

Appendix F

Species List

F. Species List

F.1 Lists

The following list and three tables denote the bird, mammal, fish, and plant species known to occur in Arctic National Wildlife Refuge (Arctic Refuge, Refuge).

F.1.1 Birds of Arctic Refuge

A total of 201 bird species have been recorded on Arctic Refuge. This list describes their status and abundance. Many birds migrate outside of the Refuge in the winter, so unless otherwise noted, the information is for spring, summer, or fall. Bird names and taxonomic classification follow American Ornithologists' Union (1998).

F.1.1.1 Definitions of classifications used

Regions of the Refuge

- Coastal Plain – The area between the coast and the Brooks Range. This area is sometimes split into coastal areas (lagoons, barrier islands, and Beaufort Sea) and inland areas (uplands near the foothills of the Brooks Range).
- Brooks Range – The mountains, valleys, and foothills north and south of the Continental Divide.
- South Side – The foothills, taiga, and boreal forest south of the Brooks Range.

Status

- Permanent Resident – Present throughout the year and breeds in the area.
- Summer Resident – Only present from May to September.
- Migrant – Travels through on the way to wintering or breeding areas.
- Breeder – Documented as a breeding species.
- Visitor – Present as a non-breeding species.
- * – Not documented.

Abundance

- Abundant – Very numerous in suitable habitats.
- Common – Very likely to be seen or heard in suitable habitats.
- Fairly Common – Numerous but not always present in suitable habitats.
- Uncommon – Occurs regularly but not always observed because of lower abundance or secretive behaviors.
- Rare – Occurs regularly but in very small numbers so not commonly observed.
- Casual – Beyond its normal range but irregularly observed.
- Accidental – Far from its normal range. Further observations unlikely.

F.1.1.2 List of Birds

GEESE, SWANS, DUCKS (ORDER: Anseriformes FAMILY: Anatidae)

Greater white-fronted goose (*Anser albifrons*) – Common spring/fall migrant and uncommon breeder on coastal plain. Rare migrant in Brooks Range. Common spring migrant on south side.

Snow goose (*Chen caerulescens*) – Common spring migrant, rare summer visitor, and abundant fall migrant on coastal plain. Uncommon spring migrant on south side.

Ross's goose (*Chen rossii*) – Casual spring migrant on coastal plain. Hypothetical fall migrant (*).

Brant (*Branta bernicla*) – Uncommon breeder and common migrant to coast.

Cackling goose (*Branta hutchinsii*; formerly a subspecies of Canada goose) – Common breeder and migrant on coastal plain.

Canada goose (*Branta canadensis*) – Uncommon breeder on south side. Rare migrant in Brooks Range.

Trumpeter swan (*Cygnus buccinators*) – Casual breeder and visitor on coastal plain. Uncommon on south side, where it may breed (*).

Tundra swan (*Cygnus columbianus*) – Common breeder on coastal plain. Uncommon migrant on south side.

Gadwall (*Anas strepera*) – Casual visitor on coastal plain.

Eurasian wigeon (*Anas penelope*) – Casual visitor on coastal plain.

American wigeon (*Anas americana*) – Uncommon migrant on coastal plain. Uncommon in Brooks Range, where it may breed (*). Common breeder on south side.

Mallard (*Anas platyrhynchos*) – Rare breeder on inland coastal plain. Uncommon elsewhere on coastal plain, in Brooks Range, and on south side.

Northern shoveler (*Anas clypeata*) – Uncommon visitor on coastal plain and south side. May breed in these areas (*). Rare visitor in Brooks Range.

Northern pintail (*Anas acuta*) – Common breeder and migrant on coastal plain and on south side. Rare visitor in Brooks Range.

Green-winged teal (*Anas crecca*) – Uncommon breeder on inland coastal plain. Rare breeder and migrant along coast. Common in Brooks Range, where it may breed (*). Uncommon breeder on south side.

Canvasback (*Aythya valisineria*) – Casual visitor on coastal plain and south side.

Redhead (*Aythya americana*) – Casual visitor on south side.

Ring-necked duck (*Aythya collaris*) – Casual visitor in Brooks Range. Likely rare visitor on south side (*).

Greater scaup (*Aythya marila*) – Uncommon migrant and visitor along coast. Rare breeder on inland coastal plain and in Brooks Range. Common visitor on south side.

Lesser scaup (*Aythya affinis*) – Rare breeder and visitor on inland areas of coastal plain. Uncommon breeder in Brooks Range. Common summer resident on south side, where it likely breeds (*).

Steller's eider (*Polysticta stelleri*) – Rare visitor along coast.

Spectacled eider (*Somateria fischeri*) – Rare breeder and uncommon visitor along coast.

King eider (*Somateria spectabilis*) – Fairly common breeder and uncommon migrant along coast.

Common eider (*Somateria mollissima*) – Common breeder on coastal islands. Common migrant along coast.

Harlequin duck (*Histrionicus histrionicus*) – Rare breeder on inland coastal plain. Uncommon breeder in Brooks Range. Rare visitor on south side.

Surf scoter (*Melanitta perspicillata*) – Uncommon migrant along coast. Uncommon on the inland coastal plain and south side. May breed in both areas (*).

White-winged scoter (*Melanitta fusca*) – Rare on inland lakes of coastal plain. Common migrant along coast. Rare visitor in Brooks Range. Common visitor on south side. May breed in all areas (*).

Black scoter (*Melanitta americana*) – Uncommon migrant along coast.

Long-tailed duck (*Clangula hyemalis*) – Common breeder on coastal plain. Abundant fall migrant along coast. Uncommon in Brooks Range, where it may breed (*). Common visitor and uncommon breeder on south side.

Bufflehead (*Bucephala albeola*) – Rare visitor to Brooks Range and south side.

Common goldeneye (*Bucephala clangula*) – Rare visitor to all areas. May breed on south side (*).

Barrow's goldeneye (*Bucephala islandica*) – Casual visitor on south side.

Smew (*Mergellus albellus*) – Accidental visitor on coastal plain.

Common merganser (*Mergus merganser*) – Casual visitor on inland coastal plain and in Brooks Range. Uncommon visitor on south side.

Red-breasted merganser (*Mergus serrator*) – Rare breeder and fairly common migrant on coast. Fairly common breeder on inland coastal plain. Fairly common breeder in Brooks Range. Common on south side, where it may breed (*).

GROUSE, PTARMIGAN (ORDER: Galliformes FAMILY: Phasianidae)

Ruffed grouse (*Bonasa umbellus*) – Rare permanent resident on south side, where it may breed (*).

Spruce grouse (*Falcapennis Canadensis*) – Uncommon permanent resident on south side.

Willow ptarmigan (*Lagopus lagopus*) – Uncommon permanent resident along coast. Common to abundant permanent resident elsewhere on Refuge.

Rock ptarmigan (*Lagopus muta*) – Common permanent resident in all areas of Refuge.

Sharp-tailed grouse (*Tympanuchus phasianellus*) – Annual populations vary. Uncommon permanent resident on south side, where it may breed (*).

LOONS (ORDER: Gaviiformes FAMILY: Gaviidae)

Red-throated loon (*Gavia stellata*) – Fairly common breeder and migrant along coast. Rare breeder in Brooks Range and on south side.

Pacific loon (*Gavia pacifica*) – Common breeder on coastal plain and south side. Common migrant along coast. Uncommon breeder in Brooks Range.

Common loon (*Gavia immer*) – Rare visitor along coast. Rare on south side, where it may breed (*).

Yellow-billed loon (*Gavia adamsii*) – Uncommon migrant to coast. Rare migrant on inland coastal plain. Rare visitor in Brooks Range and rare breeder on larger lakes in this area.

GREBES (ORDER: Podicipediformes FAMILY: Podicipedidae)

Horned grebe (*Podiceps auritus*) – Casual visitor on coastal plain and in Brooks Range. Uncommon on inland coastal plain and south side. May breed in both areas (*).

Red-necked grebe (*Podiceps grisegena*) – Casual visitor on coastal plain and in Brooks Range. Rare on south side, where it may breed (*).

FULMARS, SHEARWATERS (ORDER: Procellariiformes FAMILY: Procellariidae)

Northern fulmar (*Fulmarus glacialis*) – Rare offshore visitor.

Short-tailed shearwater (*Puffinus tenuirostris*) – Rare visitor to coast, mostly offshore.

OSPREY (ORDER: Accipitriformes FAMILY: Pandionidae)

Osprey (*Pandion haliaetus*) – Accidental visitor on coastal plain. Rare visitor in Brooks Range and on south side.

HAWKS, EAGLES, RELATIVES (ORDER: Accipitriformes FAMILY: Accipitridae)

Bald eagle (*Haliaeetus leucocephalus*) – Casual visitor on coastal plain and in Brooks Range. Uncommon breeder on south side.

Northern harrier (*Circus cyaneus*) – Uncommon summer resident on coastal plain. May breed on inland coastal plain (*). Uncommon breeder in Brooks Range. Uncommon visitor on south side.

Sharp-shinned hawk (*Accipiter striatus*) – Casual visitor on coastal plain and in Brooks Range. Uncommon on south side, where it may breed (*).

Northern goshawk (*Accipiter gentilis*) – Casual visitor on inland coastal plain. Uncommon breeder on south side.

Swainson's hawk (*Buteo swainsoni*) – Casual breeder on south side.

Red-tailed hawk (*Buteo jamaicensis*) – Rare visitor on south side, where it may breed (*).

Rough-legged hawk (*Buteo lagopus*) – Rare visitor along coast. Uncommon breeder on inland areas of coastal plain. Uncommon breeder in Brooks Range. Rare breeder on south side.

Golden eagle (*Aquila chrysaetos*) – Fairly common visitor on coastal plain. Rare breeder on inland coastal plain. Fairly common breeder in Brooks Range. Uncommon breeder on south side.

FALCONS (ORDER: Falconiformes FAMILY: Falconidae)

American kestrel (*Falco sparverius*) – Casual visitor on coastal plain. Uncommon breeder in Brooks Range. Common breeder on south side.

Merlin (*Falco columbarius*) – Rare visitor on coastal plain. Uncommon in Brooks Range and on south side. May breed in all areas (*).

Gyr falcon (*Falco rusticolus*) – Uncommon permanent resident on inland coastal plain, in Brooks Range, and on south side. Rare visitor to coast.

Peregrine falcon (*Falco peregrines*) – Rare breeder and uncommon visitor on coastal plain. Fairly common breeder in Brooks Range and on south side.

COOTS, RAILS (ORDER: Gruiformes FAMILY: Rallidae)

American coot (*Fulica americana*) – Rare visitor on south side.

CRANES (ORDER: Gruiformes FAMILY: Gruidae)

Sandhill crane (*Grus Canadensis*) – Rare breeder and uncommon summer resident on coastal plain. Rare visitor in Brooks Range. Uncommon on south side, where it may breed (*).

PLOVERS, LAPWINGS (ORDER: Charadriiformes FAMILY: Charadriidae)

Black-bellied plover (*Pluvialis squatarola*) – Rare breeder and migrant on coastal plain. Fairly common fall migrant along coast. Rare visitor in Brooks Range.

American golden-plover (*Pluvialis dominica*) – Common breeder on coastal plain and in Brooks Range. Rare visitor on south side.

Semipalmated plover (*Charadrius semipalmatus*) – Uncommon breeder on coastal islands. Fairly common breeder on inland coastal plain. Rare visitor elsewhere on coastal plain. Common breeder in Brooks Range and on south side.

Killdeer (*Charadrius vociferous*) – Casual visitor on coastal plain.

Eurasian dotterel (*Charadrius morinellus*) – Casual visitor on coastal plain.

SHOREBIRDS (ORDER: Charadriiformes FAMILY: Scolopacidae)

Spotted sandpiper (*Actitis macularius*) – Uncommon breeder on inland coastal plain. Common breeder in Brooks Range and on south side.

Solitary sandpiper (*Tringa solitaria*) – Rare in Brooks Range, where it may breed (*). Uncommon breeder on south side.

Wandering tattler (*Tringa incana*) – Uncommon breeder on inland coastal plain. Common breeder in Brooks Range. Fairly common breeder on south side.

Lesser yellowlegs (*Tringa flavipes*) – Casual visitor along coast. Uncommon in Brooks Range, where it may breed (*). Common breeder on south side.

Upland sandpiper (*Bartramia longicauda*) – Fairly common breeder on inland coastal plain, in Brooks Range, and on south side.

Whimbrel (*Numenius phaeopus*) – Uncommon visitor to coast and in Brooks Range. Rare breeder on inland coastal plain. Rare visitor and breeder on south side.

Black-tailed godwit (*Limosa limosa*) – Accidental visitor to coast.

Hudsonian godwit (*Limosa haemastica*) – Casual visitor on coastal plain.

Bar-tailed godwit (*Limosa lapponica*) – Uncommon on coastal plain, where it may breed (*).

Ruddy turnstone (*Arenaria interpres*) – Fairly common breeder on coast and uncommon breeder on inland coastal plain. Rare visitor in Brooks Range.

Surfbird (*Aphriza virgata*) – Rare breeder in Brooks Range.

Red knot (*Calidris canutus*) – Rare migrant along coast.

Sanderling (*Calidris alba*) – Rare breeder on coastal plain. Rare spring and uncommon fall migrant along coast. Casual visitor on south side.

Semipalmated sandpiper (*Calidris pusilla*) – Abundant breeder in coastal areas and common breeder on inland coastal plain. Common fall migrant along coast. Rare visitor in Brooks Range and on south side.

Western sandpiper (*Calidris mauri*) – Rare on coastal plain, where it may breed (*). Uncommon fall migrant along coast.

Red-necked stint (*Calidris ruficollis*) – Casual visitor on coast.

Least sandpiper (*Calidris minutilla*) – Rare visitor on coastal plain. Uncommon breeder in Brooks Range. Common breeder on south side.

White-rumped sandpiper (*Calidris fuscicollis*) – Rare breeder and spring migrant, and uncommon fall migrant, on coastal plain. Casual visitor on south side.

Baird's sandpiper (*Calidris bairdii*) – Uncommon breeder on coastal plain and in Brooks Range. Common migrant on south side.

Pectoral sandpiper (*Calidris melanotos*) – Abundant breeder on coastal plain. Abundant fall migrant along coast. Fairly common migrant in Brooks Range and on south side.

Sharp-tailed sandpiper (*Calidris acuminata*) – Casual migrant on coast.

Dunlin (*Calidris alpina*) – Uncommon breeder and fall migrant along coast. Rare migrant on south side.

Stilt sandpiper (*Calidris himantopus*) – Uncommon breeder and fall migrant on coastal plain.

Buff-breasted sandpiper (*Tryngites subruficollis*) – Uncommon breeder and migrant on coastal plain.

Ruff (*Philomachus pugnax*) – Casual visitor on coastal plain.

Long-billed dowitcher (*Limnodromus scolopaceus*) – Uncommon breeder and fairly common summer visitor on coastal plain. Common fall migrant along coast. Uncommon migrant on south side.

Wilson's snipe (*Gallinago delicata*) – Rare visitor on coastal plain. Fairly common in Brooks Range. May breed in both these areas (*). Common breeder on south side.

Wilson's phalarope (*Phalaropus tricolor*) – Accidental visitor on coastal plain and in Brooks Range.

Red-necked phalarope (*Phalaropus lobatus*) – Common breeder on coastal plain and south side. Common to abundant fall migrant along coast. Uncommon breeder in Brooks Range.

Red phalarope (*Phalaropus fulicarius*) – Fairly common breeder in coastal areas, east to Jago delta. Uncommon elsewhere on coastal plain. Uncommon fall migrant along coast.

GULLS, TERNS (ORDER: Charadriiformes FAMILY: Laridae)

Black-legged kittiwake (*Rissa tridactyla*) – Rare visitor along coast, mostly offshore.

Ivory gull (*Pagophila eburnean*) – Rare migrant along coast.

Sabine's gull (*Xema sabini*) – Uncommon breeder and migrant along coast.

Bonaparte's gull (*Chroicocephalus philadelphia*) – Casual visitor on coastal plain and in Brooks Range. Uncommon visitor on south side, where it may breed (*).

Ross' gull (*Rhodostethia rosea*) – Rare migrant along coast.

Mew gull (*Larus canus*) – Rare visitor and breeder on coastal plain. Common breeder in Brooks Range and on south side.

Herring gull (*Larus argentatus*) – Rare migrant and visitor on coastal plain and in Brooks Range. Uncommon breeder on south side.

Thayer's gull (*Larus thayeri*) – Rare visitor on coastal plain.

Slaty-backed gull (*Larus schistisagus*) – Casual visitor along coast.

Glaucous-winged gull (*Larus glaucescens*) – Casual visitor in Brooks Range and on the coast.

Glaucous gull (*Larus hyperboreus*) – Common breeder and abundant summer resident along coast. Uncommon breeder on inland coastal plain. Common breeder in Brooks Range.

Caspian tern (*Hydroprogne caspia*) – Accidental visitor on the coast.

Arctic tern (*Sterna paradisaea*) – Uncommon breeder on coast. Rare breeder on inland coastal plain. Common summer resident on coastal plain and Brooks Range (breeding not documented). Uncommon visitor on south side.

JAEGERS (ORDER: Charadriiformes FAMILY: Stercorariidae)

Pomarine jaeger (*Stercorarius pomarinus*) – Common spring migrant, summer visitor, and occasional common breeder on coast. Breeding occurs in years of high lemming populations. Common migrant in Brooks Range.

Parasitic jaeger (*Stercorarius parasiticus*) – Common summer resident and uncommon breeder on coastal plain and in Brooks Range. Uncommon migrant on south side, where it may breed (*).

Long-tailed jaeger (*Stercorarius longicaudus*) – Fairly common breeder on inland coastal plain. Common summer resident and rare breeder along coast. Uncommon breeder in Brooks Range. Rare visitor to south side.

ALCIDS (ORDER: Charadriiformes FAMILY: Alcidae)

Thick-billed murre (*Uria lomvia*) – Rare migrant along coast.

Black guillemot (*Cepphus grylle*) – Uncommon summer resident and rare breeder along coast.

Least auklet (*Aethia pusilla*) – Casual visitor along coast.

Horned puffin (*Fratercula corniculata*) – Rare visitor along coast.

Tufted puffin (*Fratercula cirrhata*) – Casual visitor along coast.

OWLS (ORDER: Strigiformes FAMILY: Strigidae)

Great horned owl (*Bubo virginianus*) – Uncommon permanent resident on south side, where it may breed (*).

Snowy owl (*Bubo scandiacus*) – Annual populations vary. Common to occasional rare breeder on coastal plain. Breeding occurs in years of high lemming populations. Rare visitor in Brooks Range.

Northern hawk-owl (*Surnia ulula*) – Uncommon permanent resident on south side.

Great grey owl (*Strix nebulosa*) – Rare permanent resident on south side, where it may breed (*).

Short-eared owl (*Asio flammeus*) – Uncommon to common breeder on coastal plain. Breeding occurs in years of high lemming populations. Fairly common in Brooks Range. Rare summer visitor on south side, where it may breed (*).

Boreal owl (*Aegolius funereus*) – Uncommon permanent resident on south side, where it may breed (*).

GOATSUCKERS (ORDER: Caprimulgiformes FAMILY: Caprimulgidae)

Common nighthawk (*Chordeiles minor*) – Casual visitor on coastal plain.

HUMMINGBIRDS (ORDER: Apodiformes FAMILY: Trochilidae)

Ruby-throated hummingbird (*Archilochus colubris*) – Accidental visitor in Brooks Range.

Rufous hummingbird (*Selasphorus rufus*) – Accidental visitor on coastal plain.

KINGFISHERS (ORDER: Coraciiformes FAMILY: Alcedinidae)

Belted kingfisher (*Megaceryle alcyon*) – Casual visitor on coastal plain. Uncommon summer resident on south side, where it may breed (*).

WOODPECKERS (ORDER: Piciformes FAMILY: Picidae)

Downy woodpecker (*Picoides pubescens*) – Rare permanent resident on south side, where it may breed (*).

Hairy woodpecker (*Picoides villosus*) – Rare permanent resident on south side, where it may breed (*).

American three-toed woodpecker (*Picoides dorsalis*) – Uncommon breeder on south side.

Black-backed woodpecker (*Picoides arcticus*) – Rare permanent resident on south side, where it may breed (*).

Northern flicker (*Colaptes auratus*) – Uncommon breeder in Brooks Range and on south side.

TYRANT FLYCATCHERS (ORDER: Passeriformes FAMILY: Tyrannidae)

Olive-sided flycatcher (*Contopus cooperi*) – Uncommon on south side, where it may breed (*).

Western wood-peewee (*Contopus sordidulus*) – Rare on the south side, where it may breed (*).

Yellow-bellied flycatcher (*Empidonax flaviventris*) – Casual visitor on the south side.

Alder flycatcher (*Empidonax alnorum*) – Common breeder on south side.

Hammond's flycatcher (*Empidonax hammondi*) – Accidental visitor on coastal plain. Uncommon on south side, where it may breed (*).

Eastern phoebe (*Sayornis phoebe*) – Accidental visitor on coastal plain.

Say's phoebe (*Sayornis saya*) – Rare visitor on coastal plain. Fairly common breeder in Brooks Range.

Eastern kingbird (*Tyrannus tyrannus*) – Accidental visitor on coastal plain and in Brooks Range.

SHRIKES (ORDER: Passeriformes FAMILY: Laniidae)

Northern shrike (*Lanius excubitor*) – Rare visitor on inland coastal plain, where it may breed (*). Fairly common breeder in Brooks Range and on south side.

CORVIDS (ORDER: Passeriformes FAMILY: Corvidae)

Gray jay (*Perisoreus canadensis*) – Casual visitor on coastal plain. Uncommon breeder in Brooks Range. Common permanent resident on south side.

Common raven (*Corvus corax*) – Uncommon permanent resident and possible rare breeder (*) on coastal plain. Uncommon permanent resident in Brooks Range and on south side, where it may breed (*).

LARKS (ORDER: Passeriformes FAMILY: Alaudidae)

Horned lark (*Eremophila alpestris*) – Rare breeder inland and visitor elsewhere on coastal plain. Fairly common breeder in Brooks Range. Rare visitor on south side.

SWALLOWS (ORDER: Passeriformes FAMILY: Hirundinidae)

Tree swallow (*Tachycineta bicolor*) – Casual visitor on coastal plain. Uncommon on south side, where it may breed (*).

Violet-green swallow (*Tachycineta thalassina*) – Casual visitor on coastal plain. Uncommon breeder in Brooks Range and on south side.

Bank swallow (*Riparia riparia*) – Casual visitor on coastal plain. Uncommon in Brooks Range and on south side, where it may breed (*).

Cliff swallow (*Petrochelidon pyrrhonota*) – Rare visitor on coastal plain, where it may breed (*). Fairly common breeder in Brooks Range and on south side.

Barn swallow (*Hirundo rustica*) – Casual visitor on coastal plain.

CHICKADEES (ORDER: Passeriformes FAMILY: Paridae)

Black-capped chickadee (*Poecile atricapillus*) – Uncommon permanent resident on south side.

Boreal chickadee (*Poecile hudsonicus*) – Rare visitor in Brooks Range. Uncommon permanent resident on south side.

Gray-headed chickadee (*Poecile cinctus*) – Uncommon permanent resident in Brooks Range and on south side.

NUTHATCHES (ORDER: Passeriformes FAMILY: Sittidae)

Red-breasted nuthatch (*Sitta canadensis*) – Casual visitor on south side.

DIPPERS (ORDER: Passeriformes FAMILY: Cinclidae)

American dipper (*Cinclus mexicanus*) – Uncommon permanent resident throughout Refuge, except along coast.

KINGLETS (ORDER: Passeriformes FAMILY: Regulidae)

Ruby-crowned kinglet (*Regulus calendula*) – Uncommon visitor in Brooks Range. Common breeder on south side.

OLD WORLD WARBLERS (ORDER: Passeriformes FAMILY: Phylloscopidae)

Arctic warbler (*Phylloscopus borealis*) – Rare in Brooks Range, where it may breed (*). Uncommon breeder on south side.

THRUSHES, ALLIES (ORDER: Passeriformes FAMILY: Turdidae)

Bluethroat (*Luscinia svecica*) – Rare breeder on inland coastal plain. Rare visitor in Brooks Range.

Northern wheatear (*Oenanthe oenanthe*) – Rare visitor on coastal plain. Uncommon breeder in Brooks Range.

Mountain bluebird (*Sialia currucoides*) – Rare breeder in recent burns on south side.

Townsend's solitaire (*Myadestes townsendi*) – Uncommon visitor in Brooks Range. Uncommon on south side, where it may breed (*).

Gray-cheeked thrush (*Catharus minimus*) – Rare visitor on coastal plain and in Brooks Range. Common breeder on south side.

Swainson's thrush (*Catharus ustulatus*) – Common breeder on south side.

Hermit thrush (*Catharus guttatus*) – Accidental visitor on coastal plain. Uncommon on south side, where it may breed (*).

American robin (*Turdus migratorius*) – Rare visitor to coast. Uncommon breeder on inland coastal plain. Common breeder in Brooks Range. Abundant breeder on south side.

Varied thrush (*Ixoreus naevius*) – Casual visitor on coastal plain and in Brooks Range. Common breeder on south side.

WAGTALIS, PIPITS (ORDER: Passeriformes FAMILY: Motacillidae)

Eastern yellow wagtail (*Motacilla tschutschensis*) – Fairly common breeder on coastal plain. Rare visitor on south side.

American pipit (*Anthus rubescens*) – Rare breeder and uncommon fall migrant on coastal plain. Abundant breeder in Brooks Range.

WAXWINGS (ORDER: Passeriformes FAMILY: Bombycillidae)

Bohemian waxwing (*Bombycilla garrulus*) – Casual visitor in Brooks Range. Fairly common summer resident on south side, where it may breed (*).

Cedar waxwing (*Bombycilla cedrorum*) – Accidental visitor on Coastal Plain.

LONGSPURS, SNOW BUNTINGS (ORDER: Passeriformes FAMILY: Calcariidae)

Lapland longspur (*Calcarius lapponicus*) – Abundant breeder on coastal plain and in Brooks Range. Uncommon migrant on south side.

Smith's longspur (*Calcarius pictus*) – Rare visitor on coastal plain. Fairly common breeder in Brooks Range and on south side.

Snow bunting (*Plectrophenax nivalis*) – Common breeder along coast and in Brooks Range.

WOOD WARBLERS (ORDER: Passeriformes FAMILY: Parulidae)

Tennessee warbler (*Oreothlypis peregrina*) – Casual visitor on the south side.

Orange-crowned warbler (*Oreothlypis celata*) – Casual visitor on coastal plain. Fairly common breeder on south side.

Yellow warbler (*Dendroica petechia*) – Rare visitor to coast. Rare breeder on inland coastal plain. Uncommon breeder in Brooks Range. Fairly common breeder on south side.

Yellow-rumped warbler (*Dendroica coronata*) – Casual visitor on coastal plain. Uncommon in Brooks Range. Common breeder on south side.

Blackpoll warbler (*Dendroica striata*) – Uncommon on south side, where it may breed (*).

Northern waterthrush (*Parkesia noveboracensis*) – Casual visitor on coastal plain. Uncommon on south side, where it may breed (*).

Wilson's warbler (*Wilsonia pusilla*) – Rare visitor on coastal plain and in Brooks Range. Uncommon breeder on south side.

SPARROWS, BUNTINGS (ORDER: Passeriformes FAMILY: Emberizidae)

American tree sparrow (*Spizella arborea*) – Rare visitor to coast. Common breeder on inland coastal plain. Abundant breeder in Brooks Range and on south side.

Chipping sparrow (*Spizella passerina*) – Casual visitor on coastal plain. Rare on south side, where it may breed (*).

Clay-colored sparrow (*Spizella pallida*) – Accidental visitor on coastal plain.

Savannah sparrow (*Passerculus sandwichensis*) – Common breeder on coastal plain, in Brooks Range, and on south side.

Fox sparrow (*Passerella iliaca*) – Rare visitor to coast. Rare breeder on inland coastal plain. Common breeder in Brooks Range and on south side.

Lincoln's sparrow (*Melospiza lincolnii*) – Rare visitor on south side.

White-throated sparrow (*Zonotrichia albicollis*) – Casual visitor on coastal plain.

White-crowned sparrow (*Zonotrichia leucophrys*) – Rare visitor along coast. Uncommon breeder on inland coastal plain. Common breeder in Brooks Range. Abundant breeder on south side.

Golden-crowned sparrow (*Zonotrichia atricapilla*) – Rare in Brooks Range, where it may breed (*). Uncommon breeder on south side.

Dark-eyed junco (*Junco hyemalis*) – Rare visitor on coastal plain. Uncommon breeder in Brooks Range. Abundant breeder on south side.

CARDINALS (ORDER: Passeriformes FAMILY: Cardinalidae)

Western tanager (*Piranga ludoviciana*) – Accidental visitor in Brooks Range.

BLACKBIRDS (ORDER: Passeriformes FAMILY: Icteridae)

Red-winged blackbird (*Agelaius phoeniceus*) – Casual visitor on coastal plain and in Brooks Range.

Rusty blackbird (*Euphagus carolinus*) – Casual visitor on coastal plain. Rare visitor in Brooks Range. Uncommon breeder on south side

Brown-headed cowbird (*Molothrus ater*) – Casual visitor on coastal plain.

FINCHES (ORDER: Passeriformes FAMILY: Fringillidae)

Gray-crowned rosy-finch (*Leucosticte tephrocotis*) – Fairly common breeder in Brooks Range. Uncommon summer resident on south side, where it may breed (*).

Pine grosbeak (*Pinicola enucleator*) – Uncommon permanent resident on south side, where it may breed (*).

White-winged crossbill (*Loxia leucoptera*) – Common permanent resident on south side.

Common redpoll (*Acanthis flammea*) – Common breeder on coastal plain, in Brooks Range, and on south side. Permanent resident on south side.

Hoary redpoll (*Acanthis hornemanni*) – Common breeder on coastal plain, in Brooks Range, and on south side. Permanent resident on south side.

Pine siskin (*Spinus pinus*) – Casual visitor on coastal plain. Rare visitor on south side.

F.1.2 Mammals in Arctic Refuge and Adjacent Waters

Data sources: Bee and Hall 1956, Wilson and Ruff 1999, and MacDonald and Cook 2009. Scientific and common names follow MacDonald and Cook 2009.

Table F-1. Mammals in Arctic Refuge and Adjacent Waters

COMMON NAME	SCIENTIFIC CLASSIFICATION	DISTRIBUTION		STATUS
		Arctic Refuge	World	
SHREWS AND MOLES	Order SORICOMORPHA			
Shrews	Family Soricidae			
Cinereus shrew	<i>Sorex cinereus</i>	Unclear	Arctic America	Common
Pygmy shrew	<i>Sorex hoyi</i>	Unclear	Arctic America	Common
Dusky shrew	<i>Sorex monticolus</i>	Unclear	North America	Common
Tundra shrew	<i>Sorex tundrensis</i>	Unclear	Circumpolar	Common
Barren ground shrew	<i>Sorex ugyunak</i>	Local	Arctic America	Common
Alaska tiny shrew	<i>Sorex yukonicus</i>	Unclear	Alaska	Rare
RODENTS	Order RODENTIA			
Mice, Rats, Voles, and Lemmings	Family Cricetidae (Muridae)			
Collared lemming	<i>Dicrostonyx groenlandicus</i>	Local	Arctic America	Variable
Brown lemming	<i>Lemmus trimucronatus</i>	Wide	North America	Variable
Long-tailed vole	<i>Microtus longicaudus</i>	Unclear	North America	Variable
Singing vole	<i>Microtus miurus</i>	Wide	North America	Variable
Root (tundra) vole	<i>Microtus oeconomus</i>	Wide	Circumpolar	Variable
Meadow vole	<i>Microtus pennsylvanicus</i>	Unclear	North America	Variable
Taiga vole	<i>Microtus xanthognathus</i>	Limited	North America	Variable
Northern red-backed vole	<i>Myodes rutilus</i>	Wide	Circumpolar	Variable
Common muskrat	<i>Ondatra zibethicus</i>	Wide	North America	Common
Northern bog lemming	<i>Synaptomys borealis</i>	Unclear	North America	Variable
Squirrels	Family Sciuridae			
Alaska marmot	<i>Marmota broweri</i>	Limited	North Alaska	Uncommon
Arctic ground squirrel	<i>Spermophilus parryi</i>	Wide	North America	Common
Red squirrel	<i>Tamiasciurus hudsonicus</i>	Local	North America	Uncommon
Porcupines	Family Erethizontidae			
North American porcupine	<i>Erethizon dorsatum</i>	Wide	North America	Common

COMMON NAME	SCIENTIFIC CLASSIFICATION	DISTRIBUTION		STATUS
		Arctic Refuge	World	
Beavers	Family Castoridae			
American beaver	<i>Castor canadensis</i>	Wide	North America	Common
HARES, RABBITS, PIKA	Order LAGOMORPHA			
Hares and Rabbits	Family Leporidae			
Snowshoe hare	<i>Lepus americanus</i>	Wide	North America	Variable
CARNIVORES	Order CARNIVORA			
Weasels	Family Mustelidae			
Wolverine	<i>Gulo gulo</i>	Wide	Circumpolar	Uncommon
North American river otter	<i>Lontra canadensis</i>	Wide	North America	Common
American marten	<i>Martes americana</i>	Wide	North America	Uncommon
Ermine	<i>Mustela erminea</i>	Wide	Circumpolar	Common
Least weasel	<i>Mustela nivalis</i>	Wide	Circumpolar	Uncommon
American mink	<i>Neovison vison</i>	Local	North America	Variable
Cats	Family Felidae			
Canadian lynx	<i>Lynx canadensis</i>	Wide	North America	Variable
Dogs	Family Canidae			
Wolf	<i>Canis lupus</i>	Wide	Circumpolar	Common
Coyote	<i>Canis latrans</i>	Limited	North America	Common
Arctic fox	<i>Vulpes lagopus</i>	Local	Circumpolar	Uncommon
Red Fox	<i>Vulpes vulpes</i>	Wide	Circumpolar	Common
Bears	Family Ursidae			
American black bear	<i>Ursus americanus</i>	Wide	North America	Common
Brown (grizzly) bear	<i>Ursus arctos</i>	Wide	Circumpolar	Common
Polar Bear	<i>Ursus maritimus</i>	Local	Circumpolar	Threatened
Walrus	Family Odobenidae			
Walrus	<i>Odobenus rosmarus</i>	Limited	Circumpolar	Special Concern
Hair seals	Family Phocidae			
Bearded seal	<i>Erignathus barbatus</i>	Limited	Circumpolar	Comon
Spotted seal	<i>Phoca largha</i>	Limited	North America	Common
Ringed seal	<i>Pusa hispida</i>	Limited	Circumpolar	Common

Appendix F: Species List

COMMON NAME	SCIENTIFIC CLASSIFICATION	DISTRIBUTION		STATUS
		Arctic Refuge	World	
WHALES	Order CETACEA			
Right whales	Family Balaenidae			
Bowhead whale	<i>Balaena mysticetus</i>	Limited	North America	Endangered
Gray whales	Family Eschrichtiidae			
Gray whale	<i>Eschrichtius robustus</i>	Limited	North Pacific	Special Concern
Beluga and Narwhal	Family Monodontidae			
Beluga whale	<i>Delphinapterus leucas</i>	Limited	Circumpolar	Common
EVEN-TOED UNGULATES	Order ARTIODACTYLA			
Deer	Family Cervidae			
Moose	<i>Alces americanus</i>	Wide	North America	Common
Caribou	<i>Rangifer tarandus</i>	Wide	Circumpolar	Common
Cows, Sheep, and Goats	Family Bovidae			
Dall's sheep	<i>Ovis dalli</i>	Local	North America	Common
Muskox	<i>Ovibos moschatus</i>	Local	North America	Uncommon
PRIMATES	Order PRIMATES			
Apes and Humans	Family Hominidae			
Humans	<i>Homo sapiens</i>	Limited	Worldwide	Common



F.1.3 Fish of Arctic Refuge

This table includes only those species commonly found in coastal and inland areas. For data sources, refer to the species descriptions in Chapter 4, Section 4.3.5. Life history column contains information on whether a species is found north (N) or south (S) of the Brooks Range, and is freshwater resident (F), anadromous (A), or marine (M).

Table F-2. Fish of Arctic Refuge

ORDER	FAMILY	COMMON NAME	SCIENTIFIC NAME	LIFE HISTORY
Cypriniformes	Catostomidae	Longnose sucker	<i>Catostomus catostomus</i>	S, F
	Cyprinidae	Lake chub	<i>Couesius plumbeus</i>	S, F
Clupeiformes	Clupeidae	Pacific herring	<i>Clupea harengus Pallas</i>	N, M
Esociformes	Esocidae	Northern pike	<i>Esox lucius</i>	S, F
Gadiformes	Gadidae	Arctic cod	<i>Boreogadus saida</i>	N, M
		Saffron cod	<i>Eleginus gracilis</i>	N, M
	Lotidae	Burbot	<i>Lota lota</i>	N and S, F
Gasterosteiformes	Gasterosteidae	Ninespine stickleback	<i>Pungitius pungitius</i>	N, F and A
		Threespine stickleback	<i>Gasterosteus aculeatus</i>	N, M
Osmeriformes	Osmeridae	Capelin	<i>Mallotus villosus</i>	N, M
		Rainbow smelt	<i>Osmerus mordax</i>	N, A
Perciformes	Ammodytidae	Pacific sand lance	<i>Ammodytes hexapterus</i>	N, M
	Stichaeidae	Slender eelblenny	<i>Lumpenus fabricii</i>	N, M
		Stout eelblenny	<i>Lumpenus medius</i>	N, M
	Zoarcidae	Canadian eelpout	<i>Lycodes polaris</i>	N, M
		Pale eelpout	<i>Lycodes pallidus</i>	N, M
		Threespot eelpout	<i>Lycodes rossi</i>	N, M
Percopsiformes	Percopsidae	Trout-perch	<i>Percopsis omiscomaycus</i>	S, F
Petromyzontiformes	Petromyzontidae	Arctic lamprey	<i>Lethenteron camtschaticum</i>	S, A

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ORDER	FAMILY	COMMON NAME	SCIENTIFIC NAME	LIFE HISTORY
Pleuronectiformes	Pleuronectidae	Arctic flounder	<i>Liopsetta glacialis</i>	N, M
Salmoniformes	Salmonidae	Arctic char	<i>Salvelinus alpinus</i>	N and S, F
		Arctic cisco	<i>Coregonus autumnalis</i>	N, A
		Arctic grayling	<i>Thymallus arcticus</i>	N and S, F
		Broad whitefish	<i>Coregonus nasus</i>	N, A and S, F
		Chinook salmon	<i>Oncorhynchus tshawytscha</i>	N and S, A
		Chum salmon	<i>Oncorhynchus keta</i>	N and S, A
		Coho salmon	<i>Oncorhynchus kisutch</i>	N and S, A
		Dolly Varden	<i>Salvelinus malma</i>	N, A
		Humpback whitefish	<i>Coregonus pidschian</i>	N, A and S, F
		Lake trout	<i>Salvelinus namaycush</i>	N and S, F
		Least cisco	<i>Coregonus sardinella</i>	N, A and S, F
		Pink salmon	<i>Oncorhynchus gorbuscha</i>	N, A
		Round whitefish	<i>Prosopium cylindraceum</i>	N and S, F
		Inconnu (sheefish)	<i>Stenodus leucichthys</i>	S, F
		Sockeye Salmon	<i>Oncorhynchus nerka</i>	N, A
Scorpaeniformes	Cottidae	Arctic sculpin	<i>Myoxocephalus scorpioides</i>	N, M
		Arctic staghorn sculpin	<i>Gymnocanthus tricuspis</i>	N, M
		Fourhorn sculpin	<i>Myoxocephalus quadricornis</i>	N, M
		Hamecon	<i>Artediellus scaber</i>	N, M
		Slimy sculpin	<i>Cottus cognatus</i>	N and S, F
		Twohorn sculpin	<i>Icelus bicornis</i>	N, M
	Liparidae	Gelatinous snailfish	<i>Liparis fabricii</i>	N, M
		Kelp snailfish	<i>Liparis tunicatus</i>	N, M

F.1.4 Vascular Plants of Arctic Refuge

List of vascular plants compiled from specimens stored at University of Alaska Fairbanks herbarium, New York Botanical Garden, and Arctic Refuge herbarium. Scientific names follow Integrated Taxonomic Information System (www.itis.gov). A list of nonvascular plant species (mosses, liverworts, lichens) is available from the Arctic Refuge office.

Table F-3. Vascular Plants of Arctic Refuge

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
Apiaceae (Umbelliferae)	Parsley Family	<i>Bupleurum triradiatum</i>
		<i>Cicuta virosa</i>
		<i>Cnidium cnidiifolium</i>
		<i>Heracleum lanatum</i>
Apocynaceae	Dogbane Family	<i>Apocynum androsaemifolium</i>
Aspleniaceae	Spleenwort Family	<i>Asplenium trichomanes-ramosum</i>
Asteraceae (Compositae)	Sunflower Family	<i>Achillea borealis</i>
		<i>Antennaria densifolia</i>
		<i>Antennaria friesiana ssp alaskana</i>
		<i>Antennaria friesiana ssp friesiana</i>
		<i>Antennaria microphylla</i>
		<i>Antennaria monocephala ssp angustata</i>
		<i>Antennaria pulcherrima</i>
		<i>Antennaria rosea</i>
		<i>Arctanthemum arcticum ssp polare</i>
		<i>Arnica alpina</i>
		<i>Arnica angustifolia</i>
		<i>Arnica angustifolia ssp angustifolia</i>
		<i>Arnica griscomii ssp frigida</i>
		<i>Arnica lessingii</i>
		<i>Arnica lessingii ssp lessingii</i>
		<i>Artemisia alaskana</i>
		<i>Artemisia arctica</i>
		<i>Artemisia arctica ssp arctica</i>
		<i>Artemisia borealis</i>
		<i>Artemisia comata</i>
		<i>Artemisia frigida</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Artemisia furcata</i>
		<i>Artemisia glomerata</i>
		<i>Artemisia laciniata</i>
		<i>Artemisia tilesii</i>
		<i>Aster alpinus ssp vierhapperi</i>
		<i>Aster junciformis</i>
		<i>Aster sibiricus</i>
		<i>Bidens cernua</i>
		<i>Chrysanthemum integrifolium</i>
		<i>Crepis elegans</i>
		<i>Crepis nana</i>
		<i>Erigeron acris</i>
		<i>Erigeron arcticus</i>
		<i>Erigeron caespitosus</i>
		<i>Erigeron compositus</i>
		<i>Erigeron elatus</i>
		<i>Erigeron eriocephalus</i>
		<i>Erigeron glabellus</i>
		<i>Erigeron grandiflorus</i>
		<i>Erigeron humilis</i>
		<i>Erigeron mexiae</i>
		<i>Erigeron muirii</i>
		<i>Erigeron ochroleucus</i>
		<i>Erigeron porsildii</i>
		<i>Erigeron purpuratus</i>
		<i>Eurybia merita</i>
		<i>Eurybia pygmaea</i>
		<i>Packera cymbalaria</i>
		<i>Packera hyperborealis</i>
		<i>Packera indecora</i>
		<i>Packera ogotorukensis</i>
		<i>Packera paupercula</i>
		<i>Petasites frigidus</i>
		<i>Petasites frigidus var frigidus</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Petasites sagittatus</i> <i>Saussurea angustifolia</i> <i>Senecio congestus</i> <i>Senecio cymbalaria</i> <i>Senecio lugens</i> <i>Solidago canadensis</i> <i>Solidago decumbens</i> <i>Solidago multiradiata</i> <i>Symphiotrichum pygmaeum</i> <i>Tanacetum bipinnatum</i> ssp <i>huronense</i> <i>Taraxacum alaskanum</i> (T. <i>lyratum</i>) <i>Taraxacum arctica</i> <i>Taraxacum ceratophorum</i> <i>Taraxacum hyparcticum</i> <i>Tephroseris frigida</i> (Senecio <i>atropurpureus</i> ssp <i>frigidus</i>) <i>Tephroseris kjellmanii</i> (Senecio <i>kjellmanii</i>) <i>Tephroseris palustris</i> ssp <i>congesta</i> (Senecio <i>congestus</i>) <i>Tephroseris tundricola</i> (Senecio <i>tundricola</i>) <i>Tephroseris yukonensis</i> (Senecio <i>yukonensis</i>) <i>Townsendia hookeri</i> <i>Tripleurospermum phaeocephalum</i>
Betulaceae	Birch Family	<i>Alnus viridis</i> ssp <i>crispa</i> <i>Betula glandulosa</i> <i>Betula nana</i> <i>Betula nana</i> ssp <i>exilis</i> <i>Betula neoalaskana</i> (B. <i>papyrifera</i>)
Boraginaceae	Borage Family	<i>Eritrichium aretioides</i> <i>Eritrichium chamissonis</i> <i>Eritrichium splendens</i> <i>Lappula myosotis</i> <i>Mertensia maritima</i> <i>Mertensia paniculata</i>

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PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Mertensia paniculata var alaskana</i> <i>Mertensia paniculata var paniculata</i> <i>Myosotis alpestris</i> <i>Myosotis alpestris ssp asiatica</i>
Brassicaceae (Cruciferae)	Mustard Family	<i>Alyssum americanum</i> <i>Arabidopsis mollis</i> <i>Arabis holboellii</i> <i>Arabis lyrata</i> <i>Arabis lyrata ssp kamchatica</i> <i>Barbarea orthoceras</i> <i>Braya bartlettiana</i> <i>Braya glabella</i> <i>Braya purpurascens</i> <i>Cardamine bellidifolia</i> <i>Cardamine digitata</i> <i>Cardamine microphylla</i> <i>Cardamine pratensis</i> <i>Cochlearia officinalis</i> <i>Descurainia sophia</i> <i>Descurainia sophioides</i> <i>Draba alpina</i> <i>Draba arctica</i> <i>Draba cana</i> <i>Draba cinerea</i> <i>Draba corymbosa</i> <i>Draba crassifolia</i> <i>Draba fladnizensis</i> <i>Draba glabella</i> <i>Draba juvenilis</i> <i>Draba lactea</i> <i>Draba lonchocarpa</i> <i>Draba lonchocarpa var lonchocarpa</i> <i>Draba longipes</i> <i>Draba macounii</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Draba nemorosa</i> <i>Draba nivalis</i> <i>Draba palanderiana</i> <i>Draba pilosa</i> <i>Draba ruaxes</i> <i>Draba subcapitata</i> <i>Erysimum asperum</i> var <i>angustatum</i> <i>Erysimum cheiranthoides</i> <i>Erysimum inconspicuum</i> <i>Erysimum pallasii</i> <i>Eutrema edwardsii</i> <i>Halimolobos mollis</i> <i>Lesquerella arctica</i> <i>Lesquerella calderi</i> <i>Parrya nudicaulis</i> ssp <i>interior</i> <i>Parrya nudicaulis</i> ssp <i>nudicaulis</i> <i>Parrya nudicaulis</i> ssp <i>septentrionalis</i> <i>Rorippa barbareaifolia</i> <i>Rorippa palustris</i> <i>Smelowskia borealis</i> <i>Smelowskia calycina</i> <i>Smelowskia calycina</i> var <i>porsildii</i> <i>Thlaspi arcticum</i> <i>Torularia humilis</i>
Campanulaceae	Bluebell Family	<i>Campanula aurita</i> <i>Campanula lasiocarpa</i> <i>Campanula uniflora</i>
Chenopodiaceae	Goosefoot Family	<i>Chenopodium capitatum</i> <i>Chenopodium rubrum</i> <i>Corispermum ochotense</i> <i>Monolepis nuttalliana</i>
Callitrichaceae	Water Starwort Family	<i>Callitriche hermaphroditica</i>
Cornaceae	Dogwood Family	<i>Cornus canadensis</i>

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PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Swida stolonifera</i> (<i>Cornus stolonifera</i>)
Caprifoliaceae	Honeysuckle Family	<i>Linnaea borealis</i> <i>Viburnum edule</i>
Crassulaceae	Stonecrop Family	<i>Rhodiola integrifolia</i> (<i>Sedum rosea</i>)
Caryophyllaceae	Pink Family	<i>Arenaria capillaris</i> <i>Arenaria longipedunculata</i> <i>Cerastium beeringianum</i> <i>Cerastium jenisejense</i> <i>Cerastium maximum</i> <i>Dianthus repens</i> <i>Gastrolychnis affinis</i> <i>Gastrolychnis apetala</i> <i>Gastrolychnis macrosperma</i> <i>Honckenya peploides</i> <i>Minuartia arctica</i> <i>Minuartia biflora</i> <i>Minuartia elegans</i> <i>Minuartia macrocarpa</i> <i>Minuartia obtusiloba</i> <i>Minuartia rossii</i> <i>Minuartia rubella</i> <i>Minuartia yukonensis</i> <i>Moehringia lateriflora</i> <i>Sagina nivalis</i> <i>Silene acaulis</i> <i>Silene repens</i> <i>Stellaria alaskana</i> <i>Stellaria borealis</i> <i>Stellaria borealis ssp borealis</i> <i>Stellaria calycantha</i> <i>Stellaria crassifolia</i> <i>Stellaria edwardsii</i> <i>Stellaria humifusa</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Stellaria laeta</i> <i>Stellaria laxmannii</i> <i>Stellaria longipes</i> <i>Stellaria monantha</i> <i>Stellaria umbellata</i> <i>Wilhelmsia physodes</i>
Cupressaceae	Cypress Family	<i>Juniperus communis</i>
Cyperaceae	Sedge Family	<i>Carex albonigra</i> <i>Carex aquatilis</i> <i>Carex atherodes</i> <i>Carex atratiformis</i> <i>Carex atrofusca</i> <i>Carex atosquama</i> <i>Carex aurea</i> <i>Carex bicolor</i> <i>Carex bigelowii</i> <i>Carex bonanzensis</i> <i>Carex capillaris</i> <i>Carex capitata</i> <i>Carex chordorrhiza</i> <i>Carex concinna</i> <i>Carex diandra</i> <i>Carex dioica</i> <i>Carex disperma</i> <i>Carex duriuscula</i> <i>Carex eburnea</i> <i>Carex filifolia</i> <i>Carex fuliginosa</i> <i>Carex garberi</i> <i>Carex glacialis</i> <i>Carex glareosa var amphigena</i> <i>Carex heleonastes</i> <i>Carex holostoma</i> <i>Carex krausei</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Carex lachenalii</i>
		<i>Carex leptalea</i>
		<i>Carex limosa</i>
		<i>Carex livida</i>
		<i>Carex macloviana</i>
		<i>Carex marina</i>
		<i>Carex maritima</i>
		<i>Carex media</i>
		<i>Carex membranacea</i>
		<i>Carex microchaeta ssp microchaeta</i>
		<i>Carex microglochin</i>
		<i>Carex misandra</i>
		<i>Carex nardina</i>
		<i>Carex obtusata</i>
		<i>Carex petricosa</i>
		<i>Carex petricosa var petricosa</i>
		<i>Carex podocarpa</i>
		<i>Carex praticola</i>
		<i>Carex ramenskii</i>
		<i>Carex rariflora</i>
		<i>Carex rotundata</i>
		<i>Carex rupestris</i>
		<i>Carex saxatilis</i>
		<i>Carex scirpoidea</i>
		<i>Carex stenophylla ssp eleocharis</i>
		<i>Carex subspathacea</i>
		<i>Carex supina</i>
		<i>Carex tenuiflora</i>
		<i>Carex ursina</i>
		<i>Carex utriculata</i>
		<i>Carex vaginata</i>
		<i>Carex williamsii</i>
		<i>Carex xerantica</i>
		<i>Eleocharis acicularis</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Eleocharis palustris</i> <i>Eriophorum angustifolium</i> <i>Eriophorum angustifolium ssp subarcticum</i> <i>Eriophorum brachyantherum</i> <i>Eriophorum callitrix</i> <i>Eriophorum callitrix var pallidus</i> <i>Eriophorum russeolum</i> <i>Eriophorum scheuchzeri</i> <i>Eriophorum triste</i> <i>Eriophorum vaginatum</i> <i>Kobresia myosuroides</i> <i>Kobresia sibirica</i> <i>Kobresia simpliciuscula</i> <i>Trichophorum cespitosum</i>
Diapensiaceae	Diapensia Family	<i>Diapensia lapponica</i> <i>Diapensia lapponica ssp obovata</i>
Dryopteridaceae	Wood Fern Family	<i>Cystopteris fragilis</i> <i>Cystopteris fragilis ssp fragilis</i> <i>Cystopteris montana</i> <i>Dryopteris dilatata</i> <i>Dryopteris fragrans</i> <i>Woodsia alpina</i> <i>Woodsia glabella</i>
Equisetaceae	Horsetail Family	<i>Equisetum arvense</i> <i>Equisetum fluviatile</i> <i>Equisetum palustre</i> <i>Equisetum pratense</i> <i>Equisetum scirpoides</i> <i>Equisetum silvaticum</i> <i>Equisetum variegatum</i>
Ericaceae	Heath Family	<i>Andromeda polifolia</i> <i>Arctostaphylos uva-ursi</i> <i>Arctostaphylos alpina</i>

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PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Arctostaphylos rubra</i> <i>Cassiope tetragona</i> <i>Cassiope tetragona ssp tetragona</i> <i>Chamaedaphne calyculata</i> <i>Ledum groenlandicum</i> <i>Ledum palustre ssp decumbens</i> <i>Loiseleuria procumbens</i> <i>Oxycoccus microcarpus</i> <i>Rhododendron lapponicum</i> <i>Vaccinium uliginosum</i> <i>Vaccinium vitis-idaea</i>
Fabaceae (Leguminosae)	Pea Family	<i>Astragalus aboriginum</i> <i>Astragalus adsurgens</i> <i>Astragalus alpinus</i> <i>Astragalus eucosmus</i> <i>Astragalus nutzotinensis</i> <i>Astragalus polaris</i> <i>Astragalus richardsonii</i> <i>Astragalus sealei</i> <i>Astragalus umbellatus</i> <i>Hedysarum alpinum</i> <i>Hedysarum alpinum ssp americanum</i> <i>Hedysarum mackenzii</i> <i>Lupinus arcticus</i> <i>Oxytropis arctica var arctica</i> <i>Oxytropis arctica var koyukukensis</i> <i>Oxytropis borealis</i> <i>Oxytropis bryophila</i> <i>Oxytropis campestris</i> <i>Oxytropis deflexa</i> <i>Oxytropis deflexa var foliolosa</i> <i>Oxytropis gorodkovii</i> <i>Oxytropis jordalii</i> <i>Oxytropis maydelliana</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Oxytropis mertensiana</i> <i>Oxytropis nigrescens</i> <i>Oxytropis nigrescens ssp pygmaea</i> <i>Oxytropis roaldii</i> <i>Oxytropis scammaniana</i> <i>Oxytropis sordida</i> <i>Oxytropis splendens</i> <i>Oxytropis tananensis</i> <i>Oxytropis varians</i> <i>Oxytropis viscida</i>
Fumariaceae	Earth Smoke Family	<i>Corydalis pauciflora</i> <i>Corydalis sempervirens</i>
Gentianaceae	Gentian Family	<i>Gentiana glauca</i> <i>Gentiana prostrata</i> <i>Gentianella propinqua</i> <i>Lomatogonium rotatum</i> <i>Menyanthes trifoliata</i>
Haloragaceae	Water Milfoil Family	<i>Hippuris tetraphylla</i> <i>Hippuris vulgaris</i> <i>Myriophyllum sibiricum</i> <i>Myriophyllum verticillatum</i>
Hydrophyllaceae	Waterleaf Family	<i>Phacelia sericea</i>
Juncaginaceae	Arrow Grass Family	<i>Triglochin maritimum</i> <i>Triglochin palustris</i>
Juncaceae	Rush Family	<i>Juncus alpinus</i> <i>Juncus arcticus</i> <i>Juncus biglumis</i> <i>Juncus castaneus</i> <i>Juncus triglumis</i> <i>Luzula arctica</i> <i>Luzula arcuata</i> <i>Luzula confusa</i> <i>Luzula kjellmaniana</i>

Appendix F: Species List

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Luzula multiflora</i> <i>Luzula parviflora</i> <i>Luzula spicata</i> <i>Luzula wahlenbergii</i>
Labiatae	Mint family	<i>Mentha arvensis</i>
Liliaceae	Lily Family	<i>Allium schoenoprasum</i> <i>Lloydia serotina</i> <i>Tofieldia coccinea</i> <i>Tofieldia pusilla</i> <i>Zygadenus elegans</i>
Linaceae	Flax Family	<i>Linum lewisii</i> <i>Linum perenne</i>
Lentibulariaceae	Bladderwort Family	<i>Pinguicula villosa</i> <i>Pinguicula vulgaris</i> <i>Utricularia intermedia</i> <i>Utricularia minor</i> <i>Utricularia vulgaris</i>
Lycopodiaceae	Club Moss Family	<i>Huperzia (Lycopodium selago)</i> <i>Lycopodium annotinum</i> <i>Lycopodium annotinum ssp pungens</i>
Nymphaeaceae	Water Lily Family	<i>Nuphar polysepala</i>
Onagraceae	Evening Primrose Family	<i>Epilobium anagallidifolium</i> <i>Epilobium angustifolium</i> <i>Epilobium arcticum</i> <i>Epilobium davuricum</i> <i>Epilobium hornemannii</i> <i>Epilobium latifolium</i> <i>Epilobium palustre</i>
Ophioglossaceae	Adder's-tongue Family	<i>Botrychium lunaria</i>
Orchidaceae	Orchid Family	<i>Amerorchis rotundifolia</i> <i>Corallorrhiza trifida</i> <i>Cypripedium parviflorum</i> <i>Cypripedium passerinum</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Listera borealis</i>
		<i>Platanthera obtusata</i>
Orobanchaceae	Broomrape Family	<i>Boschniakia rossica</i>
Papaveraceae	Poppy Family	<i>Papaver gorodkovii</i>
		<i>Papaver keelei</i>
		<i>Papaver lapponicum</i>
		<i>Papaver lapponicum ssp occidentale</i>
		<i>Papaver macounii</i>
		<i>Papaver macounii ssp discolor</i>
		<i>Papaver mcconnellii</i>
		<i>Papaver nudicaule</i>
		<i>Papaver nudicaule ssp americanum</i>
		<i>Papaver radiculatum</i>
		<i>Papaver walpolei</i>
Pinaceae	Pine Family	<i>Picea glauca</i>
		<i>Picea mariana</i>
Plumbaginaceae	Leadwort Family	<i>Armeria maritima</i>
Polygonaceae	Buckwheat Family	<i>Bistorta plumosa</i>
		<i>Bistorta vivipara</i>
		<i>Eriogonum flavum</i>
		<i>Eriogonum flavum var aquilinum</i>
		<i>Koenigia islandica</i>
		<i>Oxyria digyna</i>
		<i>Polygonum alaskanum</i>
		<i>Polygonum amphibium</i>
		<i>Polygonum aviculare</i>
		<i>Polygonum caurianum</i>
		<i>Polygonum lapathifolium</i>
		<i>Rumex acetosa</i>
		<i>Rumex arcticus</i>
		<i>Rumex salicifolius ssp triangulivalvis</i>
		<i>Rumex sibiricus</i>
Polemoniaceae	Polemonium Family	<i>Collomia linearis</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Phlox alaskensis</i> <i>Phlox hoodii</i> <i>Phlox richardsonii</i> <i>Phlox sibirica</i> <i>Polemonium acutiflorum</i> <i>Polemonium boreale</i> <i>Polemonium boreale ssp boreale</i> <i>Polemonium pulcherrimum</i> <i>Polemonium pulcherrimum ssp lindleyi</i>
Poaceae	Grass Family	<i>Agrostis exarata</i> <i>Agrostis scabra</i> <i>Agrostis stolonifera</i> <i>Alopecurus aequalis</i> <i>Alopecurus alpinus</i> <i>Alopecurus alpinus ssp alpinus</i> <i>Alopecurus pratensis</i> <i>Arctagrostis latifolia</i> <i>Arctagrostis latifolia var arundinacea</i> <i>Arctophila fulva</i> <i>Bromopsis pumpelliana</i> <i>Bromopsis pumpelliana ssp arctica</i> <i>Bromopsis pumpelliana ssp pumpelliana</i> <i>Calamagrostis canadensis</i> <i>Calamagrostis canadensis ssp langsdorffii</i> <i>Calamagrostis deschampsoides</i> <i>Calamagrostis inexpansa</i> <i>Calamagrostis purpurascens</i> <i>Calamagrostis purpurascens ssp purpurascens</i> <i>Colpodium vahlianum</i> <i>Deschampsia brevifolia</i> <i>Deschampsia cespitosa</i> <i>Dupontia fisheri</i> <i>Dupontia fisheri ssp fisheri</i> <i>Dupontia fisheri ssp psilosantha</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Elymus alaskanus ssp alaskanus</i>
		<i>Elymus alaskanus ssp hyperarcticus</i>
		<i>Elymus alaskanus ssp latiglumis</i>
		<i>Elymus macrourus</i>
		<i>Elymus trachycaulus ssp trachycaulus</i>
		<i>Elytrigia spicata</i>
		<i>Festuca altaica</i>
		<i>Festuca baffinensis</i>
		<i>Festuca brachyphylla</i>
		<i>Festuca brevissima</i>
		<i>Festuca lenensis</i>
		<i>Festuca rubra</i>
		<i>Festuca vivipara ssp glabra</i>
		<i>Glyceria maxima ssp grandis</i>
		<i>Hierochloe alpina</i>
		<i>Hierochloe odorata</i>
		<i>Hierochloe pauciflora</i>
		<i>Hordeum jubatum</i>
		<i>Leymus innovatus</i>
		<i>Leymus mollis</i>
		<i>Leymus mollis ssp villosissimus</i>
		<i>Phippsia algida</i>
		<i>Pleuropogon sabinei</i>
		<i>Poa abbreviata ssp pattersonii</i>
		<i>Poa alpina</i>
		<i>Poa arctica</i>
		<i>Poa arctica ssp arctica</i>
		<i>Poa arctica ssp lanata</i>
		<i>Poa glauca</i>
		<i>Poa hartzii</i>
		<i>Poa interior</i>
		<i>Poa paucispicula</i>
		<i>Poa porsildii</i>
		<i>Poa pratensis</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Poa pratensis ssp alpigena</i> <i>Poa pratensis var colpodea</i> <i>Poa pseudoabbreviata</i> <i>Puccinellia andersonii</i> <i>Puccinellia borealis</i> <i>Puccinellia langeana</i> <i>Puccinellia phryganodes</i> <i>Puccinellia vahliana</i> <i>Puccinellia wrightii</i> <i>Trisetum sibiricum ssp litorale</i> <i>Trisetum spicatum</i> <i>Trisetum spicatum ssp spicatum</i>
Portulacaceae	Purslane Family	<i>Claytonia sarmentosa</i> <i>Claytonia tuberosa</i>
Potamogetonaceae	Pondweed Family	<i>Potamogeton alpinus</i> <i>Potamogeton alpinus ssp tenuifolius</i> <i>Potamogeton gramineus</i> <i>Potamogeton praelongus</i> <i>Potamogeton pusillus ssp tenuissimus</i> <i>Potamogeton subsibiricus</i> <i>Stuckenia filiformis</i> <i>Stuckenia filiformis ssp alpina</i> <i>Stuckenia filiformis ssp occidentalis</i> <i>Stuckenia vaginata</i>
Primulaceae	Primrose Family	<i>Androsace chamaejasme</i> <i>Androsace chamaejasme ssp lehmanniana</i> <i>Androsace septentrionalis</i> <i>Dodecatheon frigidum</i> <i>Douglasia arctica</i> <i>Douglasia ochotensis</i> <i>Primula borealis</i> <i>Primula egaliksensis</i> <i>Primula eximia</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
Plantaginaceae	Plantain Family	<i>Plantago canescens</i>
		<i>Plantago major</i>
Pyrolaceae	Wintergreen Family	<i>Moneses uniflora</i>
		<i>Orthilia secunda</i> (<i>Pyrola secunda</i>)
		<i>Pyrola asarifolia</i>
		<i>Pyrola chlorantha</i>
		<i>Pyrola grandiflora</i>
Ranunculaceae	Buttercup Family	<i>Aconitum delphinifolium</i>
		<i>Aconitum delphinifolium</i> ssp <i>paradoxum</i>
		<i>Anemone drummondii</i>
		<i>Anemone multifida</i>
		<i>Anemone parviflora</i>
		<i>Anemone richardsonii</i>
		<i>Caltha palustris</i>
		<i>Caltha palustris</i> ssp <i>arctica</i>
		<i>Delphinium chamissonis</i>
		<i>Delphinium glaucum</i>
		<i>Pulsatilla patens</i>
		<i>Pulsatilla patens</i> ssp <i>multifida</i>
		<i>Ranunculus cymbalaria</i>
		<i>Ranunculus eschscholtzii</i>
		<i>Ranunculus gelidus</i>
		<i>Ranunculus gmelinii</i>
		<i>Ranunculus hyperboreus</i>
		<i>Ranunculus hyperboreus</i> ssp <i>hyperboreus</i>
		<i>Ranunculus nivalis</i>
		<i>Ranunculus pallasii</i>
		<i>Ranunculus pedatifidus</i>
		<i>Ranunculus pedatifidus</i> ssp <i>affinis</i>
		<i>Ranunculus pygmaeus</i>
		<i>Ranunculus pygmaeus</i> ssp <i>pygmaeus</i>
		<i>Ranunculus reptans</i>
		<i>Ranunculus sulphureus</i>
		<i>Ranunculus trichophyllus</i>

Appendix F: Species List

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Ranunculus turneri</i>
		<i>Thalictrum alpinum</i>
Rosaceae	Rose Family	<i>Acomastylis rossii</i> <i>Amelanchier alnifolia</i> <i>Chamaerhodos erecta</i> <i>Comarum palustre (Potentilla palustre)</i> <i>Dryas alaskensis</i> <i>Dryas drummondii</i> <i>Dryas integrifolia</i> <i>Dryas octopetala</i> <i>Geum perincisum</i> <i>Novosieversia glacialis</i> <i>Pentaphylloides floribunda (Potentilla fruticosa)</i> <i>Potentilla anserina</i> <i>Potentilla arenosa</i> <i>Potentilla biflora</i> <i>Potentilla bipinnatifida</i> <i>Potentilla brooksensis</i> <i>Potentilla egedii</i> <i>Potentilla elegans</i> <i>Potentilla hookeriana</i> <i>Potentilla hookeriana ssp chamissonis</i> <i>Potentilla hyparctica</i> <i>Potentilla murrayi</i> <i>Potentilla nivea</i> <i>Potentilla norvegica</i> <i>Potentilla ovina</i> <i>Potentilla pensylvanica</i> <i>Potentilla pulchella</i> <i>Potentilla rubricaulis</i> <i>Potentilla subgorodkovii</i> <i>Potentilla uniflora</i> <i>Potentilla virgulata</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Rosa acicularis</i> <i>Rosa acicularis ssp sayi</i> <i>Rosa woodsii</i> <i>Rubus arcticus</i> <i>Rubus chamaemorus</i> <i>Rubus idaeus</i> <i>Sanguisorba officinalis</i> <i>Spiraea stevenii</i>
Rubiaceae	Madder Family	<i>Galium boreale</i> <i>Galium trifidum</i>
Salicaceae	Willow Family	<i>Populus balsamifera</i> <i>Populus tremuloides</i> <i>Salix alaxensis</i> <i>Salix alaxensis var alaxensis</i> <i>Salix alaxensis var longistylis</i> <i>Salix arbusculoides</i> <i>Salix arctica</i> <i>Salix arctophila</i> <i>Salix barrattiana</i> <i>Salix bebbiana</i> <i>Salix brachycarpa ssp niphoclada</i> <i>Salix candida</i> <i>Salix chamissonis</i> <i>Salix exigua ssp interior</i> <i>Salix fuscescens</i> <i>Salix glauca</i> <i>Salix glauca var acutifolia</i> <i>Salix glauca var glauca</i> <i>Salix hastata</i> <i>Salix lanata</i> <i>Salix niphoclada</i> <i>Salix ovalifolia</i> <i>Salix ovalifolia var glacialis</i> <i>Salix ovalifolia var ovalifolia</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Salix phlebophylla</i> <i>Salix planifolia</i> <i>Salix planifolia ssp pulchra</i> <i>Salix polaris</i> <i>Salix pseudomonticola</i> <i>Salix pseudomyrsinites</i> <i>Salix pulchra</i> <i>Salix reticulata</i> <i>Salix richardsonii</i> <i>Salix rotundifolia</i> <i>Salix rotundifolia ssp rotundifolia</i> <i>Salix scouleriana</i> <i>Salix sphenophylla</i>
Santalaceae	Sandalwood Family	<i>Geocaulon lividum</i>
Saxifragaceae	Saxifrage Family	<i>Boykinia richardsonii</i> <i>Chrysosplenium rosendahlii</i> <i>Chrysosplenium tetrandrum</i> <i>Chrysosplenium wrightii</i> <i>Parnassia kotzebuei</i> <i>Parnassia palustris</i> <i>Ribes hudsonianum</i> <i>Ribes triste</i> <i>Saxifraga arctolitoralis</i> <i>Saxifraga bronchialis</i> <i>Saxifraga bronchialis ssp funstonii</i> <i>Saxifraga caespitosa</i> <i>Saxifraga calycina</i> <i>Saxifraga cernua</i> <i>Saxifraga codyana</i> <i>Saxifraga eschscholtzii</i> <i>Saxifraga flagellaris</i> <i>Saxifraga flagellaris ssp setigera</i> <i>Saxifraga flexuosa</i> <i>Saxifraga foliolosa</i>

PLANT FAMILY – Scientific Name	PLANT FAMILY – Common Name	SPECIES – Scientific Name
		<i>Saxifraga hieraciifolia</i> <i>Saxifraga hirculus</i> <i>Saxifraga hyperborea</i> <i>Saxifraga nelsoniana</i> <i>Saxifraga nivalis</i> <i>Saxifraga oppositifolia</i> <i>Saxifraga razshivinii</i> <i>Saxifraga reflexa</i> <i>Saxifraga rivularis</i> ssp. <i>arctolitoralis</i> <i>Saxifraga serpyllifolia</i> <i>Saxifraga tricuspidata</i>
Scrophulariaceae	Figwort Family	<i>Castilleja annua</i> <i>Castilleja elegans</i> <i>Castilleja hyperborea</i> <i>Castilleja pallida</i> var <i>caudata</i> <i>Lagotis glauca</i> <i>Pedicularis albolabiata</i> <i>Pedicularis capitata</i> <i>Pedicularis labradorica</i> <i>Pedicularis lanata</i> <i>Pedicularis langsdoeffii</i> <i>Pedicularis lapponica</i> <i>Pedicularis oederi</i> <i>Pedicularis parviflora</i> <i>Pedicularis sudetica</i> <i>Pedicularis verticillata</i> <i>Penstemon gormanii</i>
Selaginellaceae	Spikemoss Family	<i>Selaginella sibirica</i>
Sparganiaceae	Bur Reed Family	<i>Sparganium hyperboreum</i>
Typhaceae	Cattail Family	<i>Typha latifolia</i>
Urticaceae	Nettle Family	<i>Urtica dioica</i>
Valerianaceae	Valerian Family	<i>Valeriana capitata</i>
Violaceae	Violet Family	<i>Viola epipsila</i> ssp <i>repens</i>

F.2 References

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