Part 3

Systematic Conservation Planning

As the field of ecology has advanced over the last several decades and conservation biology has emerged as a discipline in itself, increased concern has been placed into identifying and protecting remaining natural areas from the accelerated pace of habitat change and natural resource utilization (Cameron et al. 2008). Historically, conservation planning was done by subjectively picking and choosing areas that were deemed important due to some of their intrinsic characteristics (Pressey et al. 1993). As a consequence, existing reserve systems throughout the world tend to contain a biased sample of biophysical elements, usually that of remote places and other areas that are unsuitable for commercial activities (Pressey et al. 2000). In more recent years, emphasis has been shifted into making this process more systematic, scientifically defensible, and rigorous, through the use of a systematic conservation planning approach.

Systematic conservation planning is defined as the science of systematically locating and designing reserves (Margules and Pressey 2000). It requires methodological rigor and scientific defensibility, which are enhanced by the establishment of conceptual frameworks for planning, and the setting of standards and criteria to guide and evaluate individual conservation plans (Margules and Pressey 2000; Noss 2003; Pressey and Bottrill 2008). The first critical step is to clearly identify conservation targets - the elements of biological and physical diversity or their surrogates that will be the focus of the planning efforts. Because it is impractical to plan for all elements of biodiversity, known or unknown, a subset of targets are generally selected at multiple spatial scales and levels of biological organization to represent biophysical diversity as a whole (Margules et al. 2002; Sarkar and Margules 2002). Second, systematic conservation planning requires explicit conservation goals for each target, preferably translated into quantitative, operational measures of abundance. Third, it recognizes the extent to which conservation goals have been met in existing reserves; and then using simple, explicit methods locates and designs new reserves to complement existing ones in achieving conservation goals (Justus and Sarkar 2002). Finally, it adopts explicit objectives and mechanisms for maintaining the conditions within reserves that are needed to foster the persistence of key natural features, together with monitoring of those features and adaptive management as required.

The aim of conservation planning is to identify areas of conservation importance that contain multiple, viable (or feasibly restorable) examples of all native plants, animals, and ecological communities and systems within a region. To achieve this, the "coarse-fine filter" strategy has been adopted by several organizations such as The Nature Conservancy (Groves et al. 2000) and the World Wildlife Fund (The Nature Conservancy and World Wildlife Fund 2006). This approach assumes that conservation of multiple, viable examples of all coarse-filter targets (communities and ecological systems) will also conserve the majority of biodiversity within the defined region. Thus, defining ecological communities and systems as targets requires careful consideration of their level of resolution, spatial scale, ability to be mapped, and overall abundance. If ecological communities and systems are to work as coarse filters, they must be conserved as part of dynamic, intact landscapes, maintain some level of connectivity between examples, and be represented sufficiently across environmental gradients. Those elements that the coarse filter cannot reliably conserve will require individual attention through the fine-filter approach. Very rare, extremely localized and narrowly endemic species or communities, as well as wide-ranging or keystone species, are all likely to need fine-filter strategies. The coarse-filter/fine-filter strategy strongly suggests that the most effective means to conserve biological diversity will be at many different spatial scales and biological levels of organization.

The effectiveness of systematic conservation planning comes from its efficiency in using limited resources to achieve conservation goals, its defensibility and flexibility in the face of competing land uses, and its accountability in allowing decisions to be critically reviewed (Noss 2003). In practice however, this is an idealized description of a process that is difficult to achieve. Furthermore, the science of conservation planning is evolving rapidly and should not be restricted by inflexible rules and procedures. It is recognized that regions that differ in their physical environment, biogeography, ecology, and land-use history also differ in the kinds of analyses and plans appropriate for them. Nevertheless, every conservation plan must be scientifically defensible and must make the best use of available data and resources. Some consistency across plans is also necessary for their effective integration into a national and/or continental-scale design (Noss 2003).

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GIS layers

NAME	DESCRIPTION	SOURCE	DATE
ab_basins (Arc/Info coverage)	Drainage Basins of Alberta	Alberta Environment	2003
AB_FLF_2Approx.shp	Forest landscape fragment polygons larger than 5,000 ha for boreal forest ecozones in Alberta	Global Forest Watch	July 2007
ab_ibas.shp	Important Bird Areas of Canada Database	Bird Studies Canada and The Canadian Nature Federation	2004
anhic_element_occurrence.shp	Element occurrence database maintained by the Alberta Natural Heritage Information Centre.	Alberta Natural Heritage Information Centre - Alberta Parks, Tourism and Recreation	December 2008
at0ltpa_10TM.shp	Caribou Planning Area Boundary used by the Athabasca Landscape Team, including the WSAR, ESAR, CLAWR, and Richardson herds	Alberta Caribou Committee	June 2008
badlands_milk_river.shp	Badland Topography in South-eastern Alberta	Parks and Protected Areas Division, Alberta Community Development	November 2003
bf_provincial_polygon.shp	Alberta Base Features, provincial boundary	Resource Data Branch, Alberta Sustainable Resource Development	
ch0ltpa_10TM.shp	Caribou Referral Boundary for the Chinchaga range.	Alberta Caribou Committee	November 2000
CHRS_designation_Clearwater_Christina.shp	Canadian Heritage Rivers System, Clearwater and Christina rivers	Canadian Heritage Rivers System	Designated in 2004
cm0ref_10TM.shp	Caribou Referral Boundary for the Caribou Mountains range (including the Bitscho herd)	Alberta Caribou Committee	November 2006
CriticalHabitatPatches.shp	Critical habitat patches for selected mammal species for the Kananaskis County area		
County_10TM.shp	Alberta Base Features, municipal and improvementd districts	Resource Data Branch, Alberta Sustainable Resource Development	
cutlines.shp	Alberta Base Features, cutlines and trails	Resource Data Branch, Alberta Sustainable Resource Development	May 2003
dunes_ab_nrcan.shp	Sand dunes	Natural Resources Canada	January 2001
esa_prov.shp	Environmentally Significant Areas of the Rocky Mountain Natural Region - 1998	Parks and Protected Areas Division, Alberta Community Development	March 1997

NAME	DESCRIPTION	SOURCE	DATE
esa_rocky.shp	ESA Provincial Overview - 1997	Parks and Protected Areas Division, Alberta Community Development	January 1998
Ferruginous_Hawk.shp	Habitat Suitability Index (HSI) model for the ferruginous hawk, SHARP study area	Southern Headwaters At Risk Project, Fish and Wildlife Division, Alberta Sustainable Resource Development.	2004
green-white_zones.shp	Alberta Base Features, green and white zones in Alberta	Resource Data Branch, Alberta Sustainable Resource Development	
Hawkmap (raster map)	Habitat Suitability Index (HSI) model for ferruginous hawk, MULTISAR study area	The Milk River Basin Habitat Suitability Models project, Fish and Wildlife Division, Alberta Sustainable Resource Development.	2004
hydro_polys.shp	Alberta Base Features, hydrography polygons	Resource Data Branch, Alberta Sustainable Resource Development	
hydro_slnet.shp	Alberta Base Features, hydrography single line network	Resource Data Branch, Alberta Sustainable Resource Development	
npviext (Arc/Info coverage)	Native Prairie Vegetation Inventory (Extended)	Resource Data Branch, Alberta Sustainable Resource Development	Latest updates done in 2003
NSR2005 (Arc/Info coverage)	2005 Natural Regions and Subregions of Alberta	Alberta Sustainable Resource Development, Alberta Environment, Alberta Community Development, Agriculture and Agri-Food Canada	June 2005
nts_1250.shp	National topographic system grid, **1:250 000 scale.**	Natural Resources Canada	
Owlmap (raster map)	Habitat Suitability Index (HSI) model for the western burrowing owl, MULTISAR study area	The Milk River Basin Habitat Suitability Models project, Fish and Wildlife Division, Alberta Sustainable Resource Development.	2004
pashape_ocsites_10tm.shp	Protected Areas in Alberta	Alberta Parks, Tourism and Recreation	September 2008
peatlands_alberta.shp	Peatland Inventory of Alberta	Vitt, D.H., L.A. Halsey, M.N. Thormann and T. Martin, University of Alberta	Fall 1996
pipelines.shp	Alberta Base Features, pipelines	Resource Data Branch, Alberta Sustainable Resource Development	May 2003
pnv_all (Arc/Info coverage)	Central Parkland Native Vegetation Inventory–Version 1.2	Resource Data Branch, Alberta Sustainable Resource Development	August 2003
priority_landform_points.shp	Priority landforms points in Alberta	Special Places Provincial Co-ordinating Committee	July 1998

NAME	DESCRIPTION	SOURCE	DATE
PriorityAreas_2.shp	Grizzly Bear Priority Areas: Delineation of areas to serve as grizzly bear population source, as per Grizzly Bear Recovery Plan.	Foothills Model Forest Grizzly Bear Research Program	November 2007
quarter_section_poly.shp	Alberta Base Features, Alberta township system grid, quarter-section scale.	Resource Data Branch, Alberta Sustainable Resource Development	September 1997
RAMSAR_sites_10TM.shp	Wetlands identified as internationally important by the Ramsar Convention on Wetlands	Ramsar Convention on Wetlands	
re0ltpa_10TM.shp	Caribou Planning Area Boundary to be used by the Red Earth Landscape Team, including the Red Earth and Slave Lake herds	Alberta Caribou Committee	November 2008
regional_esa.shp	Regional ESA Polygon 1997	Parks and Protected Areas Division, Alberta Community Development	March 1997
roads.shp	Alberta Base Features, road network	Resource Data Branch, Alberta Sustainable Resource Development	May 2003
special_features_of_alberta.shp	Special Features in Alberta	Alberta Environmental Protection	July 1998
sub_4c.shp	Environment Canada 4-Character Sub-basin	Prairie Farm Rehabilitation Administration / Agriculture and Agri-Food Canada	March 2008
township_poly.shp	Alberta Base Features, Alberta township system grid, township scale.	Resource Data Branch, Alberta Sustainable Resource Development	September 1997
UNESCO_WHS_allsites.shp	World Heritage Sites defined by the United Nations Educational, Scientific and Cultural Organization (UNESCO)	Parks and Protected Areas Division, Alberta Community Development	November 2004
wc0ltpa_10TM.shp	Caribou Planning Area Boundary used by the West Central Landscape Team, including the Narraway, Redrock-Prairie Creek, A La Peche, Little Smoky, Jasper, and Banff	Alberta Caribou Committee	September 2007
wells_surface_2007_june.shp	Geographical location for surface holes of wells in Alberta	Resource Land Access Branch, Mineral Development and Strategic Resources Division, Alberta Department of Energy	June 2007

Elements of Conservation Concern

	SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
AMPHIBIANS & REPTILES	*Bufo cognatus*	Great plains toad	G5	S2	Special Concern	May Be At Risk	Special Concern	Special Concern
	Chrysemys picta belli	Painted turtle	G5	S1		Sensitive	Not At Risk	
	Phrynosoma hernandesi	Short-horned lizard	G5	S2	Endangered	At Risk	Endangered	Special Concern
	Rana pipiens	Leopard frog	G5	S2S3	Threatened	At Risk	Special Concern	Special Concern
BIRDS	*Anthus spragueii*	Sprague's pipit	G4	S4	Special Concern	Sensitive	Threatened	Threatened
	Carpodacus cassinii	Cassin's finch	G5	S2				
	Catharus minimus	Gray-cheeked thrush	G5	S1				
	Centrocercus urophasianus urophasianus	Greater sage-grouse		S2	Endangered	At Risk	Endangered	Endangered
	Charadrius melodus circumcinctus	Piping plover		S2B	Endangered		Endangered	Endangered
	Charadrius montanus	Mountain plover		S1	Endangered	At Risk	Endangered	Endangered
	Cygnus buccinator	Trumpeter swan		S3	Threatened	At Risk	Not At Risk	
	Cypseloides niger	Black swift	G4	S1				
	Dendroica tigrina	Cape may warbler	G5	S2	In Process			
	Falco peregrinus	Peregrine falcon		S3	Threatened	At Risk		
	Gavia stellata	Red-throated loon	G5	S1				
	Grus americana	Whooping crane		S1	Endangered	At Risk	Endangered	Endangered
	Himantopus mexicanus	Black-necked stilt	G5	S2				
	Lagopus lagopus	Willow ptarmigan	G5	S1				
	Lanius ludovicianus	Loggerhead shrike	G4	S3	Special Concern	Sensitive	Threatened	Threatened
	Larus canus	Mew gull	G5	S2				
	Limnodromus griseus	Short-billed dowitcher	G5	S2				
	Lophodytes cucullatus	Hooded merganser	G5	S2				
	Melanerpes erythrocephalus	Red-headed woodpecker	G5	S1				
	Oreoscoptes montanus	Sage thrasher		SNA		Undetermined	Endangered	Endangered
	Pelecanus erythrorhynchos	American white pelican	G3	S2				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
BIRDS (continued)							
Pheucticus melanocephalus	Black-headed grosbeak	G5	S2				
Picoides arcticus	Black-backed woodpecker	G5	S2S3				
Plegadis chihi	White-faced ibis	G5	S1				
Stellula calliope	Calliope hummingbird	G5	S2				
Sterna caspia	Caspian tern	G5	S2				
Sterna paradisaea	Arctic tern	G5	S1				
FISH							
Acipenser fulvescens	Lake Sturgeon	G3G4	S2	Threatened	At Risk	Endangered	No Status
Catostomus macrocheilus	Largescale sucker	G5	S2		Sensitive		
Coregonus zenithicus	Shortjaw cisco	G3	S1	Threatened	At Risk	Threatened	Threatened
Cottus asper	Prickly sculpin	G5	S1		Not Assessed	Threatened	Threatened
Cottus bairdi	Mottled sculpin	G5	SU	Threatened	At Risk	Threatened	Threatened
Hybognathus argyritis	Western silvery minnow	G4	S1	Threatened	At Risk	Endangered	Threatened
Hybognathus hankinsoni	Brassy minnow	G5	S2		Undetermined		
Lampetra japonica	Arctic lamprey	G4	S1		Secure		
Moxostoma anisurum	Silver redhorse	G5	S2		Undetermined		
Myoxocephalus thompsoni	Deepwater sculpin	G5	S1		Undetermined	Not At Risk	
Notropis blennius	River shiner	G5	S2		Undetermined		
Noturus flavus	Stonecat	G5	S1	Threatened	At Risk		
Percina caprodes	Logperch	G5	S1		Undetermined		
Prosopium coulteri	Pygmy whitefish	G5	S1	Data Deficient	May Be At Risk		
Ptychocheilus oregonensis	Northern squawfish	G5	S1		Sensitive		
INSECTS							
Acroloxus coloradensis	Rocky Mountain capshell	G3	S1		May Be At Risk	Not at Risk	
Aeshna constricta	Lance-tipped darner	G5	S1S2		Secure		
Aeshna multicolor	Blue-eyed darner	G5	S1		Undetermined		
Aeshna septentrionalis	Azure darner	G5	S1S2		Undetermined		

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Aeshna tuberculifera	Black-tipped darner	G4	S2S3		Undetermined		
Amblyscirtes oslari	Oslar's roadside-skipper	G4	S1		Undetermined		
Amphiagrion abbreviatum	Western red damsel	G5	S2		Sensitive		
Anatrytone logan	Delaware skipper	G5	S2		Undetermined		
Anax junius	Common green darner	G5	S2		Undetermined		
Argia vivida	Vivid dancer	G5	S1		Sensitive		
Boloria astarte	Astarte fritillary	G5	S2		Secure		
Boloria epithore	Pacific fritillary	G5	S2		Undetermined		
Boloria improba	Dingy arctic fritillary	G5	S2		Undetermined		
Boloria napaea	Napaea fritillary	G5	S2		Sensitive		
Callophrys mossii	Moss's elfin	G4	S1		Sensitive		
Callophrys sheridanii	Sheridan's green hairstreak	G5	S1		Sensitive		
Callophrys spinetorum	Thicket hairstreak	G5	S1S2		Undetermined		
Calopteryx aequabilis	River jewelwing	G5	S2		Undetermined		
Celastrina ladon nigrescens	Purple azure	G5T4	S1				
Chlosyne acastus	Acastus checkerspot	G4G5	S2		Sensitive		
Chlosyne gorgone carlota	Carlota checkerspot	G5T5	S2				
Cicindela formosa	Beautiful tiger beetle	G5	S1S2				
Cicindela lepida	Ghost tiger beetle	G4	S1				
Cicindela nevadica	Salt Creek tiger beetle	G5	S2				
Coenonympha tullia ochracea	Ochre ringlet	G5T5	S1				
Colias palaeno	Palaeno sulphur	G5	S1S2		Undetermined		
Copablepharon grande	Pale yellow dune moth	G4G5	S1				
Copablepharon longipenne	Dusky dune moth		S1			Endangered	No Status
Copablepharon viridisparsa		G4	S1				
Enallagma anna	River bluet	G5	S1				
Enodia anthedon	Northern pearly-eye	G5	S1		Undetermined		

INSECTS (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Erebia magdalena	Magdalena alpine	G5	S1		Undetermined		
Euphilotes ancilla	Rocky Mountain dotted blue	G5	S2		Sensitive		
Euphydryas gillettii	Gillette's checkerspot	G2G3	S2		Sensitive		
Glaucopsyche piasus	Arrowhead blue	G5	S2		Sensitive		
Gomphus graslinellus	Pronghorn clubtail	G5	S1		Undetermined		
Hemileuca hera	Sagebrush sheepmoth	G5	S1				
Icaricia icarioides	Icarioides blue	G5	S2S3		Sensitive		
Ischnura cervula	Pacific forktail	G5	S2		Undetermined		
Ischnura damula	Plains forktail	G5	S1		Undetermined		
Ischnura perparva	Western forktail	G5	S1		Undetermined		
Leucorrhinia glacialis	Crimson-ringed whiteface	G5	S1S3		Undetermined		
Leucorrhinia intacta	Dot-tailed whiteface	G5	S2S3		Secure		
Libellula pulchella	Twelve-spotted skimmer	G5	S1		Undetermined		
Limenitis lorquini	Lorquin's admiral	G5	S1S2		Sensitive		
Limenitis weidemeyerii	Weidemeyer's admiral	G5	S1	Special Concern	May Be At Risk	Special Concern	Special Concern
Lycaena cupreus henryae	Henry's copper	G5T5	S2S3				
Lycaena heteronea	Blue copper	G5T4T5	S2		Undetermined		
Lycaena heteronea heteronea	Blue copper	G5T4T5	S2				
Lycaena hyllus	Bronze copper	G5	S2		Secure		
Lycaena phlaeas	Little copper	G5	S2		Secure		
Lycaena rubidus	Ruddy copper	G5	S2		Undetermined		
Megathymus streckeri	Strecker's giant-skipper	G5	S1				
Ochlodes sylvanoides	Woodland skipper	G5T5	S2		Undetermined		
Oeneis chryxus caryi	Cary's arctic	G5T4	S1S2				
Papilio eurymedon	Pale swallowtail	G5	S2		Undetermined		

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Papilio machaon dodi	Dod's old world swallowtail	G4T4T5	S2S3				
Papilio machaon hudsonianus	Hudsonian old world swallowtail	G4T4	S2S3				
Papilio machaon pikei	Pike's old world swallowtail	G5T3	S1S2				
Papilio multicaudatus	Two-tailed swallowtail	G5	S1		Undetermined		
Physella johnsoni	Banff springs physa		S1	In Process	At Risk	Endangered	Endangered
Poanes hobomok	Hobomok skipper	G5	S2		Undetermined		
Polygonia oreas	Oreas anglewing	G5	S2		Undetermined		
Prodoxus quinquepunctellus	Five-spotted bogus yucca moth	G4G5	S1			Endangered	Endangered
Salmasellus steganothrix		G2G3	S1				
Satyrium acadicum	Acadian hairstreak	G5	S2		Undetermined		
Satyrium semiluna	Semiluna hairstreak	G4TNR	S1			Endangered	Endangered
Satyrium sylvinum	Sylvan hairstreak	G5	S1		Undetermined		
Schinia verna	Verna flower moth	GU	SU			Threatened	No Status
Senecella calanoides		GNR	S1				
Somatochlora albicincta	Ringed emerald	G5	S2				
Somatochlora cingulata	Lake emerald	G5	S2S4		Undetermined		
Somatochlora forcipata	Forcipate emerald	G5	S1		Undetermined		
Somatochlora kennedyi	Kennedy's emerald	G5	S1S2		Undetermined		
Somatochlora whitehousei	Whitehouse's emerald	G5	S2		Secure		
Speyeria egleis	Egleis fritillary	G5	S1				
Stygobromus canadensis		G1G2	S1				
Stygobromus secundus		G1G2	S1				
Stylurus intricatus	Brimstone clubtail	G4	S1S2		Sensitive		
Sympetrum corruptum	Variegated meadowhawk	G5	S2S3		Secure		
Sympetrum pallipes	Striped meadowhawk	G5	S2S4		Undetermined		

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Tegeticula corruptrix	Non-pollinating yucca moth	G4G5	S1			Endangered	Endangered
Tegeticula yuccasella	Yucca moth	G4G5	S1	In Process		Endangered	Endangered
Vacciniina optilete	Cranberry blue	G5	S2S3		Undetermined		

LIVERWORTS

Anastrophyllum assimile		G3?	S1S2				
Anastrophyllum helleranum		G5	S2				
Anastrophyllum michauxii		G4	S1				
Anastrophyllum saxicola		G3G4	S1?				
Arnellia fennica		G5	S2				
Asterella lindenbergiana		G3G5	S1				
Asterella saccata		G4G5	S1				
Athalamia hyalina		G5	S2				
Barbilophozia attenuata		G5	S1				
Barbilophozia binsteadii		G4	S1				
Barbilophozia kunzeana		G5	S2				
Barbilophozia quadriloba		G5	S2				
Blasia pusilla		G5	S1				
Calypogeia integristipula		G4G5	S1				
Calypogeia suecica		G5	S1				
Cephalozia bicuspidata		G5	S1				
Cephaloziella hampeana		G5	S1				
Chandonanthus setiformis		G5	S1				
Chiloscyphus pallescens		G5	S1				
Chiloscyphus polyanthos		G5	S1				
Conocephalum conicum		G5	S2				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Cryptocolea imbricata		G3	S1				
Diplophyllum taxifolium		G5	S1				
Frullania inflata		G5	S1				
Gymnocolea inflata		G5	S1				
Gymnomitrion concinnatum		G5	S1				
Gymnomitrion corallioides		G4G5	S1				
Harpanthus flotovianus		G5	S1				
Jungermannia atrovirens		G4G5	S2				
Jungermannia obovata		G4G5	S1				
Jungermannia pumila		G5	S1				
Jungermannia sphaerocarpa		G5	S1				
Lophozia ascendens		G4	S1				
Lophozia badensis		G5?	S1				
Lophozia capitata		G4	S1				
Lophozia excisa		G5	S1				
Lophozia grandiretis		G3?	S2				
Lophozia guttulata		G4G5	S2				
Lophozia heterocolpos		G5	S2				
Lophozia incisa		G5	S2				
Lophozia laxa		G4	S1				
Lophozia longidens		G5	S1				
Lophozia obtusa		G4G5	S1				
Lophozia opacifolia		G4	S1				
Lophozia pellucida		G3?	S1				
Lophozia rutheana		G4?	S1				

LIVERWORTS (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Lophozia wenzelii		G4G5	S1				
Mannia fragrans		G5	S1				
Mannia pilosa		G4?	S1				
Mannia triandra		G3G4	S1				
Marchantia alpestris		G3G5	S1				
Marsupella alpina		G3G5	S1				
Marsupella brevissima		G4?	S1				
Marsupella commutata		G2G4	S1				
Marsupella revoluta		G3G5	S1S2				
Marsupella sparsifolia		G3G4	S1				
Marsupella sphacelata		G5	S1				
Moerckia blyttii		G4	S1				
Moerckia hibernica		G4?	S1S2				
Nardia breidleri		G4G5	S1				
Nardia geoscyphus		G5	S1				
Pellia endiviifolia		G5	S2				
Pellia epiphylla		G5	S1				
Pellia neesiana		G5	S2				
Pleuroclada albescens		G4G5	S2				
Porella cordaeana		G4	S1				
Porella platyphylla		G5	S1				
Radula complanata		G4	S1				
Reboulia hemisphaerica		G5	S1				
Riccardia latifrons		G4G5	S2				
Riccardia multifida		G5	S2S3				
Riccardia palmata		G5	S1				
Riccia beyrichiana		G5	S1				
Riccia cavernosa		G5	S1				

LIVERWORTS (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Riccia fluitans		G5	S2				
Ricciocarpos natans		G5	S2				
Sauteria alpina		G4?	S1				
Scapania apiculata		G5?	S1				
Scapania brevicaulis		G2G3	S1				
Scapania curta		G5	S2				
Scapania cuspiduligera		G5	S2				
Scapania glaucocephala		G4G5	S2				
Scapania mucronata		G5	S1				
Scapania paludicola		G5	S2				
Scapania paludosa		G5	S2				
Scapania subalpina		G4G5	S1				
Scapania undulata		G5	S1				
Tritomaria exsecta		G5	S1				
Tritomaria polita		G4	S2				
Tritomaria scitula		G4	S2S3				

MAMMALS

Dipodomys ordii	Ord's kangaroo rat	G5	S2	Endangered	At Risk	Endangered	Endangered
Lasiurus cinereus	Hoary bat	G5	S2		Sensitive		
Lemmus sibiricus	Brown lemming	G5	S1		Undetermined		
Marmota flaviventris	Yellow-bellied marmot	G5	S2S3				
Microtus ochrogaster	Prairie vole	G5	S2		Secure		
Myotis evotis	Long-eared bat	G5	S2		Secure		
Myotis septentrionalis	Northern long-eared bat	G4	S2S3		May Be At Risk		
Myotis volans	Long-legged bat	G5	S2		Undetermined		
Onychomys leucogaster	Northern grasshopper mouse	G5	S2		Secure		
Perognathus fasciatus	Olive-backed pocket mouse	G5	S2		Sensitive		

MAMMALS (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Reithrodontomys megalotis	Western harvest mouse	G5	S1		Undetermined	Endangered	No Status
Sorex vagrans	Wandering shrew	G5	S1		May Be At Risk		
Tamias ruficaudus	Red-tailed chipmunk	G5	S2	Not At Risk	Sensitive		
Vulpes velox	Swift fox	G3	S1	Endangered	At Risk	Endangered	Endangered

MOSSES

Aloina brevirostris	Short-beaked rigid screw moss	G3G5	S2				
Aloina rigida	Aloe-like rigid screw moss	G3G5	S2				
Amblyodon dealbatus		G3G5	S2				
Amphidium mougeotii		G5	S1				
Andreaea alpestris		G5?	S1				
Andreaea blyttii		G5	S1				
Andreaea nivalis	Red rock moss	G5	S2				
Anoectangium aestivum		G3G5	S1				
Anomobryum filiforme		G4	S1				
Anomodon minor		G5	S1				
Aongstroemia longipes		G3G5	S2				
Arctoa fulvella		G3G5	S1				
Atrichum selwynii		G4	S2				
Atrichum undulatum	Undulated crane's bill moss	G5	S1S2				
Aulacomnium acuminatum		G3?	S1				
Aulacomnium androgynum		G5	S2				
Bartramia halleriana	Haller's apple moss	G4G5	S1			Threatened	No Status
Bartramia pomiformis		G5	S2				
Blindia acuta	Sharp-pointed weissia	G5	S2				
Brachythecium calcareum		G3G4	S1				
Brachythecium plumosum		G5	S2				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Brachythecium reflexum		G4G5	S2				
Brachythecium rutabulum		G5	S2?				
Bryobrittonia longipes		G3	S2				
Bryoerythrophyllum ferruginascens	Red leaf moss	G3G4	S1				
Bryohaplocladium virginianum		G5	S1				
Bryum algovicum		G4G5	S2				
Bryum amblyodon		G5?	S1				
Bryum arcticum		G5?	S1				
Bryum calobryoides		G3	S1				
Bryum calophyllum		G5?	S1				
Bryum cyclophyllum		G4G5	S2				
Bryum dichotomum		GNR	S1				
Bryum knowltonii		G3G4	S1				
Bryum marratii		G3G4	S1				
Bryum muehlenbeckii		G4G5	S1S2				
Bryum pallens		G4G5	S2				
Bryum porsildii	Porsild's bryum	G2G3	S1	In Process		Threatened	No Status
Bryum purpurascens		G3G4	S1				
Bryum schleicheri		G5?	S1				
Bryum stirtonii		G5?	S1S2				
Bryum turbinatum		G5	S2				
Bryum uliginosum		G3G5	S2				
Buxbaumia aphylla	Bug on a stick	G4G5	S2				
Buxbaumia piperi		G4	S1				
Buxbaumia viridis	Green shield moss	G3G4	S1				
Callicladium haldanianum		G5	S1				
Campylium radicale		G3G5	S2				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Cirriphyllum cirrosum		G5?	S2				
Cirriphyllum piliferum		G5	S1				
Claopodium bolanderi		G4	S1S2				
Conardia compacta		G3G5	S2				
Coscinodon cribrosus	Sieve-toothed moss	G3G4	S1				
Cynodontium alpestre		G3G5	S1				
Cynodontium glaucescens	Glaucous shield moss	G3G4	S1				
Cynodontium schisti		G3G5	S1S2				
Cynodontium tenellum		G3G5Q	S2S3				
Cyrtomnium hymenophylloides		G5?	S1S2				
Desmatodon heimii	Long-stalked beardless moss	G5	S2				
Desmatodon laureri		G5?	S1				
Desmatodon leucostoma		G2G4	S2				
Desmatodon systylius		G4G5	S2				
Dichelyma falcatum		G4G5	S2				
Dichodontium olympicum		G3G5	S1				
Dicranella cerviculata	Red-necked fork moss	G5?	S1				
Dicranella crispa	Curl-leaved fork moss	G3G5	S2				
Dicranella heteromalla	Silky fork moss	G5?	S1				
Dicranella palustris	Drooping-leaved fork moss	G5?	S1				
Dicranella subulata	Awl-leaved fork moss	G5?	S2				
Dicranum angustum		G5?	S1S2				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Dicranum ontariense		G4G5	S1				
Dicranum pallidisetum	Alpine curly heron's bill moss	GU	S1S2				
Dicranum spadiceum		G5?	S2				
Dicranum tauricum	Broken-leaf moss	G4	S1S2				
Didymodon asperifolius		G3G5	S1				
Didymodon fallax	Fallacious screw moss	G5	S2				
Didymodon johansenii		G5?	S2				
Didymodon nigrescens		G3G5	S1				
Didymodon rigidulus	Rigid screw moss	G5	S2				
Didymodon subandreaeoides		GU	S2				
Didymodon tophaceus	Blunt-leaved hair moss	G5	S1S2				
Didymodon vinealis		G5	S1				
Discelium nudum	Naked weissia	G3G4	S1				
Ditrichum montanum		GU	S1				
Drepanocladus crassicostatus		G3G5	S2				
Drepanocladus sendtneri		G5?	S1				
Dryptodon patens	Spreading fringe moss	G4G5	S2				
Encalypta brevicolla		G4	S2				
Encalypta brevipes		G3	S1				
Encalypta intermedia		G4	S1				
Encalypta longicolla		G3	S1				
Encalypta spathulata		G3	S1				

MOSSES (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Encalypta vulgaris	Common extinguisher moss	G5	S1S2				
Entodon concinnus		G4G5	S2				
Entodon schleicheri		G3G5	S1			Data Deficient	
Fissidens adianthoides	Maidenhair moss	G5	S2				
Fissidens grandifrons	Narrow-leaved Chinese phoenix moss	G4	S2				
Fissidens limbatus		G3G5	S1				
Fontinalis antipyretica		G5	S1				
Fontinalis missourica		G4G5	S1				
Fontinalis neomexicana		G3G5	S1S2				
Funaria muhlenbergii	Muhlenberg's cord moss	G4	S1				
Grimmia alpestris	Alpine grimmia	G3G5	S2				
Grimmia anomala	Mountain forest grimmia	G5	S2				
Grimmia caespiticia		GNR	S1				
Grimmia donniana	Donian grimmia	G4G5	S2				
Grimmia elatior	Large grimmia	G3G5	S1S2				
Grimmia incurva	Black grimmia	G4G5	S1				
Grimmia mollis		G3G5	S2				
Grimmia montana	Sun grimmia	G5?	S2				
Grimmia ovalis		G5?	S1				
Grimmia teretinervis		G3G5	S1				
Grimmia torquata	Twisted-leaved grimmia	G3G5	S2				
Grimmia trichophylla	Hair-pointed grimmia	G5?	S1				
Herzogiella seligeri		G3G4	S1				
Heterocladium dimorphum		G4G5	S1				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Homalothecium nevadense		G4	S2				
Homalothecium pinnatifidum		G4	S2				
Hygroamblystegium tenax		G5	S2				
Hygrohypnum alpestre		G3G5	S1				
Hygrohypnum cochlearifolium		G4	S1				
Hygrohypnum eugyrium		G3G5	S1				
Hygrohypnum molle		G4G5	S1S2				
Hygrohypnum ochraceum		G5	S2				
Hygrohypnum smithii		G3G5	S1				
Hygrohypnum styriacum		GU	S2				
Hylocomiastrum pyrenaicum		G4G5	S1				
Hypnum callichroum		G5?	S1				
Hypnum pallescens		G5	S2				
Hypnum procerrimum		G3G4	S2				
Hypnum recurvatum		G3G5	S2				
Jaffueliobryum raui		G4?	S1				
Jaffueliobryum wrightii		G4G5	S2				
Kiaeria blyttii	Blytt's fork moss	G5	S2				
Kiaeria starkei	Alpine broom moss	G5	S2				
Leptodictyum humile		G5	S1				
Lescuraea saxicola		G4G5	S1				
Leskea gracilescens		G5	S1				
Leskea obscura		G5	S1				

MOSSES (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Leskeella nervosa		G5	S2				
Loeskypnum badium		G4G5	S1				
Meesia longiseta		G4?	S1				
Mnium ambiguum		G5	S2				
Myurella sibirica		G4?	S1				
Myurella tenerrima		G3G4	S2				
Neckera pennata		G5	S2S3				
Oligotrichum aligerum		G5	S1S2				
Oligotrichum hercynicum	Hercynian hair moss	G5	S2				
Oligotrichum parallelum		G5	S1S2				
Oreas martiana		G5?	S1				
Orthothecium intricatum		G4G5	S1				
Orthothecium strictum		G5?	S1S2				
Orthotrichum pallens		G5	S2				
Orthotrichum pumilum		G5	S1S2				
Orthotrichum pylaisii		G4G5	S1S2				
Orthotrichum rivulare		G4	S1				
Oxystegus tenuirostris	Acid-soil moss	G4	S1				
Phascum cuspidatum	Cuspidate earth moss	G5	S2				
Philonotis marchica		G5	S1				
Physcomitrium hookeri	Bladder-cap moss	G2G4	S1				
Physcomitrium pyriforme	Urn moss	G5	S1				
Plagiobryum demissum		G3G5	S1				
Plagiobryum zieri		G4G5	S2				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Plagiomnium ciliare		G5	S2				
Pogonatum dentatum	Hair-like pogonatum	G3G5	S2				
Pogonatum urnigerum	Urn-like pogonatum	G5	S2S3				
Pohlia andalusica		G3G5	S1				
Pohlia annotina		G4G5	S1				
Pohlia atropurpurea		G4G5	S1				
Pohlia brevinervis		G1G2	S1				
Pohlia bulbifera		G4G5	S1				
Pohlia crudoides		G2G4	S1				
Pohlia drummondii		G3G4	S2				
Pohlia filum		G4G5	S1				
Pohlia longicolla		G4G5	S1				
Pohlia obtusifolia		G2G4	S1				
Pohlia vexans		G3G5	S1				
Polytrichum longisetum	Slender hairy-cap	G5	S1				
Pseudobryum cinclidioides		G5	S2				
Pseudoleskea patens		G5	S2				
Pseudoleskea stenophylla		G5?	S2				
Pseudoleskeella sibirica		G5?	S2				
Pterygoneurum ovatum	Hairy-leaved beardless moss	G5	S1				
Pterygoneurum subsessile		G4?	S2				
Racomitrium aciculare		G5	S1				
Racomitrium elongatum		GU	S1				
Racomitrium fasciculare		G5	S2				
Racomitrium heterostichum		G5	S2?				

MOSSES (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Racomitrium microcarpon		GNRQ	S1?				
Racomitrium sudeticum		G5?	S1S2				
Rhizomnium andrewsianum		G3G5	S1				
Rhizomnium magnifolium		G4G5	S2				
Rhizomnium nudum		G4	S2				
Rhodobryum ontariense		G5	S2				
Rhytidiadelphus squarrosus		G4G5	S1				
Schistidium agassizii	Elf bloom moss	G3G5	S1				
Schistidium pulvinatum		G5	S1				
Schistidium tenerum	Thread bloom moss	G5?	S2				
Schistidium trichodon		G2G4	S1				
Schistostega pennata	Luminous moss	G3G4	S1S2				
Scouleria aquatica		G4	S2				
Seligeria calcarea	Chalk brittle moss	G4?	S1				
Seligeria campylopoda		G3G5	S2				
Seligeria donniana	Donian beardless moss	G4G5	S2				
Seligeria subimmersa		G5?	S1				
Sphagnum balticum	Peat moss	G2G4	S1				
Sphagnum compactum	Neat bog moss	G5	S2				
Sphagnum contortum	Twisted bog moss	G5	S2				
Sphagnum fallax		G5	S2				
Sphagnum fimbriatum	Fringed bog moss	G5	S2				
Sphagnum lindbergii	Lindberg's bog moss	G5?	S2				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Sphagnum platyphyllum		G5	S1				
Splachnum ampullaceum	Flagon-fruited splachnum	G5	S2				
Splachnum sphaericum	Globe-fruited splachnum	G3G5	S2				
Splachnum vasculosum	Large-fruited splachnum	G3G5	S2				
Tayloria froelichiana	Froelichian splachnum	G3G5	S1				
Tayloria hornschuchii	Small-kettle moss	G3G5	S1				
Tayloria lingulata	Tongue-leaf small-kettle moss	G3G5	S2				
Tayloria serrata	Slender splachnum	G4	S2				
Tayloria splachnoides	Splachnoid cyrtodon	G2G3	S1				
Tetraplodon urceolatus	Alpine lemming moss	G3G5	S2				
Thamnobryum neckeroides		G4	S1				
Thuidium philibertii		G5	S1S2				
Timmia norvegica		G4?	S2				
Timmia sibirica		G5?	S1				
Tortella inclinata	Bent screw moss	G4G5	S2				
Tortula bartramii		G2G4	S1				
Tortula caninervis		G5?	S1				
Tortula subulata		G5?	S1				
Trichodon cylindricus	Narrow-fruited fork moss	G4G5	S1				
Ulota curvifolia		G3G5	S2S3				
Voitia nivalis	Hidden kettle moss	G4	S1				
Warnstorfia pseudostraminea	Brown moss	G3	S1				
Warnstorfia tundrae	Brown moss	GU	S2				
Weissia controversa	Green-cushioned weissia	G5	S2				
Zygodon viridissimus		G5	S1				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Adenocaulon bicolor	Pathfinder	G5?	S2		May Be At Risk		
Adiantum aleuticum	Western maidenhair fern	G5?	S2		Sensitive		
Agoseris lackschewitzii	Pink false dandelion	G4	S2		Sensitive		
Agrostis exarata	Spike redtop	G5	S2		May Be At Risk		
Agrostis humilis	Low bent grass	G4	S1		Sensitive		
Agrostis mertensii	Northern bent grass	G5	S2		Sensitive		
Agrostis thurberiana	Thurber's bent grass	G5	S2				
Allium geyeri	Geyer's onion	G4G5	S2		May Be At Risk		
Almutaster pauciflorus	Few-flowered aster	G4	S2				
Alopecurus alpinus	Alpine foxtail	G5	S2		May Be At Risk		
Amaranthus californicus	Californian amaranth	G4	S1S2		May Be At Risk		
Ambrosia acanthicarpa	Bur ragweed	G5	S2		May Be At Risk		
Anagallis minima	Chaffweed	G5	S1S2		May Be At Risk		
Anemone quinquefolia	Wood anemone	G5	S1		May Be At Risk		
Antennaria aromatica	Scented everlasting	G4	S2		May Be At Risk		
Antennaria corymbosa	Corymbose everlasting	G5	S1		May Be At Risk		
Antennaria luzuloides	Silvery everlasting	G5	S1		May Be At Risk		
Antennaria monocephala ssp angustata	One-headed everlasting	G4G5 TNR	S2				
Aquilegia formosa	Sitka columbine	G5	S2		Sensitive		
Aquilegia jonesii	Jones' columbine	G4	S2		Sensitive		
Arabidopsis salsuginea	Mouse-ear cress	G4G5	S1		May Be At Risk		
Arabis lemmonii	Lemmon's rock cress	G5	S2		Sensitive		
Arctagrostis arundinacea	Polar grass	G5T5	S1				
Arenaria longipedunculata	Sandwort	G3Q	S1		May Be At Risk		

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Aristida purpurea var longiseta	Red three-awn	G5T5?	S1		May Be At Risk		
Arnica amplexicaulis	Stem-clasping arnica	G4G5	S2		May Be At Risk		
Arnica longifolia	Long-leaved arnica	G5	S2		Sensitive		
Arnica parryi	Nodding arnica	G5	S2		May Be At Risk		
Artemisia furcata var furcata	Forked wormwood	G4TNR	S1		May Be At Risk		
Artemisia tilesii	Herriot's sagewort	G5	S2		Sensitive		
Artemisia tridentata	Big sagebrush	G5	S2		May Be At Risk		
Asclepias viridiflora	Green milkweed	G5	S1		May Be At Risk		
Aster campestris	Meadow aster	G5	S2		May Be At Risk		
Aster eatonii	Eaton's aster	G5	S2		May Be At Risk		
Aster umbellatus	Flat-topped white aster	G5	S2		May Be At Risk		
Aster x maccallae		GNA	S1S2				
Astragalus bodinii	Bodin's milk vetch	G4	S1		May Be At Risk		
Astragalus kentrophyta var kentrophyta	Prickly milk vetch	G5T4	S1S2		May Be At Risk		
Astragalus purshii	Pursh's milk vetch	G5	S2		Sensitive		
Athyrium alpestre var americanum	Alpine spleenwort	G4G5	S1				
Atriplex powellii	Powell's saltbush	G4	S1		Sensitive		
Atriplex truncata	Saltbush	G5	S1		May Be At Risk		
Bidens frondosa	Common beggarticks	G5	S2		May Be At Risk		
Blysmus rufus	Red bulrush	G5	S1		Sensitive		
Boisduvalia glabella	Smooth boisduvalia	G5	S2		May Be At Risk		
Bolboschoenus fluviatilis	River bulrush	G5	S1		May Be At Risk		
Boschniakia rossica	Ground-cone	G5	S1		May Be At Risk		
Botrychium ascendens	Ascending grape fern	G2G3	S1		May Be At Risk		
Botrychium campestre	Field grape fern	G3G4	S1		May Be At Risk		
Botrychium crenulatum		G3	S1		May Be At Risk		

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Botrychium lanceolatum	Lance-leaved grape fern	G5	S2		Sensitive		
Botrychium lineare	Straight-leaf moonwort	G1	S1		May Be At Risk		
Botrychium matricariifolium	Chamomile grape-fern	G5	S1				
Botrychium michiganense		G1	SU		Undetermined		
Botrychium minganense	Mingan grape fern	G4	S2S3				
Botrychium multifidum var intermedium	Leather grape fern	G5	S2				
Botrychium pallidum		G3	S1		May Be At Risk		
Botrychium paradoxum	Paradoxical grape fern	G2	S1		May Be At Risk		
Botrychium pedunculosum		G2G3	S1		May Be At Risk		
Botrychium pinnatum		G4?	S1		Sensitive		
Botrychium simplex	Dwarf grape fern	G5	S2		May Be At Risk		
Botrychium spathulatum		G3	S2		May Be At Risk		
Botrychium x watertonense		GNA	S1				
Bouteloua curtipendula	Side-oats grama	G5	S1				
Boykinia heucheriformis	Telesonix	G4	S2		Sensitive		
Brasenia schreberi	Watershield	G5	S1		May Be At Risk		
Braya humilis var maccallae	Leafy braya	G5T2 T3Q	S1		May Be At Risk		
Braya humilis var porsildii		G5TNRQ	S1				
Braya purpurascens	Alpine braya	G5T4T5	S1S2				
Brickellia grandiflora	Large-flowered brickellia	G5	S1S2		Sensitive	Not At Risk	
Bromus latiglumis	Canada brome	G5	S1		May Be At Risk		
Bromus vulgaris	Woodland brome	G5	S2S3		May Be At Risk		

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Calamagrostis lapponica	Lapland reed grass	G5	S1		Sensitive		
Calylophus serrulatus	Shrubby evening-primrose	G5	S2		May Be At Risk		
Camassia quamash var quamash	Blue camas	G5T3T5	S2		May Be At Risk		
Camissonia andina	Upland evening-primrose	G4	S1		May Be At Risk		
Campanula aparinoides	Marsh bellflower	G5	S1		May Be At Risk		
Campanula uniflora	Alpine harebell	G4	S2		Sensitive		
Cardamine bellidifolia	Alpine bitter cress	G5	S2S3		Sensitive		
Cardamine oligosperma var kamtschatica	Mountain cress	G5T3T5	S2S3				
Cardamine pratensis	Meadow bitter cress	G5	S2		May Be At Risk		
Carex adusta	Browned sedge	G5	S1		May Be At Risk		
Carex aperta	Open sedge	G4	S1		Sensitive		
Carex arcta	Narrow sedge	G5	S1		May Be At Risk		
Carex backii	Back's sedge	G4	S2		May Be At Risk		
Carex capitata	Capitate sedge	G5	S2		Sensitive		
Carex cordillerana		GNR	S1		Undetermined		
Carex crawei	Crawe's sedge	G5	S2		May Be At Risk		
Carex echinata ssp echinata	Little prickly sedge	G5T5	S1		Undetermined		
Carex glacialis	Glacier sedge	G5	S2		Sensitive		
Carex heleonastes	Hudson Bay sedge	G4	S2		Sensitive		
Carex heteroneura var epapillosa	Blackened sedge	G5TNR	S1		Sensitive		
Carex hookerana	Hooker's sedge	G4?	S2		Sensitive		
Carex houghtoniana	Sand sedge	G5	S2		May Be At Risk		
Carex hystericina	Porcupine sedge	G5	S1		May Be At Risk		
Carex illota	Small-headed sedge	G4G5	S1		Sensitive		
Carex incurviformis var incurviformis	Seaside sedge	G4G5 T4T5	S2		Sensitive		

VASCULAR PLANTS (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Carex infirminervia		G4G5	S1		Undetermined		
Carex lachenalii	Two-parted sedge	G5	S2		Sensitive		
Carex lacustris	Lakeshore sedge	G5	S2		May Be At Risk		
Carex lenticularis var dolia	Lens-fruited sedge	G5T3Q	S1				
Carex lenticularis var lenticularis		G5T5	S1				
Carex leptopoda	Taper-fruit short-scale sedge	G5	S1		May Be At Risk		
Carex mertensii	Purple sedge	G5	S1		Sensitive		
Carex misandra	Nodding sedge	G5	S1S2				
Carex nebrascensis	Nebraska sedge	G5	S2		May Be At Risk	Not At Risk	
Carex oligosperma	Few-fruited sedge	G5?	S1S2		Sensitive		
Carex parryana var parryana	Parry's sedge	G4T4	S1S2		Sensitive		
Carex paysonis	Payson's sedge	G4	S1S2		Sensitive		
Carex pedunculata	Stalked sedge	G5	S1		May Be At Risk		
Carex petasata	Pasture sedge	G5	S1S2		May Be At Risk		
Carex platylepis	Broad-scaled sedge	G4?	S1S2				
Carex podocarpa	Alpine sedge	G4G5	S2		Sensitive		
Carex preslii	Presl sedge	G4	S2		May Be At Risk		
Carex saximontana		G5	S1		May Be At Risk		
Carex scoparia	Broom sedge	G5	S1		May Be At Risk		
Carex supina	Weak sedge	G5	S1		Sensitive		
Carex umbellata	Umbellate sedge	G5	S1		Undetermined		
Carex vesicaria	Blister sedge	G5	S1		Undetermined		
Carex vulpinoidea	Fox sedge	G5	S2		May Be At Risk		
Castilleja parviflora	Small-flowered Indian paintbrush	G5?	S1		Sensitive		
Castilleja sessiliflora	Downy paintbrush	G5	S1		May Be At Risk		
Cerastium brachypodum		G5	S1		May Be At Risk		
Cheilanthes gracillima	Lace fern	G4G5	S1		May Be At Risk		

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Chenopodium atrovirens		G5	S1		May Be At Risk		
Chenopodium desiccatum		G5	S1S2		May Be At Risk		
Chenopodium incanum		G5	S1		May Be At Risk		
Chenopodium subglabrum	Smooth narrow-leaved goosefoot	G3G4	S1		May Be At Risk	Threatened	Threatened
Chenopodium watsonii	Watson's goosefoot	G5	S1		May Be At Risk		
Conimitella williamsii		G3?	S2		May Be At Risk		
Coreopsis tinctoria	Common tickseed	G5	S2S3		Sensitive		
Crepis atribarba	Hawk's-beard	G5	S2		May Be At Risk		
Crepis intermedia	Intermediate hawk's-beard	G5	S2		May Be At Risk		
Crepis occidentalis	Small-flowered hawk's-beard	G5	S2		May Be At Risk		
Cryptantha kelseyana	Kelsey's cat's eye	G4	S1		May Be At Risk		
Cryptantha minima	Tiny cryptanthe	G5	S2	Endangered	At Risk	Endangered	Endangered
Cryptogramma stelleri	Steller's rock brake	G5	S2		May Be At Risk		
Cuscuta gronovii	Common dodder	G5	S1		May Be At Risk		
Cynoglossum virginianum var boreale	Wild comfrey	G5T4T5	S1		May Be At Risk		
Cyperus schweinitzii	Sand nut-grass	G5	S2		May Be At Risk		
Cyperus squarrosus	Awned nut-grass	G5	S1		May Be At Risk		
Cypripedium montanum	Mountain lady's-slipper	G4	S2		May Be At Risk		
Cystopteris montana	Mountain bladder fern	G5	S2		May Be At Risk		
Danthonia spicata	Poverty oat grass	G5	S1S2		May Be At Risk		
Deschampsia elongata	Slender hair grass	G5	S1		May Be At Risk		
Diphasiastrum sitchense	Ground-fir	G5	S2		May Be At Risk		

VASCULAR PLANTS (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Douglasia montana	Mountain dwarf-primula	G4?	S1		May Be At Risk		
Downingia laeta	Downingia	G5	S2		May Be At Risk		
Draba densifolia		G5	S1S2		Sensitive		
Draba fladnizensis		G4	S1S2		May Be At Risk		
Draba glabella		G4G5	S1		May Be At Risk		
Draba kananaskis	Kananaskis whitlow-grass	G1Q	S1				
Draba longipes		G4	S1S2				
Draba macounii	Macoun's whitlow-grass	G3G4	S2		Sensitive		
Draba porsildii	Porsild's whitlow-grass	G3G4	S2		May Be At Risk		
Draba reptans		G5	S1S2		May Be At Risk		
Draba ventosa		G3	S2		Sensitive		
Drosera linearis	Slender-leaved sundew	G4	S2		Sensitive		
Dryopteris cristata	Crested shield fern	G5	S1		May Be At Risk		
Dryopteris filix-mas	Male fern	G5	S1		May Be At Risk		
Elatine triandra	Waterwort	G5	S1		May Be At Risk		
Eleocharis compressa var borealis	Flattened spike-rush	G5T5	S1				
Eleocharis engelmannii	Engelmann's spike-rush	G4G5Q	S1		May Be At Risk		
Ellisia nyctelea	Waterpod	G5	S2		May Be At Risk		
Elodea bifoliata	Two-leaved waterweed	G4G5	S1		May Be At Risk		
Elymus scribneri	Scribner's wheat grass	G5	S2		Sensitive		
Epilobium clavatum		G5	S2		Sensitive		
Epilobium glaberrimum ssp fastigiatum		G5T4T5	S1		Sensitive		
Epilobium halleanum		G5	S1		May Be At Risk		
Epilobium lactiflorum		G5	S2		May Be At Risk		
Epilobium leptocarpum		G5	S1		May Be At Risk		

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Epilobium luteum		G5	S1		Sensitive		
Epilobium saximontanum	Rocky Mountain willowherb	G5	S1		May Be At Risk		
Erigeron divergens	Fleabane	G5	S1		May Be At Risk		
Erigeron flagellaris	Creeping fleabane	G5	S1S2		May Be At Risk		
Erigeron hyssopifolius	Wild daisy fleabane	G5	S1		May Be At Risk		
Erigeron lackschewitzii	Front-range fleabane	G3	S1		May Be At Risk		
Erigeron pallens	Pale alpine fleabane	G4	S2		Sensitive		
Erigeron radicatus	Dwarf fleabane	G3	S2		Sensitive	Not At Risk	
Erigeron trifidus	Trifid-leaved fleabane	G2G3Q	S1S2		Sensitive		
Eriogonum cernuum	Nodding umbrella-plant	G5	S2		May Be At Risk		
Eriophorum callitrix	Beautiful cotton grass	G5	S2		Sensitive		
Eupatorium maculatum	Spotted Joe-pye weed	G5	S1S2		May Be At Risk		
Festuca altaica	Northern rough fescue	G5	S2		Sensitive		
Festuca minutiflora	Tiny-flowered fescue	G5	S2		Sensitive		
Festuca occidentalis	Western fescue	G5	S1		May Be At Risk		
Festuca subulata		G5	S1		May Be At Risk		
Festuca viviparoidea ssp krajinae	Viviparous fescue	G4G5TNR	S1		Sensitive		
Fraxinus pennsylvanica	Green ash	G5	S1		May Be At Risk		
Galium bifolium	Two-leaved Bedstraw	G5	S1		May Be At Risk		
Gayophytum racemosum	Low willowherb	G5	S1		May Be At Risk		
Gentiana fremontii	Marsh gentian	G4	S2		May Be At Risk		
Gentianopsis detonsa ssp raupii	Northern fringed gentian	G3G5T3T5	S1		Sensitive		
Geranium carolinianum	Carolina wild geranium	G5	S1		Sensitive		
Glyceria elata	Tufted tall manna grass	G4G5	S2		Sensitive		

VASCULAR PLANTS (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Gratiola neglecta	Clammy hedge-hyssop	G5	S2S3		Sensitive		
Gymnocarpium disjunctum		G4	S1		Sensitive		
Gymnocarpium jessoense	Northern oak fern	G5	S1		May Be At Risk		
Halimolobos virgata	Slender mouse-ear-cress	G4	S1S2	Data Deficient	At Risk	Threatened	Threatened
Hedyotis longifolia	Long-leaved bluets	G4G5	S2		May Be At Risk		
Heliotropium curassavicum	Spatulate-leaved heliotrope	G5	S1		Sensitive		
Heuchera glabra	Alpine alumroot	G5	S1		Sensitive		
Hierochloe alpina	Alpine sweet grass	G5	S2		Sensitive		
Hippuris montana	Mountain mare's-tail	G4	S1		May Be At Risk		
Huperzia haleakalae		G4G5	S2		Undetermined		
Huperzia selago	Mountain club-moss	G5	S1		Undetermined		
Hydrophyllum capitatum	Woollen-breeches	G4?	S2S3		Sensitive		
Hymenopappus filifolius	Tufted hymenopappus	G5	S2		May Be At Risk		
Hypericum majus	Large Canada St. John's-wort	G5	S2		Sensitive		
Hypericum scouleri ssp scouleri	Western St. John's-wort	G5T3T5	S1S2		Sensitive		
Iliamna rivularis	Mountain hollyhock	G5	S2		May Be At Risk		
Iris missouriensis	Western blue flag	G5	S1	Special Concern	At Risk	Threatened	Threatened
Isoetes bolanderi var bolanderi	Bolander's quillwort	G4	S1		May Be At Risk	Threatened	Threatened
Isoetes echinospora	Northern quillwort	G5?	S1		May Be At Risk		
Isoetes maritima		G4	S1		May Be At Risk		
Isoetes occidentalis		G4G5	S1		May Be At Risk		
Isoetes x truncata		GNA	S1				
Juncus biglumis	Two-glumed rush	G5	S2		Sensitive		
Juncus brevicaudatus	Short-tail rush	G5	S2		Sensitive		
Juncus nevadensis	Nevada rush	G5	S1		May Be At Risk		

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Juncus parryi	Parry's rush	G4G5	S2		Secure		
Juncus regelii	Regel's rush	G4?	S1		May Be At Risk		
Juncus stygius var americanus	Marsh rush	G5T5	S2		May Be At Risk		
Koenigia islandica	Koenigia	G4	S1		May Be At Risk		
Lactuca biennis	Tall blue lettuce	G5	S2		May Be At Risk		
Larix occidentalis	Western larch	G5	S2		May Be At Risk		
Lathyrus palustris	Vetchling peavine	G5	S1				
Lesquerella arctica var purshii	Northern bladderpod	G4TNR	S2		Sensitive		
Lewisia pygmaea var pygmaea	Dwarf bitter-root	G5T5	S2		Sensitive		
Lewisia rediviva	Bitter-root	G5	S1		May Be At Risk		
Leymus mollis	American dune grass	G5	S1		May Be At Risk		
Lilaea scilloides	Flowering-quillwort	G5?	S1		May Be At Risk		
Linanthus septentrionalis	Linanthus	G5	S2		May Be At Risk		
Listera caurina	Western twayblade	G4?	S1		May Be At Risk		
Listera convallarioides	Broad-lipped twayblade	G5	S2		May Be At Risk		
Lithophragma glabrum	Rockstar	G4G5	S2		May Be At Risk		
Lithophragma parviflorum	Small-flowered rockstar	G5	S2		May Be At Risk		
Lobelia spicata	Spiked lobelia	G5	S1		May Be At Risk		
Loiseleuria procumbens	Alpine azalea	G5	S1S2		Sensitive		
Lomatium cous	Biscuit-root	G5	S1S2		May Be At Risk		
Lomatogonium rotatum	Marsh felwort	G5	S2S3		May Be At Risk		
Lupinus minimus	Least lupine	G3G4	S1		May Be At Risk		
Lupinus polyphyllus	Large-leaved lupine	G5	S1		May Be At Risk		
Lupinus wyethii	Wyeth's lupine	G5	S1		May Be At Risk		
Luzula acuminata		G5	S1		May Be At Risk		
Luzula groenlandica		G4	S1		Sensitive		
Luzula rufescens	Reddish wood-rush	G5	S1		Sensitive		
Lycopodiella inundata	Bog club-moss	G5	S1		Sensitive		

VASCULAR PLANTS (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Lysimachia hybrida	Lance-leaved loosestrife	G5	S2		May Be At Risk		
Malaxis monophylla	White adder's-mouth	G5	S2		Sensitive		
Malaxis paludosa	Bog adder's-mouth	G4	S1		May Be At Risk		
Marsilea vestita	Hairy pepperwort	G5	S2		May Be At Risk		
Melica smithii	Melic grass	G4	S1S2		May Be At Risk		
Melica spectabilis	Onion grass	G5	S2		May Be At Risk		
Mertensia lanceolata	Lance-leaved lungwort	G5	S2		May Be At Risk		
Mertensia longiflora	Large-flowered lungwort	G4G5	S2		May Be At Risk		
Microseris nutans	Nodding scorzonella	G5	S2		May Be At Risk		
Mimulus breweri	Brewer's monkeyflower	G5	S1		May Be At Risk		
Mimulus floribundus	Small yellow monkeyflower	G5	S1		Sensitive		
Mimulus glabratus	Smooth monkeyflower	G5	S1		May Be At Risk		
Mimulus ringens	Square-stem monkeyflower	G5	S1		May Be At Risk		
Mimulus tilingii		G5	S1		May Be At Risk		
Minuartia elegans	Purple alpine sandwort	G4G5	S1S2		Sensitive		
Monotropa hypopithys	Pinesap	G5	S2		May Be At Risk		
Montia linearis	Linear-leaved montia	G5	S1		May Be At Risk		
Montia parvifolia	Small-leaved montia	G4G5	S1		May Be At Risk		
Muhlenbergia racemosa	Marsh muhly	G5	S1		May Be At Risk		
Munroa squarrosa	False buffalo grass	G5	S1		May Be At Risk		
Najas flexilis	Slender naiad	G5	S1S2		May Be At Risk		
Nemophila breviflora	Small baby-blue-eyes	G5	S1S2		May Be At Risk		
Nothocalais cuspidata	Prairie false dandelion	G5	S2		May Be At Risk		
Nuttallanthus canadensis	Field toad-flax	G5	S1		May Be At Risk		
Nymphaea leibergii	Pygmy water-lily	G5	S1		May Be At Risk		
Nymphaea tetragona	White water-lily	G5	S1		May Be At Risk		

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Oenothera flava	Low yellow evening-primrose	G5	S2		May Be At Risk		
Onosmodium molle	Western false gromwell	G4G5	S2		May Be At Risk		
Oryzopsis canadensis	Canadian rice grass	G5	S1		Undetermined		
Oryzopsis exigua	Little rice grass	G5	S1		May Be At Risk		
Oryzopsis micrantha	Little-seed rice grass	G5	S2		May Be At Risk		
Osmorhiza longistylis	Smooth sweet cicely	G5	S2		May Be At Risk		
Osmorhiza purpurea	Purple sweet cicely	G4G5	S2		May Be At Risk		
Oxytropis campestris var davisii		G5T3	S2?				
Oxytropis lagopus var conjugans	Hare-footed locoweed	G4G5T3	S1		May Be At Risk		
Packera subnuda	Ragwort	G5	S2		May Be At Risk		
Panicum leibergii	Leiberg's millet	G5	S1				
Panicum wilcoxianum		G5	S1				
Papaver pygmaeum		G3	S2		Sensitive		
Papaver radicatum ssp kluanense		G5T3T4	S2		May Be At Risk		
Parietaria pensylvanica	American pellitory	G5	S2		Sensitive		
Pedicularis capitata	Large-flowered lousewort	G5	S2		Sensitive		
Pedicularis flammea	Flame-colored lousewort	G3G5	S2		May Be At Risk		
Pedicularis lanata	Woolly lousewort	G4G5	S2		Sensitive		
Pedicularis langsdorfii ssp arctica	Arctic lousewort	G5T5	S2		Sensitive		
Pedicularis oederi		G5	S1		May Be At Risk		
Pedicularis racemosa	Leafy lousewort	G5	S1		Sensitive		
Pedicularis sudetica	Purple rattle	G5	S1		May Be At Risk		
Pellaea gastonyi	Gaston's cliff brake	G2G4	S2		May Be At Risk		

VASCULAR PLANTS (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Pellaea glabella	Smooth cliff brake	G5	S2		May Be At Risk		
Pellaea glabella ssp occidentalis		G5T4	S1				
Pellaea glabella ssp simplex		G5T4?	S2				
Penstemon fruticosus var scouleri	Shrubby beardtongue	G4T4	S2		Sensitive		
Phacelia linearis	Linear-leaved scorpionweed	G5	S2		May Be At Risk		
Phacelia lyallii	Lyall's scorpionweed	G3	S2		May Be At Risk		
Phegopteris connectilis	Northern beech fern	G5	S2		May Be At Risk		
Philadelphus lewisii	Mock orange	G5	S1		May Be At Risk		
Phlox gracilis ssp gracilis	Slender phlox	G5T5	S1		May Be At Risk		
Physocarpus malvaceus	Mallow-leaved ninebark	G4G5	S1		May Be At Risk		
Physostegia ledinghamii	False dragonhead	G3?	S2		May Be At Risk		
Picradeniopsis oppositifolia	Picradeniopsis	G5?	S1		May Be At Risk		
Pinguicula villosa	Small butterwort	G4	S1		Sensitive		
Pinus albicaulis	Whitebark pine	G4	S2		May Be At Risk		
Pinus flexilis	Limber pine	G5	S2		May Be At Risk		
Plantago canescens	Western ribgrass	G4G5	S2		Sensitive		
Plantago maritima	Sea-side plantain	G5	S1		May Be At Risk		
Platanthera stricta	Slender bog orchid	G5	S2		May Be At Risk		
Poa gracillima	Pacific bluegrass	G4	S2				
Poa laxa ssp banffiana		G5?T1	S1		Secure		
Poa lettermanii	Letterman's bluegrass	G4	S1		Exotic/Alien		
Poa stenantha	Bluegrass	G5	S1		May Be At Risk		
Polanisia dodecandra	Clammyweed	G5	S2		May Be At Risk		
Polygala paucifolia	Fringed milkwort	G5	S1		May Be At Risk		

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Polygonum minimum	Least knotweed	G5	S2		May Be At Risk		
Polygonum polygaloides ssp confertiflorum	Watson's knotweed	G4G5T3T4	S2		Sensitive		
Polypodium hesperium	Western polypody	G5	S1S2		Sensitive		
Polypodium sibiricum		G5?	S2S3		Sensitive		
Potamogeton foliosus	Leafy pondweed	G5	S2		Secure		
Potamogeton nodosus	Longleaf pondweed	G5	S1		May Be At Risk		
Potamogeton obtusifolius	Blunt-leaved pondweed	G5	S2		Sensitive		
Potamogeton robbinsii	Robbins' pondweed	G5	S1		Sensitive		
Potamogeton strictifolius	Linear-leaved pondweed	G5	S2		Sensitive		
Potentilla drummondii	Drummond's cinquefoil	G5	S2		Sensitive		
Potentilla finitima	Sandhills cinquefoil	G2G4Q	S1		May Be At Risk		
Potentilla hookeriana	Hooker's cinquefoil	G4	S2		Undetermined		
Potentilla macounii	Macoun's cinquefoil	G1?	S1		May Be At Risk		
Potentilla multifida	Branched cinquefoil	G5	S1		May Be At Risk		
Potentilla multisecta	Smooth-leaved cinquefoil	GNR	S2		Sensitive		
Potentilla paradoxa	Bushy cinquefoil	G5	S2		Sensitive		
Potentilla plattensis	Low cinquefoil	G4	S1S2		May Be At Risk		
Potentilla subjuga		G4	S1		May Be At Risk		
Potentilla villosa	Hairy cinquefoil	G4	S2		Sensitive		
Prenanthes alata	White lettuce	G5	S1		May Be At Risk		
Prenanthes sagittata	Purple rattlesnakeroot	G3G4	S2		May Be At Risk		
Primula egaliksensis	Primrose	G4	S2		Sensitive		
Psilocarphus brevissimus var brevissimus	Dwarf woollyheads	G4T4?	S2		May Be At Risk		

VASCULAR PLANTS (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Puccinellia distans ssp hauptiana		G5T3T4	S1		May Be At Risk		
Pyrola grandiflora	Arctic wintergreen	G5	S2		Sensitive		
Pyrola picta	White-veined wintergreen	G4G5	S1		May Be At Risk		
Ranunculus glaberrimus	Early buttercup	G5	S2		May Be At Risk		
Ranunculus nivalis	Snow buttercup	G5	S1		Sensitive		
Ranunculus occidentalis var brevistylis	Western buttercup	G5T5	S2		Secure		
Ranunculus uncinatus	Hairy buttercup	G5	S2		Sensitive		
Rhododendron lapponicum	Lapland rose-bay	G5	S2		Sensitive		
Rhynchospora capillacea	Slender beak-rush	G4	S1		May Be At Risk		
Ribes laxiflorum	Mountain currant	G5	S2		May Be At Risk		
Romanzoffia sitchensis	Sitka romanzoffia	G4	S2		Sensitive		
Rorippa curvipes var truncata	Blunt-leaved yellow cress	G5	S1S2		May Be At Risk		
Rorippa sinuata	Spreading yellow cress	G5	S1		May Be At Risk		
Rorippa tenerrima	Slender cress	G5	S1S2		May Be At Risk		
Rubus x paracaulis	Hybrid dwarf raspberry	GNA	S1				
Rumex paucifolius	Alpine sheep sorrel	G5	S1		Sensitive		
Ruppia cirrhosa	Widgeon-grass	G5	S1S2		Sensitive		
Sagina nodosa		G5	S1		May Be At Risk		
Sagittaria latifolia	Broad-leaved arrowhead	G5	S1		May Be At Risk		
Salix alaxensis var alaxensis	Alaska willow	G5T4T5	S2		Sensitive		
Salix commutata	Changeable willow	G5	S2		Sensitive		
Salix lanata ssp calcicola	Woolly willow	G4T4	S1		May Be At Risk		
Salix raupii	Raup's willow	G2	S1		May Be At Risk		
Salix sitchensis	Sitka willow	G5	S1		May Be At Risk		
Salix stolonifera	Willow	G4G5	S1		May Be At Risk		

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Salix tyrrellii	Tyrrell's willow	G5T2	S1				
Sarracenia purpurea	Pitcher-plant	G5	S2		Sensitive		
Saussurea americana	American saw-wort	G5	S1		May Be At Risk		
Saxifraga ferruginea		G5	S2		Sensitive		
Saxifraga flagellaris ssp setigera	Spiderplant	G5T3T5	S2		May Be At Risk		
Saxifraga nivalis	Alpine saxifrage	G4G5	S2		Sensitive		
Saxifraga odontoloma		G5	S1		May Be At Risk		
Schoenoplectus heterochaetus	Slender bulrush	G5	S1		Undetermined		
Scirpus pallidus	Pale bulrush	G5	S1		May Be At Risk		
Sedum divergens	Spreading stonecrop	G5?	S2		Sensitive		
Selaginella wallacei	Wallace's little club-moss	G5	S1		Sensitive		
Shinnersoseris rostrata	Annual skeletonweed	G5?	S2		May Be At Risk		
Silene antirrhina	Sleepy catchfly	G5	S1		May Be At Risk		
Silene involucrata	Alpine bladder catchfly	G5	S1S2		May Be At Risk		
Sisyrinchium septentrionale	Pale blue-eyed grass	G3G4	S2S3		Sensitive		
Sparganium fluctuans		G5	S1		May Be At Risk		
Sparganium glomeratum		G4?	S1		May Be At Risk		
Sparganium hyperboreum	Northern bur-reed	G5	S1		Sensitive		
Spartina pectinata	Prairie cord grass	G5	S1		May Be At Risk		
Spergularia salina	Salt-marsh sand spurry	G5	S2		May Be At Risk		
Sphenopholis obtusata	Prairie wedge grass	G5	S2		May Be At Risk		
Spiraea splendens	Pink meadowsweet	G5	S1		May Be At Risk		
Spiranthes lacera	Northern slender ladies'-tresses	G5	S1		May Be At Risk		
Stellaria americana	American chickweed	G3G4	S1		May Be At Risk		
Stellaria arenicola	Sand-dune chickweed	G5T3	S1			Not At Risk	

VASCULAR PLANTS (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Stellaria crispa	Wavy-leaved chickweed	G5	S2		May Be At Risk		
Stellaria obtusa		G5	S1		May Be At Risk		
Stellaria umbellata		G5	S1		May Be At Risk		
Streptopus roseus	Rose mandarin	G5	S1		May Be At Risk		
Streptopus streptopoides	Twisted-stalk	G5	S1		May Be At Risk		
Suaeda moquinii	Moquin's sea-blite	G5	S2		Sensitive		
Suckleya suckleyana	Poison suckleya	G5	S1S2		May Be At Risk		
Suksdorfia ranunculifolia	Suksdorfia	G5	S2		Sensitive		
Suksdorfia violacea	Blue suksdorfia	G4	S1		Sensitive		
Tanacetum bipinnatum ssp huronense	Indian tansy	G5T4T5	S2		May Be At Risk		
Taxus brevifolia	Western yew	G4G5	S1		Sensitive		
Tellima grandiflora	Fringe-cups	G5	S1		May Be At Risk		
Thelesperma subnudum var marginatum	Greenthread	G5T5	S1		May Be At Risk		
Thuja plicata	Western red cedar	G5	S1S2		May Be At Risk		
Torreyochloa pallida var pauciflora	Few-flowered salt-meadow grass	G5T5	S1				
Townsendia condensata	Alpine townsendia	G4	S2		May Be At Risk		
Townsendia exscapa	Low townsendia	G5	S2		May Be At Risk		
Tradescantia occidentalis	Western spiderwort	G5	S1	Endangered	At Risk	Threatened	Threatened
Triantha occidentalis ssp brevistyla	Western false-asphodel	G5T4	S1		Sensitive		
Triantha occidentalis ssp montana	Western false-asphodel	G5T4T5	S1		Sensitive		
Trichophorum clintonii	Clinton's bulrush	G4	S1		May Be At Risk		
Trichophorum pumilum	Dwarf bulrush	G5	S2		Sensitive		

VASCULAR PLANTS (continued)

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Trillium ovatum	Western wakerobin	G5	S1		May Be At Risk		
Tripterocalyx micranthus	Sand verbena	G5	S1S2	Threatened	At Risk	Endangered	Endangered
Trisetum cernuum	Nodding trisetum	G5	S2				
Trisetum cernuum var canescens	Tall trisetum	G5TNR	S2		May Be At Risk		
Trisetum montanum	Mountain trisetum	G4G5	S1				
Trisetum wolfii	Awnless trisetum	G4	S1		May Be At Risk		
Tsuga heterophylla	Western hemlock	G5	S1		Sensitive		
Utricularia cornuta	Horned bladderwort	G5	S1		May Be At Risk		
Vaccinium ovalifolium	Oval-leaved blueberry	G5	S2		Sensitive		
Veronica catenata	Water speedwell	G5	S2S3		May Be At Risk		
Viola pallens	Macloskey's violet	G5T5	S2				
Viola pedatifida	Crowfoot violet	G5	S2		May Be At Risk		
Viola praemorsa ssp linguifolia		G5T5	S2		May Be At Risk		
Wolffia columbiana	Watermeal	G5	S2		Sensitive		
Woodsia glabella	Smooth woodsia	G5	S1		May Be At Risk		
Yucca glauca	Soapweed	G5	S1	Endangered	At Risk	Threatened	Threatened

VEGETATION COMMUNITIES

Abies bifolia - Pinus albicaulis - Picea engelmannii / Empetrum nigrum	Subalpine fir - whitebark pine - Engelmann spruce / crowberry		S2				
Abies bifolia - Pinus flexilis - Populus tremuloides / Thalictrum venulosum	Subalpine fir - limber pine - aspen / veiny meadow rue		S2?				
Acer negundo / Prunus virginiana	Manitoba maple / choke cherry		S1S2				
Amelanchier alnifolia / Arctostaphylos uva-ursi / Oryzopsis pungens	Saskatoon / common bearberry / northern rice grass		S2S3				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Andromeda polifolia / Sarracenia purpurea / Sphagnum angustifolium	Bog rosemary / pitcher-plant / peat moss		S1S2				
Artemisia cana / Festuca campestris - Stipa curtiseta	Silver sagebrush / mountain rough fescue - western porcupine grass		S1?				
Artemisia longifolia - Chrysothamnus nauseosus	Long-leaved sagewort - rabbitbrush		S1				
Artemisia norvegica - Mertensia paniculata - Leymus innovatus	Mountain sagewort - tall lungwort - hairy wild rye		S1				
Artemisia tridentata ssp. vaseyana - Amelanchier alnifolia	Big sagebrush - saskatoon		S1				
Artemisia tridentata ssp. vaseyana - Rhamnus alnifolia	Big sagebrush - alder-leaved buckthorn		S1				
Atriplex subspicata - Puccinellia nuttalliana - Triglochin palustris string fen	Spearscale saltbrush - Nuttall's salt-meadow grass - slender arrow grass string fen		S1S3				
Betula glandulosa / Festuca campestris	Bog birch / mountain rough fescue		S2S3				
Betula neoalaskana / Ledum groenlandicum	Alaska birch / common Labrador tea		S1S2				
Betula papyrifera - Betula occidentalis / Arctostaphylos uva-ursi	White birch - water birch / common bearberry		S1				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Calamovilfa longifolia - Sporobolus cryptandrus	Sand grass - sand dropseed		S2S3				
Carex limosa - Menyanthes trifoliata - Cardamine pratensis	Mud sedge - buck-bean - meadow bitter cress		S1S2				
Carex limosa - Scheuchzeria palustris / Sphagnum teres - S. subsecundum	Mud sedge - scheuchzeria / thin-leaved peat moss		S1				
Carex limosa / Sphagnum jensenii	Mud sedge / pendant branch peat moss		S1				
Carex oligosperma / Sphagnum subsecundum	Few-fruited sedge / twisted bog moss		S1S2				
Carex pseudocyperus - Calla palustris	Cyperus-like sedge - water arum		S1S2				
Carex rostrata marsh	Beaked sedge marsh		S2				
Chamaedaphne calyculata - Kalmia polifolia / Cladina mitis	Leatherleaf - northern laurel / green reindeer lichen		S1S2				
Crataegus rotundifolia / Heracleum lanatum - Urtica dioica - Viola canadensis	Round-leaved hawthorn / cow parsnip - common nettle - western Canada violet		S1S2				
Danthonia californica - Carex brevior	California oat grass - slender-beaked sedge		S2				
Distichlis stricta - Pascopyrum smithii	Salt grass - western wheat grass		S2				
Eleocharis quinqueflora community	Few-flowered spike-rush community		S1S2				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Elymus lanceolatus - Antennaria parvifolia	Northern wheat grass - small-leaved everlasting		S1				
Elymus lanceolatus - Artemisia dracunculus - Artemisia frigida	Northern wheat grass - dragonwort - pasture sagewort		S1				
Elymus lanceolatus - Elymus trachycaulus	Northern wheat grass - slender wheat grass		S1				
Elymus lanceolatus - Stipa comata	Northern wheat grass - needle-and-thread		S2				
Festuca altaica - Deschampsia caespitosa	Northern rough fescue - tufted hair grass		S1				
Festuca altaica - Leymus innovatus	Northern rough fescue - hairy wild rye		S1				
Festuca campestris - Deschampsia caespitosa	Mountain rough fescue - tufted hair grass		S1				
Festuca campestris - Leymus innovatus	Mountain rough fescue - hairy wild rye		S2S3				
Festuca hallii - Calamovilfa longifolia	Plains rough fescue - sand grass		S1				
Festuca hallii - Koeleria macrantha / Juniperus horizontalis / forbs	Plains rough fescue - June grass / juniper / forbs		S2				
Festuca hallii grassland	Plains rough fescue grassland		S1				
Glyceria borealis - Sium suave - Sparganium angustifolium	Northern manna grass - water parsnip - narrow leaved bur-reed		S1?				
Isoetes bolanderi aquatic community	Bolander's quillwort aquatic community		S1				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Isoetes echinospora aquatic community	Northern quillwort aquatic community		S1				
Juncus filiformis / Sphagnum spp.	Thread rush / peat moss		S1S2				
Juniperus horizontalis / (Koeleria macrantha) / Cladina mitis	Creeping juniper / (June grass) / green reindeer lichen		S1S2				
Juniperus horizontalis / Carex pensylvanica - Eriogonum flavum	Creeping juniper / sun-loving sedge - yellow umbrella-plant		S1S2				
Koeleria macrantha - Artemisia frigida - Linum lewisii	June grass - pasture sagewort - wild blue flax		S2S3				
Larix occidentalis / Rubus parviflorus	Western larch / thimbleberry		S1				
Leymus mollis - Tanacetum bipinnatum ssp. huronense shoreline dune	American dune grass - Indian tansy shoreline dune		S1				
Muhlenbergia asperifolia - Scirpus nevadensis - Distichlis stricta	Scratch grass - Nevada bulrush - salt grass		S1S2				
Pascopyrum smithii - Artemisia ludoviciana	Western wheat grass - prairie sagewort		S1S2				
Pascopyrum smithii - Atriplex nuttallii	Western wheat grass - atriplex		S1				
Pascopyrum smithii - Pyrrocoma uniflora	Western wheat grass - one-flowered ironplant		S1				
Picea engelmannii / Salix vestita	Engelmann spruce / rock willow		S2?				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Picea glauca / Abietinella abietina	White spruce / fern moss		S2S3				
Picea glauca / Betula pumila - Salix bebbiana / Carex eburnea	White spruce / dwarf birch - beaked willow / bristle-leaved sedge		S1?				
Picea glauca / Cetraria islandica	White spruce / lichen		S1?				
Picea glauca / Rosa acicularis / Abietinella abietina	White spruce / prickly rose / fern moss		S1				
Picea mariana / Cladina stellaris	Black spruce / star-tipped reindeer lichen		S1				
Pinus albicaulis - Pinus contorta / Juniperus communis - Leymus innovatus - Linnaea borealis	Whitebark pine - lodgepole pine / ground juniper - hairy wild rye - twinflower		S2S3				
Pinus albicaulis / Juniperus communis - Arctostaphylos uva ursi	Whitebark pine / ground juniper - common bearberry		S2S3				
Pinus flexilis / Arctostaphylos uva ursi - Juniperus horizontalis	Limber pine / common bearberry - creeping juniper		S2S3				
Pinus flexilis scree woodland	Limber pine scree woodland		S1S2				
Populus balsamifera - P. tremuloides / Alopecurus alpinus - Calamagrostis canadensis	Balsam poplar - aspen / alpine foxtail - bluejoint		S1S2				
Populus balsamifera / Rhamnus alnifolia / Equisetum arvense	Balsam poplar / alder-leaved buckthorn		S1				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Populus balsamifera / Viburnum opulus / Matteuccia struthiopteris	Balsam poplar / high-bush cranberry / ostrich fern		S1S2				
Populus deltoides / Glycyrrhiza lepidota - Juncus balticus	Plains cottonwood / wild licorice - wire rush		S2S3				
Populus deltoides / Symphoricarpos occidentalis	Plains cottonwood / buckbrush		S2S3				
Populus tremuloides / Juniperus horizontalis / Carex siccata	Aspen / creeping juniper / hay sedge		S2S3				
Populus tremuloides / Leymus innovatus - Aster conspicuus avalanche community	Aspen / hairy wild rye - showy aster avalanche community		S2				
Populus tremuloides / Rubus parviflorus	Aspen / thimbleberry		S2				
Populus tremuloides / Rubus parviflorus / Aralia nudicaulis	Aspen / thimbleberry / wild sarsaparilla		S2S3				
Pseudotsuga menziesii - Pinus flexilis / Juniperus communis / Festuca campestris	Douglas-fir - limber pine / ground juniper / mountain rough fescue		S2S3				
Puccinellia nuttalliana - Suaeda calceoliformis - Spergularia marina barren	Nuttall's salt-meadow grass - western sea-blite - salt-marsh sand spurry barren		S2				
Rumex venosus sand dune community	Wild begonia sand dune community		S2S3				
Salicornia rubra emergent marsh	Samphire emergent marsh		S2				

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Salix drummondiana / Calamagrostis canadensis	Drummond's willow / bluejoint		S1				
Salix drummondiana / Scirpus microcarpus - Calamagrostis canadensis	Drummond's willow / small-fruited bulrush - bluejoint		S1				
Salix drummondiana / Thalictrum venulosum	Drummond's willow / veiny meadow rue		S1				
Sarcobatus vermiculatus silt dune shrubland	Greasewood silt dune shrubland		S1				
Schizachyrium scoparium - Festuca campestris	Little bluestem - mountain rough fescue		S1?				
Scirpus nevadensis - (Triglochin maritima)	Nevada bulrush - (seaside arrow-grass)		S2S3				
Spartina gracilis - (Pascopyrum smithii)	Alkali cord grass - (western wheat grass)		S2S3				
Stipa curtiseta - S. viridula - Carex spp.	Western porcupine grass - green needle grass - sedges		S2S3				
Stipa richardsonii - Koeleria macrantha - Antennaria parvifolia	Richardson needlegrass - June grass - small-leaved everlasting		S2S3				
Triglochin maritima emergent marsh	Seaside arrow-grass emergent marsh		S2?				

Priority Landforms

SITE NAME	GEOMORPHOLOGY	SUBELEMENT	SIGNIFICANCE
Abraham Lake Area	Flatirons		Provincial
Aden Area	Dikes		Provincial
Airdrie Area	Murdlins		Provincial
Algar Lake	Wooded Bogs with Internal Lawns	Flat Bogs	Provincial
Algar River Sand Hills	Dunes	Transverse Dunes	Provincial
Athabasca Town Area	Flutings	Giant Flutings	Provincial
Audet Lake Area	Patterned Fens	Northern Ribbed Fens	Provincial
Barnaby Ridge Area	Patterned Ground		National
Beaver Mines Area	Valleys	V-Shaped Valleys	Provincial
Beaver Mines Area	Volcanic Rocks		Provincial
Bindloss Area	Salt Depositing Springs		Provincial
Birch Mountains	Non-Patterned Fens with Internal Lawns	Horizontal Fens	Provincial
Birch Mountains	Wooded Bogs without Internal Lawns	Northern Plateau Bogs	Provincial
Bistcho Lake Area	Peat Plateaux		Provincial
Bourque Lake	Glacial Tunnel Lakes		Provincial
Bow Island Area	Megablocks		Provincial
Boyle Area	Glacial Tunnel Lakes		Provincial
Brazeau Reservoir Area	Braided Streams		Provincial
Buffalo Lake Area	Moraine Plateaux		National
Cache Creek Sand Hills	Dunes	Transverse Dunes	Provincial
Cadomin Area	Karst Caves	Joint Caves	National
Calahoo Creek-Wapiti River Area	Warm Springs		Provincial
Cameron Hills	Flutings	Giant Flutings	National
Canmore Area	Hoodoos		Provincial
Canmore Area	Kames	Kame Terraces	Provincial
Canmore Area	Rock-Shelters		Provincial
Canmore Area	Speleothems		Provincial
Cardinal/Brazeau Confluence Area	Eskers		Provincial
Caribou Mountains	Veneer Bogs		Provincial
Chappice Lake	Drift Basins	Saline/Alkaline Lakes	Provincial
Charles Lake	Tectonic Lake Basins	Fault Lakes	Provincial
Chelsea Creek Area	Flutings		National
Cherry Point Area	Earth Flows		Provincial
Clear Hills	Iron Depositing Springs		National

SITE NAME	GEOMORPHOLOGY	SUBELEMENT	SIGNIFICANCE
Coal Lake	Glacial Tunnel Lakes		Provincial
Coal Lake Area	Meltwater Channels	Subglacial Channels	Provincial
Cold Lake	Ice Scour Lakes		Provincial
Cold Lake Area	Baymouth Bars		Provincial
Coleman Area	Volcanic Rocks		Provincial
Comrey Area	Honeycomb Weathering		National
Cooking Lake Area	Megablocks		Provincial
Crowsnest Lake Area	Karst Springs		National
Crowsnest Mountain	Klippes		Provincial
Crowsnest Pass	Flatirons		Provincial
Cypress Hills Area	Ventifacts		National
Davey Lake Area	Murdlins		Provincial
Del Bonita Area	Asymmetric Valleys		National
Drumheller Area	Badlands		Provincial
Drywood Mountain Area	Hanging Valleys		National
Eagle Butte	Impact Structures		Provincial
Edgerton Landslides	Rock Slides		Provincial
Edgerton Sand Hills	Dune Ridges	North Battleford Ridges	Provincial
Elk Lake Area	Non-Patterned Fens with Internal Lawns	Horizontal Fens	Provincial
Empress Area	River Terraces		National
Evansburg Area	Gorges/Canyons		Provincial
Fairview Area	Marl Lakes		Provincial
Fitzgerald Area	Rapids		National
Fort Assiniboine Sand Hills	Dunes	Transverse Dunes	Provincial
Fort Chipewyan Area	Deltas	Stable Channel-mouth Bar Deltas	Provincial
Fort Chipewyan Area	Raised Beaches		Provincial
Fort Chipewyan Area	Shoreline Cliffs		Provincial
Fort Chipewyan Area	Spits		Provincial
Fort Fitzgerald Area	River Islands	Bedrock Islands	Provincial
Fort Hills Area	Kames	Kame Deltas	Provincial
Fort MacKay	River Meanders	Incised Meanders	Provincial
Fort MacKay Area	Dolines	Collapse	Provincial
Fort MacKay Area	River Meanders	Incised Meanders	Provincial
Fort McMurray Area	Patterned Fens	Spring Fens	Provincial
Fort Saskatchewan Area	Soapholes		Provincial
Fort Vermilion Sand Hills	Dunes	Transverse Dunes	National
Fox Creek Area	Marl Bogs		Provincial

SITE NAME	GEOMORPHOLOGY	SUBELEMENT	SIGNIFICANCE
Ghost River Area	Klippes		Provincial
Ghost River-Waiparous Creek	Braided Streams		Provincial
Glenwood Area	Erratics		Provincial
Grand Rapids Area	Rapids		Provincial
Grande Cache Area	Hogbacks		Provincial
Grande Cache area	Water Gaps		Provincial
Grande Prairie Area	Dunes	Parabolic Dunes	Provincial
Granum Area	Murdlins		Provincial
Guy Area	Rock Slides		Provincial
Hawk Hills Area	Non-Patterned Fens without Internal Lawns	Slope Fens	Provincial
Hay Lake Area	Thermokarst Lakes		Provincial
Hay River-Chinchaga River Area	River Meanders	Incised Meanders	Provincial
Heatherdown Area	Patterned Fens	Spring Fens	Provincial
Horseshoe Lake	Drift Basins	Saline/Alkaline Lakes	Provincial
Iddesleigh Area	Playa Lakes		Provincial
Indian Cabins Area	Peat Plateaux		Provincial
Island Lake	Drift Basins	Holm Lakes	Provincial
Kananaskis Country	Anticlinal Mountains		Provincial
Kananaskis Country	Karst Caves	Joint Caves	Provincial
Kananaskis Country	Rockglaciers		Provincial
Keho Lake Area	Flutings	Giant Flutings	Provincial
Kinsella Area	Meltwater Channels	Ice-walled Channels	Provincial
Kipp Area	Megablocks		National
Lac des Arcs	Fluviatile Lakes	Alluvial Fan Dammed Lakes	Provincial
Lac Magloire Area	Moraine	Rogen Moraine	Provincial
Lake Athabasca Area	Dunes	Parabolic Dunes	National
Lake Athabasca Area	Beaches		Provincial
Landslide Lake Area	Landslide Lakes		Provincial
Leduc Area	Glacial Tunnel Lakes		Provincial
Leland Lakes Area	Plutons		Provincial
Lesser Slave Lake Area	Aeolian Beach Ridges		Provincial
Lesser Slave Lake Area	Non-Patterned Fens without Internal Lawns	Horizontal Fens	Provincial
Lethbridge Area	Aligned Coulees		Provincial
Limestone Mountain	Rock Labyrinths		Provincial
Lloydminster Area	Crevasse Fillings		Provincial

SITE NAME	GEOMORPHOLOGY	SUBELEMENT	SIGNIFICANCE
Lodgepole Area	Tufa Depositing Springs		Provincial
Lonepine Creek Area	Eskers		Provincial
Lost River Area	Drumlins		Provincial
Lower Sweetgrass Hills	Dikes		National
Lundbreck Area	Hogbacks		Provincial
Lundbreck Area	River Terraces	Rock-cut Terraces	Provincial
Lutose Creek Area	Burning Gas		Provincial
Ma Butte Area	Volcanic Rocks		Provincial
Mackay River Area	Palsa Bogs		Provincial
Manning Area	Bar-and-Swale Topography		Provincial
Manning Area	Fluviatile Lakes	Oxbow Lakes	Provincial
Many Island Lake	Dunes	Silt/Clay Dunes	Provincial
Manyberries Area	Sandstone Dikes		National
Marguerite River Wildand	Eskers		Provincial
Marguerite River Wildand	Kames	Kame Moraines	Provincial
Mariana Lake Area	Wooded Bogs with Internal Lawns	Northern Plateau Bogs	Provincial
Marlboro Area	Marl Bogs		Provincial
Marten Mountain Area	Patterned Fens	Northern Ribbed Fens	Provincial
McClelland Lake Area	Dolines	Collapse	Provincial
McLennan Area	Non-Patterned Fens without Internal Lawns	Slope Fens	Provincial
Medicine Hat Area	Neck Cutoffs		National
Medicine Hat Area	Earth Slides		Provincial
Medicine Hat Area	Gorges/Canyons		Provincial
Middle Sand Hills	Dunes	Parabolic Dunes	National
Milk River	Underfit Streams		Provincial
Milk River Area	Dikes		Provincial
Mokowan Butte	Erosional Remnants		National
Monarch Area	Reverse Faults		Provincial
Monitor Area	Hill-hole Pairs		Provincial
Montagneuse River	Earth Slides		National
Moose Point Area	Moraine	de Geer Moraine	Provincial
Morley Flats Area	Drumlins		Provincial
Muddy River Area	Burning Sulphur		Provincial
Mudspring Lake Area	Soapholes		Provincial
Muriel Lake Area	Hill-hole Pairs		Provincial

SITE NAME	GEOMORPHOLOGY	SUBELEMENT	SIGNIFICANCE
Muskeg Mountain	Non-Patterned Fens without Internal Lawns	Channel Fens	Provincial
Muskeg River Area	Wooded Bogs with Internal Lawns	Northern Plateau Bogs	Provincial
Neutral Hills Area	Hill-hole Pairs		Provincial
Newman Peak Area	Volcanic Rocks		Provincial
Nordegg Area	Karst Caves	Bedding Caves	Provincial
Nordegg Area	Non-Patterned Fens without Internal Lawns	Spring Fens	Provincial
Nordegg Area	Tufa Depositing Springs		Provincial
Obed Creek-Athabasca River Area	Kames	Moulin Kames	Provincial
Okotoks Area	Erratics		International
Oliva Lake	Drift Basins	Saline/Alkaline Lakes	Provincial
Onefour Area	Eskers		National
Onefour Area	Rock-Shelters		National
Pakan Area	Iron Depositing Springs		Provincial
Pakowki Lake	Playa Lakes		National
Pakowki Lake Area	Dikes		Provincial
Pakowki Lake Sand Hills	Blowouts		National
Parkland Area	Moraine	de Geer Moraine	Provincial
Peace River Town	Debris Slides		Provincial
Pekisko Area	Crag-and-Tail		Provincial
Pelican Lake Area	Wooded Bogs with Internal Lawns	Northern Plateau Bogs	Provincial
Pinhorn Area	Badlands		National
Pinhorn Area	Neck Cutoffs		National
Pinhorn Area	Stocks		National
Pinto Lake Area	Paternoster Lakes		Provincial
Pinto Lake Area	Speleothems		Provincial
Plateau Mountain Area	Limestone Pavement		Provincial
Porcupine Hills	Kames	Kame Terraces	Provincial
Porcupine Hills	Meltwater Channels	Subglacial Channels	Provincial
Ram Falls Area	Waterfalls		Provincial
Redrock Creek-Kakwa River Area	Gorges/Canyons		Provincial
Reflex Lake	Salt Depositing Springs		National
Rocky Mountain House Area	Non-Patterned Fens without Internal Lawns	Spring Fens	Provincial
Rosebud Creek Area	Murdlins		Provincial

SITE NAME	GEOMORPHOLOGY	SUBELEMENT	SIGNIFICANCE
Round Hill Area	Ice-Thrust Ridges		Provincial
Rumsey Area	Moraine Plateaux		Provincial
Rycroft Area	Earth Slides		Provincial
Shunda Area	Water Gaps		National
St. Agnes Lake Area	Crag-and-Tail		Provincial
St. Agnes Lake Area	Wooded Bogs with Internal Lawns	Basin Bogs	Provincial
St. Albert Area	Deltas	Stable Channel-mouth Bar Deltas	Provincial
St. Mary Dam Area	River Meanders	Incised Meanders	Provincial
St. Mary River-Pothole Creek Area	Neck Cutoffs		Provincial
Stinking Creek-South Torren River	Warm Springs		Provincial
Stirling Lake Area	Kettles		Provincial
Sundance Lake Area	Hoodoos		Provincial
Swan Hills	Wooded Bogs without Internal Lawns	Northern Plateau Bogs	Provincial
Swinnerton Lake Area	Fault-line Scarps		Provincial
Taber Area	Megablocks		Provincial
Tawatinaw Valley-Athabasca River Area	Meltwater Channels	Subglacial Channels	Provincial
Thickwood Hills	Patterned Fens	Northern Ribbed Fens	Provincial
Thistle Creek-Brazeau River Area	Blue-hole Springs		Provincial
Thunder Mountain Area	Water Gaps		Provincial
Tomahawk Area	Wooded Bogs without Internal Lawns	Flat Bogs	Provincial
Town of Milk River Area	Overflow Channels		National
Turtle Mountain Area	Rock Falls		National
Valleyview Area	Wooded Bogs without Internal Lawns	Flat Bogs	Provincial
Vermilion Chutes Area	Rapids		Provincial
Vermillion Area	Ice-Thrust Moraine		Provincial
Wainwright Area	Dune Ridges	North Battleford Ridges	Provincial
Wallace Creek-Firebag River Area	Kames	Moulin Kames	Provincial
Wandering River Area	Non-Patterned Fens without Internal Lawns	Horizontal Fens	Provincial
Wappau Lake	Patterned Fens	Net Fens	Provincial
Wardlow Area	Alluvial Fans	Coalescing Fans	Provincial

SITE NAME	GEOMORPHOLOGY	SUBELEMENT	SIGNIFICANCE
Water Valley Area	Braided Streams		Provincial
West Castle Mountain	Mountains	Castellated Mountains	Provincial
Westlock Area	Neck Cutoffs		Provincial
Whaleback Ridge	Hogbacks		National
Whisky Gap Area	Erosional Remnants		National
Whitefish Lake Area	Ice-Thrust Moraine		Provincial
Whitemud Creek Area	Kames	Moulin Kames	Provincial
Whitemud Falls Area	Moraine	Rogen Moraine	Provincial
Whitemud Falls Area	Stacks		Provincial
Wolf Lake Area	Hill-hole Pairs		Provincial
Wolverine River Sand Hills	Dune Ridges	Lacadena Ridges	Provincial
Writing-On-Stone Area	Honeycomb Weathering		Provincial
Ya Ha Tinda Area	Rock Labyrinths		Provincial
Zama City Area	Patterned Fens	Net Fens	Provincial
Zama Lakes Area	Levee Dammed Lakes		Provincial

Focal Species

SCIENTIFIC NAME	COMMON NAME	G RANK	S RANK	WILDLIFE ACT STATUS	AB. WILDLIFE SPECIES '05	COSEWIC STATUS	SARA STATUS
Athene cunicularia hypugaea	Western burrowing owl		S2	Endangered	At Risk	Endangered	Endangered
Buteo regalis	Ferruginous hawk	G4	S3	Endangered	At Risk	Threatened	Special Concern
Rangifer tarandus caribou	Woodland caribou	G5T4	S1	Threatened	At Risk	Threatened	Threatened
Ursus arctos	Grizzly Bear (western AB population)	G4TNR	SNR	May Be at Risk	May Be at Risk	Special Concern	No Status

Sites of Recognized Significance

NAME OF SITE	SOURCE	SIGNIFICANCE
Athabasca Dunes Ecological Reserve	Alberta Parks, Tourism and Recreation	Provincial
Banff World Heritage Site	Unesco	International
Bearhills Lake Important Bird Area	Important Bird Areas	Global
Beauvais Lake Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Beaverhill Lake Heritage Rangeland Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Beaverhill Lake Important Bird Area	Important Bird Areas	Global
Beaverhill Lake RAMSAR Site	Ramsar Convention on Wetlands	Global
Beehive Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Bellis North Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Bellshill Lake Important Bird Area	Important Bird Areas	Global
Big Lake Important Bird Area	Important Bird Areas	Global
Birch Mountains Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Black Creek Heritage Rangeland	Alberta Parks, Tourism and Recreation	Provincial
Blue Rapids Provincial Recreation Area	Alberta Parks, Tourism and Recreation	Provincial
Bluerock Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Bob Creek Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Bow Valley Provincial Recreation Area	Alberta Parks, Tourism and Recreation	Provincial
Bow Valley Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Brazeau Canyon Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Cardinal Lake Important Bird Area	Important Bird Areas	Global
Caribou Mountains Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Carson-Pegasus Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Cavendish Rail Line Important Bird Area	Important Bird Areas	National
Chain, Spiers and Farrell Lakes Important Bird Area	Important Bird Areas	Global
Chappice Lake Important Bird Area	Important Bird Areas	Global
Chinchaga Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Clearwater Christina Canadian Heritage River System	Canadian Heritage Rivers System	National
Cold Lake Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Colin-Cornwall Lakes Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Cooking Lake-Blackfoot Provincial Recreation Area	Alberta Parks, Tourism and Recreation	Provincial
Crimson Lake Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Cross Lake Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Cypress Hills Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Dillberry Lake Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Dinosaur Provincial Park	Alberta Parks, Tourism and Recreation	Provincial

NAME OF SITE	SOURCE	SIGNIFICANCE
Dinosaur World Heritage Site	Unesco	International
Don Getty Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Dowling Lake Important Bird Area	Important Bird Areas	Continental
Dry Island Buffalo Jump Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Dunvegan West Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Eagle Point Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Eagle, Namaka and Stobart Lakes Important Bird Area	Important Bird Areas	Global
Elbow-Sheep Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Elk Island National Park	Parks Canada	National
Evan-Thomas Provincial Recreation Area	Alberta Parks, Tourism and Recreation	Provincial
Ewing and Erskine Lakes Important Bird Area	Important Bird Areas	Global
Fickle Lake Provincial Recreation Area	Alberta Parks, Tourism and Recreation	Provincial
Fidler-Greywillow Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Fish Creek Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Fort Assiniboine Sandhills Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Frank Lake north Important Bird Area	Important Bird Areas	Continental
Frank Lake south Important Bird Area	Important Bird Areas	Global
Ghost River Wilderness Area	Alberta Parks, Tourism and Recreation	Provincial
Gipsy Lake Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Glenbow Ranch Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Goose Mountain Ecological Reserve	Alberta Parks, Tourism and Recreation	Provincial
Gooseberry Lake Important Bird Area	Important Bird Areas	Global
Grand Rapids Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Grande Prairie Important Bird Area	Important Bird Areas	Global
Greene Valley Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Grizzly Ridge Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Hand Hills Ecological Reserve	Alberta Parks, Tourism and Recreation	Provincial
Handhills Lake Important Bird Area	Important Bird Areas	Continental
Hansman Lake Important Bird Area	Important Bird Areas	Global
Harper Creek Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Hay and Zama Lakes Important Bird Area	Important Bird Areas	Global
Hays Reservoir Important Bird Area	Important Bird Areas	Global
Hay-Zama Lakes RAMSAR Site	Ramsar Convention on Wetlands	Global
Hay-Zama Lakes Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Head-Smashed-In Buffalo Jump World Heritage Site	Unesco	International

NAME OF SITE	SOURCE	SIGNIFICANCE
Head-Smashed-In Buffalo Jump World Heritage Site	Unesco	International
Hilliard's Bay Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Holmes Crossing Sandhills Ecological Reserve	Alberta Parks, Tourism and Recreation	Provincial
Hubert Lake Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Jasper World Heritage Site	Unesco	International
Kakwa Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Kennedy Coulee Ecological Reserve	Alberta Parks, Tourism and Recreation	Provincial
Killarney, Dillberry and Leane Lakes Important Bird Area	Important Bird Areas	Global
Killarney-Reflex Lakes Heritage Rangeland Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Kirkpatrick and Fitzgerald Lakes Important Bird Area	Important Bird Areas	Global
Kootenay Plains Ecological Reserve	Alberta Parks, Tourism and Recreation	Provincial
La Biche River Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
La Butte Creek Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Lac la Biche, Sir Winston Churchill Provincial Park Important Bird Area	Important Bird Areas	Global
Lake Newell and Kitsim Reservoir Important Bird Area	Important Bird Areas	National
Lakeland Important Bird Area	Important Bird Areas	Global
Lakeland Provincial Recreation Area	Alberta Parks, Tourism and Recreation	Provincial
Lakeland Provincial Recreation Area	Alberta Parks, Tourism and Recreation	Provincial
Lesser Slave Lake Important Bird Area	Important Bird Areas	Global
Lesser Slave Lake Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Lesser Slave Lake Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Little Fish Lake Important Bird Area	Important Bird Areas	National
Lois Hole Centennial Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Manitou Lake Important Bird Area	Important Bird Areas	Global
Marguerite River Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Maybelle River Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
McGregor Lake and Travers Reservoir Important Bird Area	Important Bird Areas	National
Metiskow and Sunken Lakes Important Bird Area	Important Bird Areas	Global
Milk River Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Ministik, Joseph and Oliver Lakes Important Bird Area	Important Bird Areas	Global
Miquelon Lake Important Bird Area	Important Bird Areas	Global

NAME OF SITE	SOURCE	SIGNIFICANCE
Miquelon Lake Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Moonshine Lake Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Muriel Lake Important Bird Area	Important Bird Areas	National
Musreau Lake Provincial Recreation Area	Alberta Parks, Tourism and Recreation	Provincial
Notikewin Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Obed Lake Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
OH Ranch Heritage Rangeland	Alberta Parks, Tourism and Recreation	Provincial
Oldman Dam Provincial Recreation Area	Alberta Parks, Tourism and Recreation	Provincial
Onefour Heritage Rangeland Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Otter-Orloff Lakes Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Pakowki Lake Important Bird Area	Important Bird Areas	Global
Peace River Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Peace-Athabasca Delta Important Bird Area	Important Bird Areas	Global
Peace-Athabasca Delta RAMSAR Site	Ramsar Convention on Wetlands	Global
Pelican Lake Important Bird Area	Important Bird Areas	Global
Peter Lougheed Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Pinto Creek Canyon Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Plateau Mountain Ecological Reserve	Alberta Parks, Tourism and Recreation	Provincial
Poacher's Landing Provincial Recreation Area	Alberta Parks, Tourism and Recreation	Provincial
Prairie Coulees Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Primrose Lake Important Bird Area	Important Bird Areas	Global
Redwater Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Ribstone Creek Heritage Rangeland Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Richardson River Dunes Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Rock Lake Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Rock Lake-Solomon Creek Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Ross Lake Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Rumsey Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Rumsey Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Sand Lake Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Sheep River Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Shultz Lake Important Bird Area	Important Bird Areas	Global
Siffleur Wilderness Area	Alberta Parks, Tourism and Recreation	Provincial
Silver Valley Ecological Reserve	Alberta Parks, Tourism and Recreation	Provincial
Sounding Lake Important Bird Area	Important Bird Areas	Global

NAME OF SITE	SOURCE	SIGNIFICANCE
South Saskatchewan River Important Bird Area	Important Bird Areas	Global
Spray Valley Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
St. Lawrence Lake Important Bird Area	Important Bird Areas	Global
St. Mary Reservoir Important Bird Area	Important Bird Areas	Global
Stony Mountain Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Sullivan Lake Important Bird Area	Important Bird Areas	Global
Sulphur Gates Provincial Recreation Area	Alberta Parks, Tourism and Recreation	Provincial
Sundance Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Tolman Badlands Heritage Rangeland Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Twin River Heritage Rangeland Natural Area	Alberta Parks, Tourism and Recreation	Provincial
Two Lakes Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Utikuma and Utikumasis Lakes Important Bird Area	Important Bird Areas	Global
Wainwright Dunes Ecological Reserve	Alberta Parks, Tourism and Recreation	Provincial
Wapiabi Provincial Recreation Area	Alberta Parks, Tourism and Recreation	Provincial
Waterton Lakes World Heritage Site	Unesco	International
Wavy Lake Important Bird Area	Important Bird Areas	Global
White Earth Valley Natural Area	Alberta Parks, Tourism and Recreation	Provincial
White Goat Wilderness Area	Alberta Parks, Tourism and Recreation	Provincial
Whitehorse Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Whitemud Falls Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Whitford and Rush Lakes Important Bird Area	Important Bird Areas	Global
Whitney Lakes Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Whooping Crane nesting area and summer range Important Bird Area	Important Bird Areas	Global
Whooping Crane Summer Range RAMSAR Site	Ramsar Convention on Wetlands	Global
Wildhay Glacial Cascades Natural Area	Alberta Parks, Tourism and Recreation	Provincial
William A. Switzer Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Willmore Wilderness Park	Alberta Parks, Tourism and Recreation	Provincial
Winagami Lake Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Winagami Wildland Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Wood Buffalo World Heritage Site	Unesco	International
Writing-on-Stone Provincial Park	Alberta Parks, Tourism and Recreation	Provincial
Young's Point Provincial Park	Alberta Parks, Tourism and Recreation	Provincial

ESA Toolbox

ESA TOOLBOX

The ESA toolbox represents a series of python scripts that were created and used to perform the identification and update of ESAs in the province of Alberta. These scripts can be run from ArcCatalog, PythonWin or IDLE.

1

01BatchSelectQS.py

This script will loop through the rows of a table (with the 4c-subwatersheds), select the quarter sections (QS) that have their centers in a given subwatershed, and create a new shapefile of these quarter sections for the subwatershed (QSxSubwatershed).

2

02ESAcriteria.py

This script will loop through a folder with the shapefiles for each criterion, intersect each criterion shapefile with the QSxSubwatershed shapefiles, and if there is anything that intersects a given QS, it will write "YES" in the corresponding criteria field.

3

03ESAmulticriteria.py

This script will loop through the folder with the QSxSubwatershed shapefiles, and analyze each QS in terms of the minimum criteria required to be tagged as an ESA. It will also identify as "Maybe" those QS that do not fulfill the minimum criteria but that could be considered as ESAs based on adjacency rules.

4

04BatchSelectESAQS.py

This script will loop through a folder with the QSxSubwatersheds shapefiles, select the QS that were tagged as ESAs, and then append all of these into 1 shapefile of ESAs.

5

05BatchSelectESAQS_Maybe.py

This script will loop through a folder with the QSxSubwatersheds shapefiles, select the QS that were tagged as "Maybe" ESAs, and then append all of these into 1 shapefile of Maybe ESAs.

6

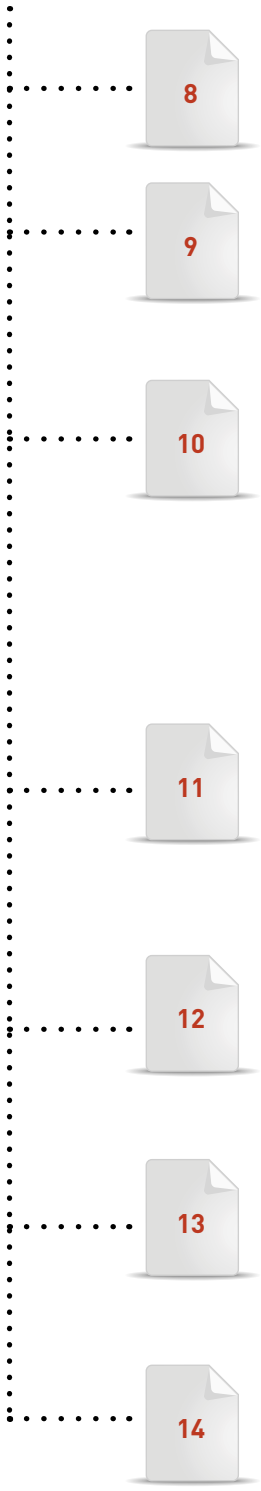
06AddESAsbyDistance.py

This script will asses whether a given QS that was tagged as a Maybe ESA is spatially adjacent to a QS tagged as a ESAs. If so, the QS will now be re-tagged as an ESA as well.

7

7RemoveQSwRoads.py

This script will asses whether a given QS that was tagged as an ESA has a major highway running through it. If so, the QS will be tagged as having a major highway, but only if it doesn't fulfill Criterion 2, Criterion 7 or has a G1 species. Only those QS with no road tag will be kept in the final ESA shapefile.



08ESAsCriteria.py

This script will loop through the folder with the shapefiles for each criterion, intersect each criteria layer with the dissolved ESA shapefile (no more QS at this point), and if there is anything that intersects, then will write "YES" in the corresponding criteria field.

09ESAsRating.py

This script assesses the Significance Rating of an ESA based on the highest rating of the elements that it contains.

10CheckSpatialAdjacency.py

This script asses whether a given ESA polygon is spatially adjacent to another ESA polygon (the ID value for such ESA will be printed on the screen), in which case the two polygons should be merged (manually, within an editing session) into 1 ESA.

11DiscardESAsbyCr.py

This script analyzes those ESAs which have only 1 element under criterion 1 and either criteria 5 (a or b) or 6. If said element doesn't occur in any other ESA, then the ESA being analyzed is retained because it contains the only representative of that target. If said element occurs in another ESA, but this ESA is located more than 200 km distance from the ESA being analyzed, then the ESA being analyzed is retained because it contains a representative of a disjunct population for that target. If the element occurs in another ESA, and this ESA is located less than 200 km distance from the ESA being analyzed, then the ESA being analyzed is discarded because the target is already present somewhere else.

12DistancebetweenEOs.py

This script will calculate the maximum distance between different occurrences of the same element of conservation concern. This was then used to calculate the minimum distance to consider the 2 occurrences of the same element as representing disjunct populations. This minimum distance was set at 200 km for most species, except for large ranging animals.

13BatchIntersect.py

This script will loop through a folder with a series of shapefiles (Natural Regions, Natural subregions, Municipalities, etc), and will intersects each one of those shapefiles with the ESA shapefile. These outputs are then used to create the summary reports for each individual ESA.

14Summarytables.py

This script will loop though a table with multiple values for each ESA (resulting from intersects with Natural Regions, Municipalities, etc. shapefiles) and put the values corresponding to the same ESA on consecutive columns, on the same row. This can then be used to generate the individual reports by ESA.

Overlap with original ESAs (1997-1998)

ESA (2009)	Original ESAs (1997-1998)
1	Paine - Beaverdam, Mokowan Butte, Police Outpost, Blood Reserve 148A, Birdseye Butte Pond, Waterton Lakes National Park
2	WMU AB404, Front Range Canyons, Livingstone Range, Racehorse - Dutch Forestry Scientific Area, Front Range Ridges, Castle River Headwaters, Middle Castle River, Whaleback, Middle - Upper Crowsnest Valley, West Castle Headwaters, Oldman River Valley, Ptolemy Creek and Area, Livingstone River Valley, West Castle River Valley, Oldman River - Porcupine Hills, Tornado and North Fork Passes, Plateau Mountain and Vicinity, Seven Sisters - Crowsnest Mountains, Rock - Cow Creek Wetlands, Lynch Lakes, Mount Tecumseh and Deadman's Pass, Middle Crowsnest Valley, Gardiner Creek, Crowsnest River, Barnaby Ridge, Upper Crowsnest Valley, Mountain Goat Concentration, Connelly Creek Ridges, Porcupine Hills, Grassy Ridge High Elevation Grasslands, Allison - Sentry Connectivity Corridor, Mount Livingstone Natural Area, Ma Butte, Carbondale Hill, Turtle Mountain and Frank Slide, Blairmore Connectivity Corridor, Margaret Lake (Pincher Creek Area), Leach Colliery Connectivity Corridor, Beehive Natural Area, Frank Slide, South Plateau Mountain Low Elevation Treelines, Cloudy Ridge, Kylo Hill - Mount Backus, Crowsnest Volcanics, Upper Crowsnest Connectivity Corridor, Dungarvan Wetlands, Drywood Mountain Hanging Valley, Todd Creek Ridge, Waterton Lakes National Park, High Elevation ATV Scientific Area, Beauvais Lake Provincial Park, Red Cedar Stand on Snowshoe Creek, Rock Creek Connectivity Corridor, Western Plains Garter Snake Hibernaculum, Dry Canyon, Crowsnest Spring, Horseshoe Lake (Municipal District of Pincher Creek), Spotted Frog Occurrence, Pekisko Creek, Pine Ridge, WMU AB406.
3	Todd Creek Ridge.
4	Porcupine Hills.
5	Highwood - Pekisko Upland, Pekisko Creek.
6	
7	WMU AB406, Sheep River, WMU AB404.
8	WMU AB406, Kananaskis River Valley and Slopes, Moose Mountain Natural Area and Vicinity, Fisher Range, Forgetmenot Mountain.
9	
10	
11	
12	
13	
14	NE Woodland Caribou Winter and Year-round Range, Berland River - Hendrickson Creek, Berland River - Donald Flats, Donald Creek Drainage.
15	Winniady East Grasslands, Smoky River (Gustavs Flats to Wanyandie Creek).
16	Smoky River (Gustavs Flats to Wanyandie Creek).
17	NW Woodland Caribou Winter Range, Kakwa Wildland Provincial Park and Area, NE Woodland Caribou Winter and Year-round Range, Kakwa River, Turret - Ambler, Muskeg - Little Smoky Rivers, Sheep Creek, Narraway River, Berland River - Hendrickson Creek, Nose Creek, Winniady West Grasslands, Smoky River (Gustavs Flats to Wanyandie Creek), Woodland Caribou Summer Range, Hell's Gate, Solomon - Ice Water - Paradise Creeks.
18	NW Woodland Caribou Winter Range.
19	NW Woodland Caribou Winter Range.

ESA (2009)	Original ESAs (1997-1998)
20	Ram - Whiterabbit, WMU AB430, WMU AB418, Cardinal - McLeod Headwaters, White Goat Wilderness / Cline River and Tributaries, Brazeau River - Job Creek, Clearwater River (Foothills), Burnt Timber, Folding Mountain, Cline - Resolute - Sentinel, Red Cap, Cardinal River Headwaters, Saskatchewan River Valley, Panther Corners, Kootenay Plains, Upper North Saskatchewan River, Wapiabi Creek, Blackstone River, Ram River, Siffleur Wilderness and Saskatchewan River Connection, Upper Red Deer River, Tarpeian Rock - Opabin Creek, Redcap Mountain, North Ram River, South Ghost Wilderness, Shunda Creek, McLeod River Headwaters, Ya-Ha-Tinda, Shunda Mountain, Kootenay Plains and Vicinity, Exshaw / Grotto Mountain, Kananaskis River Valley and Slopes, Coliseum Mountain, Marshybank Ecological Reserve, Grave Flats, Whitehorse Creek, West Bow Flats, Kananaskis Range, Muskiki Lake and area, Mount Wilson Icefield, North Saskatchewan Gap, Cardinal Hills Colluviating Grasslands / Shrub, Spray Reservoir - Kananaskis Corridor, Clearwater River, Wapiabi Cave, Brule Dunes, WMU BNP8, Brule Lake, Wind Valley, White Goat Lakes, Icefields Parkway / Saskatchewan River, Mount Allan - Wind Valley, Grassi Lakes, Prow Mountain - Mount White Col / Scotch Camp, Yamnuska, Pipestone River - Mount Murchison, Upper Red Deer River and Tributaries, Bow Valley, Vermilion Lakes - Banff Sector, Bow Valley Provincial Park, Mount Rundle.
21	
22	Waterton Lakes National Park, Blood Reserve 148A, Pine Ridge, Front Range Canyons, Horseshoe Lake (Municipal District of Pincher Creek), Paine - Beaverdam, Castle River Headwaters, Birdseye Butte Pond.
23	Woodland Caribou Summer Range, Cardinal River Headwaters, Main Range Icefields / Saskat. R. Glacier, Folding Mountain, Cardinal - McLeod Headwaters, Whitehorse Creek, McLeod River Headwaters, Icefields Parkway / Saskatchewan River, White Goat Wilderness / Cline River and Tributaries, Brazeau River - Job Creek, Brule Dunes, Caribou Summer and Occasional Winter Range.
24	Main Range Icefields / Saskat. R. Glacier, WMU BNP8, Pipestone River - Mount Murchison, Bow Valley West, Icefields Parkway South, Spray Valley, WMU BNP9, South Icefields Main Ranges, Icefields Parkway / Saskatchewan River, Clearwater River, South portion of WMU BNP9, Skoki, Siffleur Headwaters and Vicinity, Bow Valley, Vermilion Lakes - Banff Sector, Upper Red Deer River and Tributaries, Cascade - Flints Park, Bow Range and Glaciers, Howse River Valley and Pass, Marvel Lake and Vicinity, WMU BNP 8 South, Sunshine Meadows and Vicinity, Mount Wilson Icefield, Prow Mountain - Mount White Col / Scotch Camp, Lake Minnewanka, Mount Rundle, Spray Reservoir - Kananaskis Corridor, Saskatchewan River Valley, Upper Kananaskis Lake Ranges and Glaciers, Cline - Resolute - Sentinel, Bonnett Glacier, South Ghost Wilderness, Ghost River Wilderness, Burnt Timber, Ram - Whiterabbit, Clearwater River (Foothills), Siffleur Wilderness and Saskatchewan River Connection, WMU AB418, Panther Corners, White Goat Wilderness / Cline River and Tributaries.
25	Kootenay Plains, Kootenay Plains and Vicinity, Saskatchewan River Valley, Ram - Whiterabbit, Siffleur Wilderness and Saskatchewan River Connection.
26	Beauvais Lake Provincial Park.
27	Solomon - Ice Water - Paradise Creeks, Rock Lake - Wildhay, Brule Dunes.
28	WMU AB406, Sheep River.
29	Mount Allan - Wind Valley, South Ghost Wilderness, Kananaskis River Valley and Slopes, Spray Reservoir - Kananaskis Corridor, Kananaskis Range, Mount Rundle, West Bow Flats, Yamnuska, Wind Valley, Mount Buller Rock Glacier and Vicinity, Bow Valley, Vermilion Lakes - Banff Sector, Exshaw / Grotto Mountain, Bow Valley Provincial Park.
30	Cardinal - McLeod Headwaters, Whitehorse Creek, McLeod River Headwaters, Cardinal River Headwaters, Red Cap, Folding Mountain.
31	Smoky River (Gustavs Flats to Wanyandie Creek), Hell's Gate.

ESA (2009)	Original ESAs (1997-1998)
32	Woodland Caribou Summer Range, Caribou Summer and occasional Winter Range, NE Woodland Caribou Winter and Year-round Range, Smoky River and tributaries, Childear - Mawdsley - Kvass Creek, Turret - Ambler, Sheep Creek, Rock Lake - Wildhay, Hell's Gate, Kakwa Wildland Provincial Park and Area, Muskeg - Little Smoky Rivers, Berland River - Hendrickson Creek.
33	Rock Lake - Wildhay.
34	Kakwa Wildland Provincial Park and Area, Woodland Caribou Summer Range, NW Woodland Caribou Winter Range.
35	Beehive Natural Area, Tornado and North Fork Passes, Oldman River Valley.
36	White Goat Wilderness / Cline River and Tributaries, Icefields Parkway / Saskatchewan River, Brazeau River - Job Creek.
37	Ghost River Wilderness, WMU BNP8, Burnt Timber.
38	Siffleur Wilderness and Saskatchewan River Connection, Ram - Whiterabbit, Pipestone River - Mount Murchison, Saskatchewan River Valley, Siffleur Headwaters and Vicinity, Clearwater River.
39	Plateau Mountain and Vicinity, South Plateau Mountain Low Elevation Treelines, WMU AB404.
40	WMU AB406, Sheep River.
41	Upper Kananaskis Lake Ranges and Glaciers, Spray Reservoir - Kananaskis Corridor, Opal Range, Kananaskis Range, Highwood Pass, Kananaskis River Valley and Slopes, WMU AB406, Spray Valley.
42	Kananaskis River Valley and Slopes, Mount Allan - Wind Valley.
43	Spray Reservoir - Kananaskis Corridor, Kananaskis River Valley and Slopes, Kananaskis Range, Spray Valley, Upper Kananaskis Lake Ranges and Glaciers, Evan - Thomas Critical Wildlife Area, Mount Buller Rock Glacier and Vicinity, Opal Range, Mount Rundle.
44	Bow Valley Provincial Park, Kananaskis River Valley and Slopes, West Bow Flats, South Ghost Wilderness, Exshaw / Grotto Mountain
45	WMU AB406, Opal Range, Evan - Thomas Critical Wildlife Area, Highwood Pass, Fisher Range, WMU AB404, Kananaskis River Valley and Slopes, Mist Mountain Grasslands.
46	Burnt Timber, WMU AB406, WMU AB404, South Ghost Wilderness, Forgetmenot Mountain, Ghost River Wilderness, Mount Livingstone Natural Area, WMU BNP8, Beehive Natural Area, Bow Valley, Vermilion Lakes - Banff Sector, WMU BNP 8 South.
47	Cypress Hills, Eagle Butte.
48	Whaleback, Livingstone Range.
49	Whaleback.
50	Highwood - Pekisko Upland, WMU AB406.
51	
52	Burnstick Lake.
53	
54	Baseline Mountain.
55	Cow Lake.
56	
57	Ram Mountain, North Ram River, North Saskatchewan Gap.

ESA (2009)	Original ESAs (1997-1998)
58	Crimson - Louis Lake Wetlands.
59	
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66	Coal Valley Highland.
67	
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76	Muskeg - Little Smoky Rivers, NE Woodland Caribou Winter and Year-round Range.
77	
78	Little Smoky Caribou Range, NE Woodland Caribou Winter and Year-round Range
79	Little Smoky Caribou Range, NE Woodland Caribou Winter and Year-round Range.
80	
81	Little Smoky Caribou Range, NE Woodland Caribou Winter and Year-round Range.
82	
83	
84	
85	NE Woodland Caribou Winter and Year-round Range, Simonette River.
86	
87	Little Smoky River, Tony Creek.
88	
89	
90	Swan Hills Plateau Remnant.
91	NW Woodland Caribou Winter Range, Narraway River.
92	NW Woodland Caribou Winter Range.

ESA (2009)	Original ESAs (1997-1998)
93	
94	
95	Goose - Wallace Mountain, Swan Hills Plateau Remnant, Freeman River.
96	
97	
98	Marten Mountain.
99	Athabasca River - Whitecourt - Vega, Athabasca River - Foothills, Brule Dunes, Brule Lake, Holmes Crossing Sand Hills, Freeman River.
100	North Saskatchewan Gap, Upper North Saskatchewan River.
101	Crimson - Louis Lake Wetlands.
102	
103	Goose - Wallace Mountain.
104	Athabasca River - Foothills.
105	NW Woodland Caribou Winter Range.
106	Lower Pinto Creek.
107	
108	
109	Wapiabi Creek, Blackstone River, Canadian Toad Occurrence, WMU AB430.
110	Jarvis Creek, Lower Wildhay River.
111	
112	
113	Muskiki Lake and area, Marshybank Ecological Reserve.
114	Lower Wildhay River, Jarvis Creek.
115	Milk River Ridge - Unglaciated.
116	Upper St. Mary River, Carway Iris.
117	Jenner Moraine, Native Prairie (Major Lake), Louisiana Lakes, Suffield, Grassy Island Native Prairie, Sounding Creek Native Prairie, Gough Lake, Majorville, Muddy Buttes, Alkali Creek Moraine, Eagle Butte, Ross Creek, Rumsey North, Lafine White-tailed Deer Habitat, Grassy Island Lake, Esther / Douglas Lake Native Prairie, Hand Hills, Marion - Shooting Lake Wetlands, Kirkpatrick Native Prairie, Neutral Hills, Deer Creek, Youngstown Aspen Groveland, Willow Lake, Little Rolling Hills, Sullivan Lake, Native Prairie (Brostem Reservoir), Wintering Hills, Lake Newell, Cypress Hills, Kininvie, Bodo, Silver Heights (wetlands only), Gillespie Lake, Milk River Ridge - Northeast, Pine Lake, Dinosaur, Battle River - Driedmeat Lake, Milk River - Breed Creek, Bow River - Majorville, Milk River Canyon, Etzikom Coulee, Milk River Ridge - Northeast Slope, Sounding Dunes, Middle Lakes, Ribstone Creek - Nose Hill, Clarke Lake, Wainwright Base, Coleman Lake, Rumsey South, Delburne Wetlands.
118	
119	Sage Creek.
120	

ESA (2009)	Original ESAs (1997-1998)
121	
122	Sage Creek.
123	Sage Creek.
124	Upper St. Mary River.
125	Sage Creek.
126	Sage Creek.
127	Milk River Ridge - Northwest.
128	
129	Verdigris Coulee.
130	Milk River Ridge - Northeast.
131	Sage Creek.
132	Sage Creek.
133	Sage Creek.
134	Sage Creek.
135	Milk River Ridge - Northeast.
136	Sage Creek
137	Milk River Ridge - Northeast, Milk River Ridge - Northeast Slope, Twin River Valley.
138	Sage Creek.
139	
140	Milk River Ridge - Northeast Slope.
141	Milk River Ridge - Northwest.
142	Sage Creek.
143	Sage Creek.
144	Sage Creek.
145	Milk River Ridge - Northeast Slope, Milk River Ridge - Northeast.
146	
147	Milk River Ridge Reservoir.
148	St. Mary Reservoir, Lower St. Mary River, Upper St. Mary River.
149	
150	Sage Creek.
151	Milk River Ridge Reservoir.
152	Tyrell - Rush Lakes.
153	Etzikom Coulee.
154	Lower St. Mary River.
155	Glenwoodville Erratic.

ESA (2009)	Original ESAs (1997-1998)
156	Etzikom Coulee.
157	
158	Sage Creek.
159	Sage Creek.
160	
161	Etzikom Coulee.
162	
163	Stirling Lake.
164	Sage Creek.
165	
166	
167	Cypress Hills.
168	Lower St. Mary River.
169	
170	
171	
172	
173	
174	
175	Red Rock Coulee.
176	
177	
178	Eagle Butte, Cypress Hills.
179	
180	
181	
182	
183	Porcupine Hills, Bluestem.
184	
185	Murray Lake.
186	Purple Springs Dunes, Fincastle Lake, Taber Lake.
187	
188	
189	
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ESA (2009)	Original ESAs (1997-1998)
191	Canon Coulee, Porcupine Hills.
192	Keho Lake.
193	
194	
195	
196	Ross Creek, McAlpine Creek.
197	
198	Ross Creek.
199	Ross Creek.
200	
201	Hays Reservoir.
202	Many Island Lake, Ross Creek.
203	
204	
205	Coulee Ridges.
206	
207	
208	
209	
210	
211	Chappice - Sam Lakes.
212	Coulee Ridges.
213	Little Rolling Hills.
214	
215	Coulee Ridges.
216	Suffield.
217	
218	
219	Kininvie.
220	
221	Lake Newell, Little Rolling Hills.
222	
223	Suffield.
224	
225	

ESA (2009)	Original ESAs (1997-1998)
226	
227	Kininvie.
228	
229	Lake Newell.
230	
231	
232	
233	
234	
235	
236	
237	Frank Lake (Calgary Area).
238	Travers Reservoir, McGregor Lake, Little Bow Reservoir, Majorville.
239	
240	Louisiana Lakes.
241	Louisiana Lakes.
242	Louisiana Lakes.
243	Lathom - San Francisco Lakes.
244	Middle Sand Hills.
245	Suffield.
246	
247	
248	Middle Sand Hills.
249	
250	Suffield.
251	Jenner Springs.
252	
253	
254	
255	Remount.
256	
257	
258	Grassy Island Native Prairie, Youngstown Aspen Groveland, Samson Lake, Jenner Moraine.
259	Jenner Moraine.
260	Namaka - Stobart Lakes.

ESA (2009)	Original ESAs (1997-1998)
261	Jenner Moraine, Native Prairie (Major Lake).
262	
263	
264	Wintering Hills.
265	Alkali Creek Moraine.
266	Irricana Reservoir.
267	Jenner Moraine.
268	
269	Coleman Lake.
270	Hand Hills Lake.
271	
272	
273	Jenner Moraine, Plover Lake.
274	Chain - Farrell Lakes, Dowling Lake.
275	Kirkpatrick Native Prairie, Kirkpatrick Lake, Youngstown Aspen Groveland.
276	Mudspring Lake.
277	Bodo.
278	Grassy Island Native Prairie, Muddy Buttes Badlands, Muddy Buttes.
279	Bodo.
280	Middle Lakes.
281	Sullivan Lake.
282	Ribstone Creek - Nose Hill.
283	Neutral Hills, Gooseberry Lake.
284	
285	Neutral Hills.
286	South Saskatchewan River - Medicine Hat North, Suffield, Chappice - Sam Lakes.
287	Suffield, Remount, South Saskatchewan Canyon, Middle Sand Hills.
288	Red Deer River - Finnegan / Steveville Terraces, Alkali Creek Moraine, Red Deer River - Bindloss / Empress Terraces, Red Deer River - Jenner, Native Prairie (Major Lake), Dinosaur, Red Deer River - Alkali Creek / Dune Point, Jenner Moraine, Suffield, Remount, Wintering Hills, Dune Point Springs.
289	South Saskatchewan River - Medicine Hat West, Majorville, Bow River - Calgary to Siksika Reserve, Bow River - Majorville, Bow River - Hays, Bow River - Bow City / Scandia, South Saskatchewan River - Medicine Hat North, Lower Bow Dunes, Purple Springs Dunes, Chappice - Sam Lakes, Little Rolling Hills.
290	Willow Creek, Tolman Badlands, Hand Hills Fescue, Wintering Hills.
291	Porcupine Hills, Oldman River - Macleod, Bluestem, Oldman River - Lethbridge East, Oldman River - Brocket, Kipp Section, Lenzie Section, Oldman Section.

ESA (2009)	Original ESAs (1997-1998)
292	Suffield, South Saskatchewan Canyon, South Saskatchewan River - Medicine Hat North.
293	South Saskatchewan River - Medicine Hat North.
294	Oldman River - Lethbridge East, Turin Dunes.
295	
296	Eagle Butte, Manyberries Creek Badlands, Sage Creek.
297	Pakowki Lake, Milk River - Pakowki / Pinhorn.
298	Twin River Valley, Milk River Ridge - Northeast, Writing-on-Stone, Milk River Ridge - Northwest, Verdigris Coulee, Twin River Ash.
299	Milk River - Pakowki / Pinhorn, Milk River Canyon, Sage Creek, Milk River - Breed Creek, Deer Creek, Writing-on-Stone, Lower Sweetgrass Hills, Pakowki Lake, Milk River Section, Black Butte.
300	Pakowki Lake.
301	Lower Belly River.
302	North Fork Milk River A, Milk River Ridge - Unglaciated.
303	Little Rolling Hills.
304	Sage Creek, Manyberries Creek Badlands.
305	Dinosaur, Jenner Moraine.
306	Porcupine Hills, Bluestem.
307	Rumsey South.
308	
309	Milk River Ridge - Northwest, North Fork Milk River A, Ross Lake Unglaciated, Milk River Ridge - Unglaciated.
310	Milk River Canyon, Sage Creek.
311	Milk River Canyon.
312	Milk River Canyon.
313	Hand Hills Fescue, Little Fish Lake.
314	Twin River Valley, Milk River Ridge - Northeast, Milk River Ridge - Northeast Slope.
315	South Saskatchewan Canyon.
316	Writing-on-Stone.
317	Oldman River - Brocket, Oldman River - Porcupine Hills.
318	Dinosaur, Red Deer River - Finnegan / Steveville Terraces.
319	Red Deer River - Bindloss / Empress Terraces.
320	Sounding Dunes, Coulee Ridges, Rumsey North, Willow Lake, Marion - Shooting Lake Wetlands, Battle River - Brownfield, Pine Ridge, Pine Lake, Gillespie Lake, Rumsey South.
321	
322	Meinsinger Lake.
323	
324	

ESA (2009)	Original ESAs (1997-1998)
325	
326	Sarcee (Tsuu Tina) Reserve.
327	Sarcee (Tsuu Tina) Reserve.
328	
329	Big Hill Creek.
330	
331	
332	
333	
334	
335	
336	Mikwan - Goosequill - Hummock Lakes.
337	
338	Delburne Wetlands.
339	
340	Sounding Lake, Sounding Dunes.
341	
342	Battle River - Brownfield.
343	
344	
345	Sounding Dunes, Horseshoe Lake (Municipal District of Provost), Sunken Lake, Metiskow Lake.
346	Battle River – Bigknife.
347	
348	Sounding Dunes.
349	
350	Sounding Dunes.
351	
352	
353	
354	Buffalo Lake.
355	Battle River - Bigknife.
356	
357	
358	
359	

ESA (2009)	Original ESAs (1997-1998)
360	
361	Bellshill Lake.
362	Battle River - Brownfield, Silver Heights (wetlands only).
363	Battle River - Bigknife.
364	
365	Red Deer Lake.
366	Red Deer Lake.
367	Samson Lake.
368	
369	Red Deer Lake.
370	
371	Battle River - Driedmeat Lake.
372	Wainwright Base, Battle River - Camp Wainwright.
373	Ribstone Lake, Wainwright Base.
374	
375	Battle River - Driedmeat Lake.
376	
377	
378	Wainwright Base, Ribstone Creek - Camp Wainwright.
379	
380	Wavy Lake.
381	
382	
383	Bearhills Lake.
384	Battle River - Driedmeat Lake.
385	Battle River - Marsden.
386	Baxter Lake.
387	Battle River - Wainwright.
388	
389	
390	Coal Lake.
391	Battle River - Wainwright.
392	
393	
394	Albert Lake.

ESA (2009)	Original ESAs (1997-1998)
395	
396	
397	
398	
399	
400	
401	
402	
403	Kenilworth Lake.
404	
405	
406	
407	
408	Watt Lake.
409	
410	Whitford - Rush Lakes.
411	Wood Lake (Parkland).
412	Kleskun Lake.
413	
414	Sounding Dunes, Greenlee Lake.
415	Ewing Lake, Erskine Lake, Lowden Wetlands.
416	Tolman Badlands, Lousana Canyon, Peter's Pond, Wood Lake (Red Deer Area).
417	Edgerton Dunes, Ribstone Creek - Edgerton.
418	Rumsey South.
419	Killarney / Dillberry / Leane Lake Complex, Reflex Lake, Cipher Lake.
420	Tolman Badlands, Lousana Canyon.
421	Tolman Badlands.
422	Big Lake.
423	Wainwright Dunes Ecological Reserve, Sounding Dunes, Wainwright Base, Ribstone Creek - Camp Wainwright.
424	Killarney / Dillberry / Leane Lake Complex.
425	Beaverhill Lake.
426	
427	
428	Raven River.
429	

ESA (2009)	Original ESAs (1997-1998)
430	
431	
432	Dick Lake.
433	
434	
435	Buck Lake.
436	Pigeon Lake.
437	
438	
439	
440	
441	
442	Wabamun Lake.
443	
444	Pembina River.
445	Glory Hills.
446	Plain Lake.
447	
448	Chip Lake.
449	
450	Lac St. Anne.
451	
452	
453	
454	
455	
456	
457	
458	
459	
460	
461	Lac Canard.
462	
463	
464	George Lake.

ESA (2009)	Original ESAs (1997-1998)
465	
466	
467	
468	
469	Frog Lake.
470	
471	
472	
473	Cache Lake.
474	
475	
476	
477	
478	
479	
480	
481	
482	
483	
484	Reita Lake.
485	
486	Wakomao Lake.
487	
488	Muriel Lake.
489	
490	
491	Reed Lake.
492	
493	
494	
495	
496	Charlotte Lake, Jessie Lake.
497	
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499	

ESA (2009)	Original ESAs (1997-1998)
500	Bunder Lake.
501	
502	
503	Forsyth Lake.
504	
505	Little Smoky River.
506	Stebbing Lake.
507	
508	Erickson Lake.
509	
510	Edward Lake.
511	
512	
513	Kerr Lake.
514	
515	Harold Lake.
516	Maloney Lake.
517	
518	
519	
520	Amisk Lake, Amisk Valley.
521	
522	
523	
524	
525	Bleak Lake Wetlands.
526	
527	
528	
529	Little Smoky River, Tufa - Unusual Wetland Feature.
530	
531	
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ESA (2009)	Original ESAs (1997-1998)
535	Simonette River.
536	Beaver Lake.
537	
538	
539	Wolf Lake, Sand River.
540	
541	
542	Simonette River, Smoky River, Side Lake, Cutbank River.
543	
544	
545	
546	
547	Lac La Biche, Lac La Biche Peatland.
548	Chinchaga Diversity Area, Egg Lake - Algar Lake Diversity Area, Parallel Creek Peatland, Trout River Delta, Winefred / Grist Watershed, Schultz's Bog Diversity Area, Ells River, Athabasca River - Rapids Reach, Harper Springs Natural Area, South Notikewin / Deadwood Caribou Range, Caribou Mountains Escarpment, Bistcho Lake, Bistcho Lake Peat Plateau Bog, Gordon Lake.
549	
550	
551	Heart Lake.
552	Sturgeon Lake.
553	Sand River.
554	Sand River.
555	
556	Bear Lake, Saskatoon Lake, La Glace Lake, Clairmount Lake, Buffalo Lake Complex, Bush (Wilkin) Lake, Ferguson Lake, Valhalla Lake, Flyingshot Lake, Wolfe Lake, Flyingshot Lake (SW).
557	Snipe Lake.
558	
559	
560	McNaught Lake.
561	Primrose Lake South Basin.
562	Lesser Slave River.
563	Lesser Slave River.
564	Lesser Slave Lake Horizontal Fen.
565	
566	Lesser Slave Lake Horizontal Fen.
567	

ESA (2009)	Original ESAs (1997-1998)
568	
569	
570	
571	
572	
573	
574	Lesser Slave Lake, North Shore Moose Area, Marten Mountain.
575	
576	Winefred Lake.
577	
578	Winefred Lake.
579	Winefred / Grist Watershed.
580	
581	Buffalo Bay / Horse Lake.
582	Little Smoky River.
583	Winefred Lake.
584	Smoky River, Little Smoky River, Puskwaskau River.
585	
586	Utikuma Lake, Utikumasis Lake.
587	
588	
589	
590	Egg Lake - Algar Lake Diversity Area.
591	Frank Lake (Peace River Area).
592	North Wabasca Lake, Wabasca River - Wabasca Lake, South Wabasca Lake.
593	Egg Lake - Algar Lake Diversity Area.
594	Nipisi Lake.
595	Birch Lake, Gordon Lake, Gipsy Lake.
596	Parallel Creek Peatland.
597	Egg Lake - Algar Lake iversity Area.
598	Egg Lake - Algar Lake Diversity Area.
599	Upper Wabasca River.
600	Cardinal Lake.
601	Egg Lake - Algar Lake Diversity Area.
602	

ESA (2009)	Original ESAs (1997-1998)
603	Peace River – Dunvegan.
604	
605	Lower Christina River.
606	Upper Wabasca River.
607	Egg Lake - Algar Lake Diversity Area.
608	Peerless / Graham Lake Watershed.
609	
610	South Notikewin / Deadwood Caribou Range.
611	
612	South Notikewin / Deadwood Caribou Range.
613	
614	
615	Gods Lake.
616	
617	South Notikewin / Deadwood Caribou Range.
618	
619	Upper Wabasca River, Wabasca River (Canyon).
620	
621	Ells River.
622	Wabasca River (Canyon).
623	
624	
625	
626	Birch Mountains Diversity Area.
627	
628	
629	
630	
631	
632	
633	
634	
635	Eymundson Sinkholes.
636	Wabasca River.
637	

ESA (2009)	Original ESAs (1997-1998)
638	McClelland Lake Sinkholes, McClelland Lake.
639	
640	
641	
642	Wadlin Lake.
643	Wabasca River.
644	Chinchaga River.
645	
646	Chinchaga River, Chinchaga Diversity Area.
647	Chinchaga River, Haig River.
648	Wabasca River, Wabasca Bison Range.
649	Wabasca Bison Range.
650	Chinchaga River.
651	Peace - Athabasca Rivers Delta, Richardson River Sand Hills.
652	
653	
654	
655	
656	
657	Hay River.
658	Hay River.
659	Old Fort Bay Dunes.
660	
661	Lake Athabasca - South Shore.
662	Hay River.
663	Hay River.
664	Hay River.
665	Zama Lake Ribbed Fen.
666	Lake Athabasca - South Shore.
667	Hay River
668	
669	
670	
671	Bistcho Lake.
672	Bistcho Lake Peat Plateau Bog, Bistcho Lake.

ESA (2009)	Original ESAs (1997-1998)
673	
674	Cameron Hills Glacial Flutings.
675	Slave River Rapids.
676	Peace - Athabasca Rivers Delta, Glacial Lake Berg, Lake Athabasca - Shelter - Sand Points, Slave River, Richardson River Sand Hills.
677	
678	Slave River, Slave River Rapids, Stony Islands, La Butte Creek.
679	McClelland Lake Fen, McClelland Lake, Firebag River.
680	Pelican Lake, Parallel Creek Peatland.
681	Cache Creek - Wolverine Sand Hills, Peace River.
682	Peace River.
683	Cache Creek - Wolverine Sand Hills, Peace River.
684	Peace River, Peace River - Dunvegan, Peace River - Smoky Junction, Smoky River, Clear River Moose Range, Cache Creek - Wolverine Sand Hills, Peace River - Parkland, Representative Area #89, Representative Area #84.
685	Bear River Sandhills.
686	NW Woodland Caribou Winter Range, Wapiti River, Pinto Creek Elk Range, Narraway River, Stony Creek Moose and Grizzly Range, Nose Creek, Unnamed Lakes (T68 R11 S27 W6), Pipestone Creek.
687	
688	Schultz's Bog Diversity Area.
689	Fort Vermilion Sand Hills, Peace River, La Crete Sand Hills, Child Lake (Child Lake Salt Meadows Natural Area).
690	North Saskatchewan River - Drayton Valley, North Saskatchewan River - Elk Point, North Saskatchewan River - Genessee - Drayton Valley, North Saskatchewan River - Edmonton, Upper North Saskatchewan River, Lac Sante, North Saskatchewan Gap, Crimson - Louis Lake Wetlands, Genessee Natural Area, Ram River, Shunda Creek.
691	Parallel Creek Peatland.
692	Athabasca River - Pembina Reach, Athabasca River - Tar Sands Reach, Richardson River Sand Hills, Athabasca River - Rapids Reach, Maybelle River Sand Hills, Egg Lake - Algar Lake Diversity Area, Crag and Tail, Parallel Creek Peatland, Firebag River, Boivin Creek Peatland, Lower Christina River, Peace - Athabasca Rivers Delta, Paxton - Larocque Lakes, Pembina River, Richardson Tower Lakes (also called Archer-Bowen-Brander Lakes), Richardson River Active Sand Dunes, La Saline Springs Natural Area, Ronald Lake, Ells River, Clearwater River (NE Alberta), Lesser Slave River.
693	Schultz's Bog Diversity Area, Athabasca River - Rapids Reach.
694	Garden River Bison Range, Pine Lake Bison Range, Peace - Athabasca Rivers Delta, Peace River, Lake Claire, Needle Lake Bison Range, Caribou Mountains Escarpment, Sweetgrass Bison Range, Kilome Lake Complex, Slave River, Brine Creek Salt Plain, Whooping Crane Nesting Habitat, Raup Lake Salt Plains, Athabasca River - Tar Sands Reach, Salt River, Salt River Salt Plains, Square Lake, Merryweather Lake, Unnamed Lake (T121 R19 S32 W4), Stony Islands.
695	Elk Island National Park, Blackfoot Grazing Reserve.
696	

ESA (2009)	Original ESAs (1997-1998)
697	Sturgeon Lake.
698	Lake Athabasca - Shelter - Sand Points, Lake Athabasca - North Shore / Fidler - Gray Willow Points, Wylie Lake.
699	Crag and Tail, Firebag River, Marguerite River Dissected Kame.
700	Harper Springs Natural Area.
701	
702	Winagami Lake / South Heart River.
703	Lakeland Provincial Recreation Area, Lakeland Diversity Area, Touchwood Lake, Seibert Lake, Frenchman Lake, Spencer Lake, Ironwood Lake, Lakeland Provincial Park, Rich Lake.
704	Birch Mountains Diversity Area.
705	
706	Orloff Lake.
707	Lesser Slave Lake, Marten Mountain.
708	Peace River.
709	Gordon Lake, Gipsy Lake, Birch Lake.
710	Smoky River, Peace River - Dunvegan, Peace River - Smoky Junction, Peace River.
711	Peace River.
712	Maybelle River Sand Hills, Paxton - Larocque Lakes.
713	Richardson River Sand Hills, Athabasca River - Tar Sands Reach.
714	Lesser Slave Lake.
715	Lesser Slave Lake, North Shore Moose Area.
716	Athabasca River - Pembina Reach.
717	Ministik Lake, Miquelon Lake.
718	Lakeland Provincial Park, Lakeland Diversity Area, Lakeland Provincial Recreation Area.
719	Athabasca River - Whitecourt - Vega, Athabasca Sand Dune - Peatland Complex, Athabasca River - Pembina Reach, Fort Assiniboine Horizontal Fen.
720	North Saskatchewan River - Genessee - Drayton Valley, North Saskatchewan River - Drayton Valley.
721	North Saskatchewan River - Drayton Valley, North Saskatchewan River - Genessee - Drayton Valley.
722	Paxton - Larocque Lakes, Maybelle River Sand Hills.
723	Peace River - Dunvegan.
724	Blackfoot Grazing Reserve, Cooking Lake, Hastings Lake, Elk Island National Park.
725	White Earth Natural Area, Long Lake.
726	
727	Athabasca River - Pembina Reach.
728	Steele Lake.

ESA (2009)	Original ESAs (1997-1998)
729	Holmes Crossing Sand Hills.
730	Cold Lake.
731	Winagami Lake / South Heart River.
732	Peace River - Dunvegan, Pouce Coupe River, Representative Area #89.
733	
734	Egg Lake - Algar Lake Diversity Area.
735	Athabasca River - Pembina Reach.
736	Caribou Mountains Escarpment, Hay River, Margaret Lake (Boreal), Caribou Mountains Northern Ribbed Fens, Lessard Creek Peat Plateau Bog, Caribou Mountains Peat Plateau Bog.
737	Athabasca River - Rapids Reach, Egg Lake - Algar Lake Diversity Area, Parallel Creek Peatland.
738	Hay - Zama Lakes Complex, Hay River.
739	Chinchaga Diversity Area.
740	Clearwater River (NE Alberta), Lower Christina River, High Hill River, Athabasca River - Tar Sands Reach.
741	Clearwater River (NE Alberta).
742	
743	
744	
745	Wylie Lake.
746	Wylie Lake.
747	Wylie Lake.
748	
749	
750	Charles - Cornwall Lakes.
751	Leland - Tulip Lakes.
752	Waugh Lake.
753	La Butte Creek, Slave River.
754	Charles - Cornwall Lakes, Colin Lake, Woodman - Alexander Lakes.

ESAs by Provincial and National Grids

ESA	Alberta Township System (ATS)							National Topographic System (NTS)		
1	1-27-4 1-29-4	1-28-4	2-27-4	2-28-4	2-26-4	1-26-4	2-29-4	82H		
2	11-4-5 13-4-5 14-5-5 8-4-5 6-2-5 12-5-5 10-2-5 6-5-5 6-1-5 2-29-4 8-2-5	7-4-5 10-4-5 5-2-5 14-4-5 14-3-5 10-3-5 3-30-4 15-6-5 17-7-5 2-1-5 11-6-5	4-3-5 6-4-5 3-2-5 8-3-5 7-5-5 7-2-5 4-4-5 4-30-4 8-1-5 2-2-5 18-6-5	4-2-5 11-5-5 5-4-5 5-1-5 9-5-5 13-5-5 17-6-5 10-1-5 14-6-5 11-2-5 7-1-5	12-4-5 4-1-5 5-3-5 15-4-5 3-3-5 16-5-5 9-1-5 5-5-5 18-7-5 16-3-5 17-4-5	6-3-5 3-1-5 15-5-5 10-5-5 9-3-5 16-4-5 16-6-5 7-6-5 8-6-5 13-6-5 2-30-4	9-4-5 7-3-5 8-5-5 15-3-5 13-3-5 12-3-5 11-3-5 5-30-4 3-29-4 9-2-5	82G	82J	82H
3	9-2-5							82G		
4	10-30-4	11-30-4	11-1-5	10-1-5	10-29-4			82H	82G	
5	17-3-5	16-3-5	17-4-5	16-4-5				82J		
6	17-4-5							82J		
7	17-5-5 16-5-5	18-5-5 18-6-5	19-4-5	19-5-5	18-4-5	17-4-5	17-6-5	82J		
8	23-6-5 21-6-5 24-8-5	21-5-5 20-6-5 21-4-5	23-7-5 20-5-5 23-5-5	22-6-5 24-6-5 19-4-5	24-7-5 21-7-5 22-4-5	22-5-5 20-4-5 20-7-5	22-7-5 23-8-5 19-6-5	82J	82O	
9	22-4-5							82J		
10	23-4-5							82J		
11	23-5-5							82J		
12	23-5-5	23-4-5						82J		
13	27-5-5	26-5-5	27-6-5	26-4-5				82O		
14	56-3-6 55-1-6	55-2-6 57-3-6	55-3-6	54-2-6	56-1-6	56-2-6	56-4-6	83E		
15	57-8-6	57-7-6	58-8-6	58-7-6				83E	83L	
16	59-6-6	59-7-6	59-5-6	58-6-6	58-7-6			83L		
17	59-10-6 61-12-6 61-8-6 62-11-6 61-9-6 56-9-6 62-10-6 59-6-6 52-28-5 55-2-6	59-9-6 61-11-6 59-11-6 56-7-6 55-5-6 58-11-6 57-6-6 58-8-6 62-8-6 57-11-6	60-10-6 57-10-6 60-8-6 54-3-6 55-6-6 54-2-6 62-14-6 59-12-6 60-6-6 56-11-6	60-9-6 57-9-6 62-13-6 62-12-6 56-10-6 63-11-6 60-14-6 57-8-6 63-13-6 55-7-6	60-11-6 58-10-6 60-13-6 59-8-6 55-3-6 56-8-6 52-27-5 57-5-6 63-10-6 54-4-6	56-6-6 58-9-6 56-5-6 60-7-6 61-7-6 61-14-6 52-1-6 64-11-6 52-2-6 53-2-6	61-13-6 60-12-6 61-10-6 59-7-6 55-4-6 57-7-6 56-4-6 53-27-5 64-12-6 53-3-6	83L	83E	83F
18	64-11-6							83L		
19	64-11-6							83L		

ESA	Alberta Township System (ATS)							National Topographic System (NTS)		
20	43-17-5	35-14-5	35-15-5	35-13-5	31-11-5	40-18-5	47-23-5	83C	82O	83F
	43-18-5	43-19-5	39-20-5	36-15-5	42-19-5	36-16-5	44-18-5	83B	83N	82J
	36-19-5	41-19-5	40-17-5	42-18-5	45-18-5	37-17-5	37-15-5			
	37-16-5	33-13-5	33-11-5	41-18-5	41-15-5	38-16-5	42-16-5			
	34-13-5	34-14-5	46-23-5	46-22-5	32-12-5	33-12-5	48-25-5			
	32-11-5	40-20-5	45-20-5	38-19-5	41-16-5	44-21-5	45-21-5			
	45-19-5	42-17-5	43-16-5	36-18-5	29-10-5	39-16-5	35-16-5			
	48-22-5	45-22-5	46-21-5	42-15-5	44-17-5	36-14-5	35-18-5			
	44-19-5	47-22-5	34-12-5	46-20-5	30-11-5	47-24-5	34-15-5			
	41-20-5	39-17-5	33-14-5	34-16-5	43-20-5	36-20-5	34-11-5			
	39-18-5	49-25-5	38-17-5	39-19-5	44-20-5	41-14-5	32-13-5			
	36-13-5	48-24-5	35-12-5	39-21-5	41-17-5	49-26-5	40-19-5			
	42-20-5	40-16-5	45-23-5	31-10-5	29-11-5	45-17-5	35-19-5			
	48-23-5	44-22-5	34-10-5	37-18-5	38-15-5	42-14-5	39-15-5			
	43-21-5	35-10-5	36-17-5	31-12-5	46-19-5	38-20-5	33-10-5			
	46-18-5	40-15-5	31-9-5	32-10-5	47-25-5	35-17-5	24-9-5			
	36-12-5	49-24-5	30-10-5	37-19-5	44-16-5	42-13-5	32-14-5			
	31-8-5	40-21-5	37-13-5	35-11-5	47-21-5	38-18-5	34-4-5			
	37-14-5	24-10-5	32-6-5	35-3-5	31-7-5	33-5-5	48-26-5			
	25-8-5	34-18-5	38-12-5	32-5-5	37-12-5	37-20-5	33-16-5			
	39-14-5	49-22-5	44-23-5	47-20-5	43-15-5	46-24-5	21-9-5			
	45-24-5	25-9-5	24-8-5	34-19-5	34-5-5	46-17-5	48-21-5			
	33-15-5	36-21-5	41-21-5	41-13-5	34-9-5	25-10-5	42-21-5			
	22-9-5	34-3-5	30-12-5	38-11-5	49-27-5	29-9-5	34-17-5			
	50-25-5	40-14-5	49-23-5	25-11-5	31-6-5	24-11-5	31-13-5			
	36-11-5	35-9-5	35-4-5	35-20-5	28-10-5	28-11-5				
21	25-7-5	25-8-5	25-6-5					82O		
22	1-29-4	1-30-4	2-30-4	2-1-5	1-1-5	1-28-4	2-29-4	82H	82G	
	2-2-5	3-30-4	3-1-5	1-2-5						
23	39-25-5	39-24-5	39-23-5	39-22-5	43-27-5	43-26-5	43-25-5	83C	83E	83D
	43-24-5	43-23-5	47-4-6	47-3-6	47-2-6	47-1-6	43-1-6	83F		
	43-2-6	47-26-5	47-27-5	48-1-6	51-9-6	48-4-6	48-2-6			
	48-3-6	44-2-6	44-1-6	48-5-6	48-27-5	44-27-5	44-26-5			
	40-26-5	44-25-5	44-24-5	40-25-5	40-24-5	40-23-5	40-22-5			
	49-5-6	49-1-6	45-1-6	49-4-6	49-2-6	45-2-6	49-8-6			
	49-3-6	41-1-6	45-27-5	41-27-5	41-26-5	45-26-5	38-26-5			
	45-25-5	41-25-5	41-24-5	38-25-5	38-24-5	41-23-5	41-22-5			
	42-27-5	42-26-5	42-25-5	42-24-5	50-9-6	42-23-5	50-8-6			
	50-7-6	50-6-6	42-22-5	46-4-6	46-3-6	50-5-6	50-4-6			
	46-2-6	42-2-6	50-3-6	46-1-6	42-1-6	46-27-5	46-26-5			
	49-6-6	51-5-6	37-25-5	45-3-6	42-21-5	51-4-6	41-21-5			
	51-7-6	40-1-6	39-26-5	41-2-6	40-27-5	38-23-5	50-1-6			
	37-24-5	51-3-6	44-23-5	51-10-6	47-5-6	51-8-6	44-3-6			
	51-6-6	43-22-5	48-26-5	49-9-6	50-2-6	42-28-5	41-28-5			
	40-21-5	45-24-5	38-27-5	46-25-5	49-27-5	37-26-5	49-7-6			
	47-25-5	40-2-6	38-22-5	43-28-5	44-28-5	45-28-5	46-28-5			
	37-23-5	46-5-6	45-4-6	48-6-6	48-8-6	47-28-5	42-20-5			
	48-28-5	49-28-5	43-21-5	40-28-5	42-3-6	50-10-6	43-3-6			
	50-28-5	37-27-5	51-2-6	43-20-5	52-10-6	52-9-6	51-11-6			
	39-21-5	45-5-6	52-7-6	47-6-6	52-5-6	37-22-5	50-27-5			
	44-22-5	48-9-6	46-24-5	45-23-5	48-7-6	52-4-6	36-24-5			
	36-25-5	36-26-5	49-26-5	41-3-6	47-24-5	39-1-6	41-20-5			
	49-10-6	48-25-5	40-20-5	39-27-5	52-6-6	0-0-0	52-3-6			
	52-11-6	51-1-6								

ESA	Alberta Township System (ATS)							National Topographic System (NTS)		
24	35-21-5 32-18-5 28-13-5 27-12-5 29-14-5 31-13-5 25-14-5 26-10-5 21-11-5 23-12-5 35-23-5 35-19-5 36-20-5 34-15-5 37-21-5 21-10-5 36-19-5	35-22-5 24-12-5 35-20-5 29-16-5 34-21-5 33-21-5 32-17-5 23-11-5 27-16-5 24-13-5 31-12-5 28-17-5 33-14-5 30-11-5 20-11-5 22-10-5	31-15-5 28-16-5 28-14-5 25-12-5 34-20-5 30-17-5 30-12-5 37-22-5 29-17-5 22-12-5 37-23-5 32-20-5 33-22-5 24-14-5 38-23-5 31-21-5	31-14-5 32-16-5 36-23-5 25-13-5 30-16-5 26-12-5 33-20-5 36-21-5 24-11-5 26-15-5 28-11-5 29-11-5 33-17-5 21-12-5 23-10-5 34-23-5	31-16-5 32-15-5 27-15-5 29-12-5 30-15-5 26-13-5 31-18-5 25-11-5 27-11-5 34-19-5 30-18-5 32-13-5 31-19-5 27-17-5 38-22-5 29-18-5	31-17-5 28-12-5 27-14-5 29-15-5 30-13-5 26-14-5 33-15-5 32-21-5 32-14-5 33-16-5 33-18-5 25-10-5 27-9-5 20-10-5 26-16-5 31-20-5	36-22-5 28-15-5 27-13-5 29-13-5 30-14-5 26-11-5 33-19-5 22-11-5 34-22-5 32-19-5 25-15-5 26-9-5 27-10-5 36-24-5 37-24-5 34-16-5	82O 82J	83N	83C
25	35-17-5	35-18-5	36-17-5					83C	83N	
26	5-1-5	5-2-5						82G		
27	51-1-6 51-28-5	51-2-6 50-1-6	52-2-6 52-1-6	51-27-5 49-27-5	50-2-6 52-3-6	50-27-5 51-3-6	50-28-5	83E	83F	
28	19-6-5 18-5-5	19-5-5	20-5-5	19-4-5	20-6-5	20-4-5	18-6-5	82J		
29	23-9-5 25-11-5	25-10-5 25-9-5	24-10-5 24-11-5	23-10-5 25-8-5	24-9-5 23-8-5	24-8-5 22-9-5	22-10-5	82O	82J	
30	46-24-5 46-23-5	45-23-5 47-23-5	46-25-5	45-24-5	47-24-5	45-22-5	47-25-5	83C	83F	
31	56-8-6	56-9-6	57-8-6					83E		
32	55-7-6 52-12-6 53-8-6 53-2-6 54-7-6 54-12-6 51-12-6 56-9-6 51-6-6 55-14-6 50-12-6	55-12-6 56-12-6 53-7-6 52-3-6 54-6-6 53-12-6 53-13-6 56-14-6 51-8-6 51-7-6 51-13-6	55-11-6 56-11-6 53-6-6 54-11-6 54-5-6 52-7-6 55-6-6 52-13-6 56-7-6 51-4-6 51-9-6	55-8-6 52-8-6 53-5-6 54-10-6 54-4-6 52-9-6 55-5-6 57-13-6 54-3-6 50-10-6 0-0-0	55-10-6 53-11-6 53-4-6 52-6-6 52-4-6 55-13-6 55-4-6 57-14-6 54-13-6 50-11-6 52-2-6	55-9-6 53-10-6 52-11-6 54-9-6 57-11-6 52-10-6 56-8-6 57-12-6 51-10-6 51-5-6	56-13-6 53-9-6 53-3-6 54-8-6 52-5-6 51-11-6 56-10-6 58-11-6 51-3-6 53-14-6	83E	83L	
33	52-2-6							83E		
34	59-13-6 59-14-6 60-12-6	58-13-6 58-11-6	58-12-6 57-14-6	59-12-6 60-13-6	57-12-6 60-14-6	57-13-6 57-11-6	58-14-6 59-11-6	83L	83E	
35	13-5-5	12-5-5	13-6-5					82J	82G	
36	38-21-5 36-21-5	37-21-5 37-18-5	37-20-5 37-22-5	37-19-5 38-19-5	38-20-5 39-20-5	38-22-5 36-20-5	39-21-5	83C		

ESA	Alberta Township System (ATS)							National Topographic System (NTS)	
37	27-10-5	28-11-5	28-10-5	27-11-5	26-10-5			82O	
38	34-17-5 34-16-5	34-18-5 35-16-5	33-17-5 33-19-5	33-18-5 32-17-5	35-17-5 35-18-5	34-19-5	33-16-5	83N	83C
39	15-4-5	14-4-5	15-5-5	14-5-5				82J	
40	19-5-5	19-6-5	20-5-5	19-4-5	20-6-5			82J	
41	20-9-5 19-10-5 18-8-5	19-9-5 18-10-5	21-10-5 19-7-5	19-8-5 21-8-5	20-10-5 21-11-5	20-8-5 22-10-5	21-9-5 18-7-5	82J	
42	23-9-5	22-9-5						82J	
43	22-10-5 21-10-5	22-9-5 21-11-5	23-10-5 23-9-5	21-9-5 24-10-5	22-11-5	24-11-5	23-11-5	82J	82O
44	24-8-5	23-8-5	24-9-5	24-10-5	23-9-5	25-9-5		82O	82J
45	22-8-5 20-8-5 19-8-5	21-8-5 19-6-5 18-8-5	18-6-5 21-7-5 17-6-5	19-7-5 21-9-5 20-6-5	18-7-5 22-7-5 24-8-5	20-7-5 22-9-5 23-7-5	23-8-5 18-5-5	82J	82O
46	28-10-5 17-5-5 18-5-5 14-3-5 13-6-5 16-7-5	27-9-5 21-6-5 15-6-5 26-10-5 14-5-5 19-5-5	26-9-5 16-5-5 22-7-5 15-4-5 25-8-5 18-7-5	25-9-5 20-7-5 28-11-5 15-5-5 22-8-5 18-6-5	16-6-5 21-7-5 20-6-5 16-4-5 27-8-5 26-8-5	17-7-5 27-10-5 17-6-5 25-10-5 29-9-5	28-9-5 14-6-5 29-11-5 13-3-5 29-10-5	82J	82O
47	8-2-4 9-1-4	7-1-4 8-4-4	8-1-4 9-3-4	8-3-4 6-1-4	7-2-4 6-3-4	7-3-4	9-2-4	72E	
48	11-3-5	12-2-5	12-3-5	11-2-5	13-3-5	13-2-5	10-3-5	82G	82J
49	11-2-5	12-2-5	10-2-5	10-3-5	11-3-5	11-1-5		82G	82J
50	17-3-5	19-3-5	19-4-5	18-4-5	18-3-5	17-2-5		82J	
51	28-8-5							82O	
52	35-7-5	35-6-5						82O	83B
53	35-6-5							83B	
54	37-10-5	36-11-5	37-11-5	36-10-5				83B	
55	38-8-5	38-7-5						83B	
56	38-9-5							83B	
57	39-13-5	39-12-5	38-13-5					83B	
58	39-8-5							83B	
59	41-12-5							83B	
60	44-4-5							83B	
61	44-15-5							83C	
62	45-16-5	44-16-5	45-17-5	44-17-5				83C	

ESA	Alberta Township System (ATS)							National Topographic System (NTS)	
63	45-10-5	45-11-5						83B	
64	45-11-5							83B	
65	47-10-5							83G	
66	47-20-5	48-20-5	47-19-5	48-19-5				83F	
67	47-21-5							83F	
68	50-21-5	49-21-5						83F	
69	50-15-5	50-14-5	51-14-5	51-15-5				83F	
70	52-21-5	52-22-5						83F	
71	53-17-5							83F	
72	53-19-5							83F	
73	54-21-5							83F	
74	55-15-5							83F	
75	56-18-5							83F	
76	57-4-6	57-5-6						83E	
77	58-12-5							83J	
78	58-27-5	58-1-6						83K	83L
79	59-26-5	58-26-5						83K	
80	59-15-5	59-16-5	60-16-5	60-15-5				83K	
81	59-26-5	59-27-5	59-1-6					83K	83L
82	60-21-5	59-21-5	60-20-5	59-20-5				83K	
83	60-14-5	60-13-5						83J	83K
84	60-19-5	61-19-5	60-20-5	61-20-5				83K	
85	60-3-6							83L	
86	60-4-6	60-5-6	59-5-6					83L	
87	62-20-5 61-19-5	62-21-5 63-20-5	62-19-5 62-18-5	63-21-5	61-20-5	61-21-5	62-22-5	83K	
88	63-24-5							83K	
89	64-13-5	65-13-5						83J	
90	66-10-5	67-10-5	67-9-5					83J	
91	64-13-6	64-12-6	63-12-6	63-13-6	65-13-6			83L	
92	65-12-6							83L	
93	66-11-6	66-10-6						83L	
94	67-7-5							83J	

ESA	Alberta Township System (ATS)							National Topographic System (NTS)		
95	67-12-5 65-14-5 67-14-5 66-11-5 68-16-5 68-17-5	64-15-5 66-14-5 68-13-5 65-13-5 65-17-5	65-15-5 67-15-5 63-14-5 62-14-5 67-17-5	66-12-5 67-16-5 66-15-5 68-11-5 63-16-5	64-14-5 66-13-5 64-16-5 65-11-5 68-15-5	65-16-5 67-11-5 65-12-5 66-16-5 64-17-5	67-13-5 68-12-5 63-15-5 67-10-5 66-10-5	83K	83J	
96	68-19-5	68-18-5						83K		
97	68-8-5	69-8-5						83J		
98	75-5-5	75-4-5						83O		
99	60-8-5 59-11-5 53-23-5 50-26-5 60-15-5 57-20-5 62-5-5	61-7-5 57-21-5 60-9-5 59-13-5 59-12-5 60-18-5	60-14-5 60-12-5 52-24-5 56-22-5 61-15-5 61-16-5	50-27-5 60-17-5 54-22-5 59-19-5 59-10-5 62-6-5	58-20-5 61-6-5 60-11-5 60-10-5 59-9-5 51-24-5	60-13-5 55-22-5 58-19-5 60-16-5 53-22-5 61-5-5	51-25-5 52-23-5 59-18-5 51-26-5 60-7-5 56-21-5	83J	83F	83K
100	39-14-5	39-13-5	40-14-5	40-13-5				83B		
101	40-8-5	40-7-5						83B		
102	53-21-5	53-22-5	52-22-5	52-21-5				83F		
103	66-13-5	66-14-5	67-13-5					83J		
104	55-21-5	54-20-5	53-19-5	55-20-5	54-22-5	53-20-5	55-22-5	83F		
105	62-12-6							83L		
106	55-26-5	55-27-5	56-26-5	54-27-5				83F		
107	51-19-5	52-19-5	51-20-5	52-20-5				83F		
108	61-11-5	61-12-5						83J		
109	41-17-5	42-17-5	41-16-5	40-16-5				83C		
110	52-26-5	51-26-5	53-26-5	53-27-5	52-27-5			83F		
111	64-5-6	64-4-6						83L		
112	71-7-5 69-5-5 70-4-5	70-7-5 69-6-5 72-6-5	70-6-5 69-8-5 69-4-5	70-5-5 69-7-5	71-8-5 72-7-5	71-6-5 71-5-5	70-8-5 72-8-5	83O	83J	
113	44-20-5	44-19-5	45-19-5	43-20-5	45-20-5			83C		
114	54-26-5	55-25-5	55-26-5	53-26-5				83F		
115	1-21-4	1-22-4	1-20-4					82H		
116	1-25-4	1-26-4	2-25-4					82H		

ESA	Alberta Township System (ATS)							National Topographic System (NTS)		
117	15-12-4	24-8-4	18-8-4	24-17-4	14-12-4	24-10-4	37-24-4	72M	72L	83A
	23-9-4	35-22-4	14-11-4	35-18-4	24-16-4	14-10-4	25-10-4	82P	73D	82I
	36-24-4	23-10-4	25-9-4	34-20-4	39-7-4	23-8-4	25-11-4	72E	73E	82H
	27-16-4	19-11-4	25-8-4	19-7-4	33-12-4	22-11-4	24-9-4	83H	83B	
	24-4-4	18-21-4	34-12-4	19-23-4	8-6-4	43-20-4	17-7-4			
	33-3-4	17-11-4	33-13-4	32-2-4	37-25-4	30-7-4	29-12-4			
	13-11-4	23-11-4	15-11-4	34-11-4	12-15-4	19-8-4	27-11-4			
	20-7-4	35-19-4	39-8-4	33-11-4	38-9-4	27-17-4	16-11-4			
	32-4-4	34-13-4	24-7-4	37-16-4	11-2-4	18-12-4	24-11-4			
	23-17-4	19-22-4	26-11-4	37-12-4	27-6-4	32-5-4	42-19-4			
	33-4-4	34-5-4	18-9-4	20-16-4	33-6-4	30-1-4	14-9-4			
	36-17-4	30-3-4	26-13-4	30-4-4	31-1-4	24-19-4	32-3-4			
	52-11-4	14-8-4	27-14-4	27-10-4	30-6-4	16-8-4	15-8-4			
	31-7-4	36-23-4	26-7-4	18-7-4	44-12-4	22-10-4	26-8-4			
	32-12-4	31-10-4	35-23-4	36-25-4	25-13-4	13-10-4	19-12-4			
	37-5-4	33-2-4	13-20-4	35-25-4	33-5-4	32-11-4	37-23-4			
	29-14-4	37-1-4	10-5-4	42-21-4	32-10-4	27-15-4	49-7-4			
	31-8-4	41-18-4	30-8-4	37-9-4	34-22-4	35-16-4	25-1-4			
	6-7-4	27-1-4	9-3-4	43-19-4	18-5-4	18-11-4	36-8-4			
	26-15-4	2-11-4	3-18-4	48-3-4	13-12-4	34-4-4	38-3-4			
	18-6-4	26-18-4	23-20-4	35-24-4	21-13-4	16-9-4	23-7-4			
	37-2-4	28-13-4	23-12-4	37-7-4	13-9-4	26-14-4	30-17-4			
	34-6-4	30-9-4	30-15-4	43-23-4	33-7-4	35-5-4	28-15-4			
	26-1-4	28-8-4	28-14-4	27-13-4	11-4-4	11-3-4	16-12-4			
	23-16-4	36-18-4	16-17-4	40-7-4	25-14-4	13-21-4	26-6-4			
	28-2-4	17-12-4	18-20-4	29-17-4	17-14-4	35-12-4	42-11-4			
	12-14-4	39-2-4	20-10-4	29-13-4	21-20-4	17-21-4	43-10-4			
	25-4-4	13-14-4	31-6-4	16-7-4	25-7-4	20-9-4	36-10-4			
	36-7-4	6-6-4	29-2-4	27-12-4	30-13-4	29-3-4	42-10-4			
	44-19-4	32-1-4	21-12-4	2-12-4	30-5-4	20-18-4	31-11-4			
	9-8-4	5-12-4	15-10-4	28-4-4	30-2-4	43-11-4	19-18-4			
	24-18-4	15-13-4	30-11-4	22-12-4	28-11-4	12-12-4	17-18-4			
	8-17-4	29-4-4	32-13-4	23-15-4	12-19-4	42-18-4	35-1-4			
	19-19-4	37-17-4	7-13-4	54-12-4	20-13-4	29-6-4	6-24-4			
	34-23-4	40-2-4	28-16-4	28-6-4	31-16-4	43-21-4	48-13-4			
	13-15-4	50-14-4	1-7-4	26-10-4	28-12-4	18-14-4	7-7-4			
	43-22-4	20-8-4	15-7-4	36-1-4	29-5-4	17-8-4	7-24-4			
	19-20-4	46-1-4	24-3-4	28-1-4	36-9-4	27-5-4	32-7-4			
	38-1-4	38-1-5	7-9-4	34-3-4	7-17-4	57-18-4	39-4-4			
	39-12-4	10-6-4	20-5-4	6-1-4	7-6-4	18-18-4	23-13-4			
	7-8-4	19-5-4	15-9-4	2-13-4	38-7-4	49-14-4	28-7-4			
	21-7-4	7-14-4	31-12-4	26-12-4	29-18-4	42-6-4	30-16-4			
	9-2-4	39-1-4	38-2-4	25-16-4	18-13-4	29-1-4	26-9-4			
	35-11-4	30-10-4	37-8-4	41-10-4	21-17-4	29-15-4	38-8-4			
	18-2-4	26-19-4	14-13-4	31-15-4	35-17-4	19-10-4	8-9-4			
	19-17-4	20-12-4	33-20-4	57-17-4	11-12-4	18-3-4	37-6-4			
	37-13-4	45-1-4								
118	2-20-4							82H		
119	1-1-4							72E		
120	2-27-4	2-28-4						82H		
121	2-28-4							82H		

ESA	Alberta Township System (ATS)							National Topographic System (NTS)	
139	4-28-4							82H	
140	4-19-4							82H	
141	4-21-4	3-21-4						82H	
142	3-5-4							72E	
143	3-4-4	3-5-4						72E	
144	3-3-4	3-2-4						72E	
145	4-19-4							82H	
146	4-11-4							72E	
147	5-19-4							82H	
148	4-24-4	5-24-4	4-25-4	3-25-4	5-23-4			82H	
149	4-5-4							72E	
150	4-3-4	4-2-4						72E	
151	5-20-4							82H	
152	5-17-4	5-18-4						82H	
153	5-14-4	5-15-4						72E	
154	5-23-4							82H	
155	5-26-4							82H	
156	5-13-4	5-14-4						72E	
157	6-18-4	5-18-4						82H	
158	4-1-4	5-1-4						72E	
159	5-3-4							72E	
160	6-1-5							82G	
161	5-11-4	6-11-4						72E	
162	5-2-4							72E	
163	7-19-4							82H	
164	4-1-4 6-2-4	5-1-4 5-3-4	5-2-4	3-1-4	4-2-4	6-1-4	3-2-4	72E	
165	6-12-4							72E	
166	6-10-4	6-11-4						72E	
167	6-1-4							72E	
168	7-21-4	6-21-4						82H	
169	6-3-4	6-2-4	5-2-4					72E	
170	7-10-4	6-10-4						72E	
171	7-15-4	7-14-4						72E	82H
172	7-5-4	6-5-4						72E	

ESA	Alberta Township System (ATS)							National Topographic System (NTS)	
173	7-14-4							72E	
174	7-7-4							72E	
175	8-7-4	8-8-4	7-8-4	7-7-4				72E	
176	9-16-4							82H	
177	8-6-4	8-7-4	9-6-4	9-7-4				72E	
178	8-5-4 10-5-4	9-5-4	8-4-4	7-5-4	9-4-4	7-4-4	9-6-4	72E	
179	9-12-4							72E	
180	10-1-5							82G	
181	10-12-4							72E	
182	9-6-4	10-6-4	9-7-4	10-7-4				72E	
183	10-28-4	10-29-4	11-28-4	11-29-4	11-27-4	10-27-4		82H	
184	11-1-5	10-1-5						82G	
185	9-8-4	9-7-4	10-8-4	10-7-4				72E	
186	10-15-4	10-16-4	10-14-4	11-14-4				82H	72E
187	11-1-5							82G	
188	11-25-4							82H	
189	10-6-4							72E	
190	10-7-4							72E	
191	12-28-4	12-29-4	13-28-4	13-29-4	11-29-4	11-28-4		82I	82H
192	11-23-4							82H	
193	12-28-4	11-28-4						82H	
194	12-29-4	11-29-4						82H	
195	11-6-4	11-5-4						72E	
196	11-1-4	10-1-4	11-2-4					72E	
197	12-8-4							72E	
198	12-1-4	11-1-4						72E	72L
199	11-3-4	12-3-4						72E	
200	13-22-4							82I	
201	13-14-4	12-14-4						72L	
202	13-1-4	14-1-4	12-1-4	13-2-4	15-1-4			72L	
203	13-6-4							72L	
204	12-2-4	13-2-4						72L	72E
205	14-28-4							82I	
206	14-17-4							82I	

ESA	Alberta Township System (ATS)							National Topographic System (NTS)	
207	14-29-4	13-29-4						82I	
208	14-9-4	14-8-4	13-8-4	13-9-4				72L	
209	15-27-4							82I	
210	14-9-4	14-10-4						72L	
211	14-3-4							72L	
212	15-28-4	15-29-4						82I	
213	15-14-4							72L	
214	15-17-4							82I	
215	16-29-4							82I	
216	15-8-4	15-7-4						72L	
217	15-9-4	16-9-4	15-10-4					72L	
218	16-26-4							82I	
219	16-12-4							72L	
220	16-17-4	15-17-4	16-18-4					82I	
221	17-15-4	16-15-4	17-14-4	16-14-4	18-15-4	15-15-4	18-14-4	72L	82I
222	16-17-4	17-17-4						82I	
223	16-7-4	16-8-4	16-6-4					72L	
224	17-19-4							82I	
225	15-3-4	16-3-4	16-4-4	15-4-4				72L	
226	16-9-4	16-10-4						72L	
227	16-11-4	16-12-4	17-12-4	17-11-4				72L	
228	17-10-4	17-9-4						72L	
229	17-15-4	17-16-4	16-15-4					82I	
230	17-13-4							72L	
231	17-2-4	17-1-4						72L	
232	17-8-4							72L	
233	17-9-4	17-10-4						72L	
234	18-29-4							82I	
235	18-29-4	19-29-4						82I	
236	18-29-4							82I	
237	18-27-4	18-28-4	19-27-4	19-28-4				82I	
238	14-20-4 15-22-4	14-21-4 14-22-4	15-21-4 19-22-4	18-22-4 19-21-4	17-21-4 17-22-4	16-21-4 15-20-4	18-21-4 13-20-4	82I	
239	18-10-4							72L	
240	18-12-4							72L	

ESA	Alberta Township System (ATS)							National Topographic System (NTS)		
241	19-13-4							72L		
242	19-12-4	18-12-4						72L		
243	19-16-4	19-15-4						82I		
244	19-1-4	18-1-4						72L		
245	19-5-4	19-4-4						72L		
246	19-8-4	19-9-4						72L		
247	20-15-4							72L	82I	
248	19-1-4	18-1-4						72L		
249	20-8-4							72L		
250	19-6-4	19-7-4	20-7-4	20-6-4	19-5-4			72L		
251	21-8-4	21-7-4						72L		
252	21-8-4	21-9-4						72L		
253	22-18-4							82I		
254	22-27-4	23-26-4	23-27-4					82I		
255	21-3-4	22-3-4	21-2-4					72L		
256	22-17-4							82I		
257	23-17-4							82I		
258	32-10-4 23-13-4	35-4-4 25-5-4	28-13-4 32-9-4	48-13-4 34-4-4	43-23-4	28-14-4	43-22-4	72M 72L	83A	73E
259	23-13-4							72L		
260	23-24-4	24-24-4	23-25-4	22-23-4	23-23-4	22-24-4	24-25-4	82I	82P	
261	24-9-4	23-9-4						72M	72L	
262	25-17-4	26-17-4						82P		
263	26-26-4							82P		
264	26-17-4	25-17-4						82P		
265	25-3-4	24-3-4	25-4-4					72M		
266	27-26-4							82P		
267	26-9-4	26-10-4	27-9-4					72M		
268	28-28-4	27-28-4						82P		
269	28-14-4	29-14-4						72M		
270	29-16-4	29-15-4						82P		
271	29-18-4	30-18-4						82P		
272	30-28-4							82P		
273	29-10-4	29-11-4						72M		

ESA	Alberta Township System (ATS)							National Topographic System (NTS)		
274	32-15-4 34-17-4	33-16-4 31-14-4	34-16-4 33-15-4	32-16-4 34-18-4	33-17-4 33-18-4	32-14-4	31-15-4	82P	72M	
275	33-9-4 33-11-4	33-8-4 34-8-4	33-10-4	34-10-4	34-9-4	32-8-4	32-9-4	72M		
276	33-20-4							82P		
277	34-1-4							72M		
278	33-4-4	34-4-4	33-5-4					72M		
279	35-2-4	36-2-4	34-2-4	35-3-4	36-1-4	34-3-4	35-1-4	73D	72M	
280	36-7-4							73D		
281	35-14-4 33-14-4	34-14-4 33-15-4	34-15-4	36-15-4	36-14-4	35-15-4	37-15-4	72M 82P	73D	83A
282	37-9-4							73D		
283	36-6-4	36-5-4	37-6-4					73D		
284	37-7-4	37-8-4						73D		
285	37-6-4							73D		
286	15-5-4 15-7-4	15-6-4 16-4-4	15-4-4 14-3-4	14-5-4 16-5-4	14-4-4	14-6-4	14-7-4	72L		
287	19-3-4 18-3-4 21-5-4 19-5-4	20-3-4 20-1-4 17-3-4	18-4-4 20-4-4 19-1-4	20-2-4 21-3-4 17-4-4	21-1-4 22-1-4 18-5-4	19-2-4 21-4-4 21-2-4	19-4-4 20-5-4 18-2-4	72L		
288	23-5-4 22-3-4 23-14-4 23-3-4 25-15-4 26-17-4 23-15-4 21-3-4	22-5-4 22-7-4 24-15-4 23-2-4 24-5-4 24-14-4 21-14-4 21-13-4	21-6-4 22-14-4 22-8-4 22-2-4 20-5-4 20-10-4 20-12-4 21-8-4	22-9-4 23-1-4 23-6-4 21-12-4 23-8-4 26-16-4 24-1-4 25-14-4	23-7-4 21-10-4 22-13-4 21-9-4 24-4-4 25-16-4 22-1-4 24-6-4	22-4-4 23-4-4 21-4-4 22-10-4 21-11-4 21-7-4 27-17-4 26-18-4	22-6-4 21-5-4 22-12-4 20-6-4 20-11-4 24-7-4 22-15-4	72L	72M	82P
289	18-19-4 12-12-4 25-3-5 14-14-4 12-11-4 17-19-4 26-5-5 26-4-5 21-28-4 12-9-4 25-6-5 26-3-5	21-22-4 21-20-4 21-23-4 13-8-4 16-16-4 21-26-4 21-25-4 17-18-4 25-4-5 12-5-4 23-29-4 18-17-4	11-13-4 13-11-4 11-14-4 12-10-4 18-20-4 11-12-4 21-27-4 22-23-4 15-15-4 22-1-5 11-16-4	19-18-4 21-19-4 11-11-4 21-21-4 13-7-4 14-15-4 25-2-5 13-13-4 22-25-4 20-21-4 10-14-4	19-19-4 13-5-4 13-9-4 13-10-4 23-1-5 13-6-4 12-7-4 20-20-4 17-16-4 13-14-4 22-22-4	20-19-4 12-8-4 17-17-4 22-24-4 11-15-4 26-6-5 24-2-5 12-13-4 14-16-4 20-18-4 21-29-4	24-1-5 15-16-4 22-29-4 18-18-4 13-12-4 14-5-4 12-6-4 22-28-4 14-13-4 14-4-4 24-29-4	82I 82O 82P	72L 82J	72E 82H
290	28-19-4 27-20-4 29-19-4	27-18-4 29-21-4 27-19-4	28-18-4 28-17-4	29-20-4 28-20-4	27-21-4 27-22-4	30-21-4 31-21-4	27-17-4 29-17-4	82P		

ESA	Alberta Township System (ATS)							National Topographic System (NTS)	
291	8-22-4 9-28-4 9-21-4 7-27-4	7-28-4 9-26-4 8-26-4 10-22-4	10-24-4 9-25-4 10-23-4 10-27-4	8-27-4 8-28-4 10-21-4	9-27-4 10-25-4 9-29-4	9-22-4 9-24-4 10-28-4	9-23-4 8-21-4 8-23-4	82H	
292	16-5-4 17-3-4 15-7-4	17-5-4 15-6-4 17-2-4	17-6-4 18-7-4 17-8-4	17-4-4 16-3-4 16-7-4	16-6-4 18-6-4 18-4-4	16-4-4 18-5-4 16-2-4	17-7-4 15-5-4	72L	
293	13-5-4	14-5-4	13-4-4					72L	
294	11-19-4 10-16-4	10-17-4 12-16-4	10-21-4 11-18-4	11-16-4	10-20-4	10-18-4	10-19-4	82H	
295	11-16-4	11-15-4						82H	
296	6-4-4 5-4-4	7-4-4 5-2-4	6-3-4	5-3-4	7-3-4	7-5-4	6-5-4	72E	
297	5-8-4 5-9-4	4-7-4 3-9-4	5-7-4 4-6-4	3-8-4 3-6-4	4-8-4 6-7-4	3-7-4	6-8-4	72E	
298	1-19-4 2-15-4 1-20-4	2-19-4 2-21-4 1-14-4	2-20-4 2-17-4 2-18-4	2-16-4 2-13-4	3-20-4 3-19-4	1-18-4 1-15-4	2-14-4 3-21-4	82H	72E
299	1-12-4 3-6-4 1-7-4 4-6-4 3-8-4	2-8-4 2-4-4 1-10-4 2-12-4	2-9-4 1-5-4 2-11-4 1-6-4	2-5-4 1-3-4 3-5-4 2-13-4	2-7-4 1-9-4 1-11-4 3-10-4	2-10-4 1-4-4 1-13-4 1-2-4	1-8-4 2-6-4 3-7-4 3-4-4	72E	
300	5-6-4 4-7-4	5-7-4 6-7-4	5-5-4	4-6-4	6-6-4	4-5-4	6-5-4	72E	
301	9-24-4	6-25-4	8-25-4	7-25-4	8-24-4	9-23-4	7-24-4	82H	
302	1-23-4	1-22-4						82H	
303	16-14-4	15-14-4						72L	
304	4-4-4 3-4-4	4-3-4 6-4-4	5-4-4 2-2-4	3-3-4	5-5-4	4-5-4	2-3-4	72E	
305	21-11-4	21-12-4	21-10-4	20-11-4	20-12-4	20-10-4		72L	
306	9-27-4	9-28-4						82H	
307	33-19-4	34-19-4	33-18-4	34-18-4	33-20-4	34-20-4		82P	
308	23-1-5	22-1-5	22-29-4	23-2-5	23-29-4			82J	82I
309	3-22-4 2-21-4	2-22-4 4-22-4	3-23-4 1-21-4	2-23-4	1-23-4	1-22-4	3-21-4	82H	
310	1-4-4 3-2-4	1-7-4	2-3-4	2-2-4	1-6-4	3-3-4	1-3-4	72E	
311	1-6-4							72E	
312	1-6-4	1-5-4	2-6-4					72E	
313	28-17-4	28-16-4						82P	

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314	2-18-4 4-18-4	3-18-4	2-17-4	3-17-4	1-18-4	1-19-4	2-19-4	82H		
315	17-3-4	16-3-4	18-3-4	17-4-4	16-4-4			72L		
316	1-13-4	1-12-4	2-13-4					72E		
317	7-29-4	7-1-5	7-30-4	8-1-5	7-28-4			82H	82G	
318	20-11-4	21-12-4	21-10-4	21-11-4	20-12-4	22-12-4	20-10-4	72L		
319	23-1-4							72L		
320	7-27-4 41-24-4 2-26-4 13-29-4 42-25-4 39-11-4 35-1-5 40-2-4 43-4-4 3-29-4	6-27-4 3-27-4 56-18-4 53-10-4 6-1-5 16-1-5 7-26-4 46-22-4 41-4-4	15-29-4 35-20-4 3-26-4 55-5-4 3-28-4 14-30-4 13-30-4 51-11-4 14-29-4	52-12-4 47-8-4 1-26-4 51-10-4 42-10-4 38-24-4 37-18-4 55-4-4 52-11-4	52-10-4 46-12-4 6-28-4 44-5-4 40-4-4 37-3-4 50-27-4 35-24-4 58-19-4	40-5-4 35-23-4 57-17-4 44-4-4 34-20-4 53-19-4 41-19-4 57-19-4 44-1-4	45-12-4 42-24-4 53-13-4 47-27-4 8-27-4 2-28-4 2-29-4 44-2-4 50-22-4	82H 83A 82P 83B	73E 82I 82G	73D 83H 82J
321	14-2-5							82J		
322	15-2-5	16-2-5						82J		
323	20-2-5							82J		
324	20-1-5							82J		
325	20-2-5							82J		
326	23-2-5	23-1-5						82J	82O	
327	24-2-5	24-3-5						82O		
328	25-1-5							82O		
329	26-4-5	26-3-5						82O		
330	28-3-5							82O		
331	30-1-5	31-1-5						82O		
332	32-28-4							82P		
333	34-28-4							82P		
334	34-1-5							82O		
335	34-27-4							82P		
336	36-23-4	35-23-4	35-22-4	36-22-4				83A		
337	36-25-4	36-26-4	35-25-4					83A		
338	37-23-4							83A		
339	37-25-4	37-26-4	36-25-4	36-26-4				83A		
340	37-4-4	36-4-4	36-3-4	37-3-4	36-2-4	36-5-4	37-5-4	73D		
341	39-1-4							73D		

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342	39-11-4 38-12-4	39-12-4	40-13-4	39-13-4	39-10-4	40-11-4	40-10-4	73D	
343	40-23-4							83A	
344	40-23-4							83A	
345	39-5-4	39-6-4	40-5-4	39-4-4	40-4-4			73D	
346	40-14-4	40-15-4	40-13-4	40-16-4				83A	73D
347	39-3-4	40-3-4	39-4-4					73D	
348	40-7-4	40-6-4						73D	
349	41-12-4	40-12-4						73D	
350	40-6-4	40-5-4						73D	
351	41-17-4							83A	
352	41-14-4							73D	
353	41-14-4							73D	
354	41-20-4 39-21-4	40-21-4 39-22-4	41-21-4	40-20-4	40-22-4	41-19-4	40-19-4	83A	
355	41-16-4	41-17-4	40-16-4					83A	
356	42-26-4	42-25-4						83A	
357	42-18-4							83A	
358	42-20-4	42-19-4						83A	
359	42-26-4							83A	
360	41-9-4	42-9-4						73D	
361	42-11-4	42-12-4	41-11-4					73D	
362	40-9-4 39-8-4	41-9-4 38-9-4	41-10-4 39-10-4	40-10-4 40-8-4	39-9-4 38-8-4	42-10-4	42-9-4	73D	
363	42-17-4	43-17-4						83A	
364	43-24-4							83A	
365	43-22-4							83A	
366	43-21-4	43-22-4						83A	
367	43-23-4							83A	
368	43-9-4	42-9-4						73D	
369	43-22-4							83A	
370	44-27-4							83A	
371	44-19-4	43-18-4	44-18-4					83A	
372	43-9-4							73D	
373	43-5-4	43-4-4	44-5-4					73D	
374	45-23-4							83A	

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375	45-19-4	44-19-4						83A	
376	44-10-4							73D	
377	44-1-4	44-2-4						73D	
378	44-7-4 45-7-4	43-7-4 42-8-4	43-6-4 44-8-4	42-7-4 42-6-4	43-8-4	44-6-4	43-5-4	73D	
379	45-22-4	46-22-4	45-23-4					83A	
380	45-15-4	44-15-4	45-14-4					83A	
381	45-8-4	45-7-4						73D	
382	45-11-4							73D	
383	46-25-4	45-25-4	46-26-4	45-26-4				83A	
384	46-20-4	45-20-4	46-21-4	45-21-4				83A	
385	45-2-4	45-1-4	45-3-4					73D	
386	45-5-4	45-6-4	46-5-4	46-6-4				73D	
387	45-7-4	46-7-4	46-6-4	45-6-4				73D	
388	47-7-4	46-7-4						73E	73D
389	47-11-4	47-12-4						73E	
390	47-23-4	48-23-4	46-23-4					83H	83A
391	47-5-4 46-3-4	47-4-4	46-4-4	47-6-4	48-5-4	46-6-4	46-5-4	73E	73D
392	48-19-4							83H	
393	47-2-4	48-2-4	47-1-4					73E	
394	48-4-4	48-3-4						73E	
395	49-24-4							83H	
396	48-1-4							73E	
397	49-24-4							83H	
398	49-5-4	48-5-4	49-6-4	48-6-4				73E	
399	49-4-4	49-3-4	48-4-4					73E	
400	50-11-4	50-12-4						73E	
401	50-12-4	50-11-4						73E	
402	51-26-4							83H	
403	50-4-4	50-3-4						73E	
404	52-13-4							73E	
405	52-10-4	52-9-4						73E	
406	53-22-4							83H	
407	54-5-4							73E	

ESA	Alberta Township System (ATS)							National Topographic System (NTS)		
408	54-13-4	54-14-4	55-13-4	55-14-4	54-12-4			73E		
409	55-6-4	54-6-4						73E		
410	56-16-4	56-15-4	55-15-4	57-16-4				83H		
411	71-5-6							83M		
412	73-4-6							83M		
413	81-26-5	81-1-6						84C	84D	
414	38-5-4	38-6-4	37-4-4	37-5-4	38-4-4	37-6-4		73D		
415	38-21-4 36-21-4	37-21-4 39-19-4	37-20-4	38-20-4	39-21-4	39-20-4	36-20-4	83A		
416	37-22-4 38-25-4 37-21-4 35-1-5 31-21-4	38-22-4 34-21-4 39-27-4 34-22-4 38-21-4	38-24-4 38-26-4 33-22-4 39-22-4 35-2-5	35-21-4 38-27-4 36-1-5 35-22-4	36-22-4 39-26-4 36-2-5 33-21-4	38-23-4 37-28-4 32-21-4 39-23-4	36-21-4 36-28-4 38-28-4 32-22-4	83A	82P	83B
417	43-3-4	42-3-4	43-4-4	43-2-4	44-3-4	42-4-4	44-4-4	73D		
418	34-19-4							82P		
419	42-1-4	43-1-4	41-1-4	41-2-4	42-2-4			73D		
420	32-21-4 37-22-4	31-21-4 36-22-4	35-21-4 34-21-4	33-22-4 33-21-4	30-21-4	34-22-4	36-21-4	82P	83A	
421	34-21-4	33-22-4	34-22-4					82P		
422	53-26-4	53-25-4						83H		
423	42-5-4	41-5-4	42-4-4					73D		
424	41-1-4	42-1-4						73D		
425	51-18-4 50-17-4	52-18-4	51-17-4	52-17-4	50-18-4	53-17-4	53-18-4	83H		
426	25-3-5	25-4-5	26-3-5					82O		
427	33-3-5							82O		
428	36-6-5	36-5-5						83B		
429	42-1-5							83B		
430	43-2-5							83B		
431	43-2-5							83B		
432	44-1-5							83B		
433	44-2-5							83B		
434	45-1-5							83B		
435	46-6-5	46-5-5	47-6-5					83B	83G	
436	47-1-5	46-1-5	46-28-4	47-2-5	47-28-4	47-27-4		83G 83B	83H	83A
437	48-27-4							83H		

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438	51-6-5							83G	
439	51-20-4							83H	
440	52-2-5							83G	
441	53-6-5	54-5-5	52-7-5	53-7-5	53-5-5	52-6-5	54-6-5	83G	
442	53-5-5	52-4-5	53-4-5	52-5-5	53-3-5	52-3-5		83G	
443	53-1-5	53-2-5						83G	
444	53-7-5	53-8-5						83G	
445	54-1-5							83G	
446	53-12-4							73E	
447	54-28-4	55-27-4	54-27-4					83H	83G
448	54-10-5	53-9-5	54-9-5	55-10-5	53-10-5	54-11-5		83G	
449	54-1-5	55-1-5	54-2-5					83G	
450	54-3-5	54-4-5	55-3-5	55-4-5	54-2-5			83G	
451	55-1-5							83G	
452	55-4-5							83G	
453	55-5-5	56-5-5						83G	
454	55-21-4							83H	
455	56-21-4							83H	
456	56-6-5	55-6-5						83G	
457	56-4-5	55-4-5	57-4-5					83G	
458	56-13-4							73E	
459	56-8-4							73E	
460	57-3-5	57-4-5	56-3-5					83G	
461	56-10-4							73E	
462	56-1-4							73E	
463	57-3-5	57-2-5						83G	
464	57-1-5							83G	
465	58-22-4	58-23-4	57-22-4	57-23-4				83H	83I
466	58-6-5							83J	
467	57-10-4	57-9-4	58-9-4					73E	
468	58-6-5							83J	
469	57-3-4	56-3-4	57-2-4	58-3-4	56-2-4			73E	
470	58-13-4							73L	
471	58-13-4							73L	
472	58-15-4	58-14-4						83I	

ESA	Alberta Township System (ATS)				National Topographic System (NTS)	
473	59-12-4				73L	
474	59-5-5	59-6-5			83J	
475	58-6-4	59-6-4	59-5-4		73L	
476	58-3-4				73L	
477	59-8-5				83J	
478	59-10-4				73L	
479	59-7-4				73L	
480	60-1-5				83J	
481	59-13-4	60-13-4			73L	
482	60-8-4				73L	
483	60-11-4				73L	
484	59-3-4	59-4-4	60-3-4		73L	
485	60-12-4				73L	
486	60-24-4	59-24-4	60-25-4	61-24-4	83I	
487	60-15-4				83I	
488	59-5-4	60-5-4	59-6-4	60-6-4	73L	
489	61-12-4				73L	
490	60-3-4				73L	
491	61-12-4	60-12-4			73L	
492	61-17-4	61-18-4			83I	
493	61-15-4				83I	
494	61-27-4	62-27-4			83I	83J
495	61-17-4				83I	
496	61-5-4	61-4-4	61-6-4		73L	
497	61-8-4				73L	
498	61-5-4				73L	
499	61-6-4	61-7-4	60-7-4	60-6-4	73L	
500	61-12-4				73L	
501	62-18-4				83I	
502	62-13-4				73L	
503	62-6-4	62-7-4	61-7-4	61-6-4	73L	
504	63-22-4				83I	
505	63-20-5				83K	
506	63-7-4				73L	
507	63-23-4				83I	

ESA	Alberta Township System (ATS)							National Topographic System (NTS)
508	64-6-5	63-6-5						83J
509	64-26-4							83I
510	63-4-4							73L
511	63-6-4							73L
512	63-11-4	64-11-4						73L
513	64-14-4							83I
514	63-6-4							73L
515	63-4-4	63-5-4						73L
516	63-3-4							73L
517	64-8-4							73L
518	64-4-4							73L
519	64-6-4	63-6-4	64-7-4	63-7-4				73L
520	65-18-4							83I
521	64-3-4							73L
522	65-2-5							83J
523	65-16-4							83I
524	65-4-4							73L
525	66-22-4	66-23-4						83I
526	65-11-4							73L
527	66-22-4							83I
528	65-5-4	65-6-4						73L
529	65-21-5	64-21-5	66-21-5	66-22-5				83K
530	65-3-4							73L
531	66-17-4	66-18-4	65-17-4	65-18-4				83I
532	66-5-5							83J
533	65-4-4	66-4-4						73L
534	66-24-4	67-24-4						83I
535	65-25-5	66-25-5	66-26-5	64-25-5	65-26-5	67-25-5		83K
536	66-13-4	66-12-4	65-12-4					73L
537	67-14-4							83I
538	67-21-4							83I
539	66-7-4 67-7-4	66-8-4	65-7-4	66-6-4	65-8-4	65-6-4	67-6-4	73L
540	67-24-4	68-24-4	67-23-4					83I
541	68-21-4	67-21-4	68-20-4	67-20-4				83I

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542	71-2-6 66-4-6 67-1-6 72-2-6 64-4-6	68-26-5 71-1-6 69-26-5 68-27-5	69-4-6 70-3-6 68-1-6 67-26-5	69-1-6 69-3-6 71-3-6 70-27-5	70-1-6 70-2-6 69-27-5 67-2-6	67-4-6 67-25-5 68-5-6 71-26-5	65-4-6 68-4-6 65-3-6 70-4-6	83L 83N	83M	83K
543	68-24-4	69-24-4						83I		
544	68-4-5	69-4-5	68-5-5					83J		
545	69-14-4							83I		
546	69-24-4							83I		
547	68-14-4 68-16-4	68-15-4 67-12-4	67-13-4 69-14-4	68-13-4 69-16-4	67-14-4 66-14-4	69-15-4	67-15-4	83I	73L	

ESA	Alberta Township System (ATS)							National Topographic System (NTS)		
548	105-8-6	126-1-6	118-23-5	103-7-6	105-7-6	104-8-6	124-23-5	84N	84A	84L
	105-9-6	104-9-6	106-7-6	125-23-5	104-10-6	93-8-5	101-8-6	73M	84M	84E
	78-20-4	88-16-4	120-22-5	93-19-4	124-22-5	82-24-4	105-12-6	84H	84G	84J
	106-11-6	106-8-6	118-11-6	77-2-4	119-11-6	125-1-6	118-9-6	74D	83P	84B
	126-23-5	103-12-6	106-3-5	120-11-6	88-20-4	94-16-4	106-12-6	74E	84K	73L
	84-13-4	93-22-4	106-10-6	119-23-5	77-1-4	78-2-4	106-2-5	84O	84C	
	75-21-4	104-7-6	124-1-6	83-15-4	123-23-5	102-9-6	121-22-5			
	105-10-6	120-20-5	95-3-5	83-3-5	121-1-6	122-1-6	121-19-5			
	85-19-4	93-4-4	88-3-4	88-21-4	79-1-4	103-8-6	124-2-6			
	74-21-4	123-22-5	123-1-6	76-1-4	78-1-4	95-23-4	102-7-6			
	102-8-6	72-8-4	121-21-5	118-10-6	105-11-6	81-23-4	85-6-5			
	91-19-4	116-17-5	70-2-4	81-24-4	97-8-5	80-10-4	79-2-4			
	91-21-4	87-19-4	103-11-6	97-7-5	89-21-4	121-20-5	122-23-5			
	80-7-4	84-14-4	95-16-4	104-11-6	91-20-4	76-3-4	101-7-6			
	83-13-4	119-22-5	111-11-5	83-12-4	85-15-4	87-20-4	77-3-4			
	79-20-4	113-3-5	84-18-4	69-2-4	103-5-6	83-23-4	88-19-4			
	106-1-5	75-3-4	83-8-4	122-20-5	118-24-5	90-21-4	94-17-4			
	87-2-4	96-3-5	106-5-5	103-21-4	89-20-4	83-2-5	88-15-4			
	94-4-4	125-18-5	73-17-4	104-6-6	102-12-6	119-9-6	125-22-5			
	84-8-4	82-23-4	123-2-6	103-22-4	84-3-5	117-1-6	119-8-6			
	95-20-4	115-15-5	107-5-5	115-17-5	106-9-6	93-20-4	120-8-6			
	116-12-5	111-13-5	85-14-4	74-3-4	73-1-4	91-24-4	85-20-4			
	85-10-4	103-9-6	92-19-4	73-7-4	82-16-4	71-2-4	75-2-4			
	103-6-6	91-25-4	120-21-5	72-2-4	124-19-5	80-11-4	69-5-4			
	82-8-4	84-2-5	97-3-5	84-19-4	86-6-5	100-8-6	86-20-4			
	95-19-4	79-7-4	113-8-5	96-7-5	78-21-4	122-24-5	120-19-5			
	83-4-5	96-2-5	94-23-4	126-18-5	119-18-5	102-6-6	74-2-4			
	112-13-5	94-8-5	117-9-6	72-7-4	112-8-5	86-2-4	93-9-5			
	84-15-4	112-4-5	113-17-5	72-1-4	97-2-5	88-14-4	92-24-4			
	90-20-4	103-10-6	116-11-5	105-6-6	112-3-5	106-4-5	121-12-6			
	120-23-5	124-18-5	87-16-4	96-1-5	102-22-4	104-12-6	98-8-5			
	102-5-6	112-15-5	76-2-4	112-7-5	107-2-5	83-24-4	95-22-4			
	70-1-4	69-1-4	73-2-4	80-2-4	83-14-4	107-3-5	113-11-5			
	85-21-4	92-4-4	126-2-6	75-20-4	124-10-5	95-14-4	92-21-4			
	118-22-5	111-12-5	95-15-4	72-9-4	122-22-5	92-18-4	117-24-5			
	93-18-4	89-15-4	106-6-6	74-1-4	88-25-5	84-23-4	96-2-6			
	84-17-4	92-8-5	97-1-5	125-2-6	123-10-5	91-23-4	68-5-4			
	110-11-5	107-11-6	85-5-5	81-10-4	124-21-5	119-20-5	75-1-4			
	119-19-5	84-20-4	85-13-4	94-20-4	84-12-4	86-14-4	118-8-6			
	92-2-5	122-21-5	117-11-6	70-8-4	120-18-5	120-12-6	92-14-4			
	119-15-5	88-24-5	93-21-4	71-3-4	113-2-5	102-21-4	94-3-5			
	85-18-4	92-23-4	100-24-4	93-3-4	83-11-4	95-2-5	82-15-4			
	89-16-4	92-7-4	94-22-4	84-6-5	101-9-6	122-2-6	93-5-4			
	126-3-6	94-19-4	98-4-4	74-14-4	117-23-5	117-10-6	68-6-4			
	122-19-5	84-9-4	73-8-4	74-17-4	93-7-5	96-1-6	86-5-5			
	69-6-4	88-6-5	99-24-4	122-7-6	94-21-4	90-24-5	121-24-5			
	102-11-6	71-1-4	75-18-4	107-4-5	115-1-5	115-2-5	80-1-4			
	80-8-4	112-14-5	81-6-5	94-9-5	107-10-6	87-3-4	111-7-5			
	92-20-4	101-20-4	81-4-5	110-12-5	83-17-4	123-5-6	100-23-4			
	81-11-4	73-6-4	90-19-4	107-12-6	82-12-4	100-7-6	84-10-4			
	73-21-4	95-21-4	98-2-5	122-5-6	83-9-4	123-4-6	88-2-4			
	96-15-4	85-9-4	81-2-4	82-4-5	102-20-4	82-17-4	95-17-4			
	70-5-4	120-9-6	87-23-4	90-13-4	85-16-4	69-8-4	100-1-5			
	89-23-4	121-23-5	74-18-4	118-16-5	122-4-6	101-5-5	70-6-4			
	92-25-4	89-19-4	94-7-5	123-18-5	84-4-5	123-19-5	99-25-4			
	88-23-5	125-19-5	102-13-6	86-3-4						

ESA	Alberta Township System (ATS)							National Topographic System (NTS)	
549	70-21-5							83N	
550	70-27-4							83P	
551	70-10-4							73M	
552	70-25-5	70-24-5						83N	
553	68-8-4	69-7-4	69-8-4	70-8-4	70-7-4	67-8-4		73L	73M
554	70-6-4	70-7-4						73M	
555	71-18-4							83P	
556	72-8-6 72-9-6 71-6-6 71-5-6	72-7-6 74-9-6 72-5-6	72-6-6 74-8-6 74-10-6	73-7-6 71-7-6 72-10-6	73-9-6 71-8-6 71-9-6	73-8-6 73-10-6 73-5-6	73-6-6 74-7-6 74-6-6	83M	
557	71-19-5	70-19-5	71-18-5					83N	
558	71-13-4	71-14-4	72-13-4					73M	83P
559	72-4-4 73-5-4	71-5-4 70-4-4	71-4-4 70-5-4	72-5-4 72-7-4	71-6-4 71-7-4	72-6-4	73-4-4	73M	
560	71-10-6							83M	
561	67-1-4	68-1-4	69-1-4	70-1-4	66-1-4	67-2-4	71-1-4	73L	73M
562	72-3-5	72-4-5	72-2-5	71-2-5	71-3-5			83O	
563	72-1-5	72-2-5	73-1-5	73-2-5				83O	
564	73-3-5							83O	
565	72-3-4	73-3-4	71-3-4					73M	
566	73-3-5	73-4-5	74-3-5					83O	
567	73-14-4	73-13-4	72-13-4	74-14-4	74-13-4			83P	73M
568	74-11-4							73M	
569	74-19-5	74-18-5						83N	
570	75-17-5	74-18-5	75-18-5	74-17-5				83N	
571	74-9-4	73-9-4						73M	
572	74-25-5							83N	
573	75-22-4							83P	
574	75-8-5 74-9-5 73-7-5 73-12-5 73-9-5 72-5-5	75-7-5 73-6-5 75-11-5 73-5-5 76-8-5	74-11-5 74-10-5 75-10-5 74-5-5 76-6-5	74-12-5 75-9-5 74-14-5 73-8-5 72-6-5	74-8-5 75-12-5 74-6-5 75-5-5 76-7-5	74-7-5 75-13-5 75-14-5 73-13-5 76-10-5	74-13-5 73-11-5 75-6-5 73-10-5 76-9-5	83O	83N
575	75-12-4	74-12-4						73M	
576	74-4-4							73M	
577	74-11-6							83M	

ESA	Alberta Township System (ATS)							National Topographic System (NTS)	
578	74-4-4							73M	
579	74-7-4	74-6-4	75-6-4	74-8-4	75-7-4	73-8-4		73M	
580	74-12-6							83M	
581	75-15-5	75-14-5	76-14-5					83N	
582	75-21-5	74-20-5	74-21-5	76-22-5	75-22-5			83N	
583	75-4-4							73M	
584	77-24-5 75-2-6 75-3-6	76-24-5 76-2-6 76-22-5	76-25-5 72-2-6 75-26-5	76-26-5 77-23-5	76-23-5 75-1-6	74-2-6 76-1-6	73-2-6 75-25-5	83N	83M
585	76-6-4	76-7-4	77-6-4	76-5-4				73M	
586	79-10-5 78-10-5 78-8-5	79-9-5 79-11-5 80-7-5	80-10-5 79-8-5 77-11-5	80-11-5 78-11-5 81-11-5	80-9-5 80-12-5	80-8-5 79-12-5	78-9-5 81-10-5	83O	
587	78-2-5	79-2-5						83O	
588	78-3-6	78-4-6						83M	
589	79-21-5							83N	
590	79-10-4	79-11-4						73M	
591	80-19-5	79-19-5	80-18-5	80-20-5	79-18-5	79-20-5		83N	
592	80-25-4							83P	
593	80-13-4							73M	
594	78-6-5 78-4-5 77-7-5 81-5-5	79-6-5 77-6-5 81-7-5 81-3-5	79-7-5 80-5-5 78-3-5	79-4-5 78-5-5 80-7-5	78-7-5 79-3-5 77-5-5	80-6-5 79-5-5 81-6-5	80-4-5 80-3-5 81-4-5	83O	84B
595	86-1-4 81-3-4 83-3-4 82-4-4	83-2-4 81-4-4 84-3-4 86-4-4	85-1-4 83-1-4 80-2-4 85-4-4	82-3-4 82-1-4 85-2-4 80-4-4	82-2-4 84-2-4 80-1-4 86-2-4	84-1-4 81-2-4 86-3-4	81-1-4 85-3-4 87-1-4	74D	73M
596	82-19-4	82-20-4						84A	
597	82-12-4							74D	
598	83-13-4	83-14-4						84A	
599	83-24-4	84-24-4						84A	
600	83-24-5	84-24-5	83-25-5	84-23-5	84-25-			84C	
601	85-15-4	85-16-4	84-15-4	84-16-4				84A	
602	84-25-5							84C	
603	84-6-6							84D	
604	84-7-4							74D	
605	84-4-4	84-3-4						74D	

ESA	Alberta Township System (ATS)							National Topographic System (NTS)	
606	85-24-4	84-24-4						84A	
607	85-9-4							74D	
608	87-4-5							84B	
609	88-22-5							84C	
610	89-24-5	88-24-5	90-24-5	88-25-5	89-25-5	89-23-5	90-25-5	84C	
611	88-1-4							74D	
612	89-25-5	88-25-5						84C	
613	90-15-5	89-15-5						84C	
614	89-10-6	88-10-6	88-9-6	89-9-6				84D	
615	90-2-5							84B	
616	90-16-5	91-16-5						84C	
617	90-1-6	90-25-5	91-1-6	90-26-5				84D	84C
618	91-7-4	90-7-4						74D	
619	88-23-4 91-2-5 88-24-4	89-23-4 92-2-5 92-1-5	91-1-5 91-3-5 91-23-4	87-23-4 91-24-4	90-23-4 91-25-4	90-24-4 92-3-5	90-25-4 87-24-4	84A	84B
620	91-25-5	91-24-5	91-1-6	91-23-5	92-1-6			84C	84D
621	94-14-4	94-15-4	93-15-4	94-13-4	93-14-4	95-13-4	95-14-4	84H	
622	93-4-5	94-5-5	93-5-5	92-4-5				84G	
623	92-6-4	93-7-4	92-7-4	93-6-4	92-5-4	93-5-4	93-8-4	74E	74D
624	94-10-4							74E	
625	94-12-4							74E	
626	95-17-4							84H	
627	94-11-4	95-11-4	93-11-4	93-12-4	94-12-4			74E	
628	95-7-4							74E	
629	95-7-4	96-7-4						74E	
630	95-8-4	95-9-4	96-8-4					74E	
631	96-10-4							74E	
632	96-15-4							84H	
633	97-7-4							74E	
634	98-15-5	97-15-5						84F	
635	98-10-4							74E	
636	98-10-5							84G	
637	98-15-5	98-16-5						84F	
638	98-9-4	99-9-4						74E	

ESA	Alberta Township System (ATS)							National Topographic System (NTS)		
639	99-24-4	99-23-4	99-22-4	99-25-4	98-24-			84H		
640	97-4-5 98-5-5 98-6-5 96-6-5	98-4-5 98-2-5 99-6-5 100-3-5	98-3-5 100-2-5 97-3-5 100-4-5	99-2-5 96-5-5 100-1-5 98-8-5	99-3-5 98-7-5 98-1-5 100-5-5	99-4-5 96-4-5 99-5-5 97-6-5	97-5-5 99-1-5 99-7-5	84G		
641	101-5-5	100-4-5	101-4-5					84G		
642	101-10-5	100-10-5	100-11-5	101-11-5				84G		
643	99-9-5	101-9-5	100-9-5	98-10-5	102-9-5	98-9-5	97-9-5	84G		
644	102-1-6	103-2-6	103-1-6	102-2-6				84E		
645	103-14-5							84F		
646	101-5-6 98-6-6	99-6-6 100-6-6	102-4-6 103-3-6	102-5-6 99-5-6	98-7-6 99-7-6	100-5-6 101-4-6	103-4-6	84E		
647	103-24-5	103-25-5	104-1-6	104-25-5	104-24-5	103-1-6		84F 84K	84L	84E
648	105-9-5 103-8-5	103-9-5	104-9-5	106-9-5	107-9-5	102-9-5	107-8-5	84J	84G	
649	107-9-5							84J		
650	107-2-6	108-2-6	108-3-6					84L		
651	108-7-4							74L		
652	108-2-4	108-1-4						74L		
653	109-2-6							84L		
654	110-2-6							84L		
655	111-3-6							84L		
656	113-20-5	112-20-5						84K		
657	112-12-6	112-11-6						84L		
658	112-10-6							84L		
659	111-2-4 112-1-4	110-3-4 109-2-4	110-2-4 113-2-4	112-2-4 111-3-4	111-1-4 113-1-4	109-3-4	110-1-4	74L		
660	112-3-6	113-3-6	111-3-6					84L		
661	113-2-4	113-3-4	112-3-4	112-2-4				74L		
662	113-4-6	114-4-6						84L		
663	114-2-6							84L		
664	114-3-6	114-4-6	113-3-6	113-4-6				84L		
665	113-11-6	113-12-6						84L		
666	114-2-4	114-1-4	113-2-4					74L		
667	114-1-6	115-24-5	114-24-5	115-23-5	113-2-6	114-2-6	113-1-6	84L	84K	
668	115-3-4							74L		

ESA	Alberta Township System (ATS)	National Topographic System (NTS)
669	116-2-6 116-3-6	84M
670	118-21-5	84N
671	121-3-6 121-2-6 122-3-6 123-4-6 124-4-6 124-3-6 120-2-6 120-3-6 123-3-6 122-4-6 122-2-6 119-4-6 119-3-6 120-4-6 121-1-6 121-4-6 120-1-6	84M
672	126-8-6 123-11-6 123-8-6 123-7-6 124-11-6 125-9-6 123-9-6 124-7-6 125-6-6 126-7-6 124-10-6 126-6-6 123-10-6 126-11-6 124-9-6 124-8-6 125-11-6 126-9-6 125-7-6 125-5-6 125-8-6 122-9-6 123-6-6 122-8-6 125-10-6 126-5-6 122-11-6 122-7-6 126-4-6 121-8-6 122-10-6 123-12-6 124-12-6 125-12-6 122-12-6 125-4-6 126-10-6 126-12-6 121-12-6 123-5-6 124-5-6 124-6-6 121-7-6 121-11-6 122-6-6 125-3-6 121-9-6 126-3-6 124-4-6 121-10-6	84M
673	125-3-6 126-3-6	84M
674	125-21-5 126-22-5 126-21-5 125-22-5 126-20-5 126-23-5 125-20-5 124-21-5 125-23-5	84N
675	126-11-4 126-10-4 125-11-4 126-12-4	74M
676	111-6-4 112-7-4 112-6-4 113-7-4 113-6-4 114-7-4 109-8-4 110-6-4 110-7-4 109-7-4 111-7-4 112-8-4 109-9-4 111-5-4 114-6-4 113-8-4 115-8-4 112-5-4 113-5-4 115-7-4 114-8-4 110-8-4 109-6-4 110-5-4 108-8-4 109-10-4 115-9-4 111-8-4 108-10-4	74L 74M
677	96-1-4	74E
678	125-10-4 123-9-4 118-9-4 124-9-4 121-9-4 122-9-4 116-9-4 117-9-4 125-9-4 119-9-4 126-10-4 119-8-4 120-9-4 122-8-4 115-9-4 123-8-4 117-8-4 118-8-4 124-10-4	74M
679	97-8-4 97-9-4 97-7-4 97-10-4 98-7-4 98-8-4 96-9-4 98-9-4 96-10-4 96-8-4 96-7-4	74E
680	78-21-4 79-21-4 78-22-4 79-22-4	83P
681	98-18-5 95-19-5 96-19-5 97-18-5 96-18-5 97-19-5 95-18-5 98-17-5 94-19-5 99-18-5 98-19-5 94-20-5	84F
682	108-5-5 108-9-5 108-6-5 110-3-5 109-11-5 109-4-5 108-7-5 108-10-5 111-1-5 111-2-5 108-8-5 107-6-5 108-11-5 104-7-5 106-6-5 109-12-5 105-6-5 110-2-5 105-7-5 109-10-5 110-4-5 108-12-5 109-5-5 107-8-5 108-4-5 106-7-5 107-7-5 107-5-5 109-9-5 109-3-5	84J
683	100-19-5 99-19-5 99-18-5 100-18-5 101-19-5	84F

ESA	Alberta Township System (ATS)							National Topographic System (NTS)		
684	101-19-5 91-21-5 86-20-5 101-18-5 80-25-5 81-24-5 92-22-5 83-9-6 92-20-5 79-3-6 95-21-5 83-6-6 84-22-5 99-16-5	102-19-5 90-21-5 94-20-5 82-23-5 103-20-5 83-12-6 80-3-6 83-21-5 86-22-5 84-11-6 97-20-5 102-20-5 82-24-5 91-20-5	98-19-5 100-19-5 84-21-5 101-20-5 100-17-5 93-21-5 82-13-6 89-20-5 80-1-6 86-23-5 91-23-5 84-6-6 98-18-5 81-22-5	99-19-5 88-20-5 99-17-5 79-23-5 100-18-5 80-5-6 99-18-5 92-21-5 80-26-5 81-25-5 80-6-6 94-22-5 77-24-5 82-11-6	89-21-5 83-11-6 97-19-5 81-6-6 103-19-5 82-6-6 78-24-5 95-19-5 88-21-5 82-12-6 80-23-5 81-23-5 86-21-5	84-8-6 84-7-6 96-20-5 80-4-6 84-9-6 98-20-5 80-2-6 83-22-5 82-22-5 104-19-5 78-23-5 92-23-5 79-4-6	87-20-5 93-20-5 85-21-5 94-21-5 93-22-5 83-10-6 87-21-5 95-20-5 83-7-6 85-20-5 100-20-5 83-13-6 82-7-6	84F 83M	84C 83N	84D 84K
685	71-4-6 71-6-6	70-5-6	70-4-6	70-6-6	71-3-6	71-5-6	70-3-6	83M		
686	68-11-6 67-9-6 67-12-6 67-10-6	67-11-6 69-11-6 69-9-6	68-12-6 70-7-6 66-9-6	70-9-6 67-13-6 66-13-6	69-10-6 70-8-6 71-10-6	66-11-6 70-10-6 65-11-6	68-10-6 71-9-6 70-6-6	83L	83M	
687	65-3-5							83J		
688	89-18-4	88-18-4	88-19-4	89-19-4				84A		
689	107-17-5 106-16-5 104-19-5 107-14-5 106-20-5 109-15-5	106-18-5 105-17-5 105-20-5 104-16-5 109-13-5	105-19-5 108-17-5 104-20-5 104-15-5 104-17-5	108-16-5 105-18-5 107-18-5 106-15-5 109-14-5	106-17-5 108-14-5 106-19-5 108-18-5 109-16-5	108-15-5 107-15-5 108-13-5 104-18-5 109-12-5	107-16-5 105-16-5 105-15-5 108-12-5 109-17-5	84K	84J	
690	50-1-5 52-25-4 58-15-4 50-27-4 55-10-4 58-19-4 58-18-4 51-2-5 50-28-4 54-1-4 55-3-4 49-6-5 59-19-4 56-22-4	51-3-5 40-7-5 56-21-4 58-17-4 51-25-4 40-12-5 44-8-5 55-11-4 47-9-5 46-10-5 44-9-5 54-22-4 56-10-4 57-18-4	39-8-5 55-22-4 57-20-4 43-8-5 57-13-4 39-10-5 40-11-5 50-26-4 52-24-4 50-3-5 41-8-5 47-7-5 59-16-4	56-11-4 54-2-4 46-11-5 55-8-4 39-7-5 56-12-4 55-9-4 58-20-4 45-10-5 53-1-4 39-11-5 59-15-4 55-7-4	56-20-4 57-14-4 56-6-4 56-7-4 42-8-5 55-4-4 47-8-5 53-24-4 51-26-4 48-7-5 49-7-5 51-1-5 56-8-4	45-9-5 50-4-5 50-5-5 50-6-5 40-13-5 54-3-4 41-7-5 55-12-4 38-8-5 56-4-4 40-9-5 55-21-4 45-11-5	56-5-4 53-23-4 58-16-4 54-23-4 46-12-5 46-9-5 39-9-5 50-2-5 57-12-4 57-15-4 45-8-5 57-17-4 50-7-5	83B 83G	73E 83I	83H
691	77-19-4	78-19-4	77-18-4	78-18-4				83P		

ESA	Alberta Township System (ATS)							National Topographic System (NTS)		
692	106-7-4	107-8-4	100-6-4	104-11-4	107-7-4	94-2-4	108-6-4	74E	74L	84A
	101-7-4	101-6-4	107-9-4	103-6-4	98-6-4	96-2-4	104-6-4	83P	74D	83I
	101-5-4	99-4-4	79-17-4	101-8-4	99-6-4	81-18-4	104-8-4	83J	83O	
	106-8-4	104-9-4	102-6-4	87-14-4	103-10-4	86-16-4	85-17-4			
	102-4-4	103-8-4	87-12-4	86-17-4	102-10-4	104-10-4	87-11-4			
	103-9-4	102-8-4	79-16-4	105-6-4	86-15-4	102-5-4	99-5-4			
	86-11-4	109-5-4	99-7-4	87-9-4	86-10-4	81-17-4	78-17-4			
	108-8-4	87-13-4	101-10-4	82-18-4	66-2-5	108-9-4	71-1-5			
	86-14-4	87-10-4	100-7-4	88-10-4	102-9-4	97-3-4	93-10-4			
	98-5-4	80-16-4	92-9-4	103-11-4	84-16-4	80-18-4	100-5-4			
	103-7-4	100-9-4	96-3-4	85-16-4	101-9-4	107-6-4	77-18-4			
	87-15-4	75-18-4	97-6-4	108-7-4	110-5-4	106-6-4	96-1-4			
	83-16-4	110-4-4	98-10-4	80-17-4	82-17-4	92-10-4	76-18-4			
	89-9-4	100-8-4	108-5-4	70-1-5	104-12-4	74-18-4	95-3-4			
	96-11-4	105-7-4	73-18-4	88-14-4	71-24-4	70-19-4	106-9-4			
	67-2-5	65-2-5	71-26-4	97-5-4	98-7-4	69-23-4	74-19-4			
	90-9-4	109-6-4	95-11-4	68-21-4	72-25-4	87-17-4	91-9-4			
	67-23-4	88-7-4	72-24-4	67-22-4	108-10-4	100-4-4	68-23-4			
	88-11-4	99-10-4	68-2-5	87-6-4	85-5-4	82-19-4	71-19-4			
	96-4-4	75-19-4	69-2-5	70-24-4	97-11-4	86-5-4	66-22-4			
	85-4-4	81-16-4	72-19-4	69-19-4	66-23-4	70-18-4	86-12-4			
	87-7-4	81-19-4	85-11-4	88-15-4	70-23-4	94-1-4	82-16-4			
	89-10-4	69-20-4	86-9-4	87-16-4	84-17-4	97-4-4	102-7-4			
	97-10-4	109-4-4	94-11-4	66-3-5	78-15-4	99-9-4	95-10-4			
	79-18-4	65-3-5	86-18-4	72-18-4	78-16-4	69-18-4	77-15-4			
	86-6-4	109-7-4	83-17-4	94-10-4	76-19-4	78-18-4	111-5-4			
	68-20-4	94-3-4	104-7-4	101-4-4	88-13-4	99-8-4	107-5-4			
	103-5-4	98-3-4	77-14-4	83-18-4	68-22-4	88-6-4	90-10-4			
	77-17-4	102-11-4	105-9-4	87-18-4	85-10-4	103-12-4	88-12-4			
	93-2-4	85-18-4	88-9-4	72-26-4	105-5-4	111-4-4	104-5-4			
	80-15-4	97-7-4	98-4-4	100-10-4	70-2-5	109-9-4	87-5-4			
	107-10-4	77-19-4	71-25-4	69-1-5	95-2-4	109-10-4	97-2-4			
	89-8-4	102-3-4	105-8-4	100-3-4	95-1-4	99-3-4				
693	90-15-4	89-12-4	90-16-4	91-15-4	89-17-4	89-13-4	91-16-4	84A	74D	84H
	90-14-4	90-17-4	88-12-4	90-18-4	90-12-4	89-16-4	91-14-4			
	91-17-4	88-13-4	92-16-4	92-15-4	89-14-4	89-18-4	91-18-4			
	89-11-4	90-13-4	89-15-4	88-17-4	92-14-4	88-11-4	90-19-4			

ESA	Alberta Township System (ATS)	National Topographic System (NTS)
694	126-15-4 126-16-4 126-17-4 126-18-4 126-19-4 126-20-4 126-21-4 126-22-4 126-1-5 126-2-5 126-3-5 126-4-5 115-13-4 115-10-4 115-14-4 115-11-4 115-12-4 115-15-4 115-16-4 126-9-5 111-9-4 111-10-4 107-20-4 115-17-4 111-11-4 107-19-4 115-20-4 115-23-4 111-13-4 115-21-4 115-22-4 126-8-5 115-18-4 115-19-4 107-21-4 111-12-4 111-14-4 107-18-4 107-11-4 107-17-4 107-22-4 126-7-5 111-16-4 107-23-4 107-12-4 111-15-4 126-5-5 107-13-4 107-14-4 107-16-4 126-6-5 111-17-4 107-15-4 111-18-4 123-10-4 111-19-4 123-11-4 123-12-4 111-20-4 123-1-5 123-13-4 111-21-4 123-14-4 123-2-5 111-22-4 123-4-5 123-7-5 123-3-5 123-5-5 123-8-5 123-6-5 123-15-4 111-23-4 123-16-4 123-17-4 123-18-4 123-19-4 123-20-4 119-10-4 123-21-4 123-22-4 119-11-4 123-9-5 119-12-4 119-13-4 119-14-4 119-15-4 119-16-4 119-17-4 119-18-4 119-19-4 119-20-4 119-21-4 119-22-4 119-23-4 112-9-4 112-10-4 116-10-4 116-11-4 112-11-4 112-13-4 116-12-4 116-13-4 112-14-4 112-15-4 116-14-4 112-12-4 112-16-4 120-10-4 120-11-4 116-16-4 108-20-4 112-17-4 108-19-4 108-11-4 120-12-4 112-18-4 108-12-4 120-13-4 124-13-4 108-21-4 108-17-4 108-13-4 120-14-4 108-18-4 124-14-4 112-19-4 108-22-4 108-23-4 112-20-4 124-15-4 120-15-4 108-14-4 116-17-4 112-21-4 124-16-4 120-16-4 108-15-4 108-16-4 124-17-4 120-17-4 116-18-4 112-22-4 120-18-4 124-18-4 116-19-4 124-19-4 116-20-4 120-19-4 120-20-4 124-20-4 112-23-4 124-21-4 116-21-4 120-21-4 116-22-4 124-22-4 120-22-4 124-1-5 124-7-5 124-3-5 120-23-4 124-2-5 124-4-5 124-5-5 116-23-4 124-6-5 124-8-5 124-9-5 105-10-4 105-11-4 105-12-4 113-9-4 113-10-4 117-10-4 113-11-4 105-13-4 117-11-4 113-13-4 113-12-4 117-12-4 113-14-4 117-13-4 105-16-4 105-14-4 113-16-4 117-14-4 105-17-4 113-15-4 121-10-4 109-20-4 105-18-4 109-11-4 109-19-4 113-17-4 117-16-4 121-11-4 105-19-4 105-15-4 105-20-4 113-18-4 109-21-4 121-12-4 105-21-4 109-12-4 109-17-4 105-22-4 109-13-4 109-22-4 109-18-4 105-23-4 109-23-4 105-24-4 113-19-4 121-13-4 109-14-4 113-20-4 121-14-4 113-21-4 117-17-4 109-15-4 121-15-4 109-16-4 125-14-4 125-15-4 121-16-4 113-22-4 125-16-4 117-18-4 121-17-4 125-17-4 117-19-4 121-18-4 113-23-4 117-20-4 121-19-4 125-18-4 125-19-4 117-21-4 121-20-4 121-1-5 121-21-4 117-22-4 125-20-4 125-21-4 121-22-4 121-2-5 125-22-4 125-1-5 125-3-5 121-23-4 125-7-5 117-23-4 125-2-5 125-4-5 125-5-5 125-6-5 125-9-5 125-8-5 121-3-5 121-9-5 121-4-5 121-6-5 107-10-4 110-10-4 121-5-5 121-7-5 121-8-5 116-15-4 106-11-4 114-9-4 106-12-4 106-10-4 114-10-4 114-16-4 114-14-4 114-13-4 114-15-4 114-11-4 114-17-4 114-12-4 114-18-4 114-21-4 110-9-4 106-17-4 114-20-4 106-18-4 106-16-4 106-13-4 114-19-4 106-20-4 114-22-4 106-19-4 114-23-4 106-14-4 106-21-4 106-22-4 106-15-4 106-23-4 106-24-4 110-11-4 110-12-4 110-13-4 110-19-4 110-20-4 110-17-4 110-14-4 110-18-4 110-21-4 110-22-4 110-23-4 110-16-4 110-15-4 122-10-4 122-11-4 122-1-5 122-12-4 122-2-5 122-9-5 122-13-4 118-10-4 122-14-4 118-11-4 122-3-5 122-15-4 122-16-4 118-12-4 118-13-4 122-17-4 118-14-4 122-18-4 122-4-5 122-19-4 118-15-4 122-20-4 122-6-5 122-21-4 122-5-5 118-16-4 122-22-4 122-8-5 122-7-5 122-23-4 118-17-4 118-18-4 118-19-4 118-20-4 118-21-4 118-22-4 118-23-4 124-10-4 124-11-4 124-12-4 125-13-4 111-8-4 117-15-4 126-23-4 123-23-4 124-23-4 125-23-4 109-10-4 107-24-4 108-24-4 109-24-4 110-24-4 115-9-4 110-8-4 114-8-4 108-10-4 122-9-4 126-14-4 105-9-4 117-9-4 119-9-4 111-24-4 112-24-4 113-24-4 114-24-4 116-9-4 121-9-4 120-9-4 106-9-4 113-8-4 123-9-4 115-24-4 116-24-4 117-24-4 118-24-4 109-9-4 118-9-4 125-12-4 112-8-4 111-7-4 104-16-4 110-7-4 124-9-4 119-24-4 120-24-4 121-24-4 122-24-4 126-13-4 105-25-4 106-25-4 115-8-4 107-9-4 104-17-4 109-8-4 114-7-4 125-11-4	84P 84I 84O 74L 74M 84J

ESA	Alberta Township System (ATS)							National Topographic System (NTS)		
695	53-20-4 53-21-4	54-20-4	54-19-4	52-20-4	55-20-4	53-19-4	55-19-4	83H		
696	79-8-6	79-9-6						83M		
697	71-24-5	71-23-5	70-24-5					83N		
698	117-2-4 115-4-4	114-4-4 118-2-4	114-5-4 118-1-4	117-3-4 113-4-4	113-5-4 117-1-4	115-5-4 115-3-4	116-3-4 112-5-4	74L	74M	
699	99-1-4 101-3-4 97-1-4 103-2-4	99-2-4 101-1-4 102-3-4 103-3-4	100-1-4 99-3-4 97-2-4 101-5-4	100-2-4 95-2-4 98-2-4 102-4-4	95-1-4 102-1-4 101-4-4 94-1-4	100-3-4 102-2-4 100-4-4 96-2-4	101-2-4 98-1-4 100-5-4	74E		
700	106-2-5	106-3-5						84J		
701	57-20-4	57-21-						83H		
702	77-18-5 78-17-5	76-18-5 78-16-5	77-17-5	75-17-5	76-17-5	77-19-5	75-18-5	83N		
703	65-10-4 68-10-4 66-12-4	66-9-4 67-11-4 68-11-4	66-10-4 66-11-4 67-8-4	67-9-4 68-9-4	67-10-4 64-10-4	65-9-4 67-12-4	65-11-4 64-11-4	73L		
704	103-6-5 98-17-4 102-4-5 101-19-4 99-20-4 102-24-4 101-6-5 102-23-4 101-22-4 103-24-4 103-20-4 103-17-4 95-19-4 100-6-5 100-7-5 106-1-5	99-16-4 98-19-4 102-15-4 102-3-5 100-20-4 102-7-5 101-20-4 97-22-4 103-15-4 100-22-4 99-15-4 102-22-4 98-22-4 101-8-5 100-5-5 105-1-5	99-18-4 98-20-4 99-17-4 102-16-4 96-19-4 96-20-4 101-18-4 102-18-4 102-1-5 102-8-5 102-21-4 102-25-4 95-20-4 103-14-4 103-25-4	97-18-4 97-17-4 103-3-5 103-1-5 99-21-4 100-19-4 101-16-4 104-5-5 96-18-4 104-4-5 101-15-4 101-2-5 97-16-4 101-23-4 103-8-5	97-19-4 97-21-4 102-19-4 102-6-5 98-21-4 102-5-5 102-17-4 103-4-5 103-16-4 101-3-5 101-4-5 101-5-5 100-15-4 100-17-4 96-21-4	97-20-4 103-2-5 103-5-5 102-2-5 100-18-4 104-6-5 104-2-5 104-3-5 103-19-4 98-16-4 97-23-4 103-18-4 103-23-4 102-14-4 100-14-4	98-18-4 99-19-4 101-17-4 101-21-4 103-7-5 100-21-4 104-1-5 101-7-5 102-20-4 96-17-4 99-22-4 104-24-4 104-7-5 104-25-4 95-18-4	84H 84I	84G	84J
705	82-4-6	83-4-6	83-5-6					84D		
706	73-24-4	74-23-4	73-23-4	74-24-4				83P		
707	75-6-5	74-6-5	73-5-5	75-5-5	73-6-5	74-5-5		83O		
708	94-20-5	95-20-5	96-20-5	95-19-5				84F		
709	87-3-4 86-4-4	86-3-4 85-1-4	87-4-4 86-1-4	86-2-4	85-3-4	85-2-4	87-2-4	74D		
710	82-22-5 80-23-5 83-21-5	81-24-5 79-3-6 81-25-5	81-23-5 80-26-5 82-24-5	82-23-5 80-1-6	79-2-6 80-2-6	80-25-5 83-22-5	79-1-6 80-3-6	84C	83M	83N
711	82-21-5	83-21-5	81-21-5					84C		
712	106-6-4	105-6-4	106-5-4					74L		

ESA	Alberta Township System (ATS)							National Topographic System (NTS)	
713	105-8-4 106-9-4	104-7-4 106-7-4	105-7-4	104-8-4	105-9-4	106-8-4	104-6-4	74L	74E
714	75-10-5	75-11-5	75-12-5					83O	
715	75-13-5	75-14-5	75-12-5					83N	83O
716	64-2-5	65-2-5	64-3-5	65-3-5	64-1-5			83J	
717	50-21-4 49-22-4	49-20-4	50-20-4	49-21-4	50-22-4	51-21-4	51-20-4	83H	
718	66-11-4	67-11-4	67-10-4	66-10-4	65-11-4	66-12-4		73L	
719	64-3-5 61-5-5	63-4-5 65-4-5	62-5-5 63-5-5	62-4-5 61-4-5	65-3-5	64-4-5	63-3-5	83J	
720	49-7-5	50-6-5	49-6-5					83G	
721	48-7-5	47-7-5	49-7-5	47-8-5				83G	
722	106-5-4	107-5-4	106-6-4	105-6-4	107-6-4	105-5-4		74L	
723	83-10-6							84D	
724	52-19-4 51-22-4	52-20-4	52-21-4	51-21-4	51-19-4	51-20-4	53-19-4	83H	
725	62-19-4							83I	
726	56-4-4							73E	
727	69-19-4	69-20-4						83I	
728	65-26-4	65-25-4						83I	
729	61-6-5	61-7-5						83J	
730	64-1-4 66-1-4	65-1-4	63-1-4	65-2-4	64-2-4	65-3-4	63-2-4	73L	
731	76-18-5	77-18-5	77-19-5	76-19-5	77-17-5	76-17-5		83N	
732	81-7-6 81-12-6 82-7-6 83-9-6	83-10-6 79-5-6 80-5-6	82-11-6 82-6-6 84-8-6	82-13-6 83-8-6 81-13-6	83-7-6 79-6-6 84-9-6	82-12-6 80-6-6 82-10-6	81-6-6 83-11-6 83-6-6	84D	83M
733	59-15-4							83I	
734	83-8-4	83-9-4	84-8-4	82-9-4	82-8-4	84-9-4		74D	
735	69-18-4 70-18-4	69-17-4	70-17-4	69-19-4	68-18-4	68-19-4	68-17-4	83I	83P

ESA	Alberta Township System (ATS)	National Topographic System (NTS)
736	119-1-5 119-2-5 119-3-5 126-13-5 119-4-5 119-5-5 115-4-5 119-6-5 115-3-5 119-11-5 119-9-5 119-7-5 119-10-5 115-8-5 119-8-5 115-9-5 115-10-5 115-5-5 120-1-5 120-2-5 116-1-5 124-13-5 120-3-5 120-10-5 116-4-5 116-3-5 120-9-5 120-4-5 116-5-5 116-8-5 116-7-5 120-6-5 120-5-5 120-7-5 120-8-5 116-9-5 116-2-5 120-11-5 116-6-5 125-17-5 113-14-5 117-1-5 117-2-5 117-4-5 117-3-5 117-5-5 117-6-5 117-9-5 117-8-5 117-7-5 121-10-5 118-2-5 114-4-5 118-3-5 126-12-5 118-4-5 118-1-5 118-5-5 118-6-5 114-5-5 118-7-5 118-8-5 118-9-5 114-3-5 114-9-5 114-8-5 118-10-5 114-10-5 122-10-5 121-12-5 120-15-5 126-15-5 123-14-5 126-11-5 125-16-5 126-16-5 122-15-5 120-16-5 121-17-5 113-13-5 120-14-5 126-10-5 121-16-5 119-13-5 121-11-5 122-16-5 120-13-5 119-12-5 114-13-5 126-17-5 125-13-5 118-14-5 117-15-5 115-7-5 118-12-5 116-13-5 125-14-5 126-14-5 123-17-5 116-16-5 124-16-5 122-18-5 125-10-5 113-15-5 117-10-5 125-15-5 117-16-5 113-7-5 121-15-5 114-7-5 116-10-5 121-14-5 121-13-5 124-15-5 117-12-5 122-13-5 120-12-5 115-12-5 119-14-5 115-13-5 114-11-5 123-13-5 123-15-5 113-10-5 115-1-5 121-18-5 124-17-5 124-12-5 120-17-5 125-12-5 113-6-5 125-11-5 122-11-5 115-16-5 113-9-5 123-16-5 118-15-5 122-14-5 118-11-5 123-18-5 117-13-5 114-12-5 113-5-5 117-11-5 112-6-5 123-10-5 115-2-5 124-14-5 124-18-5 116-12-5 114-6-5 120-19-5 122-12-5 113-11-5 124-11-5 114-1-5 122-17-5 124-10-5 118-13-5 119-16-5 113-8-5 125-18-5 120-18-5 117-14-5 114-2-5 112-9-5 113-16-5 115-6-5 122-19-5 121-19-5 118-16-5 126-18-5 114-14-5 116-14-5 112-13-5 119-17-5 119-20-5 119-15-5 112-10-5 116-11-5 118-20-5 123-12-5 114-15-5 113-4-5 119-19-5 123-11-5 112-7-5 117-21-5 112-14-5 115-17-5 115-14-5 113-12-5 113-3-5 115-11-5 118-21-5 117-17-5 112-11-5 111-6-5 111-7-5 123-9-5	84O 84N 84J 84K
737	84-17-4 86-17-4 88-11-4 87-15-4 85-17-4 87-16-4 87-14-4 87-13-4 87-12-4 86-18-4 87-17-4 88-12-4 83-16-4 88-13-4 85-18-4 83-17-4 86-16-4 87-11-4 84-16-4 88-10-4	84A 74D
738	112-6-6 112-7-6 113-6-6 112-8-6 113-7-6 113-5-6 113-8-6 111-7-6 112-5-6 111-8-6 114-5-6 111-6-6 114-6-6 112-9-6 114-7-6	84L
739	95-10-6 95-11-6 93-10-6 94-10-6 94-11-6 93-12-6 93-11-6 94-12-6 95-9-6 92-10-6 96-10-6 96-11-6 93-13-6 94-9-6 93-9-6 96-9-6 92-12-6 95-12-6 92-11-6 94-13-6 92-13-6 92-9-6	84E 84D
740	89-4-4 89-3-4 89-5-4 88-4-4 88-6-4 89-1-4 89-2-4 88-7-4 88-8-4 87-6-4 89-9-4 89-8-4 90-4-4 88-1-4 87-5-4 88-5-4 89-6-4 88-3-4 86-6-4 88-9-4 89-7-4 86-5-4 90-5-4 90-9-4 90-3-4 88-2-4	74D
741	89-1-4 88-1-4	74D
742	114-6-4 115-6-4	74L
743	115-4-4	74M
744	118-8-4 118-7-4	74M
745	119-3-4	74M

ESA	Alberta Township System (ATS)	National Topographic System (NTS)
746	119-2-4 119-3-4 118-2-4 118-3-4	74M
747	119-2-4	74M
748	121-7-4 120-7-4 120-6-4 121-6-4	74M
749	123-2-4	74M
750	125-4-4 125-3-4 124-4-4 124-3-4	74M
751	126-7-4 125-7-4	74M
752	125-1-4 126-1-4 124-1-4 126-2-4 124-2-4 125-2-4	74M
753	119-7-4 119-8-4 120-8-4 120-9-4 119-6-4 119-9-4	74M
754	121-3-4 121-4-4 122-1-4 122-2-4 122-3-4 122-4-4 121-1-4 121-2-4 123-4-4 121-5-4 123-3-4 123-1-4 123-2-4 122-5-4	74M

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