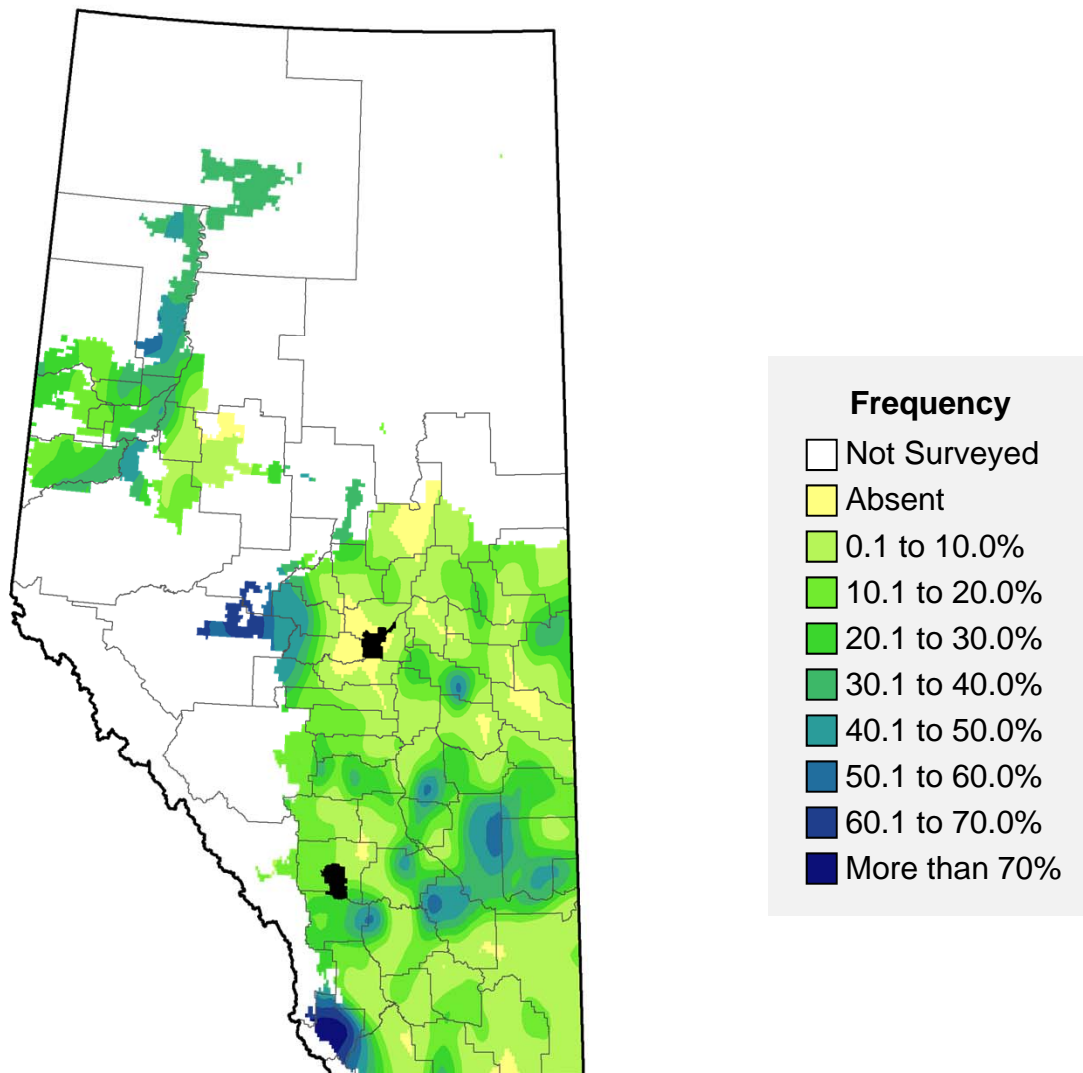
Spiny annual sow-thistle, *Sonchus asper**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	6	12.8	4.9	38.5	1.1	8.3	76.2	13.1
Barley	13	11.9	3.4	28.8	0.6	5.2	37.8	8.6
Durum	14	3.6	1.1	30.0	0.2	4.6	4.6	4.1
Oat	15	11.3	3.9	34.6	0.8	7.3	30.4	5.8
Canola	12	9.2	1.7	19.0	0.7	8.1	101.0	10.1
Field pea	9	28.0	6.4	22.8	0.8	3.0	29.2	12.1
Perennials	11	7.8	2.3	29.9	0.3	3.2	9.8	4.7

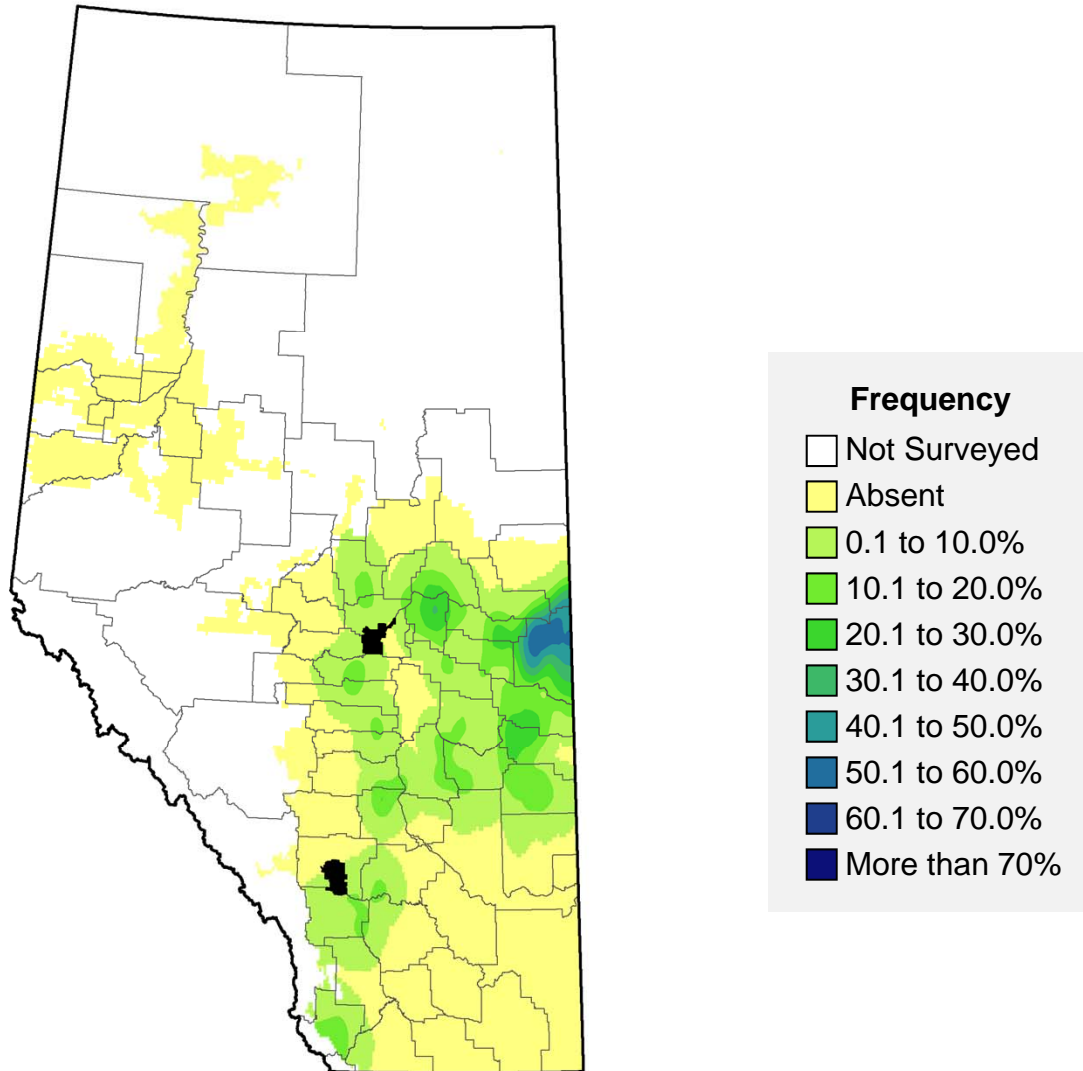
*Includes annual sow-thistle (*S. oleraceus*)

Stinkweed, *Thlaspi arvense*



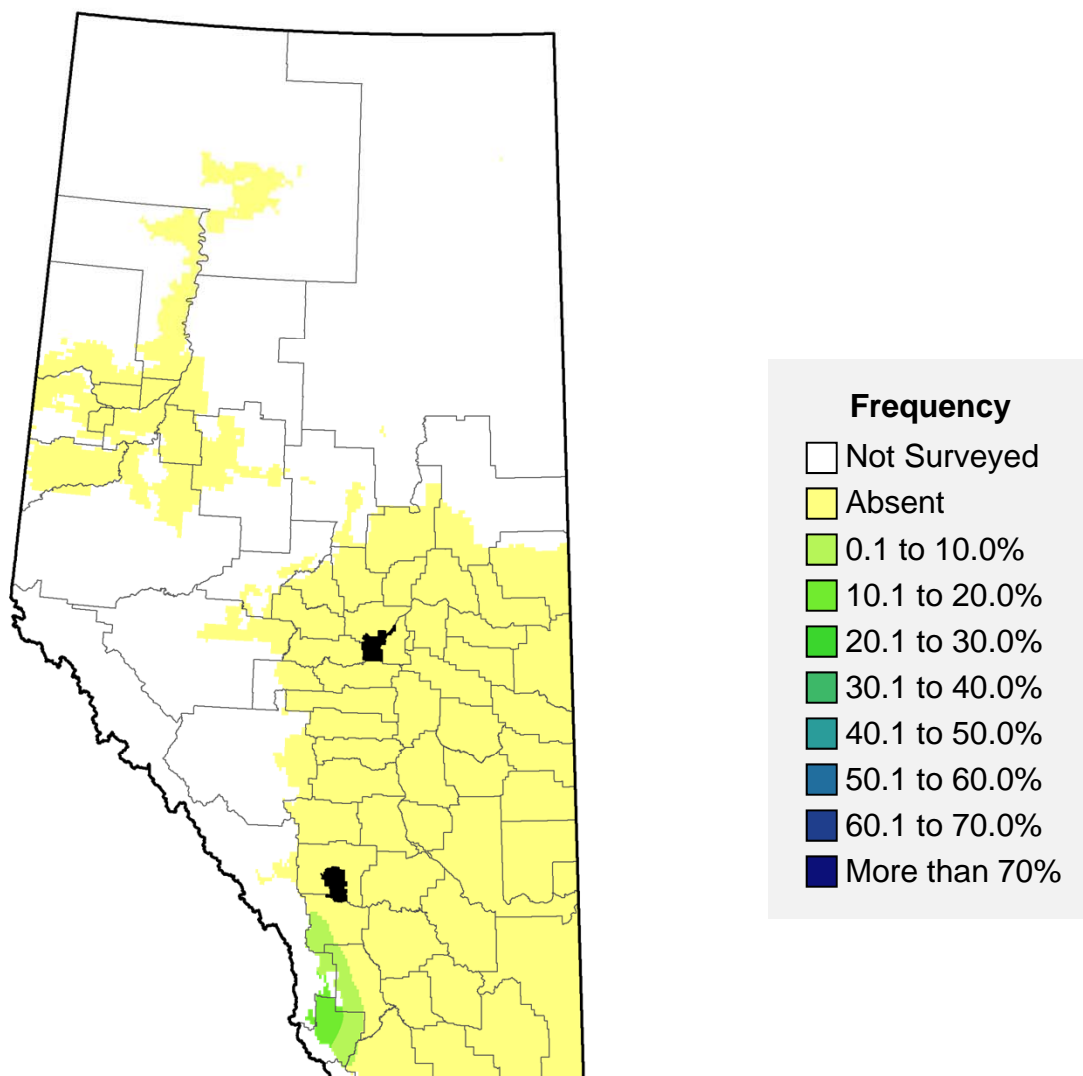
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	20	9.1	1.1	12.3	0.1	1.4	8.8	4.0
Barley	12	14.0	3.1	22.3	0.7	4.7	57.6	9.1
Durum	13	9.5	0.9	9.0	< 0.1	0.4	0.6	4.2
Oat	8	23.4	8.3	35.3	1.8	7.8	38.4	12.4
Canola	9	18.1	3.6	19.7	0.6	3.5	35.2	13.6
Field pea	12	23.8	4.2	17.7	1.2	5.1	11.4	10.9
Perennials	21	10.8	0.5	5.0	< 0.1	0.3	0.4	3.4

Stork's-bill, *Erodium cicutarium*



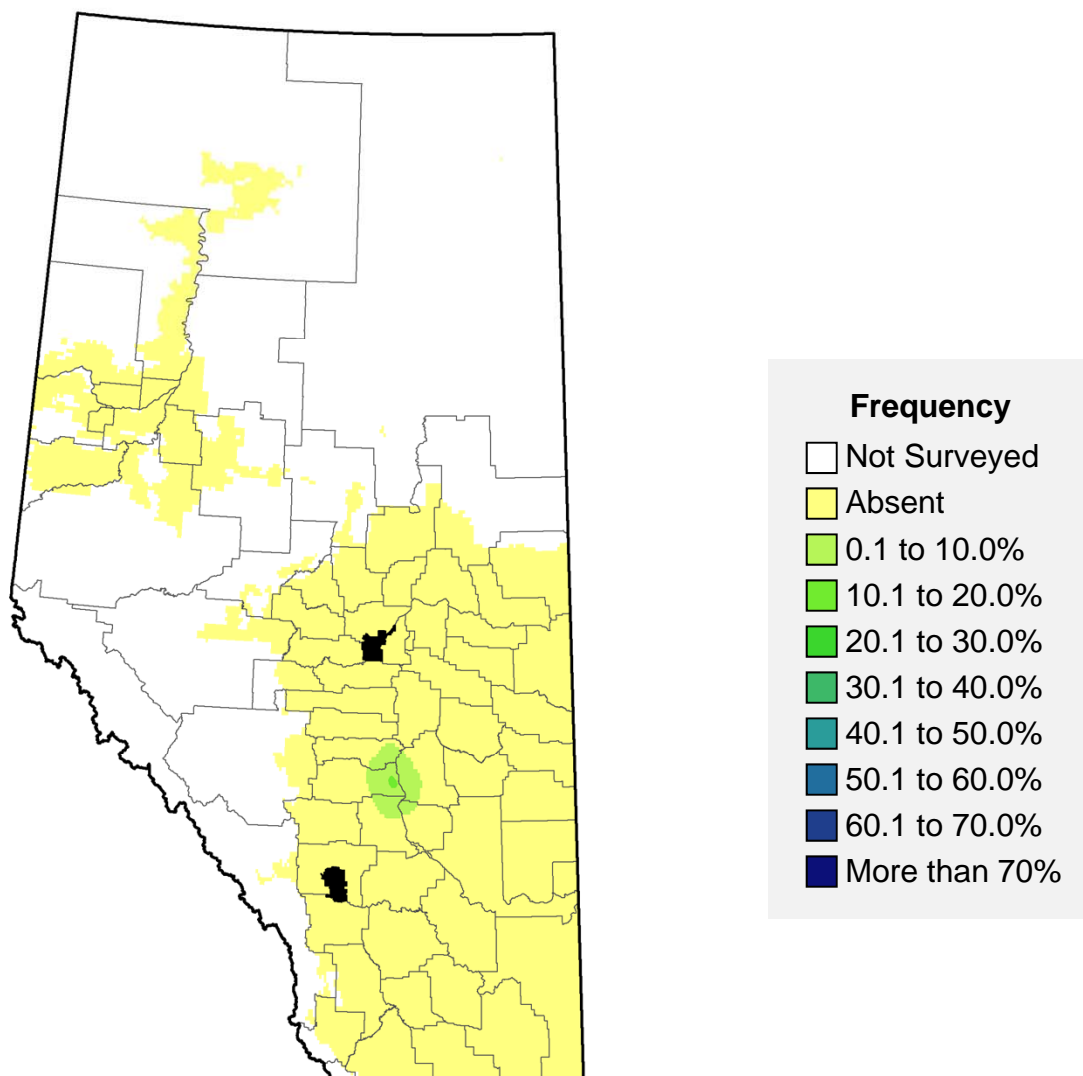
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	31	2.6	0.5	17.2	0.1	3.1	19.6	1.5
Barley	17	7.9	2.4	30.6	0.5	6.9	57.0	6.5
Durum	-	-	-	-	-	-	-	-
Oat	39	3.8	0.4	10.0	< 0.1	0.6	0.6	1.0
Canola	20	4.9	1.1	23.0	0.2	4.3	29.2	4.2
Field pea	53	1.2	0.1	5.0	< 0.1	0.2	0.2	0.2
Perennials	32	3.8	0.3	6.7	< 0.1	0.3	0.4	1.2

Sunflower, *Helianthus spp.*



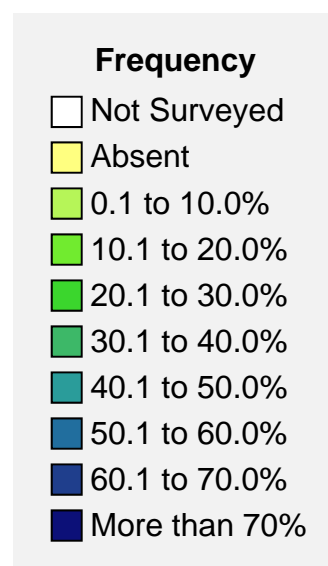
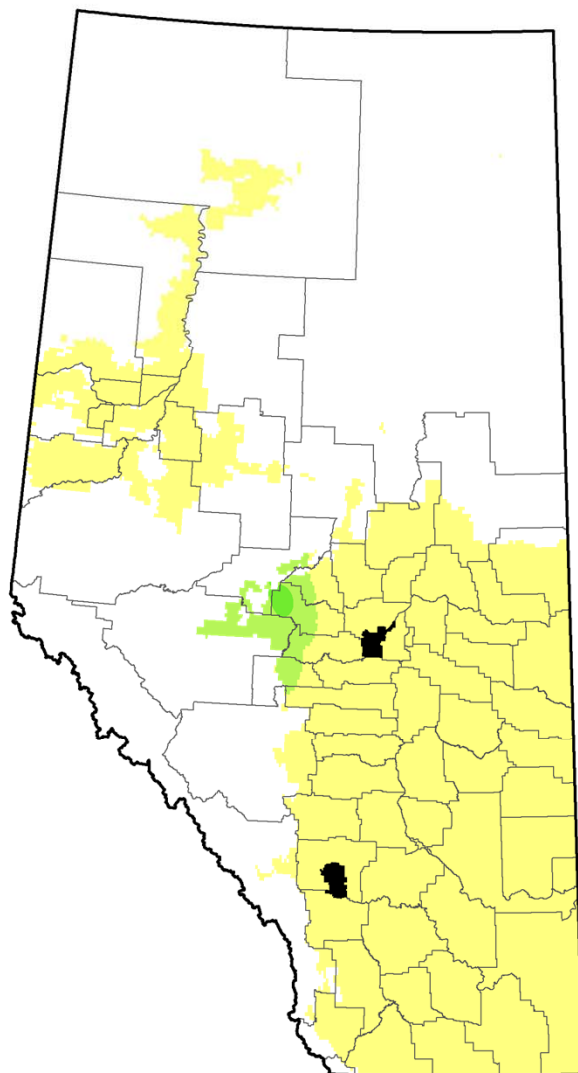
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	68	0.4	< 0.1	5.0	< 0.1	3.2	3.2
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

Sweet grass, *Hierochloe odorata*



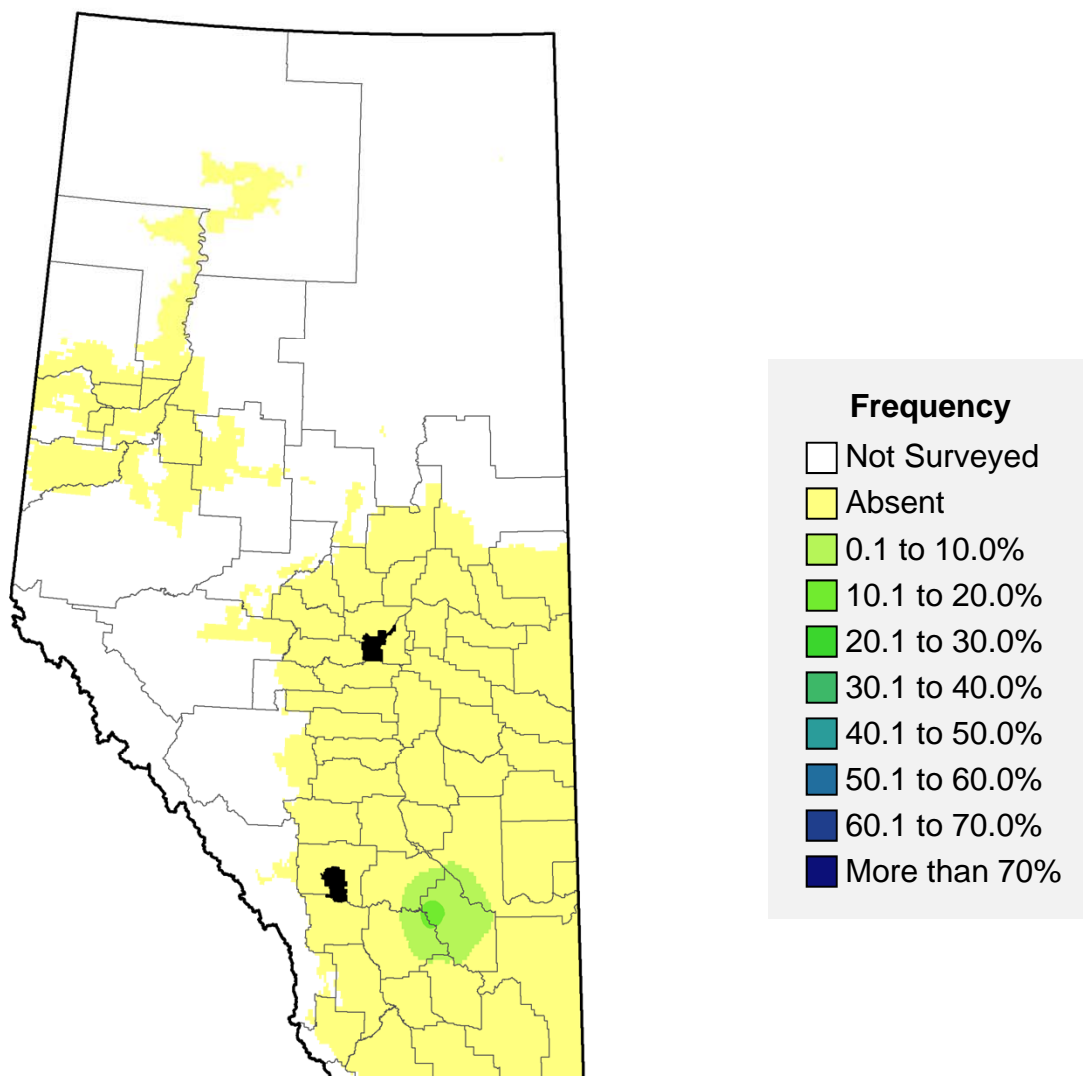
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	High	
Spring wheat	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	26	5.1	0.5	10.0	0.1	1.0	1.0

Tall buttercup, *Ranunculus acris*



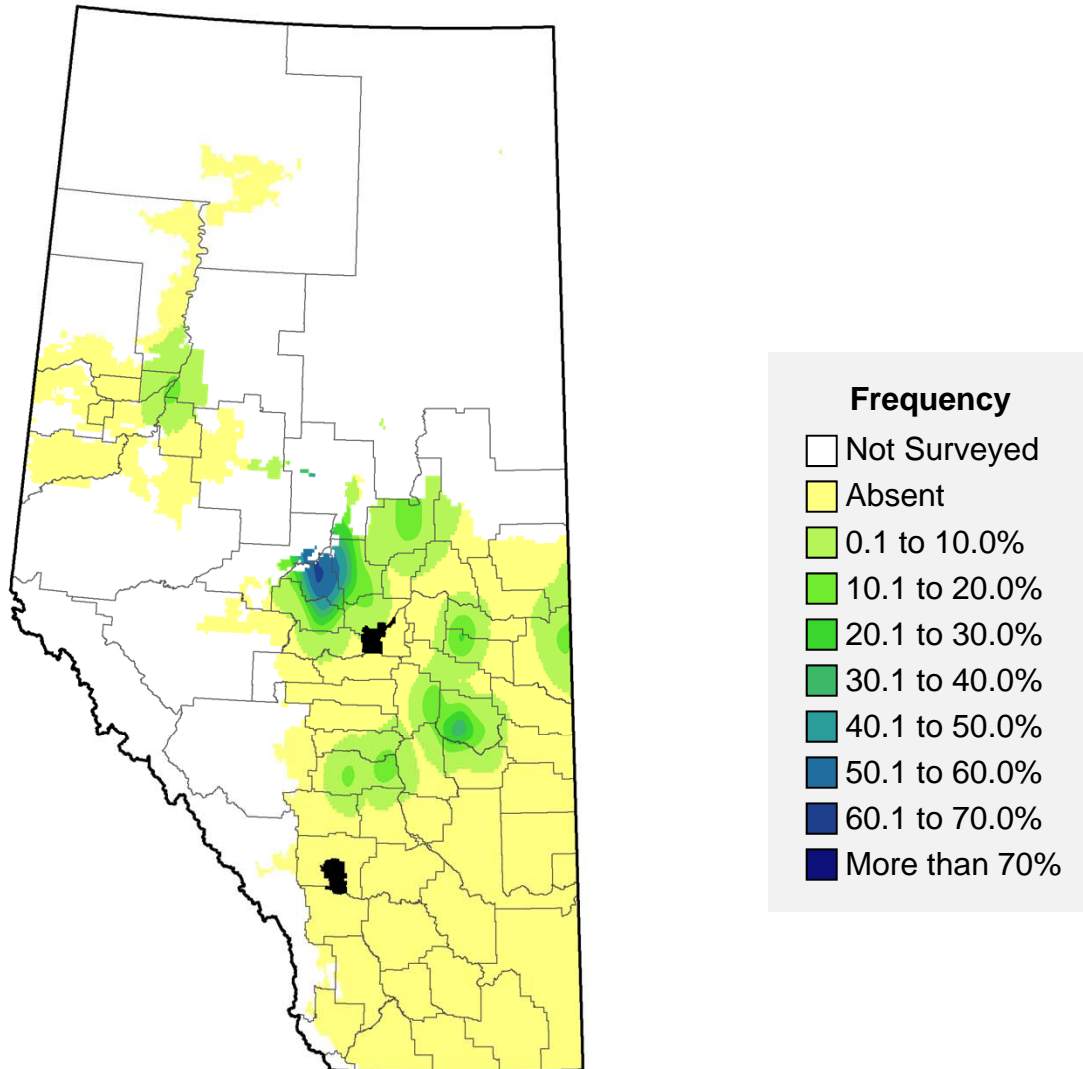
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	48	1.9	0.2	10.0	< 0.1	1.2	1.2	0.5
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Tansy, *Tanacetum vulgare*



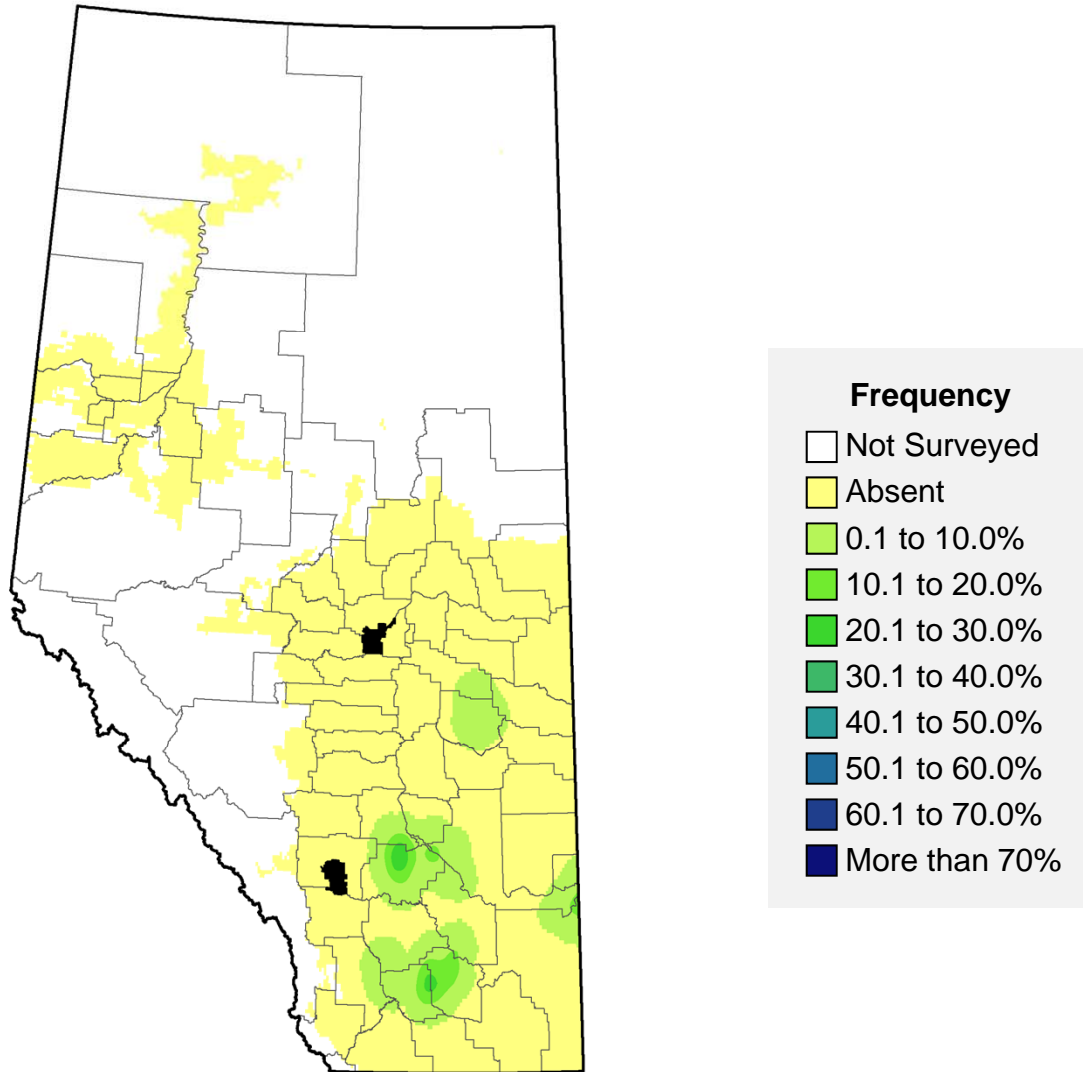
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	High	
Spring wheat	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	62	0.5	< 0.1	5.0	< 0.1	0.6	0.2
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

Tartary buckwheat, *Fagopyrum tataricum*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	27	3.4	1.0	27.9	0.1	2.0	9.6	2.1
Barley	52	0.6	0.2	30.0	< 0.1	2.3	4.0	0.4
Durum	-	-	-	-	-	-	-	-
Oat	35	1.9	1.5	80.0	0.1	6.6	6.6	1.5
Canola	29	3.1	0.5	14.8	0.1	1.7	6.0	1.7
Field pea	18	8.0	3.2	40.5	0.3	3.5	11.8	4.6
Perennials	-	-	-	-	-	-	-	-

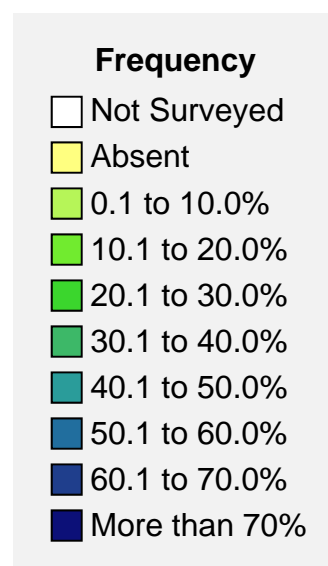
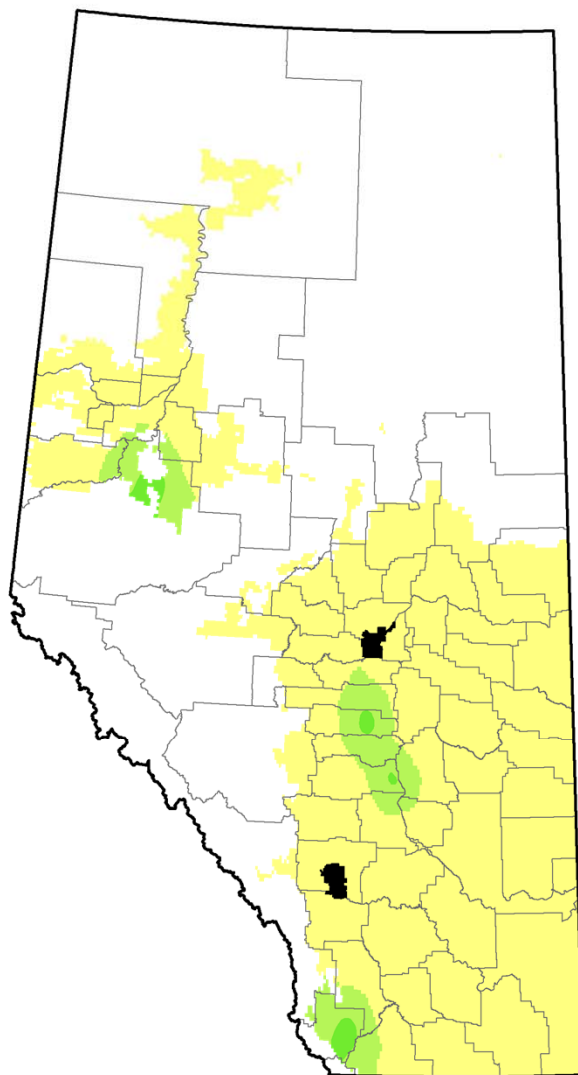
Thyme-leaved spurge, *Euphorbia serpyllifolia**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	87	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
Barley	53	0.8	0.1	16.7	< 0.1	1.5	3.0	0.4
Durum	27	2.3	0.2	10.0	< 0.1	0.6	0.6	1.1
Oat	-	-	-	-	-	-	-	-
Canola	28	1.4	0.6	42.4	0.1	6.3	15.0	1.7
Field pea	45	1.6	0.1	5.0	< 0.1	0.2	0.2	0.4
Perennials	-	-	-	-	-	-	-	-

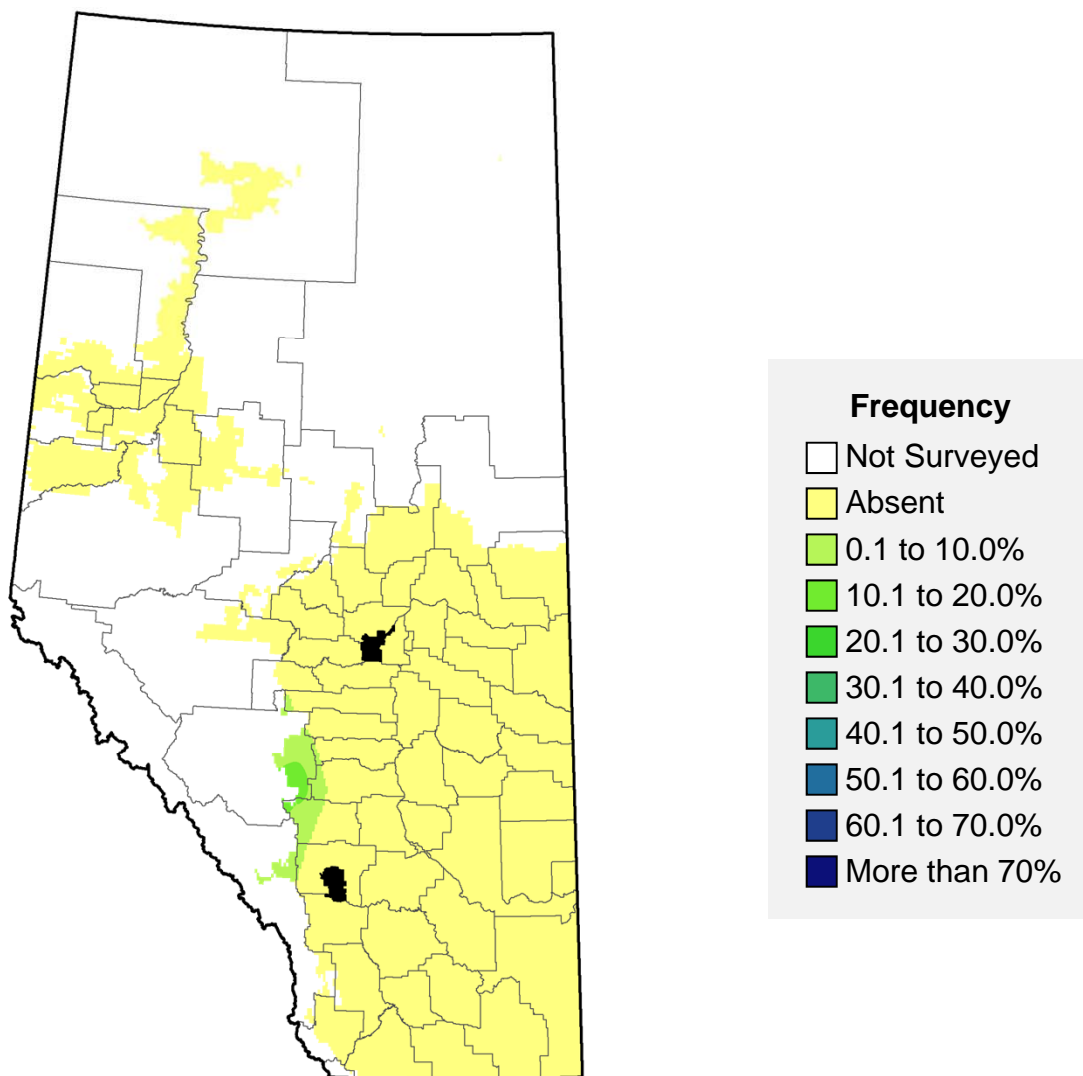
*Includes ridge-seeded spurge (*E. glyptosperma*)

Timothy, *Phleum pratense*



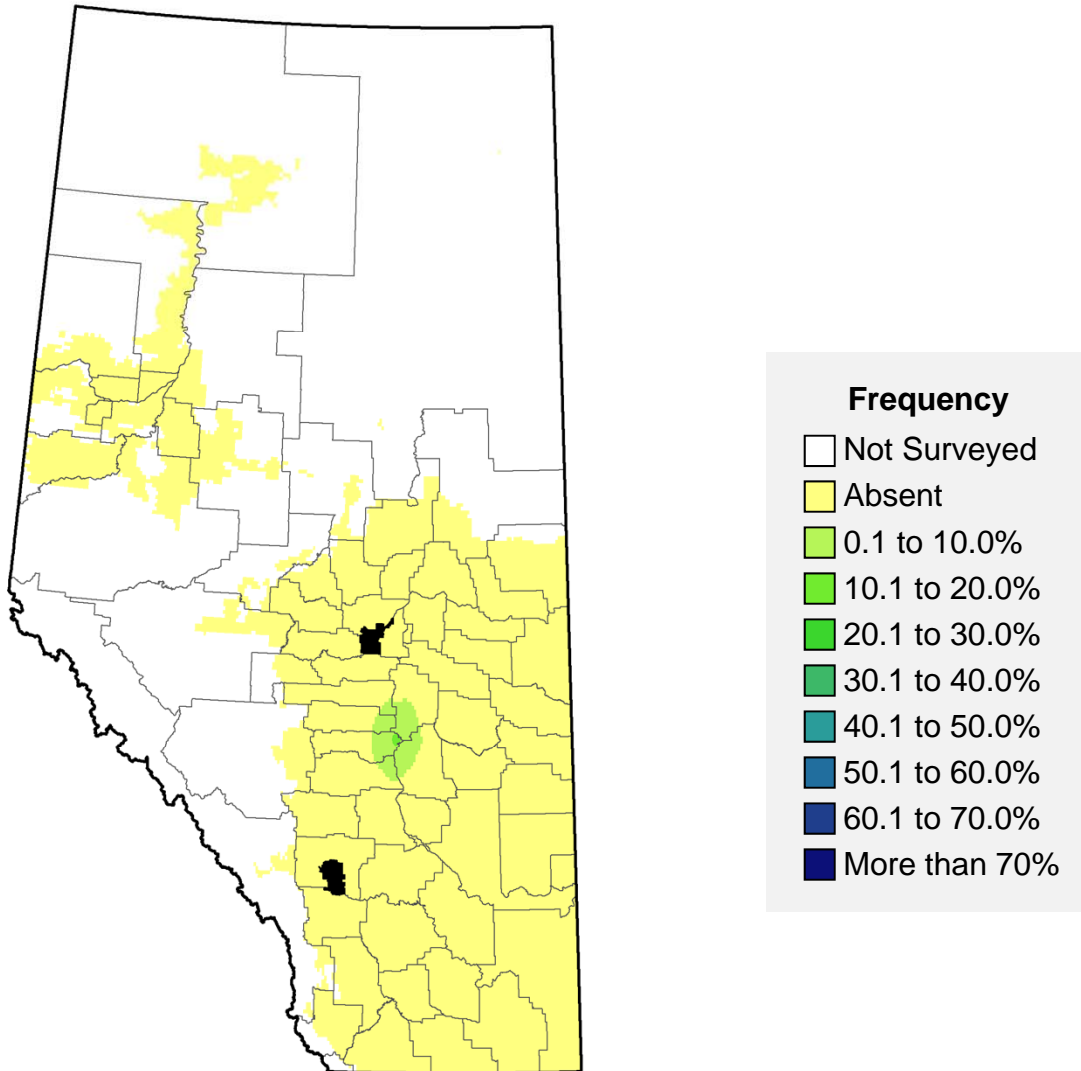
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	-	-	-	-	-	-	-
Barley	86	0.2	< 0.1	5.0	< 0.1	0.2	0.1
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	3	13.1	11.4	86.7	4.1	30.9	81.6

Two-grooved milk-vetch, *Astragalus bisulcatus*



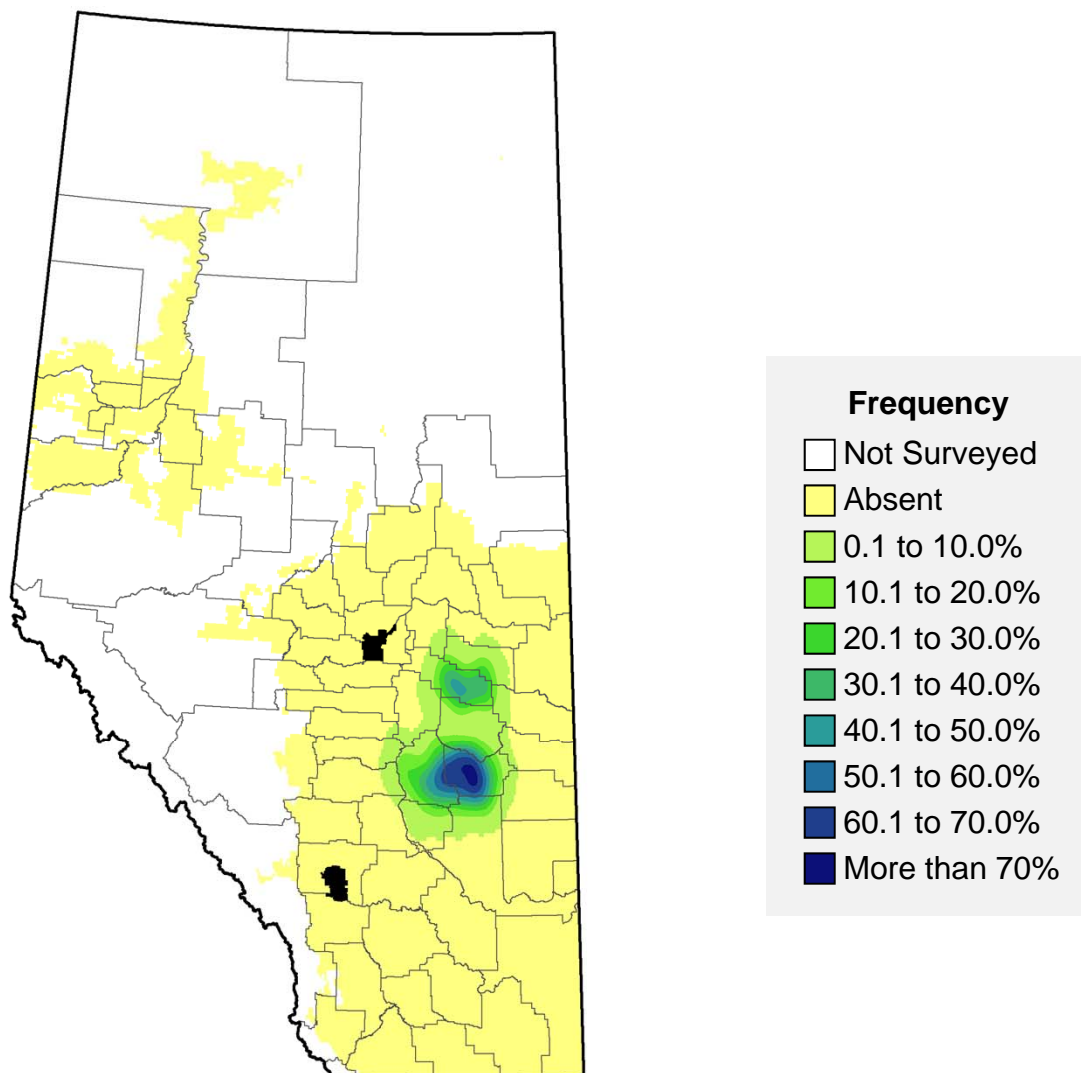
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	-	-	-	-	-	-	-	
Barley	-	-	-	-	-	-	-	
Durum	-	-	-	-	-	-	-	
Oat	-	-	-	-	-	-	-	
Canola	67	0.3	< 0.1	10.0	< 0.1	3.0	3.0	0.2
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Water smartweed, *Polygonum amphibium*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	High		
Spring wheat	89	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

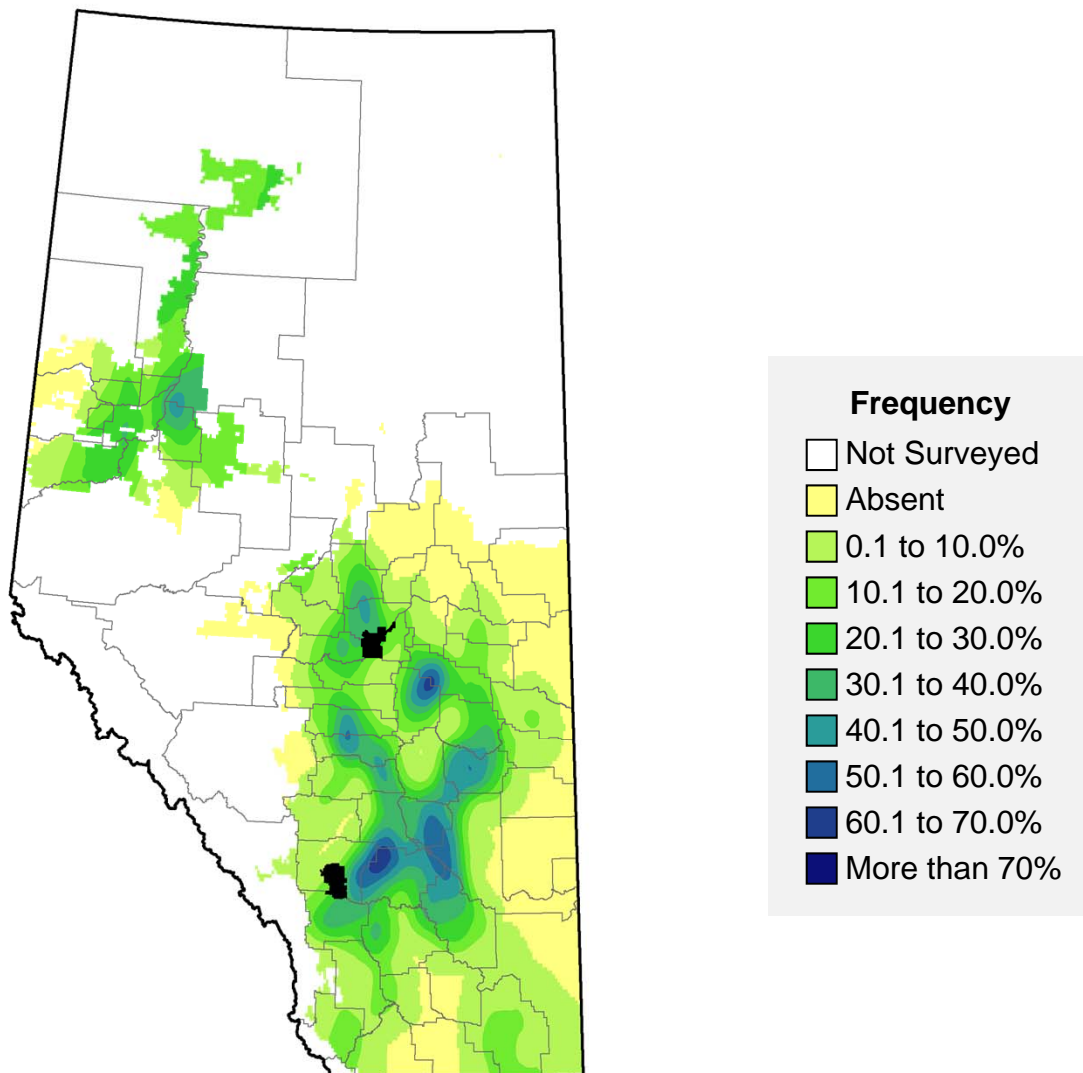
Western marsh cudweed, *Gnaphalium palustre*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	5	3.1	1.1	36.6	2.9	91.8	709.8	15.1
Barley	38	0.9	0.3	29.6	0.2	16.6	33.4	1.1
Durum	-	-	-	-	-	-	-	-
Oat	11	1.6	1.6	95.0	4.8	295.0	295.0	10.0
Canola	16	3.1	0.9	28.4	0.6	18.3	76.0	6.3
Field pea	36	1.2	0.3	30.0	0.2	13.6	13.6	0.9
Perennials	-	-	-	-	-	-	-	-

*Includes low cudweed (*G. uliginosum*)

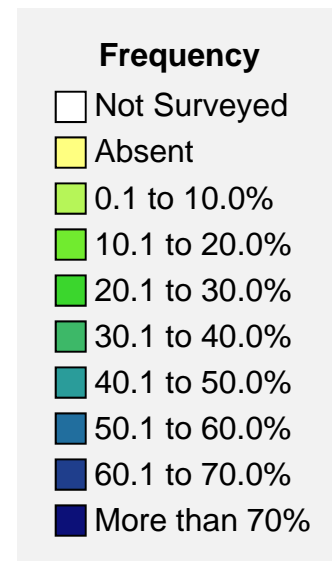
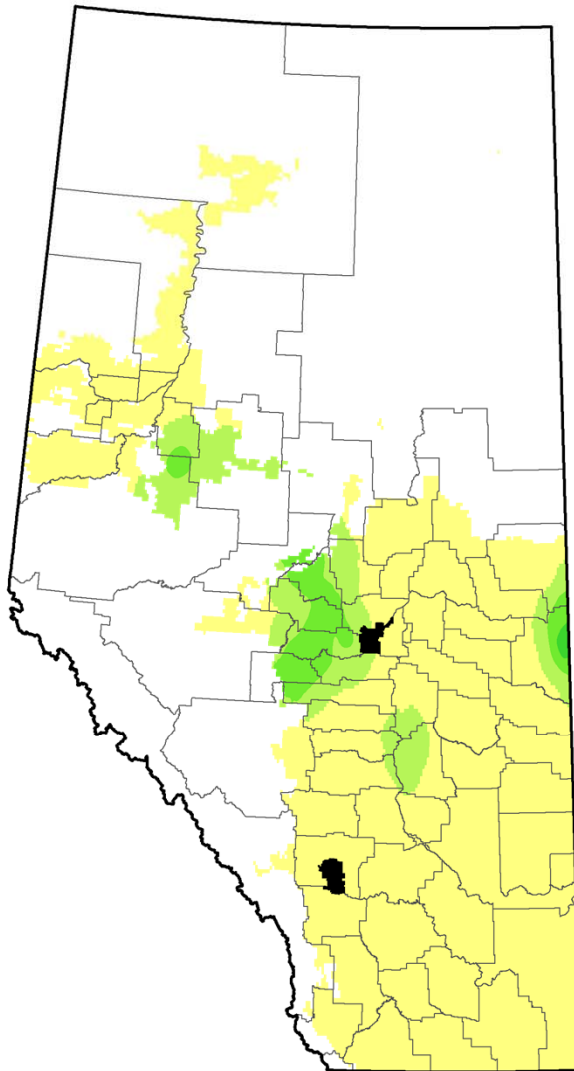
Wheat, *Triticum aestivum**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	29	1.7	0.6	35.9	0.2	10.8	31.8	1.9
Barley	22	5.6	1.4	24.7	0.2	3.8	24.0	3.5
Durum	-	-	-	-	-	-	-	-
Oat	47	1.6	0.3	20.0	< 0.1	2.0	2.0	0.5
Canola	2	25.0	6.7	26.9	0.9	3.5	28.8	21.0
Field pea	13	16.9	5.3	31.6	0.6	3.5	9.8	8.7
Perennials	-	-	-	-	-	-	-	-

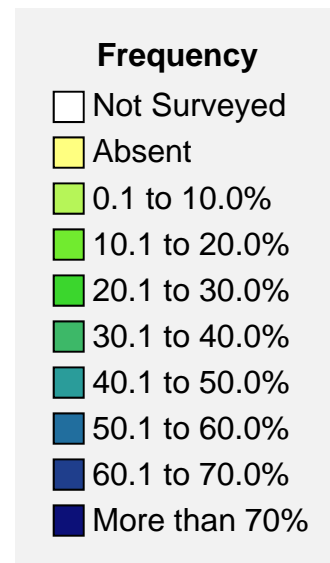
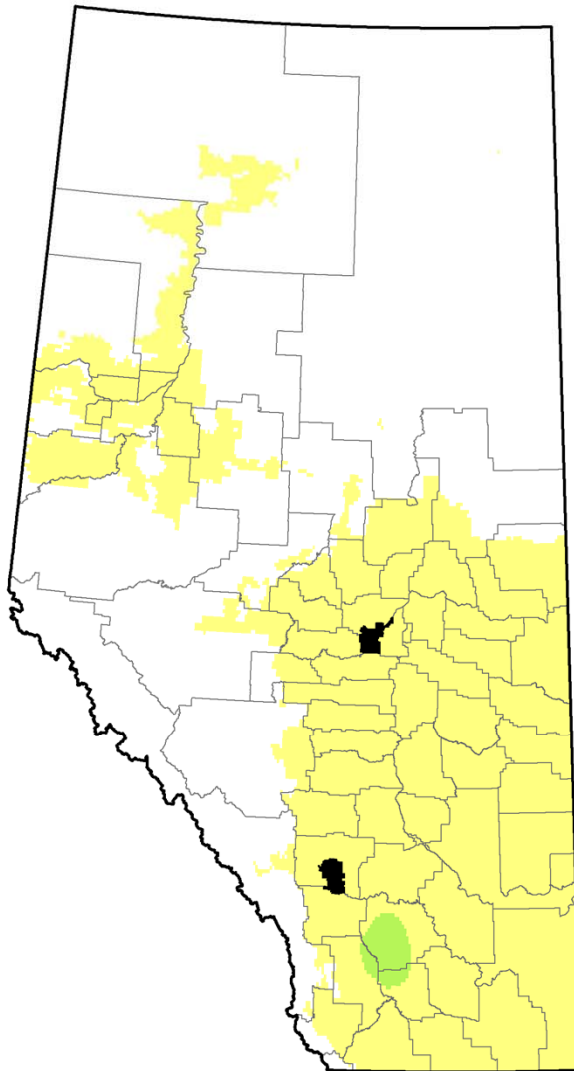
*Includes durum (*T. durum*)

White cockle, *Silene pratensis*



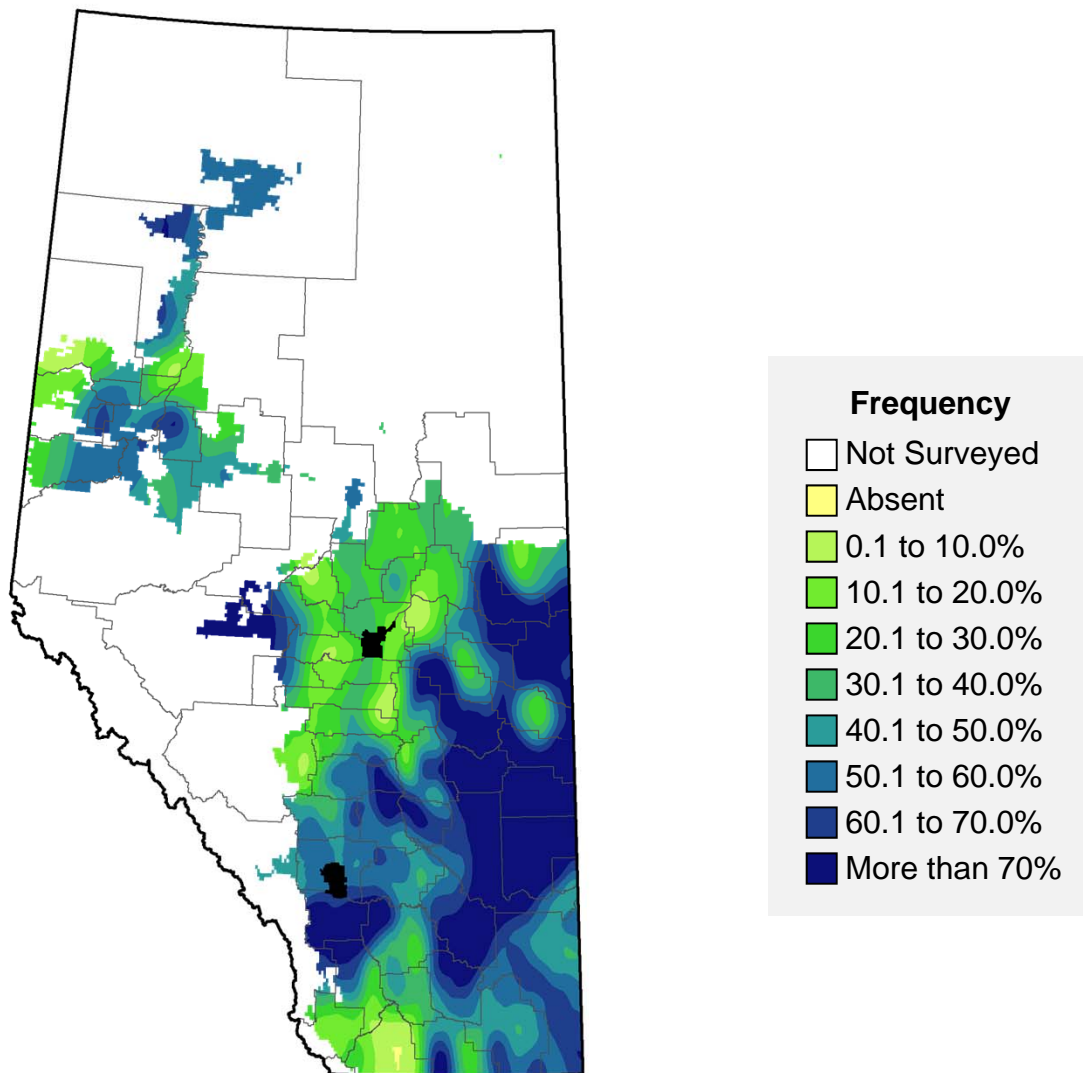
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	73	0.5	< 0.1	5.0	< 0.1	0.7	0.8	0.2
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	21	6.5	1.5	23.0	0.9	13.7	26.4	3.7
Canola	55	0.4	0.1	30.0	< 0.1	1.6	1.6	0.3
Field pea	37	1.0	0.6	60.0	0.1	6.8	6.8	0.8
Perennials	-	-	-	-	-	-	-	-

White mustard, *Sinapis alba*



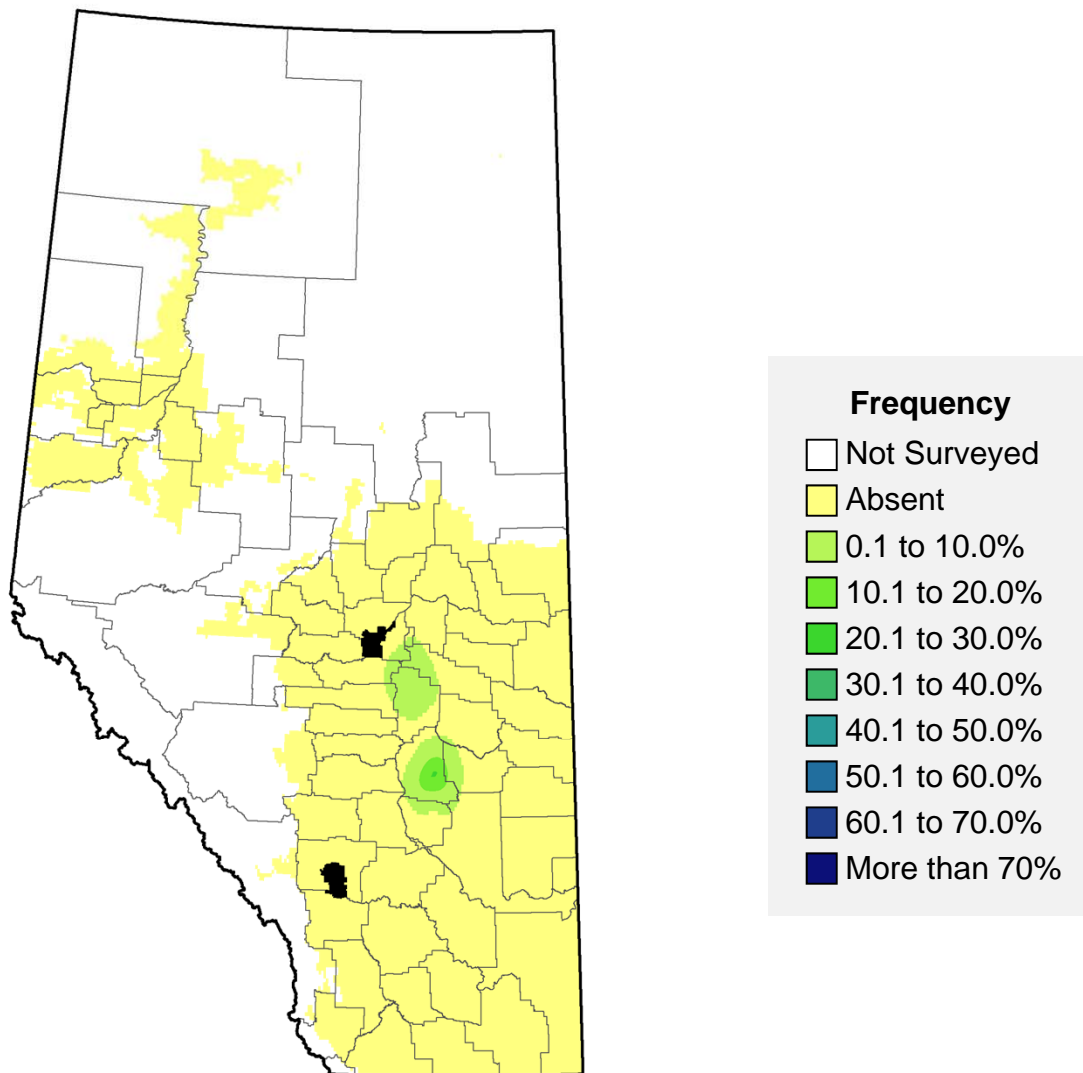
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	High		
Spring wheat	91	0.2	< 0.1	5.0	< 0.1	0.4	0.4	0.1
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Wild buckwheat, *Polygonum convolvulus*



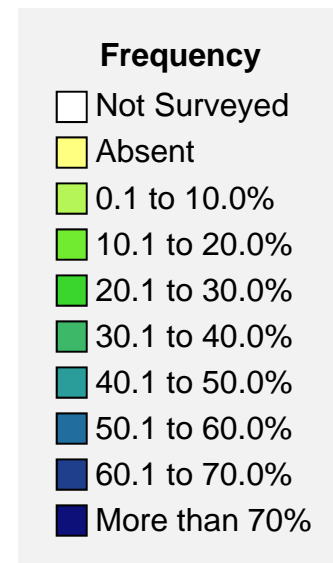
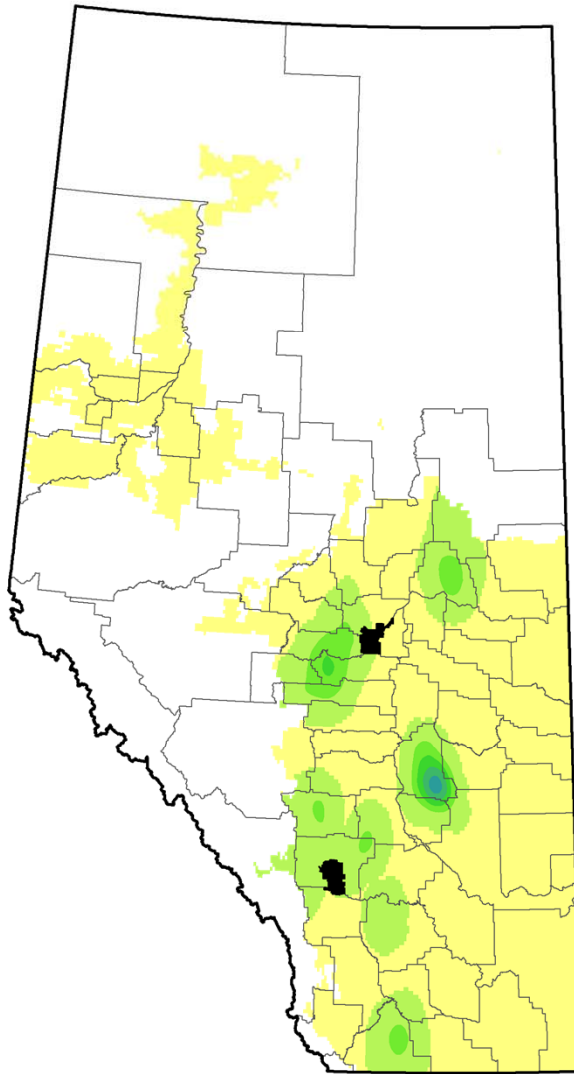
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	1	55.9	19.2	34.4	2.5	4.4	74.2	45.1
Barley	1	48.8	15.4	31.6	3.4	7.0	313.6	40.5
Durum	4	43.6	6.5	14.9	0.4	0.9	2.8	25.0
Oat	3	49.3	16.9	34.3	2.5	5.0	18.2	23.2
Canola	1	47.2	13.7	29.0	1.6	3.4	72.8	40.2
Field pea	3	47.8	11.2	23.5	1.2	2.5	20.8	20.2
Perennials	7	17.9	1.6	9.0	0.1	0.5	1.0	6.3

Wild chamomile, *Matricaria recutita*



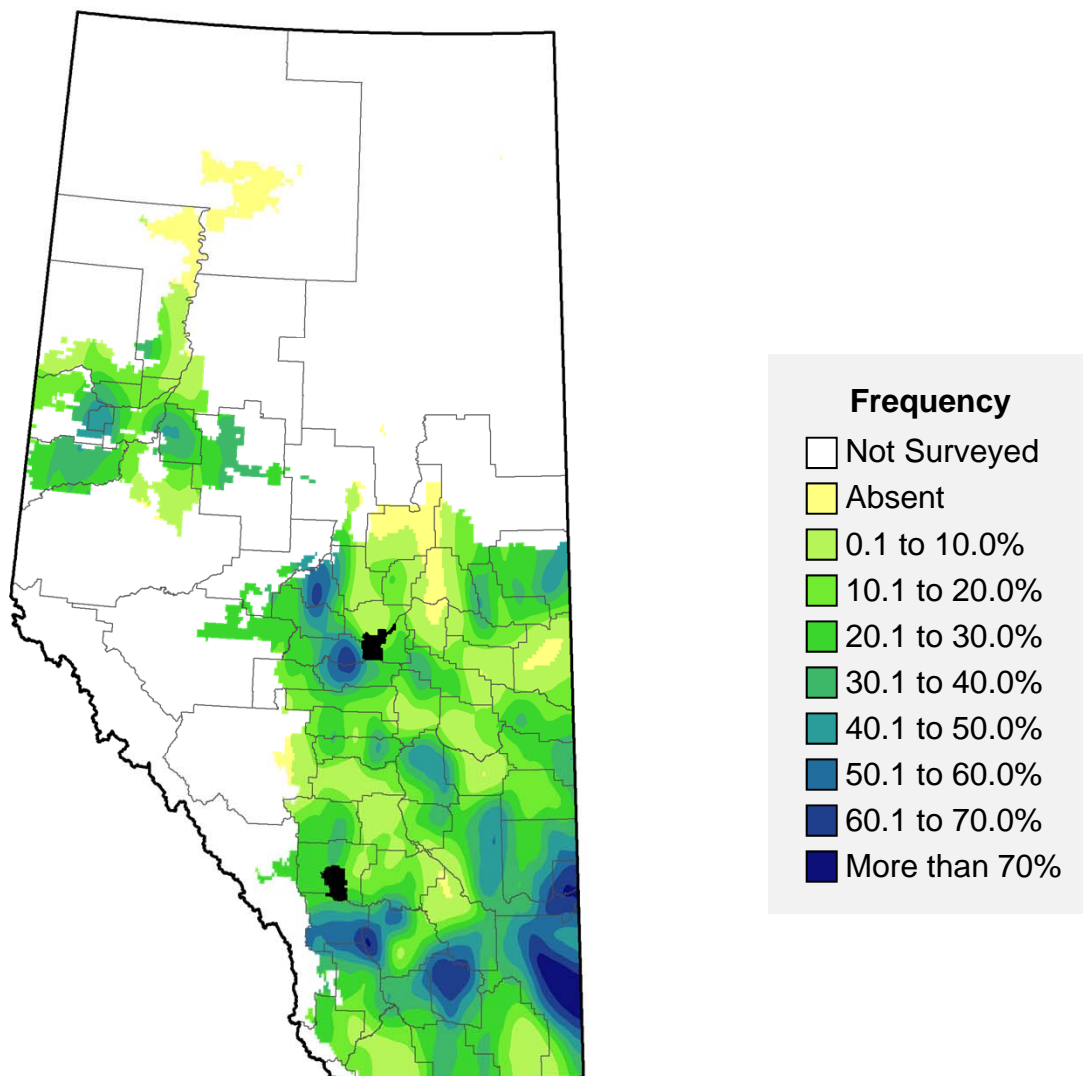
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	48	0.7	0.3	40.5	< 0.1	4.7	7.2	0.6
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Wild mustard, *Sinapis arvensis*



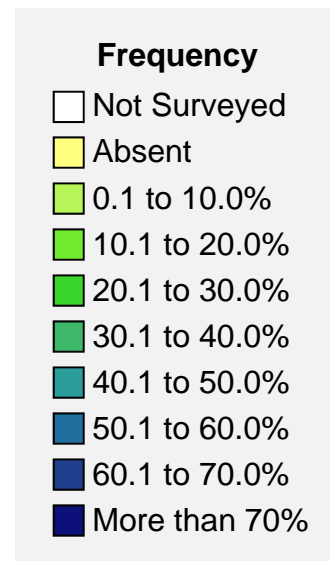
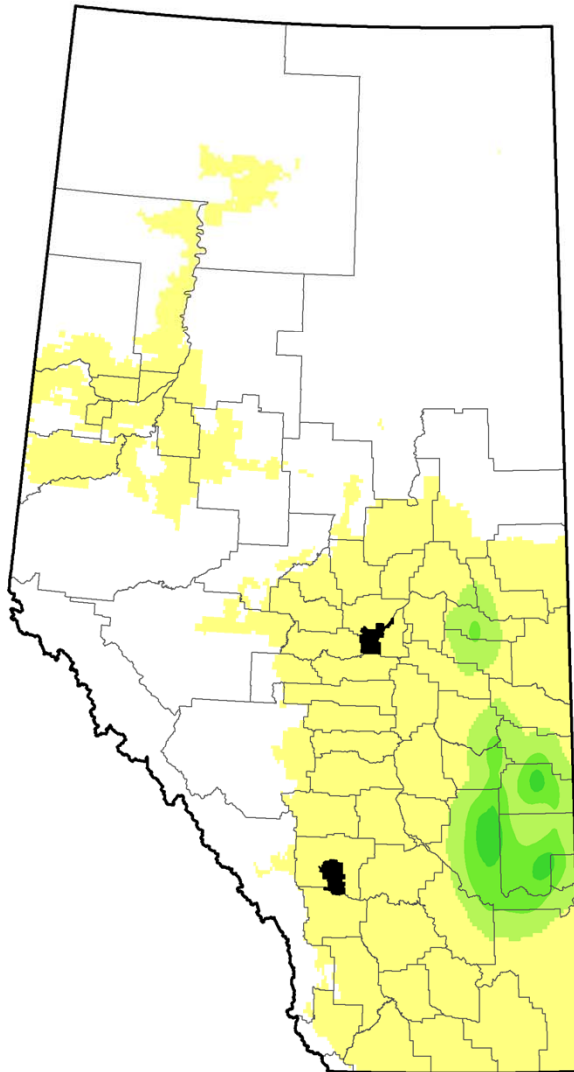
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	77	0.3	< 0.1	12.9	< 0.1	0.6	0.8	0.1
Barley	30	2.1	0.7	34.3	0.1	5.8	14.6	1.7
Durum	-	-	-	-	-	-	-	-
Oat	36	3.3	0.9	26.7	0.1	2.5	5.6	1.3
Canola	45	1.7	0.2	11.9	< 0.1	1.0	1.2	0.8
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Wild oats, *Avena fatua*



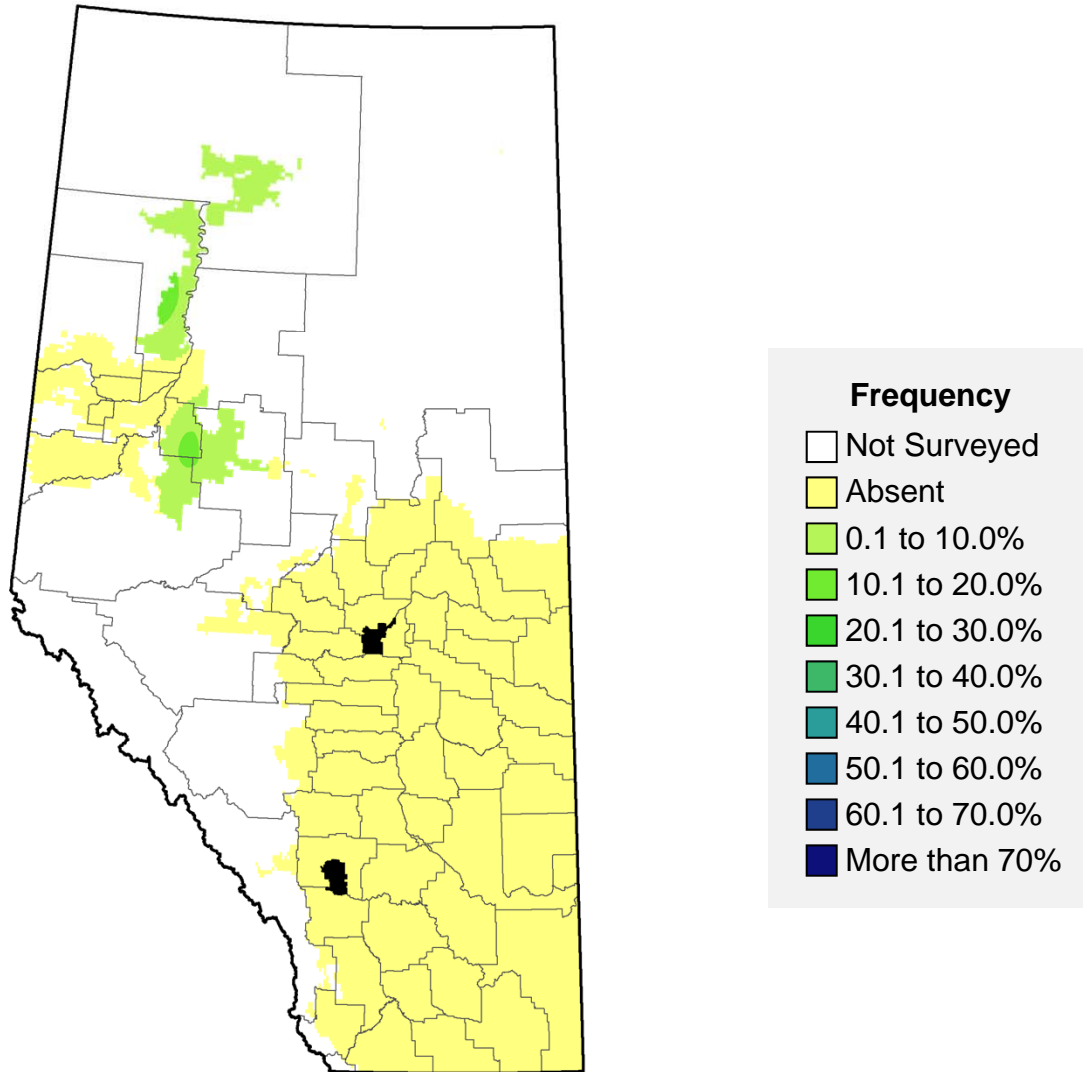
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	2	24.0	7.5	31.3	3.7	15.2	184.0	30.4
Barley	2	22.0	6.6	30.0	2.3	10.7	284.6	21.3
Durum	1	37.6	8.8	23.4	3.2	8.6	162.4	52.2
Oat	20	8.7	2.4	27.5	0.6	7.3	14.2	4.1
Canola	5	18.1	4.3	24.0	0.7	4.0	26.0	15.2
Field pea	7	24.5	6.5	26.5	1.4	5.6	32.8	13.2
Perennials	19	7.6	1.4	18.3	0.2	2.4	2.8	3.7

Wild tomato, *Solanum triflorum*



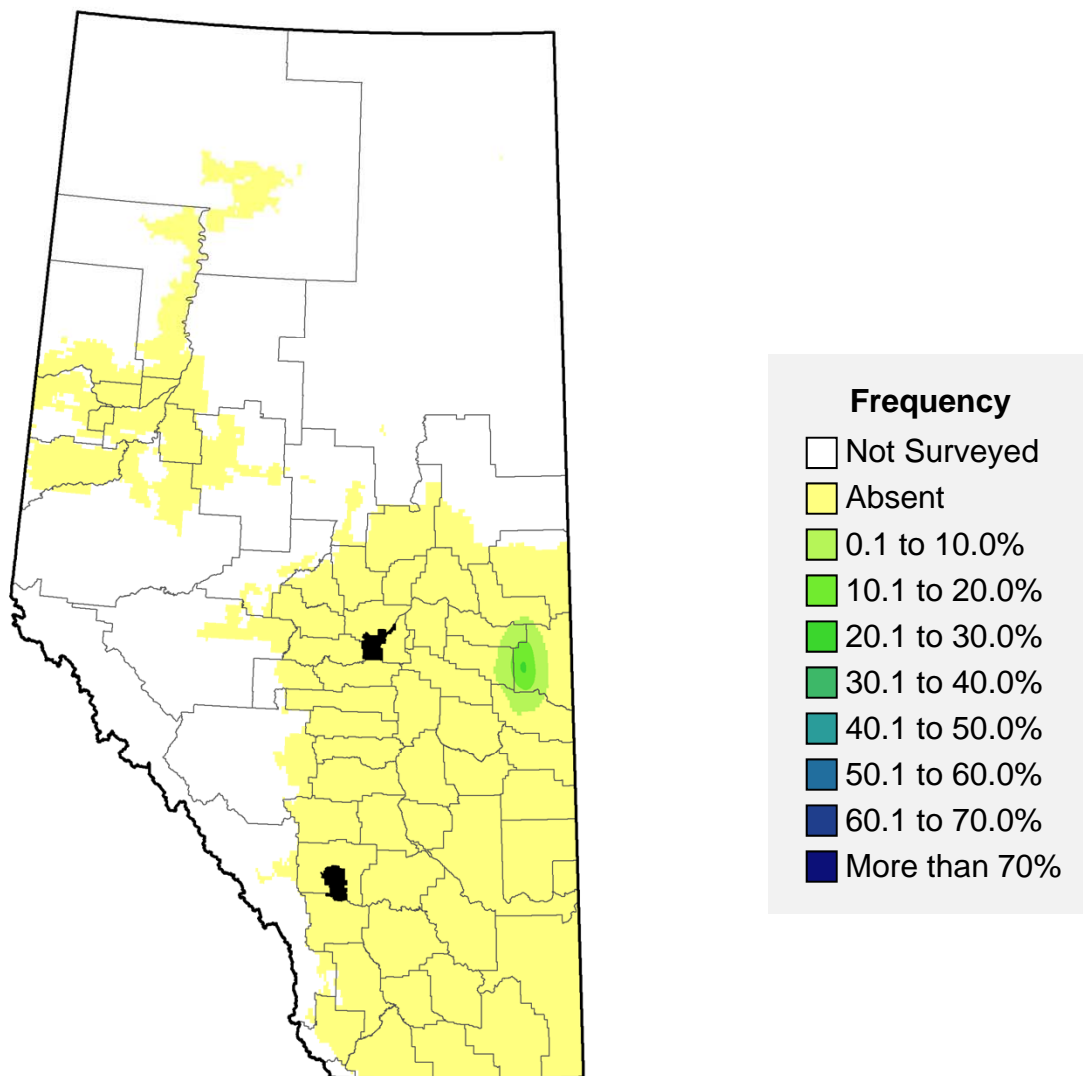
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	50	1.3	0.1	9.1	< 0.1	0.7	2.4	0.5
Barley	83	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Durum	26	3.8	0.2	5.0	< 0.1	0.2	0.2	1.4
Oat	40	3.8	0.3	7.6	< 0.1	0.5	0.8	0.9
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Willowherb species, *Epilobium* spp.



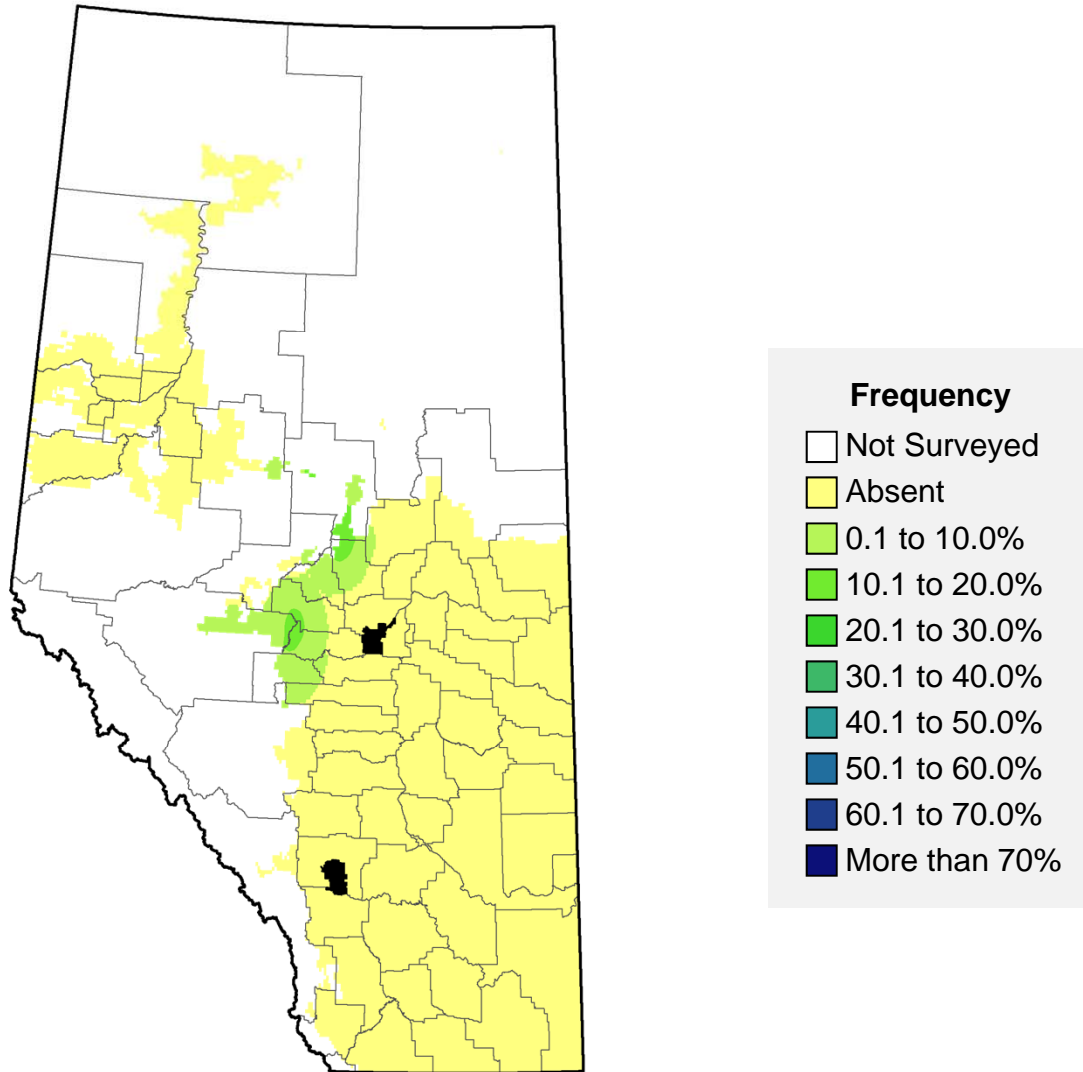
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance
			All	Occurrence	All	Occurrence High	
Spring wheat	71	0.6	< 0.1	5.0	< 0.1	0.2	0.2
Barley	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-

Wood whitlow-grass, *Draba nemorosa*



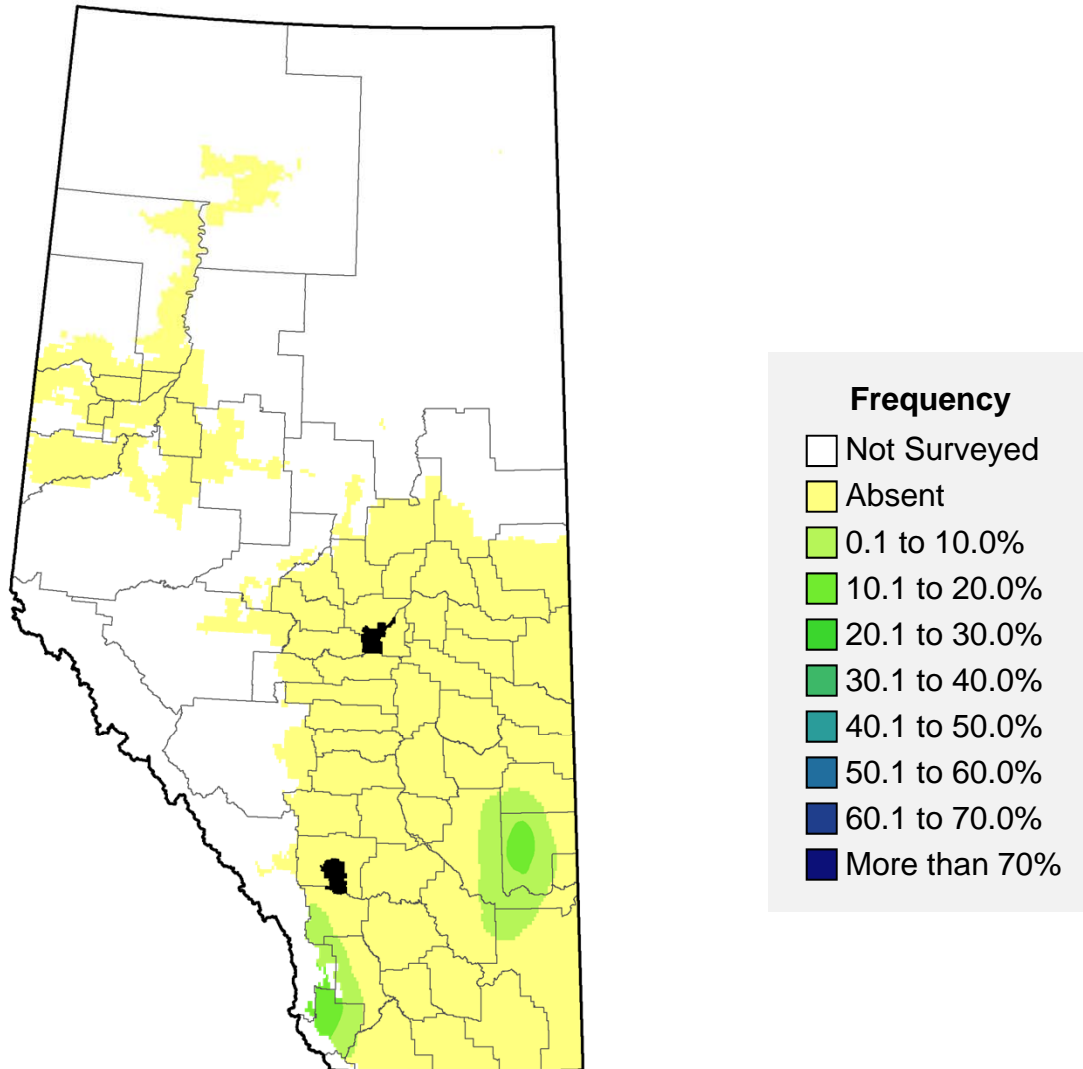
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	64	0.5	0.1	17.5	< 0.1	1.1	1.4	0.2
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Wormseed mustard, *Erysimum cheiranthoides*



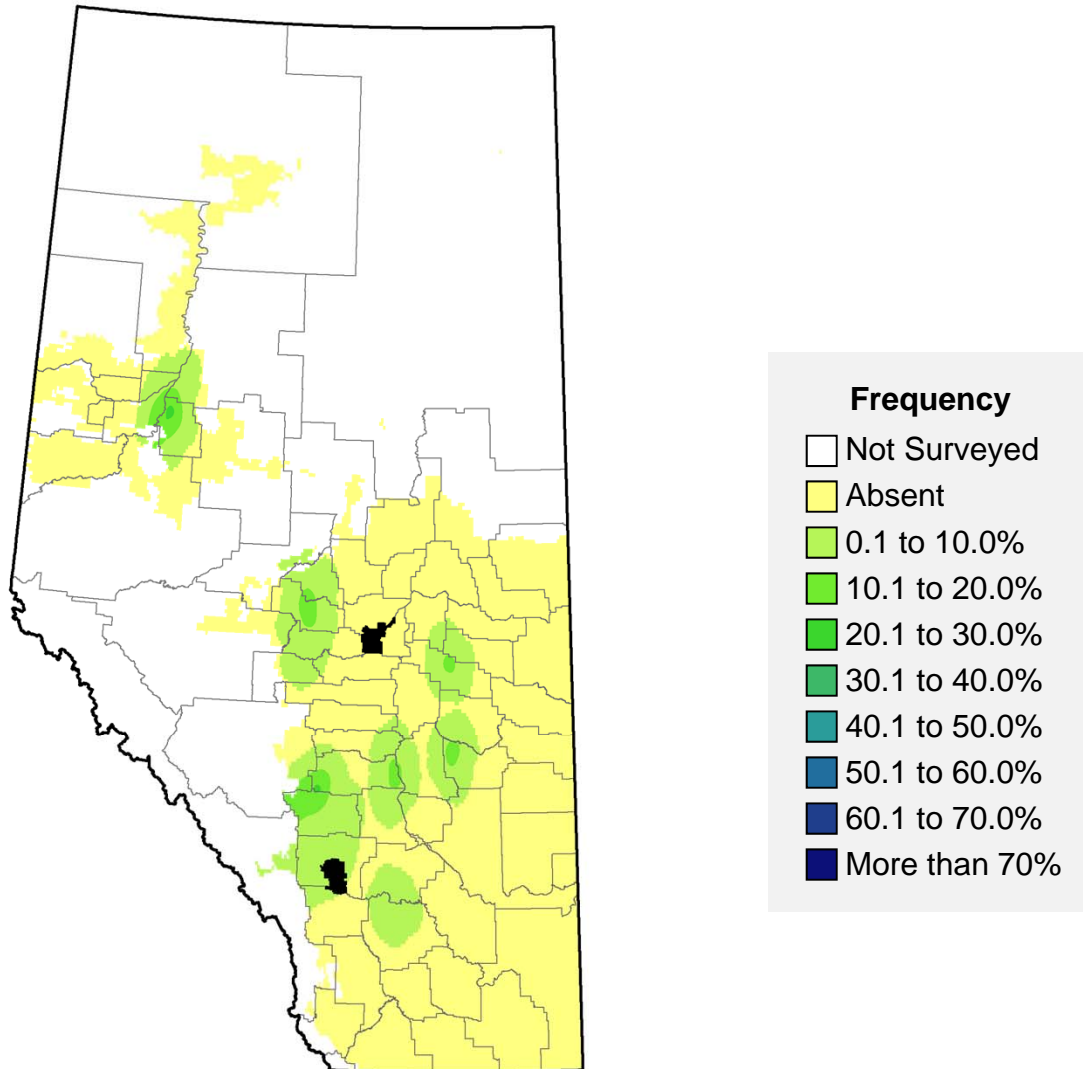
Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	-	-	-	-	-	-	-	-
Barley	-	-	-	-	-	-	-	-
Durum	-	-	-	-	-	-	-	-
Oat	53	1.9	0.1	5.0	< 0.1	0.2	0.2	0.4
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

Yellow alyssum, *Alyssum desertorum*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	84	0.2	< 0.1	10.0	< 0.1	0.4	0.4	0.1
Barley	45	0.4	0.3	75.0	0.1	15.4	15.4	0.7
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	-	-	-	-	-	-	-	-
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

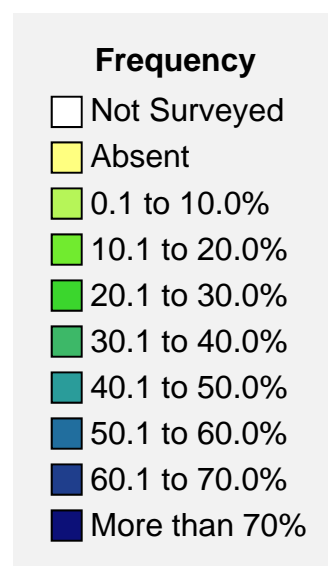
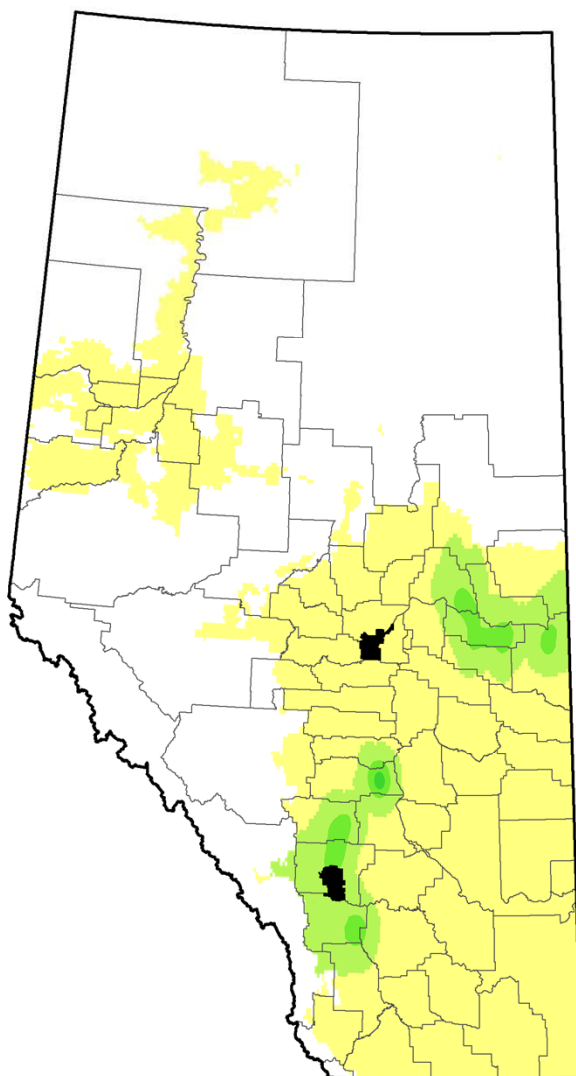
Yellow sweet-clover, *Melilotus officinalis**



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)		Relative Abundance	
			All	Occurrence	All	Occurrence High		
Spring wheat	86	0.3	< 0.1	5.0	< 0.1	0.2	0.2	0.1
Barley	54	1.0	0.1	8.6	< 0.1	0.8	1.4	0.3
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	47	1.6	0.2	13.2	< 0.1	0.7	1.6	0.7
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-

*Includes white sweet-clover (*M. albus*)

Yellow toadflax, *Linaria vulgaris*



Crop	Rank	Frequency (%)	Field Uniformity		Field Density (#/m ²)			Relative Abundance
			All	Occurrence	All	Occurrence	High	
Spring wheat	33	1.6	0.4	24.9	0.1	6.0	10.0	1.3
Barley	48	1.9	0.1	6.0	< 0.1	1.5	2.2	0.7
Durum	-	-	-	-	-	-	-	-
Oat	-	-	-	-	-	-	-	-
Canola	68	0.4	< 0.1	5.0	< 0.1	0.4	0.4	0.1
Field pea	-	-	-	-	-	-	-	-
Perennials	-	-	-	-	-	-	-	-