

## Appendix B Terrestrial Environment -

Terrestrial Environment - Photographs and Tables



**Photo - 01.** Old clear-cut area in Project area.



Photo - 02. Mature upland stand in Project area



Photo - 03. Wet fen south of the Project area



**Photo - 04.** Pitcher plants in wet fen area



Photo - 05. Drill road to Unnamed Lake 3 ^



Photo - 06. Drill road to shore of Unnamed Lake 3 ↑



Photo - 07. Treed bog near shore of Unnamed Lake 2 ↑



Photo - 08. Wet Fen and Meadow north of Unnamed Lake 2 looking N ↑



Photo - 09. Clearing used for Temporary Drill Camp ↑



Photo - 10. Communication Tower in Clear-Cut Area (Looking South) ↑



Photo - 11. Asphalt pad from former structure at west end of site  $\uparrow$ 



Photo - 12. Clear-Cut Area (foreground) and Mature Mixed Wood Forest Area (background) ↑



Photo - 13. Temporary Drill Camp with Unnamed Lake 2 in Background (Looking South)↑



Photo - 14. Unnamed Lake 2 (Looking South)↑



Photo - 15. Understory of Clear-Cut Area ↑



Photo - 16. Limestone Den in Clear-Cut Area ↑



Photo - 17. Grassy Meadow in Mature Mixed Wood Forest Area 🔨



Photo - 18. Mature aspen in Mature Mixed Wood Forest Area ↑



Photo - 19. Old growth forest in Mature Mixed Wood Forest Area  $\uparrow$ 



Photo - 20. Limestone Bedrock in Mature Mixed Wood Forest Area ↑



Photo - 21. Regrowth on access roads in Clear-Cut Area ↑



Photo - 22. Garter Snake on access road in Clear Cut Area ↑

## Table – 01: Plant species recorded in Clear-Cut Area

Overstory Species
White Spruce (Picea glauca)
Balsam Poplar (Populus balsamifera)
Paper Birch (Betula papyrifera)
Trembling Leaf Aspen (Populus tremuloides)
Shrub Species
Pin Cherry (Prunus pensylvanica)
Saskatoon (Amelanchier alnifolia)
Chokecherry (Prunus virginiana)
Ground Cover Species
American Vetch (Vicia americana)
Arrow-Leaved Coltsfoot (Petasites sagittatus)
Canada Anemone (Anemone canadensis)
Common Harebell (Campanula rotundifolia)
Drooping Wood-Reed (Cinna latifolia)
Fairybells (Disporum trachycarpum)
Fern (Matteuccia sp.)
Foxtail Barley (Hordeum jubatum)
Goldenrod (Solidago canadensis)
Gooseberry (Ribes oxyacanthoides)
Hairy Wild Rye (Elymus innovatus) Long-leaved Chickweed (Stellaria longifolia)
Meadow Rue ( <i>Thalictrum aquilegiifolium</i> )
Northern Bed Straw (Gallium boreale)
Pink Corydalis (Corydalis sempervirens)
Raspberry ( <i>Rubus idaeus</i> )
Red-Osier Dogwood ( <i>Cornus stolonifera</i> )
Rose (Rosa acicularis)
Slender Wheat Grass (Agropyron trachycaulum)
Snowberry (Symphoricarpos albus)
Tall Bluebells (Mertensia paniculata)
Yarrow (Achillea millefolium)
Wetland Species
Marsh Cinquefoil (Potentilla palustris)
Sedge (Carex sp.)
Slough Grass ( Bechmania syzigachne)
Wild Mint (Mentha arvensis)
Moss and Lichen species
Awned hair cap moss (Polytrichum piliferum)
Tufted moss (Aulacomium palustre)
Wavy Dicranum ( <i>Dicranum undulatum</i> )
Invasive Species
Canada Thistle (Cirsium arvense)
Perennial Sow Thistle (Sonchus arvensis)
Quack Grass (Agropyron repens)
Red Clover ( <i>Trifolium pretense</i> )
Stinging Nettle ( <i>Urtica dioica</i> )

Table – 02: Plant species recorded in the Mature Upland Area

Overstory Species
Balsam Fir (Abies balsamea)
Balsam Poplar ( <i>Populus balsamifera</i> )
Black Spruce (Picea mariana)
Bur Oak (Quercus macrocarpa)
Jack Pine ( <i>Pinus banksiana</i> )
Larch (Larix decidua)
Paper Birch (Betula papyrifera)
Trembling Leaf Aspen (Populus tremuloides)
White Spruce ( <i>Picea glauca</i> )
Shrub Species
Pin Cherry (Prunus pensylvanica)
Saskatoon (Amelanchier alnifolia)
Willow (Salix sp.)
Chokecherry (Prunus virginiana)
Ground Cover Species
American Vetch (Vicia americana)
Arrow-Leaved Coltsfoot (Petasites sagittatus)
Bearberry (Arctostaphylos uva-ursi)
Blunt-Leaved Bog-Orchid ( <i>Habenaria obtusata</i> )
Bog Cranberry (Vaccinium vitis-idaea)
Bunchberry (Cornus canadensis)
Canada Anemone (Anemone canadensis)
Canada Buffaloberry (Sheperdia canadensis)
Clintonia (Clintonia borealis)
Cloudberry (Rubus chamaemorus)
Common Harebell (Campanula rotundifolia)
Drooping Wood-Reed (Cinna latifolia)
Dwarf Bilberry (Vaccinium caespitosum)
Fairybells (Disporum trachycarpum)
Fern (Matteuccia sp.)
Foxtail Barley (Hordeum jubatum)
Goldenrod (Solidago canadensis)
Gooseberry (Ribes oxyacanthoides)
Graceful Potentilla (Potentilla gracilis)
Hairy Wild Rye ( <i>Elymus innovatus</i> )
Highbush Cranberry (Viburnum edule)
Horsetail ( <i>Equisetum arvense</i> )
Labrador Tea (Ledum groenlandicum)
Leatherleaf (Chamaedaphne calyculata)
Lily of the Valley (Maianthemum canadense)
Ground Cover Species (continued)
Meadow Rue (Thalictrum aquilegiifolium)
Moccasin Flower (Cypripedium acaule)
Northern Bed Straw (Gallium boreale)
· · · · · · · · · · · · · · · · · · ·
Northern Bog-Laurel ( <i>Kalmia polifolia</i> )
Northern Star Flower ( <i>Trientalis borealis</i> )
Pink Corydalis (Corydalis sempervirens)
Raspberry (Rubus idaeus)
Red-Osier Dogwood (Cornus stolonifera)
Richardson's Alumroot (Heuchera richardsonii)
Rock Cress (Arabis sp.)
Rose (Rosa acicularis)
Rough Cinquefoil (Potentilla norvegica)
Sarsaparilla ( <i>Aralia nudicaulis</i> )
Slender Wheat Grass (Agropyron trachycaulum)
Small Bog Cranberry (Oxycoccus microcarpus)
Small-Leaved Pussytoes (Antennaria microphylla)
Snowberry (Symphoricarpos albus)
Stiff Club Moss (Lycopodium annotinum)
Strawberry (Fragaria virginiana)
Tall Bluebells (Mertensia paniculata)

Three-Leaved False Solomon's-Seal (Smilacina trifolia)
Three-Toothed Cinquefoil (Potentilla tridentata)
Twinflower (Linnaea borealis)
Velvet-Leaved Blueberry (Vaccinium myrtilloides)
Wintergreen (Pyrola asarifolia)
Yarrow (Achillea millefolium)
Wetland Species
Bluejoint (Calamagrostis canadensis)
Common Cattail (Typha latifolia)
Common Reed Grass (Phragmites australis)
Marsh Cinquefoil (Potentilla palustris)
Reed Canary Grass (Phalaris arundinacea)
Sedge (Carex sp.)
Slough Grass (Bechmania syzigachne)
Small-Flowered Bulrush (Scirpus microcarpus)
Tall Cotton-Grass (Eriophorum angustifolium)
Wild Mint (Mentha arvensis)
Moss and Lichen Species
Awned hair cap moss (Polytrichum piliferum)
Cladonia (Cladonia sp.)
Sphagnum Moss (Sphagnum sp.)
Tufted moss (Aulacomium palustre)
Wavy Dicranum ( <i>Dicranum undulatum</i> )
Invasive Species
Canada Thistle (Cirsium arvense)
Perennial Sow Thistle (Sonchus arvensis)
Quack Grass (Agropyron repens)
Red Clover ( <i>Trifolium pretense</i> )
Stinging Nettle (Urtica dioica)

Table - 03: Plant species recorded in the Wet Fen Area

Overst	ory Species
Larch (	Larix decidua)
Shrub	Species
Bog Bir	rch (Betula glandulosa)
Green	Alder ( <i>Alnus crispa</i> )
Ground	d Cover Species
Bearbe	rry (Arctostaphylos uva-ursi)
Bog Cr	anberry (Vaccinium vitis-idaea)
Bunch	perry (Cornus canadensis)
Labrad	or Tea (Ledum groenlandicum)
Pitcher	Plant (Sarracenia purpurea)
Wetlan	d Species
Marsh	Cinquefoil (Potentilla palustris)
Sedge	(Carex sp.)
Moss a	and Lichen Species
Awned	hair cap moss (Polytrichum piliferum)

Table – 04: Species listed and ranked by Manitoba Conservation Data Centre in the Mid-Boreal Lowland and Churchill River Upland Ecoregions

Mid-Boreal Lowland			
Animal Assemblage			
Bat Colony		GNR	SNR
Snake Hibernaculum		GNR	SNR
Invertebrate Animal			
Strophitus undulatus		G5	SNR
Terrestrial Community - Other Classification	1	65	SINIX
	! 	CND	
Boreal Inland Alkaline Cliff Sparse Vegetation  Distichlis stricta-Hordeum jubatum-Puccinellia	Allegii Crass Wild Darley Ny thalle Colt	GNR	S2
nuttalliana-Plantago maritime	Alkali Grass-Wild Barley-Nuttall's Salt Meadow Grass- Seaside Plantain	GNR	S2
(saline herbaceous vegetation)	(Saline Herbaceous Vegetation)		
Inland Lake cobble-	(Same Herbacocae Vegetation)	GNR	S3
gravel shore sparse Vegetation			•
Thuja occidentalis-(Picea mariana,	Eastern White Cedar-(Black Spruce,	GNR	S2
Abies balsamea)/Alnus rugosa	Balsam Fir)/Speckled Alder		
(wetland forest)	(Wetland Forest)		
Vascular Plant			
Arethusa bulbosa	Arethusa	G4	S2
Botrychium multifidum	Leathery Grape-fern	G5	S2
Calopogon tuberosus	Swamp-pink	G5	S3
Carex communis	Fibrous-rooted Sedge	G5	SNA
Carex flava	Yellow Sedge	G5	S2S3
Carex garberi	Elk Sedge	G5	S1?
Carex hystericina	Porcupine Sedge	G5	S3?
Carex pedunculata	Stalked Sedge	G5	S3?
Carex projecta	Necklace Sedge	G5	S2?
Carex vulpinoidea	Fox Sedge	G5	S3?
Cypripedium arietinum	Ram's Head Lady's-slipper	G3	S2S3
Drosera anglica	Oblong-leaved Sundew	G5	S3
Drosera linearis	Slender-leaved Sundew	G4	S2
Dulichium arundinaceum	Three-way Sedge	G5	S2
Eleocharis engelmannii	Engelmann's Spike-rush	G4G5Q	S1
Eriophorum callitrix	Beautiful Cotton-grass	G5	S2
Galium aparine	Cleavers	G5	SU
Goodyera tesselata	Tesselated Rattlesnake Plantain	G5	S2
Gymnocarpium jessoense	Northern Oak Fern	G5	S3S4
Gymnocarpium robertianum	Limestone Oak Fern	G5	S1
Heteranthera dubia	Water Star-grass	G5	S2
Leucophysalis grandiflora	Large White-flowered Ground-cherry	G4?	S3
Liparis loeselii	Yellow Twayblade	G5	S3S4
Listera auriculata	Auricled Twayblade	G3G4	S1
Malaxis monophyllos	White Adder's-mouth	G5	S2?
Malaxis unifolia	Green Adder's-mouth	G5	S2?
Nymphaea odorata	Fragrant Water-lily	G5	S2
Onoclea sensibilis	Sensitive Fern	G5	S3S4
Parietaria pensylvanica	American Pellitory	G5	S4
Pellaea glabella ssp. occidentalis	Cliff-brake	G5T4	S2
Plantago maritima	Seaside Plantain	G5	S2
Platanthera lacera	Fringed Orchid	G5	S2
Platanthera orbiculata	Round-leaved Bog Orchid	G5	S3
Potamogeton strictifolius	Straightleaf Pondweed	G5	S3
Pyrola americana	Round-leaved Pyrola	G5	S2
Rhynchospora alba	White Beakrush	G5	S3?
Rhynchospora capillacea	Horned Beakrush	G4	S2
Taxus canadensis	Canada Yew	G5	S3
Thalictrum sparsiflorum	Few-flowered Meadow-rue	G5	S2S3
Vaccinium caespitosum	Dwarf Bilberry	G5	S2
Viola selkirkii	Long-spurred Violet	G5?	S2

Woodsia glabella	Smooth Woodsia	G5	S2
Vertebrate Animal			
Aechmophorus occidentalis	Western Grebe	G5	S4B
Ardea herodias	Great Blue Heron	G5	S4S5B
Aythya marila	Greater Scaup	G5	S5B
Charadrius melodus	Piping Plover	G3	S1B
Coregonus zenithicus	Shortjaw Cisco	G3	S3
Haliaeetus leucocephalus	Bald Eagle	G5	S4S5B
Ichthyomyzon castaneus	Chestnut Lamprey	G4	S3S4
Macrhybopsis storeriana	Silver Chub	G5	S3
Myotis lucifugus	Little Brown Myotis	G5	S2N,S5B
Nycticorax nycticorax	Black-crowned Night-heron	G5	S3S4B
Pelecanus erythrorhynchos	American White Pelican	G3	S3S4B
Phalacrocorax auritus	Double-crested Cormorant	G5	S5B
Rangifer tarandus caribou	Caribou	G5T4	S4
Sterna caspia	Caspian Tern	G5	S3S4B
Sterna forsteri	Forster's Tern	G5	S4B
Strix varia	Barred Owl	G5	S3S4
Churchill River Upland	Barred OWI		
Churchill River Upland Fungus			CNID
Churchill River Upland Fungus Leptogium rivulare	Flooded jellyskin	G3G5	SNR
Churchill River Upland Fungus Leptogium rivulare Vascular Plant	Flooded jellyskin	G3G5	-
Churchill River Upland Fungus Leptogium rivulare Vascular Plant Carex michauxiana	Flooded jellyskin  Long-fruited Sedge	G3G5	S2
Churchill River Upland  Fungus  Leptogium rivulare  Vascular Plant  Carex michauxiana  Carex oligosperma	Flooded jellyskin  Long-fruited Sedge Few-fruited Sedge	G3G5 G5 G5?	\$2 \$3?
Churchill River Upland  Fungus  Leptogium rivulare  Vascular Plant  Carex michauxiana  Carex oligosperma  Carex pauciflora	Flooded jellyskin  Long-fruited Sedge Few-fruited Sedge Few-flowered Sedge	G3G5 G5 G5? G5	S2 S3? S3
Churchill River Upland  Fungus  Leptogium rivulare  Vascular Plant  Carex michauxiana  Carex oligosperma  Carex pauciflora  Dryopteris fragrans	Flooded jellyskin  Long-fruited Sedge Few-fruited Sedge Few-flowered Sedge Fragrant Shield Fern	G3G5 G5 G5? G5 G5	\$2 \$3? \$3 \$3 \$3\$4
Churchill River Upland  Fungus  Leptogium rivulare  Vascular Plant  Carex michauxiana  Carex oligosperma  Carex pauciflora  Dryopteris fragrans  Gymnocarpium jessoense	Flooded jellyskin  Long-fruited Sedge Few-fruited Sedge Few-flowered Sedge Fragrant Shield Fern Northern Oak Fern	G3G5 G5 G5? G5 G5 G5	\$2 \$3? \$3 \$3\$4 \$3\$4
Churchill River Upland  Fungus  Leptogium rivulare  Vascular Plant  Carex michauxiana  Carex oligosperma  Carex pauciflora  Dryopteris fragrans  Gymnocarpium jessoense  Gymnocarpium robertianum	Flooded jellyskin  Long-fruited Sedge Few-fruited Sedge Few-flowered Sedge Fragrant Shield Fern Northern Oak Fern Limestone Oak Fern	G3G5 G5? G5 G5 G5 G5 G5 G5	\$2 \$3? \$3 \$3\$4 \$3\$4 \$1
Churchill River Upland  Fungus  Leptogium rivulare  Vascular Plant  Carex michauxiana  Carex oligosperma  Carex pauciflora  Dryopteris fragrans  Gymnocarpium jessoense  Gymnocarpium robertianum  Juncus stygius ssp. americanus	Flooded jellyskin  Long-fruited Sedge Few-fruited Sedge Few-flowered Sedge Fragrant Shield Fern Northern Oak Fern Limestone Oak Fern Moor Rush	G3G5  G5 G5? G5	\$2 \$3? \$3 \$3\$4 \$3\$4 \$1 \$1?
Churchill River Upland  Fungus  Leptogium rivulare  Vascular Plant  Carex michauxiana  Carex oligosperma  Carex pauciflora  Dryopteris fragrans  Gymnocarpium jessoense  Gymnocarpium robertianum  Juncus stygius ssp. americanus  Nymphaea tetragona	Flooded jellyskin  Long-fruited Sedge Few-fruited Sedge Few-flowered Sedge Fragrant Shield Fern Northern Oak Fern Limestone Oak Fern Moor Rush Small Water-lily	G3G5  G5 G5? G5	\$2 \$3? \$3 \$3\$4 \$3\$4 \$1 \$1?
Churchill River Upland  Fungus  Leptogium rivulare  Vascular Plant  Carex michauxiana  Carex oligosperma  Carex pauciflora  Dryopteris fragrans  Gymnocarpium jessoense  Gymnocarpium robertianum  Juncus stygius ssp. americanus  Nymphaea tetragona  Platanthera orbiculata	Flooded jellyskin  Long-fruited Sedge Few-fruited Sedge Few-flowered Sedge Fragrant Shield Fern Northern Oak Fern Limestone Oak Fern Moor Rush Small Water-lily Round-leaved Bog Orchid	G3G5  G5 G5? G5	\$2 \$3? \$3 \$3\$4 \$3\$4 \$1 \$1? \$2 \$3
Churchill River Upland  Fungus  Leptogium rivulare  Vascular Plant  Carex michauxiana  Carex oligosperma  Carex pauciflora  Dryopteris fragrans  Gymnocarpium jessoense  Gymnocarpium robertianum  Juncus stygius ssp. americanus  Nymphaea tetragona  Platanthera orbiculata  Rhynchospora alba	Flooded jellyskin  Long-fruited Sedge Few-fruited Sedge Few-flowered Sedge Fragrant Shield Fern Northern Oak Fern Limestone Oak Fern Moor Rush Small Water-lily Round-leaved Bog Orchid White Beakrush	G3G5  G5 G5? G5	\$2 \$3? \$3 \$3\$4 \$3\$4 \$1 \$1? \$2 \$3 \$3\$
Churchill River Upland  Fungus  Leptogium rivulare  Vascular Plant  Carex michauxiana  Carex oligosperma  Carex pauciflora  Dryopteris fragrans  Gymnocarpium jessoense  Gymnocarpium robertianum  Juncus stygius ssp. americanus  Nymphaea tetragona  Platanthera orbiculata  Rhynchospora alba  Woodsia alpina	Flooded jellyskin  Long-fruited Sedge Few-fruited Sedge Few-flowered Sedge Fragrant Shield Fern Northern Oak Fern Limestone Oak Fern Moor Rush Small Water-lily Round-leaved Bog Orchid White Beakrush Northern Woodsia	G3G5  G5 G5? G5	\$2 \$3? \$3 \$3\$4 \$3\$4 \$1 \$1? \$2 \$3 \$3? \$1
Churchill River Upland  Fungus  Leptogium rivulare  Vascular Plant  Carex michauxiana  Carex oligosperma  Carex pauciflora  Dryopteris fragrans  Gymnocarpium jessoense  Gymnocarpium robertianum  Juncus stygius ssp. americanus  Nymphaea tetragona  Platanthera orbiculata  Rhynchospora alba  Woodsia alpina  Woodsia glabella	Flooded jellyskin  Long-fruited Sedge Few-fruited Sedge Few-flowered Sedge Fragrant Shield Fern Northern Oak Fern Limestone Oak Fern Moor Rush Small Water-lily Round-leaved Bog Orchid White Beakrush	G3G5  G5 G5? G5	\$2 \$3? \$3 \$3\$4 \$3\$4 \$1 \$1? \$2 \$3 \$3 \$3? \$1 \$2
Churchill River Upland  Fungus  Leptogium rivulare  Vascular Plant  Carex michauxiana  Carex oligosperma  Carex pauciflora  Dryopteris fragrans  Gymnocarpium jessoense  Gymnocarpium robertianum  Juncus stygius ssp. americanus  Nymphaea tetragona  Platanthera orbiculata  Rhynchospora alba  Woodsia alpina  Woodsia oregana ssp. cathcartiana	Flooded jellyskin  Long-fruited Sedge Few-fruited Sedge Few-flowered Sedge Fragrant Shield Fern Northern Oak Fern Limestone Oak Fern Moor Rush Small Water-lily Round-leaved Bog Orchid White Beakrush Northern Woodsia	G3G5  G5 G5? G5	\$2 \$3? \$3 \$3\$4 \$3\$4 \$1 \$1? \$2 \$3 \$3? \$1
Churchill River Upland  Fungus  Leptogium rivulare  Vascular Plant  Carex michauxiana  Carex oligosperma  Carex pauciflora  Dryopteris fragrans  Gymnocarpium jessoense  Gymnocarpium robertianum  Juncus stygius ssp. americanus  Nymphaea tetragona  Platanthera orbiculata  Rhynchospora alba  Woodsia alpina	Flooded jellyskin  Long-fruited Sedge Few-fruited Sedge Few-flowered Sedge Fragrant Shield Fern Northern Oak Fern Limestone Oak Fern Moor Rush Small Water-lily Round-leaved Bog Orchid White Beakrush Northern Woodsia	G3G5  G5 G5? G5	\$2 \$3? \$3 \$3\$4 \$3\$4 \$1 \$1? \$2 \$3 \$3 \$3? \$1 \$2

Table - 05: MBCDC Rank, Heritage, Sub-Rank and Qualifier Codes

Category	Code	Definition
Rank	1	Very rare throughout its range or in the province (5 or fewer occurrences, or very few remaining individuals). May be especially vulnerable to extirpation.
	2	Rare throughout its range or in the province (6 to 20 occurrences). May be vulnerable to extirpation.
	3	Uncommon throughout its range or in the province (21 to 100 occurrences).
	4	Widespread, abundant, and apparently secure throughout its range or in the province, with many occurrences, but the element is of long-term concern (> 100 occurrences).
	5	Demonstrably widespread, abundant, and secure throughout its range or in the province, and essentially impossible to eradicate under present conditions.
	U	Possibly in peril, but status uncertain; more information needed.
	Н	Historically known; may be rediscovered.
	X	Believed to be extinct; historical records only, continue search.
	SNR	A species not ranked. A rank has not yet assigned or the species has not been evaluated.
	SNA	A conservation status rank is not applicable to the element.
Other Heritage Codes	G#G#	Numeric range rank: A range between two of the numeric ranks. Denotes range of uncertainty about the exact rarity of the species.
	S#S#	
Subrank	Т	Rank for subspecific taxon (subspecies, variety, or population); appended to the global rank for the full species, e.g. G4T3.
Qualifiers	В	Breeding status of a migratory species. Example: S1B,SZN - breeding occurrences for the species are ranked S1 (critically imperilled) in the province, nonbreeding occurrences are not ranked in the province.
	N	Non-breeding status of a migratory species. Example: S1B,SZN - breeding occurrences for the species are ranked S1 (critically imperilled) in the province, nonbreeding occurrences are not ranked in the province.
	Q	Taxonomic questions or problems involved, more information needed; appended to the global rank.
	Т	Rank for subspecific taxon (subspecies, variety, or population); appended to the global rank for the full species.
	#	A modifier to SX or SH; the species has been reintroduced but the population is not yet established.
	?	Inexact or uncertain; for numeric ranks, denotes inexactness.

MBCDC Species of Conservation Concern include species that are rare, disjunct, at risk (over their range or in Manitoba), in need of further research, are listed under the Manitoba Endangered Species Act (MBESA), or are recognized by designation by the Committee On the Status of Endangered Wildlife In Canada (COSEWIC). The Conservation Data Centre ranks species status according to a standardized procedure used by all Conservation Data Centres and Natural Heritage Programs. These ranks are used to determine protection and data collection priorities, and are revised as new information becomes available.

For each level of distribution—global and provincial—species are assigned a numeric rank ranging from 1 (very rare) to 5 (demonstrably secure). This reflects the species' relative endangerment and is based primarily on the number of occurrences of that species globally or within the province. However, other information, such as date of collection, degree of habitat threat, geographic distribution patterns and population size and trends, is considered when assigning a rank. The number of occurrences listed below are suggestions, not absolute criteria.

Table – 06: Plant Species List for Mid-Boreal Lowland

Species	Common Name	Abundance	Distribution	Habitat
Agropyron pectiniforme	Crested wheat-	Scarce	Local	Roadsides in the central area of the Model Forest
Agropyron trachycaulum	grass Slender wheat-	Scarce	Local	Dry, gravelly soils, thickets in the southern half of the Model Forest
var. glaucum Amelanchier humilis	grass	Scarce	Local but	Rock outcrops in the northeastern quadrant of the Model Forest. Its
Ameianchiei numiis	Serviceberry	Scarce	possibly Widespread	occurrence in the Model Forest is at the western limit of its range (Scoggan 1978)
Amorpha canescens	Leadplant	Common	Scattered	Dry sandy soils in open jack pine forest in the southern half of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range
Amphicarpa bracteata	Hog-peanut	Scarce	Local	Sandy soil at forest edge in the southwestern quadrant of the Model Forest but usually prefers moist deciduous forest. Its occurrence in the Model Forest
Anaphalis margaritacea	Pearly everlasting	Common	Widespread	Dry soils in old fields, open jack pine forest, roadsides. Its occurrence in the Model Forest is at the northern limit of its range (Scoggan 1978)
Andropogon gerardii	Big blue-stem	Scarce to abundant	Scattered	Sandy soils of clearings, open ground, roadsides in the southern half of the Model Forest and Quesnel Lake area
Antennaria neglecta	Pussy-toes	Common	Widespread	Rock outcrops, dry sandy soils in clearings and open forest
Antennaria neodioica	Common pussy- toes	Common	Scattered	Rock outcrops and dry sandy soils in clearings
Antennaria plantaginifolia	Plantain-leaved everlasting	Scarce	Local	Dry sandy soils in fields and open forest in the southern half of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range
Apocynum cannabinum	Indian hemp	Scarce	Scattered	Dry soils of open ground and thickets
Arabis glabra	Tower-mustard	Scarce	Scattered	Dry soils in open ground
Artemisia ludoviciana var. gnaphalodes	Prairie sage	Common	Local	Sandy soil in clearings
Artemisia ludoviciana var. pabularis	Prairie sage			
Asarum canadense	Wild ginger	Scarce	Scattered	Moist soils in deciduous (often trembling aspen) forest
Asclepias incarnata var. incarnata	Swamp milkweed	Scarce to common	Scattered	Ditches, marshes, wet thickets
Aster lateriflorus	Wood aster	Scarce	Scattered	Forest edges and clearings, roadsides in the southern third of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range
Aster laurentianus	Rayless aster	Scarce	Scattered	Mine tailings
Aster modestus	Large northern aster	Scarce	Local	Wet soils at edge of black spruce forest. A northern extension of its range in eastern Manitoba. Manitoba rare plant (White and Johnson 1980)
Brasenia schreberi	Water-shield	Common	Local	Quiet water of slightly acidic shallow lakes in the southeastern quadrant of the Model Forest. Its occurrence in the Model Forest is at the northwest limit of its range
Brassica kaber	Charlock	Scarce	Scattered	Roadsides
Bromus kalmii	Wild chess	Scarce	Local	Edge of trembling aspen forest in the southern half of the Model Forest
Bromus porteri	Porter's chess	Scarce	Local	Dry to moist soils in thickets in the southern half of the Model Forest
Campanula glomerata	Clustered bellflower	Scarce	Local	In thicket near lakeshore at Long Lake, a remnant of an old garden
Campanula rapunculoides	Creeping bellflower	Scarce	Local	In thicket near lakeshore at Long Lake, a remnant of an old garden
Caragana arborescens	Siberian pea- shrub			Introduced from Eurasia and cultivated as a hedge in villages and townsites. Occasionally spreading locally. WIN.
Cardamine parviflora var. arenicola	Small bitter- cress	Scarce	Widespread	Sandy soils and rock outcrops in clearings and open forest
Cardamine pratensis	Cuckoo-flower	Scarce	Local	Wet organic soil in black spruce bog in the southwestern quadrant of the Model Forest. Its occurrence in the Model Forest is at the southern limit of its range
Carex brevior	Fescue sedge	Scarce	Scattered	Dry soils of open ground in the southern half of the Model Forest. Its occurrence in the Model Forest is at or near the northern limit of its range
Carex buxbaumii	Brown sedge	Scarce	Local	Edge of wet depressions in loamy soil in a recently logged area in the east-central part of the Model Forest

Carex castanea	Chestnut sedge	Scarce	Scattered	Open, damp, grassy places and roadside ditches. Its occurrence in the Model Forest is at the northwestern limit of its range (Scoggan 1978)
Carex crawfordii	Crawford's sedge	Scarce	Widespread	Dry soils of open deciduous forest
Carex gracillima	Slender sedge	Scarce to common	Scattered	Moist clay soils of trembling aspen forest along river valleys in the southern half of the Model Forest. Its occurrence in the Model Forest is at or n
Carex hystricina	Porcupine sedge	Scarce	Local	Wet meadows and shores along the Winnipeg River. Its occurrence in the Model Forest is at or near the northern limit of its range (Scoggan 1978)
Carex intumescens var. fernaldi	Bladder sedge	Common	Widespread	Wet fens and wet soils in clearings in mixed forest
Carex livida	Livid sedge	Common	Local	Open sphagnous bogs
Carex pensylvanica	Sun-loving sedge	Scarce	Local	Dry soils in open forest in the southwestern quadrant of the Model Forest
Carex projecta	Necklace sedge	Scarce	Scattered	Wet to moist soils in open deciduous forest
Carex richardsonii	Richardson's sedge	Common	Scattered	Sandy (usually calcareous) open ground in the southwestern quadrant of the Model Forest
Carex stipata	Awl-fruited sedge	Scarce	Scattered	Pond margins, along wet ditches in the southern half of the Model Forest. Its occurrence is at or near the northern limit of its range (Scoggan 1978)
Carex viridula	Green sedge	Common	Scattered	Damp shores, margins of wet tailing ponds
Carex xerantica	White-scaled sedge	Scarce	Local	Dry soils of open ground in the eastern half of the Model Forest. Its occurrence in the Model Forest is at the northeastern limit of its range (Scogg
Carum carvi	Caraway	Scarce	Widespread	Open grassy areas along roadsides, trails
Ceanothus herbaceus	Narrow-leaved New Jersey tea	Scarce	Local	Dry sandy soils in open jack pine forest in the southwestern quadrant of the Model Forest. Its occurrence in the Model Forest is at the northwestern
Celastrus scandens	Climbing bittersweet	Scarce	Scattered	Moist soils in thickets and deciduous forest in the southern half of the Model Forest. Its occurrence in the Model Forest is at the northern limit of
Chaenorrhinum minus	Dwarf snapdragon	Common	Scattered	Dry sandy and gravelly soil along roadsides in the southwestern quadrant of the Model Forest
Chenopodium glaucum var. salinum	Oak-leaved goosefoot	Common	Scattered	Sandy beaches and mine tailings
Chenopodium leptophyllum var. oblongifolium	Narrow-leaved goosefoot	Scarce	Local	Sandy soils near the southern boundary of the Model Forest
Chrysopsis villosa	Hairy golden aster	Abundant	Local	Depressions among rock outcrops in open jack pine forest near Quesnel Lake. This species of dry prairies and sand dunes had been collected in the are
Circaea quadrisulcata var. canadensis	Tall enchanter's- nightshade	Common	Local	Wet depressions in forest in southern third of the Model Forest
Collinsia parviflora	Blue-eyed Mary	Common	Local	Moist soils of open forest
Convolvulus sepium	Wild morning- glory	Scarce	Local	Lakeshores, thickets
Coronilla varia	Field crown- vetch	Common	Local	Rock outcrops in open jack pine forest at edge of mine tailings in the southeastern quadrant of the Model Forest. Probably persisting from a revegetat
Crataegus succulenta	Long-spined hawthorn	Scarce	Scattered	Dry soils in thickets in the southern third of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range (Scoggan 1978)
Cypripedium acaule	Stemless lady's- slipper	Common	Widespread	Sandy soils in mature jack pine forest
Cypripedium arietinum	Ram's head lady's-slipper	Scarce	Scattered	Moist organic and mineral soils in coniferous forest.
Danthonia spicata var. pinetorum	Poverty oat- grass	Scarce	Local	Dry sandy soils in jack pine forest in the southwestern quadrant of the Model Forest
Dianthus plumarius	Cottage pink	Common	Local	Colonizing rock piles at an abandoned mine in the northern half of the Model Forest. A garden-escape. Introduced (S.E. Europe). 93- 895.
Dulichium arundinaceum	Three-way sedge	Common	Local	Marshes at margins of ponds and lakes in the southeastern quadrant of the Model Forest
Elymus canadensis	Canada wild rye	Scarce	Scattered	Sand dunes, sandy soils of open ground and mixed forest in the southern half of the Model Forest. Its occurrence in the Model

				Forest is at the northern limit of its range
Elymus virginicus var.	Virginia wild-rye	Scarce	Local	Moist deciduous forest in the southwestern quadrant of the Model
submuticus				Forest
Equisetum laevigatum	Smooth scouring rush	Common	Scattered	Dry sandy soils of open ground and shores. Its occurrence in the Model Forest is at the northern limit of its range (Flora of North America Editorial
Erigeron strigosus	Daisy fleabane	Scarce	Scattered	Dry sandy and gravelly soils, rock outcrops of open ground or open mixed forest in the southern half of the Model Forest. Its occurrence in the Model
Eupatorium perfoliatum	Boneset	Scarce to common	Scattered	Wet soils of thickets, marshes and lake shores
Euphorbia serpyllifolia	Thyme-leaved spurge	Scarce	Scattered	Dry sandy soils, clay soils along roadsides and open ground. Its occurrence in the Model Forest is at the northern limit of its range (Scoggan 1978)
Fraxinus nigra	Black ash	Common	Widespread	Wet to moist soils of low ground, river valleys and lakeshores
Galinsoga ciliata	Galinsoga	Scarce	Local	Disturbed ground, roadsides
Galium aparine	Cleavers	Scarce	Local	Thickets and shores in the southern quarter of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range (Scoggan 1978)
Gentiana linearis var. rubricaulis	Closed gentian	Scarce	Scattered	Wet organic soils in swamp birch thickets, wet soils in willow/alder thicket. Its occurrence in the Model Forest at or near the northern limit of its
Gentianella crinata ssp. procera	Fringed gentian	Scarce	Local	Moist soil along roadside
Geranium carolinianum	Carolina wild geranium	Scarce	Local	Rock outcrop in the southern half of the Model Forest
Gerardia tenuiflora var. parviflora	Slender agalinis	Scarce	Local	Dry soils of open ground and open forest, occasionally muddy ground. Its occurrence in the Model Forest is at the northern limit of its range (Scoggan 1978)
Geum rivale	Purple avens	Common	Local	Marshes, wet open ground in the southern half of the Model Forest
Glyceria canadensis var. canadensis	Rattlesnake- grass	Scarce to common	Scattered	Shores of lakes and ponds in the eastern half of the Model Forest. Its occurrence in the Model Forest is at the northwest limit of its range. Manitoba
Grindelia squarrosa var. quasiperennis	Gumweed	Common	Local	Roadsides in the southwestern quadrant of the Model Forest
Gypsophila paniculata	Baby's breath	Common	Local	Dry sandy soils along roadside in the southwestern quadrant of the Model Forest. Introduced (Eurasia).
Helianthemum bicknellii	Frostweed	Common	Scattered	Dry sandy soils in clearings in jack pine forest in the southwestern quadrant of the Model Forest. Its occurrence in the Model Forest is at the north
Helianthus tuberosus var. subcanescens	Jerusalem artichoke	Scarce	Local	Long Lake area. Introduced (s U.S.A. and Tropical America)
Heliopsis helianthoides	Ox-eye	Scarce	Local	Dry sandy soils at forest edge
Hudsonia tomentosa	Beach-heath	Scarce to common	Scattered	Loose sandy soils, often in open jack pine forest. Its occurrence in the northeastern quadrant of the Model Forest is a northern extension of its range
Humulus Iupulus	Common hop	Scarce	Local	Low thicket in disturbed open ground
Iva xanthifolia	Marsh-elder	Scarce	Local	Roadsides, streambanks in the southwestern quadrant of the Model Forest. Introduced (w U.S.A.) WIN.
Lactuca canadensis var. Iongifolia	Tall yellow lettuce	Scarce	Local	Willow fen in northern third of the Model Forest
Leesia oryzoides	Rice-cutgrass	Common	Local	marshes in the southern half of the Model Forest
Liatris punctata	Dotted blazingstar			Sandy soils in open jack pine forest. Reported from Victoria Beach. This location is at the northern limit of its range. Gst. Map record at WIN.
Lobelia cardinalis	Cardinal Flower			Collected from a roadside ditch north of Lac du Bonnet in the 1930's. A plant of shores, stream and river banks. Its range extends from Minnesota to Michigan to southern Ontario, Quebec, New Brunswick and southwards to Texas and Florida (Scoggan 1978)
Lotus corniculatus	Birdsfoot-trefoil	Scarce	Widespread	Roadsides of highways and well-travelled gravel roads
Lychnis chalcedonica	Maltese-cross	Scarce	Scattered	Roadsides, thickets in the southern half of the Model Forest. A garden-escape. Introduced (Asia). WIN.
	Bog club-moss	Common	Local	Moist sandy margin of water-filled depression, surrounded by open willow thicket in the east-central part of the Model Forest
Lycopodium lucidulum	Shining club-	Scarce	Scattered	Moist soils of deciduous and mixed forest in the southern half of the

	moss			Model Forest
Lycopodium tristachyum	Ground-cedar	Scarce	Scattered	Dry sandy soils of open jack pine forest
Lythrum salicaria	Purple loosestrife	Common	Scattered	Observed in the southwestern quadrant of the Model Forest for a number of years along wet ditches from Patricia Beach to Grand Beach Provincial Park
Malaxis unifolia	Green adder's- mouth	Scarce to common	Scattered	Dry soils in trembling aspen-white spruce forest, open sphagnous bogs, sandy pond margins. Its occurrence in the Model Forest is at or near the northern limit of its range
Medicago sativa	Alfalfa	Common	Scattered	Roadsides, disturbed ground in the southern half of the Model Forest. Cultivated in the agricultural area of the Model Forest. Introduced (Eurasia).
Mirabilis nytaginea	Heart-leaved umbrellawort	Scarce	Local	Dry sandy soils in open ground
Monarda fistulosa	Wild bergamot			Dry soils in clearings, thickets and open forest. Its occurrence in the Model Forest is at the northern limit of its range. Hpr.
Muhlenbergia racemosa	Marsh muhly	Scarce	Scattered	Sandy soil in open jack pine forest
Myriophyllum farwellii	Farwell watermilfoil	Scarce	Local	Stream with organic substrate covering bedrock in the southeastern corner of the Model Forest. Its occurrence in the Model Forest is a northwestern extension of its range
Nymphaea odorata ssp. odorata	Fragrant water- lily	Scarce	Local	Shallow water with sandy substrate in a lake in Nopiming Provincial Park in the east central area of the Model Forest (see Hutchison 1986)
Nymphaea odorata ssp. tuberosa	Magnolia water- lily	Scarce	Local	lake in the southeastern quadrant of the Model Forest. Its occurrence in the Model Forest is a northern extension of its range (Barker and Barkley
Onoclea sensibilis	Sensitive fern	Common	Widespread	Wet to moist soils of open deciduous forest
Opuntia fragilis	Brittle prickly- pear	Common to abundant	Scattered	Shallow organic soils in crevices in south-facing rock outcrops along rivers, 3-4 m above the water line (Frego and Staniforth 1986). The occurrence
Osmorhiza claytonii	Sweet cicely	Scarce	Local	Moist soils in deciduous forest at the southern border of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range
Osmunda claytoniana	Interrupted fern	Scarce	Widespread	Moist soils of coniferous forest
Ostrya virginiana	Ironwood	Scarce	Local	Fresh soils in deciduous forest at the southern border of the Model Forest. Its occurrence there is at the northern limit of its range. Manitoba rar
Panicum depauperatum var. depauperatum	Depauperate panic grass	Common	Local	Thin, dry soils among rock outcrops in open jack pine forest. Its occurrence in the Model Forest is at the northern limit of its range (Scoggan 1978)
Panicum depauperatum var. psilophyllum	Depauperate panic grass	Common	Widespread	Sandy soils in open mature jack pine forest, sandy soils in jack pine regeneration after fire, thin soils among rock outcrops. Its occurrence in the
Panicum lanuginosum	Soft millet	Common	Scattered	Sandy soils in mature jack pine forest
Panicum lanuginosum var. implicatum	Soft millet	Common	Scattered	Thin, dry soils among rock outcrops in open mixed forest
Panicum lanuginosum var. septentrionale	Soft millet	Common	Scattered	Sandy soils in open mature jack pine forest, sandy soils in jack pine regeneration after fire. Its occurrence in the Model Forest is at the northern limits of its range
Panicum leibergii	Leiberg's panic grass	Scarce	Scattered	Dry soils of meadows, open forest in the southern half of the Model Forest
Panicum miliaceum	Millet	Scarce	Local	Waste places
Panicum perlongum	Long-stalked panic grass	Common	Local	Dry soil on slope in open jack pine stand at the edge of a bedrock knoll. Its occurrence in the Model Forest is at the northern limit of its range.
Panicum xanthophysum	Yellow panic grass	Common	Widespread	Rock outcrops, sandy soils of mature jack pine forest
Parnassia glauca	Glaucous grass- of-Parnassus	Scarce	Local	Moist to wet calcareous soils in the southwestern quadrant of the Manitoba Model Forest.
Parthenocissus inserta	Large-toothed Virginia creeper	Common	Local	Moist soils of thickets in the southern third of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range (Scoggan 1978)
Parthenocissus quinquefolia	Virginia creeper	Scarce	Scattered	Moist soils of thickets and deciduous forest in the southwestern quadrant of the Model Forest
Pastinaca sativa	Parsnip	Scarce	Scattered	Roadsides and disturbed ground
Pedicularis canadensis	Wood-betony	Common	Local	Sandy and gravelly soils of thickets at the southern edge of the Model Forest. Its occurrence in the Model Forest is at the northern limits of its range

5 " / / /				
Pedicularis lanceolata	Swamp lousewort	Scarce	Local	Moist soils at edge of trembling aspen forest
Pinus resinosa	Red pine	Scarce	Local	Well-drained sandy soils.
Polygonatum biflorum	Solomon's-seal	Scarce	Local	Dry soils in clearings in deciduous forest in the southern half of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range
Polygonum convolvulus	Wild buckwheat	Scarce	Scattered	Roadsides, thickets, cultivated and disturbed ground in the southern half of the Model Forest
Polygonum sagittatum	Arrow-leaved- tearthumb	Scarce	Scattered	Wet soils in black ash stands, marshes
Polygonum scandens	Climbing false buckwheat	Scarce	Scattered	Moist soils in thickets
Potamogeton obtusifolius	Blunt-leaved pondweed	Scarce	Scattered	Ditches, quiet water of rivers and lakes
Potentilla rivalis	Brook cinquefoil	Scarce	Local	Wet open ground at the southern edge of the Model Forest
Prunus americana	American plum			
Prunus nigra	Canada plum	Scarce	Scattered	Thickets, forest edges in the southern half of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range (Scoggan 1978)
Pteridium aquilinum var. latiusculum	Bracken	Common	Widespread	Roadsides, dry soils of thickets and open forest. This variety is at the northwestern limit of its range (Flora of North America Editorial Committee
Pyrola rotundifolia var. americana	Round-leaved pyrola	Scarce	Scattered	Sandy soils in mature jack pine forest. Its occurrence in the Model Forest is at the northwestern limit of its range. Manitoba rare plant (White and
Rhus glabra	Smooth sumac	Common	Widespread	Open rocky ground. Its occurrence near Bissett on south-facing cliffs is at or near the northern limit of its range (Scoggan 1978, Soper and Heimberg
Sagittaria rigida	Sessile-fruited arrowhead	Scarce	Scattered	Muddy shores and shallow water. Its occurrence in the Model Forest is at the northern limit of its range (Scoggan 1978). Manitoba rare plant (White
Salix amygdaloides	Peach-leaved willow	Common	Scattered	Moist soils along lakeshores and rivers in the southern half of the Model Forest. Its occurrence in the Model Forest is at or near the northern limit of its range
Salix cordata	Heartleaf willow	Common	Local	Sandy shores and dunes along Lake Winnipeg
Salix fragilis	Crack willow			Ornamental willow planted in townsites and shelterbelts. Introduced (Europe).
Salix pseudomonticola	Willow			
Sambucus racemosa	Red-berried	Scarce	Local	Rock outcrops in the southern third of the Model Forest
var. pubens	elder			
Saxifraga virginiensis	Early saxifrage	Scarce	Scattered	Moss covered rocks, wet sands and gravels in the southern half of the Model forest. Its occurrence in the Model Forest is at the northwestern limit of its range
Scirpus fluviatilis	River bulrush	Common to abundant	Scattered	Lakeshores and streams in the southern half of the Model Forest
Secale cereale	Rye	Scarce	Local	Cultivated rye is an occasional escape to roadsides and waste places but rarely becomes established
Sedum hybridum	Stonecrop	Abundant	Local	South-facing rock outcrops in Bissett townsite. Also found growing on rocks by a waterfall at a canoe-only accessible location between Happy and Fry-p
Senecio congestus var. palustris	Marsh-fleabane	Scarce	local but possibly Widespread	Wet meadows near the southern boundary of the Model Forest
Setaria glauca	Foxtail	Scarce	Local	Roadsides waste places
Setaria viridis	Green foxtail	Scarce	Scattered	Roadsides. Introduced (Eurasia).
Silene antirrhina	Sleepy catchfly	Common	Scattered	Sandy soils of open ground and open forest
Sisyrinchium campestre	Blue-eyed grass	Scarce	Local	Among rock outcrops in mixed forest in the southern half of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range
Smilax herbacea var. Iasioneura	Carrion-flower	Scarce	Scattered	Fresh to moist soils in open deciduous forest and thickets in the southern half of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range
Solidago gigantea var. serotina	Late goldenrod	Scarce to common	Widespread	Moist to dry soils along roadsides, edges of deciduous and mixed forests
Solidago spathulata var. neomexicana	Mountain goldenrod			Open ground
Sparganium	Stemless bur-	Scarce to	Widespread	Shallow water of rivers and lakes

chlorocarpum	reed	common		
Sparganium eurycarpum	Broad-fruited bur-reed	Scarce	Local	Shallow water in drainage ditch in the southern half of the Model Forest
Sparganium multipendunculatum	Many stalked bur-reed	Scarce	Scattered	Ponds and lakes
Spiranthes lacera var. lacera	Northern slender ladies'-tresses	Scarce	Widespread	Dry sandy soils of open ground, trail edges
Sporobolus cryptandrus	Sand-drop-seed	Scarce to common	Scattered	Dry sandy soils, often in open jack pine forest in the western half of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range
Stipa spartea	Porcupine grass	Scarce	Local	Dry, sandy soil in open ground in the southwestern quadrant of the Model Forest
Suaeda maritima var. americana	Sea-blite	Common	Scattered	Beaches and mine tailings
Symphoricarpos occidentalis	Wolfberry			Dry soils in open ground and thickets.
Tanacetum vulgare	Common tansy	Scarce	Widespread	Roadsides, rock piles (mine waste). Introduced (Eurasia).
Taxus canadensis	Ground hemlock	Scarce	Scattered	Wet organic soils of black spruce forest in the northern third of the Model Forest. Its occurrence in the Model Forest is at the northwestern limit of its range
Thuja occidentalis	Eastern white cedar	Scarce to common	Scattered	Fresh to wet, mineral and organic soils, often in association with black spruce and tamarack
Torreyochloa pallida var. fernaldii	Torrey's manna grass	Scarce	Local	Mud flats along river in the northeastern quadrant of the Model Forest
Trillium cernuum	Nodding trillium	Scarce	Widespread	Moist soils in deciduous forest Its occurrence in the Model Forest is at the northern limit of its range
Utricularia minor	Lesser bladderwort			Reported by Pip (1977) from a roadside drainage ditch through a black spruce wetland in the north-east quadrant of the Model Forest.
Vaccinium caespitosum	Dwarf bilberry	Scarce	Scattered	Rock outcrops and dry sandy soils in open mature jack pine forest
Verbascum thapsus	Common mullein	Scarce	Scattered	Roadsides in the southern half of the Model Forest. Introduced (Eurasia).
Viburnum lentago	Nannyberry	Scarce to common	Scattered	Moist, usually clay, soils along riverbanks, deciduous and mixed forest. At or near the northern limit of its range in the Model Forest (Scoggan 1978)
Vicia cracca	Tufted vetch	Scarce	Widespread	Roadsides
Viola canadensis var. rugulosa	Western Canada violet	Scarce	Scattered	Moist soils in mixed forest in the southern half of the Model Forest
Viola pubescens	Downy yellow violet	Scarce	Scattered	Moist soils in deciduous forest in the southern half of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range (Scoggan 1978)
Viola sororia	Woolly blue violet	Scarce	Scattered	Sandy and gravelly soils in thickets and loamy soils on south-facing slopes in young aspen forest in the southern half of the Model Forest. Its occur
Xanthium strumarium	Cocklebur	Scarce	Local	Gravel beach, Lake Winnipeg, in the southwestern quadrant of the Model Forest. Its occurrence in the Model Forest is at the northern limit of its range

Source: Science Team Report-LacSeul Upland Summary Technical Report

Table - 07: Wildlife Species list for the Mid-Boreal Lowland

Common Name	Scientific Name
AMPHIBIANS	
CLASS: AMPHIBIA	
ORDER: CAUDATA (Salamanders)	
Mudpuppy	Necturus maculosus
Blue-spotted Salamander ORDER: SALIENTIA (Frogs and Toads	Ambystoma laterale
American Toad	Bufo americanus
Spring Peeper	Hyla crucifer
Gray Treefrog	Hyla versicolor
Cope's Gray Treefrog	Hyla chrysoscelis
Boreal Chorus Frog	Pseudacris triseriata
Wood Frog	Rana sylvatica
Leopard Frog	Rana pipiens
Green Frog	Rana clamitans
Mink Frog	Rana septentrionalis
LIZARDS AND SNAKES	
CLASS: REPTILIA	
ORDER: TESTUDINES (Turtles)	
Common Snapping Turtle	Chelydra serpentina
Western Painted Turtle	Chrysemys picta
ORDER: SQUAMATA (Lizards and Sna	<u>,                                      </u>
Red-sided Garter Snake	Thamnophis sirtalis
Red-bellied Snake	Storeria occipitomaculata
BIRDS ORDER: GAVIIFORMES (Loons)	
Red-throated Loon	Gavia stellata
Common Loon	Gavia immer
ORDER: PODICIPEDIFORMES (Grebes	
Pied-billed Grebe	Podilymbus podiceps
Horned Grebe	Podiceps auritus
Red-necked Grebe	Podiceps grisegena
Eared Grebe	Podiceps nigricollis
Western Grebe	Aechmophorus occidentalis
ORDER: PELECANIFORMES (Pelecans	s)
American White Pelican	Pelicanus erythrorhyncos
Double-crested Cormorant	Phalacrocorax auritus
ORDER: CICONIIFORMES (Herons and	
American Bittern	Botaurus lentiginosus
Least Bittern	Ixobrychus exilis
Great Blue Heron	Ardea herodias
Great Egret	Casmerodius albus
Snowy Egret Little Blue Heron	Egretta thula Egretta caerulea
Tricolored Heron	Egretta tricolor
Green Heron	Butorides virescens
Black-crowned Night-heron	Nycticorax nycticorax
Turkey Vulture	Cathartes aura
ORDER: ANSERIFORMES (Waterfowl)	Caurartee aara
Greater White-fronted Goose	Anser albifrons
Snow Goose	Chen caerulescens
Ross' Goose	Chen rossii
Canada Goose	Branta canadensis
Trumpeter Swan	Cygnus buccinator
Tundra Swan	Cygnus columbianus
Wood Duck	Aix sponsa
Gadwall	Anas strepera
American Wigeon	Anas americana
American Black Duck	Anas rubripes
Mallard	Anas platyrhynchos
Blue-winged Teal	Anas discors
Northern Shoveller	Anas clypeata

Northern Pintail	Anas acuta
Green-winged Teal	Anas crecca
Canvasback	Aythya valisineria
Redhead	Aythya americana
Ring-necked Duck	Aythya collaris
Greater Scaup	Aythya marila
Lesser Scaup	Aythya affinis
Surf Scoter	Melanitta perspicillata
White-winged Scoter	Melanitta fusca
Black Scoter	Melanitta nigra
Oldsquaw	Clangula hyemalis
Bufflehead	Bucephala albeola
Common Goldeneye	Bucephala clangula
Hooded Merganser	Lophodytes cucullatus
Common Merganser	Mergus merganser
Red-breasted Merganser	Mergus serrator
Ruddy Duck	Oxyura jamaicensis
ORDER: FALCONIFORMES (Hawks and	Falcons)
Osprey	Pandion haliaetus
Bald Eagle	Haliaeetus leucocephalus
Northern Harrier	Circus cyaneus
Sharp-shinned Hawk	Accipiter striatus
Cooper's Hawk	Accipiter cooperii
Northern Goshawk	Accipiter gentilis
Broad-winged Hawk	Buteo platypterus
Swainson's Hawk	Buteo swainsoni
Red-tailed Hawk	Buteo jamaicensis
Ferruginous Hawk	Buteo regalis
Rough-legged hawk	Buteo lagopus
Golden Eagle	Aquila chrysaetos
American Kestrel	Falco sparverius
Merlin	Falco columbarius
Gyrfalcon	Falco rusticolus
Peregrine Falcon	Falco peregrinus
Prairie Falcon	Falco mexicanus
ORDER: GALLIFORMES (Gallinaceous B	
Gray Partridge	Perdix perdix
Ring-necked Pheasant	Phasianus colchicus
Ruffed Grouse	Bonasa umbellus
Spruce Grouse	Dendragapus canadensis
Willow Ptarmigan	Lagopus lagopus
Sharp-tailed Grouse	Tympanuchus phasianellus
Greater Prairie Chicken	Tympanuchus cupido
Wild Turkey	Meleagris gallopavo
ORDER: GRUIFORMES (Cranes and Allie	<u>, , , , , , , , , , , , , , , , , , , </u>
Yellow Rail	Coturnicops noveboracensis
King Rail	Rallus elegans
Virginia Rail	Rallus limicola
Sora	Porzana carolina
American Coot	Fulica americana
Sandhill Crane	Grus canadensis
Whooping Crane	Grus americana
ORDER: CHARADRIIFORMES (Shorebire	
Black-bellied Plover	Pluviaws squatarola
American Golden Plover	Pluvialis dominica
Semipalmated Plover	Charadrius semipalmatus
Piping Plover	Charadrius sempaimatus Charadrius melodus
Killdeer	Charadrius meiodus Charadrius vociferus
American Avocet	
	Recurvirostra americana
Greater Yellowlegs	Tringa melanoleuca
Greater Yellowlegs Lesser Yellowlegs	Tringa melanoleuca Tringa flavipes
Greater Yellowlegs Lesser Yellowlegs Solitary Sandpiper	Tringa melanoleuca Tringa flavipes Tringa solitaria
Greater Yellowlegs Lesser Yellowlegs Solitary Sandpiper Willet	Tringa melanoleuca Tringa flavipes Tringa solitaria Catoptrophorus semipalmatus
Greater Yellowlegs Lesser Yellowlegs Solitary Sandpiper	Tringa melanoleuca Tringa flavipes Tringa solitaria

Whimbrel Long-billed Curlew Hudsonian Godwit  Marbled Godwit Red Knot Sanderling Semipalmated Sandpiper Least Sandpiper White-rumped Sandpiper Baird's Sandpiper Pectoral Sandpiper Dunlin Citit Sandpiper Dunlin Citit Sandpiper Dunlin Common Snipe American Woodcock Wilson's Phalarope Red Phalarope Red Phalarope Parasitic Jaeger Long-tailed Jaeger Franklin's Gull Bonaparte's Gull Herring Gull Thayer's Gull California Gull Liceland Gull Claucous Gull Sabine's Gull Caspian Tern Common Tern Arctic Tern Silack Tern CORDER: COLUMBIFORMES (Doves)	lumenius phaeopus lumenius phaeopus lumenius americanus imosa Haemastica imosa fedoa renaria interpres calidris canutus calidris pusilla calidris fuscicollis calidris bairdii calidris melanotos calidris alpina calidris himantopus calidris subruficollis imnodromus griseus imnodromus griseus calilinago gallinago colopax minor chalaropus lobatus chalaropus fulicaria catercorarius parasiticus carus pipixcan carus californicus carus argentatus
Long-billed Curlew Hudsonian Godwit  Marbled Godwit Ruddy Turnstone Red Knot Sanderling Semipalmated Sandpiper Least Sandpiper White-rumped Sandpiper Baird's Sandpiper Pectoral Sandpiper Common Snipe Common Snipe Red-necked Phalarope Red Ph	dumenius americanus imosa Haemastica imosa fedoa renaria interpres calidris canutus calidris pusilla calidris fuscicollis calidris bairdii calidris alpina calidris alpina calidris himantopus calidris himantopus calidris pusilla calidris pusilla calidris bairdii calidris bairdii calidris bairdii calidris bairdii calidris alpina calidris nelanotos calidris alpina calidris pusillo collis calidris pusillo collis calidris pusilo calidris pusilo calidris pusilo calidris pusilo calidris pusilo calidris pusilo calidris pusilla ca
Hudsonian Godwit  Marbled Godwit  Ruddy Turnstone  Red Knot  Sanderling  Semipalmated Sandpiper  Least Sandpiper  White-rumped Sandpiper  Baird's Sandpiper  Common Snipe  Red-necked Phalarope  Red-necked Phalarope  Red Phalarope  Parasitic Jaeger  Long-tailed Jaeger  Franklin's Gull  Bonaparte's Gull  Herring Gull  Liceland Gull  Caspian Tern  Common Tern  Sarderling  Sandpiper  Buff-breasted Sandpiper  American Woodcock  Sompante's Gull  Long-tailed Jaeger  Sompante's Gull  Loalifornia Gull	imosa Haemastica imosa fedoa renaria interpres calidris canutus calidris alba calidris pusilla calidris fuscicollis calidris bairdii calidris alpina calidris alpina calidris himantopus calidris himantopus calidris subruficollis calidris paraiticollis calidris paraiticollis calidris paraiticollis calidris himantopus calidris himantopus calidris paraiticollis calidris himantopus calidris paraiticollis calidris paraiticollis calidris himantopus calidris paraiticollis calidris himantopus calidris himantop
Marbled Godwit         L           Ruddy Turnstone         A           Red Knot         C           Sanderling         C           Semipalmated Sandpiper         C           Least Sandpiper         C           White-rumped Sandpiper         C           Baird's Sandpiper         C           Pectoral Sandpiper         C           Dunlin         C           Stilt Sandpiper         C           Buff-breasted Sandpiper         T           Short-billed Dowitcher         L           Long-billed Dowitcher         L           Common Snipe         G           American Woodcock         S           Wilson's Phalarope         P           Red-necked Phalarope         P           Red Phalarope         P           Parasitic Jaeger         S           Long-tailed Jaeger         S           Franklin's Gull         L           Bonaparte's Gull         L           California Gull         L           Herring Gull         L           Thayer's Gull         L           Leal Gaucous Gull         X           Sabine's Gull         X           Caspian Tern	imosa fedoa renaria interpres calidris canutus calidris pusilla calidris fuscicollis calidris bairdii calidris alpina calidris himantopus calidris himantopus calidris subruficollis calidris himantopus calidris papina calidris himantopus calidris himantopus calidris papina calidris himantopus calidris delivit calidris himantopus calidris himanto
Ruddy Turnstone Red Knot Sanderling Semipalmated Sandpiper Least Sandpiper White-rumped Sandpiper Baird's Sandpiper Pectoral Sandpiper CDunlin Stilt Sandpiper Buff-breasted Sandpiper Short-billed Dowitcher Long-billed Dowitcher Long-billed Dowitcher Long-billed Dowitcher Long-billed Dowitcher Red-necked Phalarope Red Phalarope Parasitic Jaeger Song-tailed Jaeger Franklin's Gull Bonaparte's Gull Ring-billed Gull California Gull Herring Gull Localand Gull Caspian Tern Sommon Tern Srorster's Tern Least Tern Black Tern ORDER: COLUMBIFORMES (Doves)	renaria interpres calidris canutus calidris alba calidris pusilla calidris fuscicollis calidris bairdii calidris alpina calidris alpina calidris himantopus calidris himantopus calidris subruficollis calidris himantopus calidris himantopus calidris himantopus calidris himantopus calidris pusicus calidris himantopus calidris himantopus calidris himantopus calidris pusicus calidris alpina calidris alpina calidris alpina calidris pusicus calidris alpina calidris alpina calidris alpina calidris alpina calidris alpina calidris himantopus calidris himantopus calidris himantopus calidris himantopus calidris himantopus calidris himantopus calidris alpina calidris delawarensis calidris minutilla calidris delawarensis calidris minutilla calidris delawarensis calidris alba calidris alba calidris alba calidris pusilla calidris minutilla calidris minu
Red Knot Sanderling Semipalmated Sandpiper Least Sandpiper White-rumped Sandpiper Baird's Sandpiper Pectoral Sandpiper CDunlin CStilt Sandpiper Buff-breasted Sandpiper Buff-breasted Sandpiper Common Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Parasitic Jaeger Long-tailed Jaeger Franklin's Gull Bonaparte's Gull Ring-billed Gull California Gull Herring Gull LCalifornia Gull LC	calidris canutus calidris alba calidris pusilla calidris fuscicollis calidris bairdii calidris melanotos calidris himantopus c
Sanderling Semipalmated Sandpiper Ceast Sandpiper White-rumped Sandpiper Baird's Sandpiper Pectoral Sandpiper Pectoral Sandpiper Counlin Stilt Sandpiper Countin Countin Stilt Sandpiper Countin Count	calidris alba calidris pusilla calidris pusilla calidris fuscicollis calidris bairdii calidris melanotos calidris alpina calidris himantopus calidris himantopus calidris himantopus calidris subruficollis calidris himantopus ca
Semipalmated Sandpiper Least Sandpiper White-rumped Sandpiper Baird's Sandpiper Pectoral Sandpiper Dunlin Stilt Sandpiper Buff-breasted Sandpiper Short-billed Dowitcher Long-billed Dowitcher Red-necked Phalarope Red-necked Phalarope Parasitic Jaeger Schong-tailed Jaeger Franklin's Gull Bonaparte's Gull Licalifornia Gull Licalifornia Gull Liceland Gull Liceland Gull Caspian Tern Sabine's Gull Sabine's Gull Sabine's Gull Sabine's Gull Sabine's Gull Liceland Gull Caspian Tern Sommon Tern Srorster's Tern Least Tern Black Tern ORDER: COLUMBIFORMES (Doves)	calidris pusilla calidris minutilla calidris fuscicollis calidris bairdii calidris alpina calidris himantopus callinago gallinago calilinago gallinago calilinago gallinago calidriago calidris himantopus calidris himantopus calidris scolor calidris himantopus calidris scolor calidris parasiticus calidris parasiticus calidris parasiticus calidris parasiticus calidris parasiticus calidris parasiticus calidris delawarensis calidris delawarensis calidris delawarensis calidris minutilla calidris fuscicollis calidris bairdii calidris himantopus calidris
Least Sandpiper White-rumped Sandpiper Baird's Sandpiper Pectoral Sandpiper CDunlin Stilt Sandpiper Buff-breasted Sandpiper Common Snipe Common Snipe Competition Sull Bonaparte's Gull Bonaparte's Gull California Gull Herring Gull Cladacous Gull Sabine's Gull Sabine's Gull Sabine's Gull Caspian Tern Common Tern Arctic Tern Sorber: Columbiformes (Doves)	calidris minutilla calidris fuscicollis calidris fuscicollis calidris bairdii calidris melanotos calidris alpina calidris himantopus calidris subruficollis calidris subruficollis calidris subruficolor calidris qualinago calidris ricolor calidris alpina calidris ricolor calidris alpina calidris ricolor calidris alpina calidris alpina calidris ricolor calidris alpina calidris calidris alpina calidris ca
White-rumped Sandpiper Baird's Sandpiper Pectoral Sandpiper Dunlin Stilt Sandpiper Buff-breasted Sandpiper Short-billed Dowitcher Long-billed Dowitcher Long-billed Dowitcher Common Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Parasitic Jaeger Long-tailed Jaeger Schong-tailed Jaeger Franklin's Gull Bonaparte's Gull Ring-billed Gull California Gull Herring Gull Loland Gull Cleland Gull Cleland Gull Caspian Tern Sommon Tern Sarctic Tern Sorster's Tern Least Tern Sorber: Columbiformes (Doves)	calidris fuscicollis calidris bairdii calidris melanotos calidris alpina calidris himantopus calidris subruficollis calinago gallinago calinago gallinago calinago gallinago calinago gallinago calidriago calidriag
Baird's Sandpiper Pectoral Sandpiper Dunlin Citilt Sandpiper Buff-breasted Sandpiper Short-billed Dowitcher Long-billed Dowitcher Long-billed Dowitcher Long-billed Dowitcher Common Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red Phalarope Parasitic Jaeger Long-tailed Jaeger Scong-tailed Jaeger Franklin's Gull Bonaparte's Gull Licalifornia Gull Licalifornia Gull Licalifornia Gull Licalid Gull Licali	calidris bairdii calidris melanotos calidris melanotos calidris alpina calidris himantopus cryngites subruficollis cimnodromus griseus calinago gallinago calopax minor chalaropus tricolor chalaropus lobatus chalaropus fulicaria calidris parasiticus calidris parasiticus calidris parasiticus calidris philadelphia calidris californicus californicus calidris melanotos calidris delawarensis calidris alpina calidris melanotos calidris alpina calidris melanotos calidris alpina calidris melanotos calidris alpina calidris melanotos calidris alpina calidris alpina calidris melanotos calidris alpina calidris melanotos calidris alpina calidris alpina calidris melanotos calidris alpina calidris calidris alpina calidris calid
Pectoral Sandpiper Dunlin Ctilt Sandpiper Buff-breasted Sandpiper Short-billed Dowitcher Long-billed Dowitcher Long-billed Dowitcher Common Snipe American Woodcock Wilson's Phalarope Red-necked Phalarope Red-necked Phalarope Parasitic Jaeger Scong-tailed Jaeger Scong-tailed Jaeger Franklin's Gull Bonaparte's Gull Licalifornia Gull Liceland Gull California Gull Liceland Gull Caspian Tern Sabine's Gull Sabine's Gull Caspian Tern Sommon Tern Srotser's Tern Least Tern Slack Tern ORDER: COLUMBIFORMES (Doves)	calidris alpina calidris himantopus calidris scolopaceus calinago gallinago calinago gallinago calinago gallinago calidriago calidria
Dunlin C Stilt Sandpiper C Buff-breasted Sandpiper T Short-billed Dowitcher L Long-billed Dowitcher L Common Snipe G American Woodcock S Wilson's Phalarope P Red-necked Phalarope P Red Phalarope P Parasitic Jaeger S Long-tailed Jaeger S Long-tailed Jaeger S I S Long-tailed Gull L California Gull L Herring Gull L I L Icaland Gull L Icaland Gull L Icaland Gull L Sabine's Gull L Sabine's Gull X Caspian Tern S Common Tern S Arctic Tern S Forster's Tern S Black Tern ORDER: COLUMBIFORMES (Doves)	calidris himantopus fryngites subruficollis fimnodromus griseus fimnodromus scolopaceus fiallinago gallinago ficolopax minor fihalaropus tricolor fihalaropus lobatus fihalaropus fulicaria fitercorarius parasiticus farus pipixcan farus philadelphia farus delawarensis farus californicus farus argentatus
Buff-breasted Sandpiper	ryngites subruficollis imnodromus griseus imnodromus scolopaceus callinago gallinago colopax minor chalaropus tricolor chalaropus lobatus chalaropus fulicaria ctercorarius parasiticus carus pipixcan arus philadelphia arus delawarensis arus californicus arus argentatus
Buff-breasted Sandpiper	ryngites subruficollis imnodromus griseus imnodromus scolopaceus callinago gallinago colopax minor chalaropus tricolor chalaropus lobatus chalaropus fulicaria ctercorarius parasiticus carus pipixcan arus philadelphia arus delawarensis arus californicus arus argentatus
Long-billed Dowitcher         L           Common Snipe         G           American Woodcock         S           Wilson's Phalarope         P           Red-necked Phalarope         P           Red Phalarope         P           Parasitic Jaeger         S           Long-tailed Jaeger         S           Franklin's Gull         L           Bonaparte's Gull         L           California Gull         L           Herring Gull         L           Thayer's Gull         L           Leand Gull         L           Glaucous Gull         L           Sabine's Gull         X           Caspian Tern         S           Common Tern         S           Arctic Tern         S           Forster's Tern         S           Least Tern         S           ORDER: COLUMBIFORMES (Doves)	imnodromus scolopaceus Sallinago gallinago Scolopax minor Schalaropus tricolor Schalaropus lobatus Schalaropus fulicaria Scercorarius parasiticus Scarus pipixcan Sarus philadelphia Sarus delawarensis Sarus californicus Sarus argentatus
Common Snipe         G           American Woodcock         S           Wilson's Phalarope         P           Red-necked Phalarope         P           Red Phalarope         P           Parasitic Jaeger         S           Long-tailed Jaeger         S           Franklin's Gull         L           Bonaparte's Gull         L           California Gull         L           Herring Gull         L           Thayer's Gull         L           Iceland Gull         L           Glaucous Gull         L           Sabine's Gull         X           Caspian Tern         S           Common Tern         S           Arctic Tern         S           Forster's Tern         S           Least Tern         S           ORDER: COLUMBIFORMES (Doves)	Sallinago gallinago Scolopax minor Schalaropus tricolor Schalaropus lobatus Schalaropus fulicaria Scercorarius parasiticus Scarus pipixcan Sarus philadelphia Sarus delawarensis Sarus californicus Sarus argentatus
American Woodcock         S           Wilson's Phalarope         P           Red-necked Phalarope         P           Red Phalarope         P           Parasitic Jaeger         S           Long-tailed Jaeger         S           Franklin's Gull         L           Bonaparte's Gull         L           Ring-billed Gull         L           California Gull         L           Herring Gull         L           Thayer's Gull         L           Iceland Gull         L           Glaucous Gull         L           Sabine's Gull         X           Caspian Tern         S           Common Tern         S           Arctic Tern         S           Forster's Tern         S           Least Tern         S           ORDER: COLUMBIFORMES (Doves)	colopax minor Phalaropus tricolor Phalaropus lobatus Phalaropus fulicaria Percorarius parasiticus Percorarius longicaudus Parus pipixcan Parus philadelphia Parus delawarensis Parus californicus Parus argentatus
Wilson's Phalarope         P           Red-necked Phalarope         P           Red Phalarope         P           Parasitic Jaeger         S           Long-tailed Jaeger         S           Franklin's Gull         L           Bonaparte's Gull         L           Ring-billed Gull         L           California Gull         L           Herring Gull         L           Thayer's Gull         L           Iceland Gull         L           Glaucous Gull         L           Sabine's Gull         X           Caspian Tern         S           Common Tern         S           Arctic Tern         S           Forster's Tern         S           Least Tern         S           ORDER: COLUMBIFORMES (Doves)	Phalaropus tricolor Phalaropus lobatus Phalaropus lobatus Phalaropus fulicaria Percorarius parasiticus Parcorarius longicaudus Parus pipixcan Parus philadelphia Parus delawarensis Parus californicus Parus argentatus
Red-necked Phalarope         P           Red Phalarope         P           Parasitic Jaeger         S           Long-tailed Jaeger         S           Franklin's Gull         L           Bonaparte's Gull         L           Ring-billed Gull         L           California Gull         L           Herring Gull         L           Thayer's Gull         L           Iceland Gull         L           Glaucous Gull         X           Sabine's Gull         X           Caspian Tern         S           Common Tern         S           Arctic Tern         S           Forster's Tern         S           Least Tern         S           ORDER: COLUMBIFORMES (Doves)	Phalaropus lobatus Phalaropus fulicaria Percorarius parasiticus Percorarius longicaudus Percorarius lo
Red Phalarope         P           Parasitic Jaeger         S           Long-tailed Jaeger         S           Franklin's Gull         L           Bonaparte's Gull         L           Ring-billed Gull         L           California Gull         L           Herring Gull         L           Thayer's Gull         L           Iceland Gull         L           Glaucous Gull         X           Sabine's Gull         X           Caspian Tern         S           Common Tern         S           Arctic Tern         S           Forster's Tern         S           Least Tern         S           Black Tern         C           ORDER: COLUMBIFORMES (Doves)	Phalaropus fulicaria Stercorarius parasiticus Stercorarius longicaudus Stercorarius longicaudus Stercorarius longicaudus Stercorarius longicaudus Stercorarius pipixcan Stercorarius philadelphia Stercorarius delawarensis Stercorarius californicus Stercorarius arus argentatus
Parasitic Jaeger         S           Long-tailed Jaeger         S           Franklin's Gull         L           Bonaparte's Gull         L           Ring-billed Gull         L           California Gull         L           Herring Gull         L           Iceland Gull         L           Glaucous Gull         L           Sabine's Gull         X           Caspian Tern         S           Common Tern         S           Arctic Tern         S           Forster's Tern         S           Least Tern         S           Black Tern         C           ORDER: COLUMBIFORMES (Doves)	stercorarius parasiticus stercorarius longicaudus arus pipixcan arus philadelphia arus delawarensis arus californicus arus argentatus
Long-tailed Jaeger	itercorarius longicaudus arus pipixcan arus philadelphia arus delawarensis arus californicus arus argentatus
Franklin's Gull         L           Bonaparte's Gull         L           Ring-billed Gull         L           California Gull         L           Herring Gull         L           Thayer's Gull         L           Iceland Gull         L           Glaucous Gull         X           Sabine's Gull         X           Caspian Tern         S           Common Tern         S           Arctic Tern         S           Forster's Tern         S           Least Tern         S           Black Tern         C           ORDER: COLUMBIFORMES (Doves)	arus pipixcan arus philadelphia arus delawarensis arus californicus arus argentatus
Bonaparte's Gull	arus philadelphia arus delawarensis arus californicus arus argentatus
Ring-billed Gull         L           California Gull         L           Herring Gull         L           Thayer's Gull         L           Iceland Gull         L           Glaucous Gull         X           Sabine's Gull         X           Caspian Tern         S           Common Tern         S           Arctic Tern         S           Forster's Tern         S           Least Tern         S           Black Tern         C           ORDER: COLUMBIFORMES (Doves)	arus delawarensis arus californicus arus argentatus
California Gull         L           Herring Gull         L           Thayer's Gull         L           Iceland Gull         L           Glaucous Gull         X           Sabine's Gull         X           Caspian Tern         S           Common Tern         S           Arctic Tern         S           Forster's Tern         S           Least Tern         S           Black Tern         C           ORDER: COLUMBIFORMES (Doves)	arus californicus arus argentatus
Herring Gull	arus argentatus
Thayer's Gull   L.     Iceland Gull   L.     Glaucous Gull   L.     Sabine's Gull   X.     Caspian Tern   S.     Common Tern   S.     Arctic Tern   S.     Forster's Tern   S.     Least Tern   S.     Black Tern   C.     ORDER: COLUMBIFORMES (Doves)	
Iceland Gull	arus thayeri
Glaucous Gull	arus glaucoides
Sabine's Gull         X           Caspian Tern         S           Common Tern         S           Arctic Tern         S           Forster's Tern         S           Least Tern         S           Black Tern         C           ORDER: COLUMBIFORMES (Doves)	arus hyperboreus
Caspian Tern         S           Common Tern         S           Arctic Tern         S           Forster's Tern         S           Least Tern         S           Black Tern         C           ORDER: COLUMBIFORMES (Doves)	'ema sabini
Common Tern         S           Arctic Tern         S           Forster's Tern         S           Least Tern         S           Black Tern         C           ORDER: COLUMBIFORMES (Doves)	terna caspia
Forster's Tern         S           Least Tern         S           Black Tern         C           ORDER: COLUMBIFORMES (Doves)	terna hirundo
Least Tern         S           Black Tern         C           ORDER: COLUMBIFORMES (Doves)	terna paradisaea
Black Tern C ORDER: COLUMBIFORMES (Doves)	terna forsteri
ORDER: COLUMBIFORMES (Doves)	terna antillarum
` ' .	Chlidonias niger
	Columba livia
3	enaida macroura
	ctopistes migratorius
ORDER: CUCULIFORMES (Cuckoos)	
	coccyzus erythropthalmus
	Coccyzus americanus
ORDER: STRIGIFORMES (Owls)	i da alba
	yto alba
	otus asio
	lubo virginianus lyctea scandiaca
·	iyotea scandiaca Yurnia ulula
	urna ulula thene cunicularia
3	trix varia
	trix nebulosa
	sio otus
	sio flammeus
	egolius funereus
	egolius acadicus
ORDER: CAPRIMULGIFORMES (Goat Suck	egolius acaulcus
Common Nighthawk	<u> </u>
- ' '	<u> </u>
ORDER: APODIFORMES (Swifts and Humn	ers)
Chimney Swift C	ers) Chordeiles minor Caprimulgus vociferus ningbirds)

Buby throated Humminghird	Arabilaahua aalubria
Ruby-throated Hummingbird Rufous Hummingbird	Archilochus colubris Selasphorus rufus
ORDER: CORACIIFORMES (Kingfishers) Belted Kingfisher	Ceryle alcyon
ORDER: PICIFORMES (Woodpeckers)	Ceryle alcyon
Red-headed Woodpecker	Melanerpes erythrocephalus
Red-bellied Woodpecker	Melanerpes carolinus
Yellow-bellied Sapsucker	Sphyrapicus varius
Downy Woodpecker	Picoides pubescens
Hairy Woodpecker	Picoides villosus
Three-toed Woodpecker	Picoides tridactylus
Black-backed Woodpecker	Picoides arctus
Northern Flicker (Yellow-shafted)	Colaptes auratus
Pileated Woodpecker	Dryocopus pileatus
ORDER: PASSERIFORMES (Perching Bi	
Olive-sided Flycatcher	Contopus borealis
Western Wood-pewee	Contopus sordidulus
Eastern Wood-pewee	Contopus virens
Yellow-bellied Flycatcher	Empidonax flaviventris
Alder Flycatcher	Empidonax alnorum
Willow Flycatcher	Empidonax traillii
Least Flycatcher	Empidonax minimus
Eastern Phoebe	Sayornis phoebe
Great Crested Flycatcher	Myiarchus crinitus
Western Kingbird	Tyrannus verticalis
Eastern Kingbird	Tyrannus tyrannus
Scissor-tailed Flycatcher	Tyrannus forficatus
Loggerhead Shrike	Lanius Iudocicianus
Northern Shrike	Lanius excubitor
Yellow-throated Vireo	Vireo flavifrons
Solitary Vireo (*Blue-headed)	Vireo solitarius
Warbling Vireo	Vireo gilvus
Philadelphia Vireo	Vireo philadelphicus
Red-eyed Vireo	Vireo olivaceus
Gray Jay	Perisoreus canadensis
Blue Jay	Cyanocitta cristata
Steller's Jay	Cyanocitta stelleri
Black-billed Magpie	Pica pica
American Crow	Corvus brachyrhynchos
Common Raven	Corvus corax
Horned Lark	Eremophila alpestris
Purple Martin	Progne subis
Tree Swallow	Tachycineta bicolor
Northern Rough-winged Swallow	Stelgidopteryx serripennis
Bank Swallow	Riparia riparia
Cliff Swallow	Petrochelidon pyrrhonota
Barn Swallow	Hirundo rustica
Black-capped Chickadee	Poecile atricapillus
Boreal Chickadee	Poecile hudsonicus
Red-breasted Nuthatch	Sitta canadensis
White-breasted Nuthatch	Sitta carolinensis
Brown Creeper	Certhia americana
House Wren	Troglodytes aedon
Winter Wren	Troglodytes troglodytes
Sedge Wren	Cistothorus platensis
Marsh Wren	Cistothorus palustris
Golden-crowned Kinglet	Regulus satrapa
Ruby-crowned Kinglet	Regulus calendula
Eastern Bluebird	Sialia sialis
Eastern Bluebird Mountain Bluebird	Sialia currucoides
Eastern Bluebird Mountain Bluebird Townsend's Solitaire	Sialia currucoides Myadestes townsendi
Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Sialia currucoides Myadestes townsendi Catharus fuscescens
Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery Gray-cheeked Thrush	Sialia currucoides Myadestes townsendi Catharus fuscescens Catharus minimus
Eastern Bluebird Mountain Bluebird Townsend's Solitaire Veery	Sialia currucoides Myadestes townsendi Catharus fuscescens

Wood Thrush	Hylocicla mustelina
American Robin	Turdus migratorius
Varied Thrush	Ixoreus naevius
Gray Catbird	Dumetella carolinensis
Northern Mockingbird	Mimus polyglottos
Brown Thrasher	Toxostoma rufum
European Starling	Sturnus vulgaris
American Pipit (Water)	Anthus rubescens
Sprague's Pipit	Anthus spragueii
Bohemian Waxwing	Bombycilla garrulus
Cedar Waxwing	Bombycilla cedrorum
Golden-winged Warbler	Vermivora chrysoptera
Tennessee Warbler	Vermivora peregrina
Orange-crowned Warbler	Vermivora celata
Nashville Warbler	Vermivora ruficapilla
Northern Parula	Parula americana
Yellow Warbler	Dendroica petechia
Chestnut-sided Warbler	Dendroica pensylvanica
Magnolia Warbler	Dendroica magnolia
Cape May Warbler	Dendroica tigrina
Black-throated Blue Warbler	Dendroica caerulescens
Yellow-rumped Warbler	Dendroica coronata
Black-throated Green Warbler	Dendroica virens
Blackburnian Warbler	Dendroica fusca
Pine Warbler	Dendroica pinus
Palm Warbler	Dendroica palmarum
Bay-breasted Warbler	Dendroica castanea
Blackpoll Warbler	Dendroica striata
Cerulean Warbler	Dendroica cerulea
Black-and-white Warbler	Mniotilta varia
American Redstart	Setophaga ruticilla
Ovenbird	Seiurus aurocapillus
Northern Waterthrush	Seiurus noveboracensis
Connecticut Warbler	Oporarnis agilis
Mourning Warbler	Oporornis philadelphia
Common Yellowthroat	Geothlypis trichas
Wilson's Warbler	Wilsonia pusilla
Canada Warbler	Wilsonia canadensis
Yellow-breasted Chat	Icteria virens
Scarlet Tanager	Piranga olivacea
Eastern Towhee	Pipilo erythrophthalmus
	Spizella arborea
American Tree Sparrow	
Chipping Sparrow	Spizella passerina
Clay-colored Sparrow	Spizella pallida
Field Sparrow	Spizella pusilla
Vesper Sparrow	Pooecetes gramineus
Lark Sparrow	Chondestes grammacus
Savannah Sparrow	Passerculus sandwichensis
Grasshopper Sparrow	Ammodramus savannarum
Baird's Sparrow	Ammodramus bairdii
LeConte's Sparrow	Ammodramus leconteii
Nelson's Sharp-tailed Sparrow	Ammodramus nelsoni
Fox Sparrow	Passerella iliaca
Song Sparrow	Melospiza melodia
Lincoln's Sparrow	Melospiza lincolnii
Swamp Sparrow	Melospiza georgiana
White-throated Sparrow	Zonotrichia albicollis
Harris' Sparrow	Zonotrichia querula
White-crowned Sparrow	Zonotrichia leucophrys
Golden-crowned Sparrow	Zonotrichia atricapilla
Dark-eyed Junco	Junco hyemalis
Lapland Longspur	Calcarius lapponicus
Smith's Longspur	Calcarius pictus
Chestnut-collared Longspur	Calcarius ornatus
Offication Condition Longspan	

	1
Northern Cardinal	Cardinalis cardinalis
Rose-breasted Grosbeak	Pheucticus Iudovicianus
Blue Grosbeak	Guiraca caerulea
Lazuli Bunting	Passerian amoena
Indigo Bunting	Passerian cyanea
Dickcissel	Spiza americana
Bobolink	Dolichonyx oryzivorus
Red-winged Blackbird	Agelaius phoeniceus
Eastern Meadowlark	Sturnella magna
Western Meadowlark	Sturnella neglecta
Yellow-headed Blackbird	Xanthocephalus xanthocephalus
Rusty Blackbird	Euphagus carolinus
Brewer's Blackbird	Euphagus cyanocephalus
Common Grackle	Quiscalus quiscula
Brown-headed Cowbird	Molothrus ater
Orchard Oriole  Baltimore Oriole	Icterus spurius
	Icterus galbula Leucosticte lephrocotis
Gray-crowned Rosy-finch Pine Grosbeak	Pinicola enucleator
Purple Finch House Finch	Carpodacus purpureus Carpodacus mexicanus
Red Crossbill	Loxia curvirostra
White-winged Crossbill	Loxia curvirostra Loxia leucoptera
Common Redpoll	Carduelis flammea
Hoary Redpoll	Carduelis liammea  Carduelis hornemanni
Pine Siskin	Carduelis nomemanni Carduelis pinus
American Goldfinch	Carduelis pirius Carduelis tristis
Evening Grosbeak	Coccothraustes vespertinus
House Sparrow	Passer domesticus
MAMMALS	1 asser domesticas
ORDER: INSECTIVORA (Insectivores)	
Masked Shrew	Sorex cinereus
Water Shrew	Sorex palustris
Arctic Shrew	Sorex arcticus
Pygmy Shrew	Sorex hoyi
Northern Short-tailed Shrew	Blarina brevicauda
Star-nosed Mole	Condylura cristata
ORDER: CHIROPTERA (Bats)	To array ran a criotata
Little Brown Myotis	Myotis lucifugus
Northern Myotis	Myotis septentrionalis
Silver-haired Bat	Lasionycteris noctivagans
Big Brown Bat	7
0	Eptesicus fuscus
Lastern Red Bat	Eptesicus fuscus Lasiurus borealis
Eastern Red Bat Hoary Bat	Lasiurus borealis
Hoary Bat	•
	Lasiurus borealis Lasiurus cinereus
Hoary Bat ORDER: PRIMATES (Humans) Human	Lasiurus borealis Lasiurus cinereus Homo sapiens
Hoary Bat ORDER: PRIMATES (Humans)	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits)
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Re	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Rands) Snowshoe Hare	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits)
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Rands) Snowshoe Hare White-tailed Jack Rabbit	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Ristricture) Snowshoe Hare White-tailed Jack Rabbit ORDER: RODENTIA (Rodents) Eastern Chipmunk	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus Lepus townsendii
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Range Showshoe Hare White-tailed Jack Rabbit ORDER: RODENTIA (Rodents)	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus Lepus townsendii  Tamias striatus
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Ristricture) Snowshoe Hare White-tailed Jack Rabbit ORDER: RODENTIA (Rodents) Eastern Chipmunk Least Chipmunk	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus Lepus townsendii  Tamias striatus Tamias minimus
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Ristricture) Snowshoe Hare White-tailed Jack Rabbit ORDER: RODENTIA (Rodents) Eastern Chipmunk Least Chipmunk Woodchuck	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus Lepus townsendii  Tamias striatus Tamias minimus Marmota monax
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Ristricture) Snowshoe Hare White-tailed Jack Rabbit ORDER: RODENTIA (Rodents) Eastern Chipmunk Least Chipmunk Woodchuck Richardson's Ground Squirrel	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus Lepus townsendii  Tamias striatus Tamias minimus Marmota monax Spermophilus richardsonii
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Ristricture) Snowshoe Hare White-tailed Jack Rabbit ORDER: RODENTIA (Rodents) Eastern Chipmunk Least Chipmunk Woodchuck Richardson's Ground Squirrel Thirteen-lined Ground Squirrel	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus Lepus townsendii  Tamias striatus Tamias minimus Marmota monax Spermophilus richardsonii Spermophilus tridecemlineatus
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Ristricture) Snowshoe Hare White-tailed Jack Rabbit ORDER: RODENTIA (Rodents) Eastern Chipmunk Least Chipmunk Woodchuck Richardson's Ground Squirrel Thirteen-lined Ground Squirrel Franklin's Ground Squirrel	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus Lepus townsendii  Tamias striatus Tamias minimus Marmota monax Spermophilus richardsonii Spermophilus tridecemlineatus Spermophilus franklinii
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Ristriction Showshoe Hare White-tailed Jack Rabbit ORDER: RODENTIA (Rodents) Eastern Chipmunk Least Chipmunk Woodchuck Richardson's Ground Squirrel Thirteen-lined Ground Squirrel Franklin's Ground Squirrel Gray or Black Squirrel	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus Lepus townsendii  Tamias striatus Tamias minimus Marmota monax Spermophilus richardsonii Spermophilus franklinii Sciurus carolinensis
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Ristricture) Snowshoe Hare White-tailed Jack Rabbit ORDER: RODENTIA (Rodents) Eastern Chipmunk Least Chipmunk Woodchuck Richardson's Ground Squirrel Thirteen-lined Ground Squirrel Franklin's Ground Squirrel Gray or Black Squirrel Fox Squirrel	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus Lepus townsendii  Tamias striatus Tamias minimus Marmota monax Spermophilus richardsonii Spermophilus tridecemlineatus Spermophilus franklinii Sciurus carolinensis Sciurus niger
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Risconsisted Showshoe Hare White-tailed Jack Rabbit ORDER: RODENTIA (Rodents) Eastern Chipmunk Least Chipmunk Woodchuck Richardson's Ground Squirrel Thirteen-lined Ground Squirrel Franklin's Ground Squirrel Gray or Black Squirrel Fox Squirrel Red Squirrel Northern Flying Squirrel	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus Lepus townsendii  Tamias striatus Tamias minimus Marmota monax Spermophilus richardsonii Spermophilus franklinii Sciurus carolinensis Sciurus niger Tamiasciurus hudsonicus
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Riscons) Snowshoe Hare White-tailed Jack Rabbit ORDER: RODENTIA (Rodents) Eastern Chipmunk Least Chipmunk Woodchuck Richardson's Ground Squirrel Thirteen-lined Ground Squirrel Franklin's Ground Squirrel Gray or Black Squirrel Fox Squirrel Red Squirrel	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus Lepus townsendii  Tamias striatus Tamias minimus Marmota monax Spermophilus richardsonii Spermophilus franklinii Sciurus carolinensis Sciurus niger Tamiasciurus hudsonicus Glaucomys sabrinus
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Riscons) Snowshoe Hare White-tailed Jack Rabbit ORDER: RODENTIA (Rodents) Eastern Chipmunk Least Chipmunk Woodchuck Richardson's Ground Squirrel Thirteen-lined Ground Squirrel Franklin's Ground Squirrel Gray or Black Squirrel Fox Squirrel Red Squirrel Northern Flying Squirrel Northern Pocket Gopher	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus Lepus townsendii  Tamias striatus Tamias minimus Marmota monax Spermophilus richardsonii Spermophilus franklinii Sciurus carolinensis Sciurus niger Tamiasciurus hudsonicus Glaucomys sabrinus Thomomys talpoides
Hoary Bat ORDER: PRIMATES (Humans) Human ORDER: LAGOMORPHA (Hares and Riscons) Snowshoe Hare White-tailed Jack Rabbit ORDER: RODENTIA (Rodents) Eastern Chipmunk Least Chipmunk Woodchuck Richardson's Ground Squirrel Thirteen-lined Ground Squirrel Franklin's Ground Squirrel Gray or Black Squirrel Fox Squirrel Red Squirrel Northern Flying Squirrel Northern Pocket Gopher American Beaver	Lasiurus borealis Lasiurus cinereus  Homo sapiens abbits) Lepus americanus Lepus townsendii  Tamias striatus Tamias minimus Marmota monax Spermophilus richardsonii Spermophilus tridecemlineatus Spermophilus franklinii Sciurus carolinensis Sciurus niger Tamiasciurus hudsonicus Glaucomys sabrinus Thomomys talpoides Castor canadensis

Heather Vole Phenacomys intermedius Muskrat Ondatra zibethicus Meadow Vole Microtus pennsylvanicus Norway Rat Rattus norvegicus House Mouse Muse Muse Izapus hudsonius Woodland Jumping Mouse Napaeozapus insignis American Porcupine Erethizon dorsatum ORDER: CARNIVORA (Carnivores) Coyote Canis latrans Wolf Canis lupus Arctic Fox Alopex lagopus Red Fox Vulpes vulpes Grey Fox Urocyon cinereoargenteus American Black Bear Ursus americanus Grizzly Bear Ursus arctos Raccoon Procyon lotor American Pine Marten Martes americana Fisher Martes pennanti Ermine Mustela erminea Long-tailed Weasel Mustela nivalis American Badger Taxidea taxus Striped Skunk Mephitis mephitis River Otter Lutra canadensis Moose Alces alces American Elk Cervus elaphus	Northern Bog Lemming	Synaptomys borealis
Meadow Vole Microtus pennsylvanicus Norway Rat Rattus norvegicus House Mouse Mus musculus Meadow Jumping Mouse Zapus hudsonius Woodland Jumping Mouse Napaeozapus insignis American Porcupine Erethizon dorsatum ORDER: CARNIVORA (Carnivores) Coyote Canis latrans Wolf Canis lupus Arctic Fox Alopex lagopus Red Fox Urocyon cinereoargenteus American Black Bear Ursus americanus Grizzly Bear Ursus arctos Raccoon Procyon lotor American Pine Marten Martes americana Fisher Martes pennanti Ermine Mustela erminea Long-tailed Weasel Mustela nivalis American Badger Taxidea taxus Striped Skunk Mephitis mephitis River Otter Lutra canadensis Moose Nangier tarandus caribou White-tailed Deer Odocoileus virginianus Moose Moose  Missangia Musteala incolus Mustela rirandus Alces alces	Heather Vole	Phenacomys intermedius
Norway Rat House Mouse Meadow Jumping Mouse Meadow Jumping Mouse More Rethizon dorsatum More Corona Rethizon Martes american Por Martes Pennanti Ermine Martes Wesel Wesel Wesel Wesel Wesel Wasel Was	Muskrat	Ondatra zibethicus
House Mouse  Meadow Jumping Mouse  Zapus hudsonius  Woodland Jumping Mouse  American Porcupine  Erethizon dorsatum  ORDER: CARNIVORA (Carnivores)  Coyote  Canis latrans  Wolf  Canis lupus  Arctic Fox  Alopex lagopus  Red Fox  Vulpes vulpes  Grey Fox  Urocyon cinereoargenteus  American Black Bear  Ursus americanus  Grizzly Bear  Raccoon  Procyon lotor  American Pine Marten  Martes americana  Fisher  Martes pennanti  Ermine  Long-tailed Weasel  Least Weasel  Mustela frenata  Least Weasel  Mustela nivalis  American Badger  Striped Skunk  Mephitis mephitis  River Otter  Lutra canadensis  Monder ARIODACTYLA (Cloven-hoofed Mammals)  Woodland Caribou  White-tailed Deer  Odocoileus virginianus  Moose	Meadow Vole	Microtus pennsylvanicus
Meadow Jumping Mouse Woodland Jumping Mouse Moodland Jumping Mouse American Porcupine  Canis latrans Wolf Canis lupus Arctic Fox Alopex lagopus Red Fox Urcyon cinereoargenteus American Black Bear Grizzly Bear Raccoon American Pine Marten Fisher American Pine Marten Fisher Mustela erminea Long-tailed Weasel Least Weasel Mustela vison Wolverine Gulo gulo American Badger Striped Skunk River Otter Lynx Bobcat Order Moose Moose  Rangifer tarandus caribou Moose  Rangifer tarandus caribou Moose  Rangifer tarandus Moose Alces alces	Norway Rat	Rattus norvegicus
Woodland Jumping Mouse	House Mouse	Mus musculus
American Porcupine	Meadow Jumping Mouse	Zapus hudsonius
ORDER: CARNIVORA (Carnivores)  Coyote	Woodland Jumping Mouse	Napaeozapus insignis
Coyote Canis latrans Wolf Canis lupus Arctic Fox Alopex lagopus Red Fox Vulpes vulpes Grey Fox Urocyon cinereoargenteus American Black Bear Ursus americanus Grizzly Bear Ursus arctos Raccoon Procyon lotor American Pine Marten Martes americana Fisher Martes pennanti Ermine Mustela erminea Long-tailed Weasel Mustela frenata Least Weasel Mustela nivalis American Mink Mustela vison Wolverine Gulo gulo American Badger Taxidea taxus Striped Skunk Mephitis mephitis River Otter Lutra canadensis Montain Lion Felis concolor Lynx Lynx lynx Bobcat Lynx rufus ORDER: ARTIODACTYLA (Cloven-hoofed Mammals) Woodland Caribou Rangifer tarandus caribou White-tailed Deer Odocoileus virginianus Moose	American Porcupine	Erethizon dorsatum
Wolf Canis lupus Arctic Fox Alopex lagopus Red Fox Vulpes wilpes Grey Fox Urocyon cinereoargenteus American Black Bear Ursus americanus Grizzly Bear Ursus arctos Raccoon Procyon lotor American Pine Marten Martes americana Fisher Martes pennanti Ermine Mustela erminea Long-tailed Weasel Mustela frenata Least Weasel Mustela nivalis American Mink Mustela vison Wolverine Gulo gulo American Badger Taxidea taxus Striped Skunk Mephitis mephitis River Otter Lutra canadensis Mountain Lion Felis concolor Lynx Lynx lynx Bobcat Lynx rufus ORDER: ARTIODACTYLA (Cloven-hoofed Mammals) Woodland Caribou Rangifer tarandus caribou White-tailed Deer Odocoileus virginianus Moose	ORDER: CARNIVORA (Carnivores)	
Arctic Fox Red Fox Vulpes vulpes Grey Fox Urocyon cinereoargenteus American Black Bear Ursus americanus Grizzly Bear Ursus arctos Raccoon Procyon lotor American Pine Marten Martes americana Fisher Martes pennanti Ermine Mustela erminea Long-tailed Weasel Mustela nivalis American Mink Mustela vison Wolverine Gulo gulo American Badger Taxidea taxus Striped Skunk Mephitis mephitis River Otter Lutra canadensis Mountain Lion Felis concolor Lynx Bobcat Lynx rufus ORDER: ARTIODACTYLA (Cloven-hoofed Mammals) Woose Moose Alces alces	Coyote	Canis latrans
Red Fox Grey Fox Urocyon cinereoargenteus Ursus americanus Ursus arctos Ursus arctos Raccoon Raccoon Procyon lotor American Pine Marten Martes americana Fisher Martes pennanti Ermine Mustela erminea Long-tailed Weasel Mustela nivalis American Mink Mustela vison Wolverine Gulo gulo American Badger Striped Skunk Mephitis mephitis River Otter Lutra canadensis Mountain Lion Felis concolor Lynx Bobcat Ursus americanus Ursus americanus Martes pennanti Mustela erminea Mustela rivalis Austela nivalis Mustela vison Mustela vison Wustela vison Mustela vison Fullo gulo American Badger Taxidea taxus Striped Skunk Mephitis mephitis River Otter Lutra canadensis Mountain Lion Felis concolor Lynx Lynx Iynx Bobcat Lynx rufus ORDER: ARTIODACTYLA (Cloven-hoofed Mammals) Woodland Caribou Rangifer tarandus caribou White-tailed Deer Odocoileus virginianus Moose	Wolf	Canis lupus
Grey Fox  American Black Bear  Grizzly Bear  Raccoon  Raccoon  American Pine Marten  Fisher  Ermine  Long-tailed Weasel  American Mink  Wolverine  American Badger  Striped Skunk  River Otter  Lynx  Bobcat  CRORDER: ARTIODACTYLA (Cloven-hoofed Mammals)  Wuss arctos  Ursus americanus  Ursus arctos  Wartes pennant  Martes americana  Martes pennanti  Mustela eminea  Mustela eminea  Mustela rivalis  Mustela rivalis  American Mink  Mustela vison  Gulo gulo  American Badger  Taxidea taxus  Striped Skunk  Mephitis mephitis  Lutra canadensis  Mountain Lion  Felis concolor  Lynx  Lynx Iynx  Bobcat  Codocoileus virginianus  Moose  Alces alces	Arctic Fox	Alopex lagopus
American Black Bear Ursus americanus Grizzly Bear Ursus arctos Raccoon Procyon lotor American Pine Marten Martes americana Fisher Martes pennanti Ermine Mustela eminea Long-tailed Weasel Mustela frenata Least Weasel Mustela nivalis American Mink Mustela vison Wolverine Gulo gulo American Badger Taxidea taxus Striped Skunk Mephitis mephitis River Otter Lutra canadensis Mountain Lion Felis concolor Lynx Lynx Iynx Bobcat Lynx rufus  ORDER: ARTIODACTYLA (Cloven-hoofed Mammals) Woodland Caribou Rangifer tarandus caribou White-tailed Deer Odocoileus virginianus Moose	Red Fox	Vulpes vulpes
Grizzly Bear         Ursus arctos           Raccoon         Procyon lotor           American Pine Marten         Martes americana           Fisher         Martes pennanti           Ermine         Mustela erminea           Long-tailed Weasel         Mustela frenata           Least Weasel         Mustela nivalis           American Mink         Mustela vison           Wolverine         Gulo gulo           American Badger         Taxidea taxus           Striped Skunk         Mephitis mephitis           River Otter         Lutra canadensis           Mountain Lion         Felis concolor           Lynx         Lynx lynx           Bobcat         Lynx rufus           ORDER: ARTIODACTYLA (Cloven-hoofed Mammals)           Woodland Caribou         Rangifer tarandus caribou           White-tailed Deer         Odocoileus virginianus           Moose         Alces alces	Grey Fox	Urocyon cinereoargenteus
Raccoon Procyon lotor  American Pine Marten Martes americana  Fisher Martes pennanti  Ermine Mustela erminea  Long-tailed Weasel Mustela frenata  Least Weasel Mustela nivalis  American Mink Mustela vison  Wolverine Gulo gulo  American Badger Taxidea taxus  Striped Skunk Mephitis mephitis  River Otter Lutra canadensis  Mountain Lion Felis concolor  Lynx Dynx ILynx Ilynx  Bobcat Lynx rufus  ORDER: ARTIODACTYLA (Cloven-hoofed Mammals)  Woodland Caribou Rangifer tarandus caribou  White-tailed Deer Odocoileus virginianus  Moose Alces alces	American Black Bear	Ursus americanus
American Pine Marten         Martes americana           Fisher         Martes pennanti           Ermine         Mustela erminea           Long-tailed Weasel         Mustela frenata           Least Weasel         Mustela nivalis           American Mink         Mustela vison           Wolverine         Gulo gulo           American Badger         Taxidea taxus           Striped Skunk         Mephitis mephitis           River Otter         Lutra canadensis           Mountain Lion         Felis concolor           Lynx         Lynx lynx           Bobcat         Lynx rufus           ORDER: ARTIODACTYLA (Cloven-hoofed Mammals)           Woodland Caribou         Rangifer tarandus caribou           White-tailed Deer         Odocoileus virginianus           Moose         Alces alces	Grizzly Bear	Ursus arctos
Fisher Martes pennanti  Ermine Mustela erminea  Long-tailed Weasel Mustela frenata  Least Weasel Mustela nivalis  American Mink Mustela vison  Wolverine Gulo gulo  American Badger Taxidea taxus  Striped Skunk Mephitis mephitis  River Otter Lutra canadensis  Mountain Lion Felis concolor  Lynx Lynx lynx  Bobcat Lynx rufus  ORDER: ARTIODACTYLA (Cloven-hoofed Mammals)  Woodland Caribou Rangifer tarandus caribou  White-tailed Deer Odocoileus virginianus  Moose Alces alces	Raccoon	Procyon lotor
Ermine Mustela erminea  Long-tailed Weasel Mustela frenata  Least Weasel Mustela nivalis  American Mink Mustela vison  Wolverine Gulo gulo  American Badger Taxidea taxus  Striped Skunk Mephitis mephitis  River Otter Lutra canadensis  Mountain Lion Felis concolor  Lynx Lynx lynx  Bobcat Lynx rufus  ORDER: ARTIODACTYLA (Cloven-hoofed Mammals)  Woodland Caribou Rangifer tarandus caribou  White-tailed Deer Odocoileus virginianus  Moose Alces alces	American Pine Marten	Martes americana
Long-tailed Weasel         Mustela frenata           Least Weasel         Mustela nivalis           American Mink         Mustela vison           Wolverine         Gulo gulo           American Badger         Taxidea taxus           Striped Skunk         Mephitis mephitis           River Otter         Lutra canadensis           Mountain Lion         Felis concolor           Lynx         Lynx lynx           Bobcat         Lynx rufus           ORDER: ARTIODACTYLA (Cloven-hoofed Mammals)           Woodland Caribou         Rangifer tarandus caribou           White-tailed Deer         Odocoileus virginianus           Moose         Alces alces	Fisher	Martes pennanti
Least Weasel Mustela nivalis  American Mink Mustela vison  Wolverine Gulo gulo  American Badger Taxidea taxus  Striped Skunk Mephitis mephitis  River Otter Lutra canadensis  Mountain Lion Felis concolor  Lynx Lynx lynx  Bobcat Lynx rufus  ORDER: ARTIODACTYLA (Cloven-hoofed Mammals)  Woodland Caribou Rangifer tarandus caribou  White-tailed Deer Odocoileus virginianus  Moose Alces alces	Ermine	Mustela erminea
American Mink  Wolverine  Gulo gulo  American Badger  Taxidea taxus  Striped Skunk  River Otter  Lutra canadensis  Mountain Lion  Lynx  Lynx lynx  Bobcat  CRDER: ARTIODACTYLA (Cloven-hoofed Mammals)  Woodland Caribou  White-tailed Deer  Moose  Mustela vison  Mephitis mephitis  Lutra canadensis  Relis concolor  Lynx lynx  Lynx lynx  Lynx rufus  ORDER: ARTIODACTYLA (Cloven-hoofed Mammals)  Woodland Caribou  Rangifer tarandus caribou  White-tailed Deer  Odocoileus virginianus  Moose	Long-tailed Weasel	Mustela frenata
Wolverine Gulo gulo American Badger Taxidea taxus Striped Skunk Mephitis mephitis River Otter Lutra canadensis Mountain Lion Felis concolor Lynx Lynx lynx Bobcat Lynx rufus ORDER: ARTIODACTYLA (Cloven-hoofed Mammals) Woodland Caribou Rangifer tarandus caribou White-tailed Deer Odocoileus virginianus Moose Alces alces	Least Weasel	Mustela nivalis
American Badger Taxidea taxus  Striped Skunk Mephitis mephitis River Otter Lutra canadensis  Mountain Lion Felis concolor  Lynx Lynx lynx  Bobcat Lynx rufus  ORDER: ARTIODACTYLA (Cloven-hoofed Mammals)  Woodland Caribou Rangifer tarandus caribou  White-tailed Deer Odocoileus virginianus  Moose Alces alces	American Mink	Mustela vison
Striped Skunk River Otter Lutra canadensis Mountain Lion Felis concolor Lynx Lynx lynx Bobcat Lynx rufus ORDER: ARTIODACTYLA (Cloven-hoofed Mammals) Woodland Caribou Rangifer tarandus caribou White-tailed Deer Odocoileus virginianus Moose Alces alces	Wolverine	Gulo gulo
River Otter  Lutra canadensis  Mountain Lion  Felis concolor  Lynx  Lynx lynx  Bobcat  CRDER: ARTIODACTYLA (Cloven-hoofed Mammals)  Woodland Caribou  White-tailed Deer  Moose  Lutra canadensis  Lynx rufus  Lynx rufus  Rangifer tarandus caribou  Odocoileus virginianus  Moose  Alces alces	American Badger	Taxidea taxus
Mountain Lion Felis concolor  Lynx Lynx lynx  Bobcat Lynx rufus  ORDER: ARTIODACTYLA (Cloven-hoofed Mammals)  Woodland Caribou Rangifer tarandus caribou  White-tailed Deer Odocoileus virginianus  Moose Alces alces	Striped Skunk	
Lynx         Lynx lynx           Bobcat         Lynx rufus           ORDER: ARTIODACTYLA (Cloven-hoofed Mammals)           Woodland Caribou         Rangifer tarandus caribou           White-tailed Deer         Odocoileus virginianus           Moose         Alces alces	River Otter	Lutra canadensis
Bobcat Lynx rufus ORDER: ARTIODACTYLA (Cloven-hoofed Mammals) Woodland Caribou Rangifer tarandus caribou White-tailed Deer Odocoileus virginianus Moose Alces alces	Mountain Lion	Felis concolor
ORDER: ARTIODACTYLA (Cloven-hoofed Mammals)  Woodland Caribou Rangifer tarandus caribou  White-tailed Deer Odocoileus virginianus  Moose Alces alces	Lynx	Lynx lynx
Woodland Caribou Rangifer tarandus caribou White-tailed Deer Odocoileus virginianus Moose Alces alces	Bobcat	Lynx rufus
White-tailed Deer Odocoileus virginianus Moose Alces alces	ORDER: ARTIODACTYLA (Cloven-hoofe	d Mammals)
Moose Alces alces	Woodland Caribou	Rangifer tarandus caribou
Moose Alces alces	White-tailed Deer	Odocoileus virginianus
American Elk Cervus elaphus	Moose	
	American Elk	Cervus elaphus

Source: Science Team Report-LacSeul Upland Summary Technical Report