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To: "XT:MPS, Emcon Services Inc TRAN:IN" <emcon1@emconservices.org>
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"Sinclair, Earl WLAP:EX" <Earl.Sinclair@gems9.gov.bc.ca>
Subject: Monck Seed Mix
Date: Thu, 30 Sep 2004 10:44:26 -0700
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Frank,

Here's an acceptable seed mix for use at Monck Park:

Seed	% Weight	% Count
Italian Ryegrass	22	30
Western Wheatgrass	30	20
Bluebunch Wheatgrass	24	20
Slender Wheatgrass	21	20
Hard Fescue	3	10

Seeding Rate: 15-30 lbs/acre

Available from Pickseed Canada ph. 1-877-504-7964 (toll free, Abbotsford)

This mix has been used during the past year in Parks for rehabilitating fire guards, and is also being used by Telus in this area in their reclamation activities so it should be readily available. You may wish to use this same mix for all your seeding around the development.

Rob Enns
Area Supervisor, Fraser Area
Protected Areas Section
Thompson Region
Ministry of Water, Land and Air Protection

% of Park in Unit	Latin Name	Common Name	Abundance			Comments
			Prk	Reg	Prv	
Park: Monck						
BEC: PP xh 2-04						
45	<i>Festuca campestris</i>		o	f	g	
45	<i>Festuca idahoensis</i>	Idaho fescue	r	f	g	
45	<i>Koeleria macrantha</i>	junegrass	o	f	g	
45	<i>Poa secunda</i> (juncifolia type)		r	f	g	
45	<i>Vulpia octoflora</i>	six-weeks fescue	f	f	g	
45	<i>Elymus spicatus</i>		c	c	g	
45	<i>Pseudotsuga menziesii</i>	Douglas-fir	o	c	g	
45	<i>Poa secunda</i>		f	c	g	
45	<i>Carex rossii</i>	Ross' sedge	o	f	g	
45	<i>Tetradymia canescens</i>	gray horsebrush	o	o	g	
45	<i>Shepherdia canadensis</i>	soopolallie	o	f	g	
45	<i>Juniperus scopulorum</i>	Rocky Mountain juniper	o	o	g	
45	<i>Juniperus communis</i>	common juniper	r	f	g	
45	<i>Artemisia tridentata</i>	big sagebrush	f	c	g	
45	<i>Amelanchier alnifolia</i>	saskatoon	f	c	g	
45	<i>Achillea millefolium</i>	yarrow	f	f	g	
45	<i>Chrysothamnus nauseosus</i>	rabbit-brush	c	f	g	
45	<i>Phacelia linearis</i>	thread-leaved phacelia	o	f	g	
45	<i>Epilobium brachycarpum</i>		r	f	g	
45	<i>Stephanomeria tenuifolia</i>	narrow-leaved skeletonweed	f	o	g	
45	<i>Silene antirrhina</i>	sleepy catchfly	o	o	g	
45	<i>Senecio cana</i>		o	o	g	
45	<i>Selaginella wallacei</i>	Wallace's selaginella	f	o	g	

Park/Region Abundance: C=common, F=Frequent, O=occasional, R=rare

Province Abundance: Red=endangered, Blue=threatened, Yellow=management concern, G=not classified

BEC: Biogeoclimatic Ecosystem Classification

*Non-native species

% of Park in Unit	Latin Name	Common Name	Abundance			Comments
			Prk	Reg	Prv	
45	<i>Sedum stenopetalum</i>	worm-leaved stonecrop	o		f	g
48	<i>Bromus inermis</i> ssp. <i>inermis</i>	smooth brome	o			
45	<i>Polygonum douglasii</i>	Douglas' knotweed	o		f	g
48	<i>Bromus tectorum</i>	cheatgrass	o			
45	<i>Phacelia hastata</i>	silverleaf phacelia	o		o	g
45	<i>Penstemon fruticosus</i>	shrubby penstemon	o		f	g
45	<i>Penstemon confertus</i>	yellow penstemon	o		f	g
45	<i>Oxytropis</i> sp.		o			
45	<i>Lithospermum ruderales</i>	lemonweed	o		f	g
45	<i>Gayophytum diffusum</i>		r		o	g
45	<i>Gaillardia aristata</i>	brown-eyed Susan	o		f	g
45	<i>Fragaria virginiana</i>	wild strawberry	o		c	g
45	<i>Erigeron filifolius</i>	thread-leaved fleabane	f		f	g
45	<i>Rosa woodsii</i>	prairie rose	f		c	g
48	<i>Erigeron corymbosus</i>	long-leaved fleabane	r		o	g
48	<i>Zigadenus venenosus</i>	meadow death-camas	o		f	g
48	<i>Tragopogon dubius</i>	yellow salsify	o			
48	<i>Taraxacum officinale</i>	common dandelion	o			
48	<i>Sisymbrium altissimum</i>	tall tumble-mustard	o			
48	<i>Silene menziesii</i>	Menzies' campion	o		o	g
48	<i>Silene douglasii</i>	Douglas' campion	r		o	g
48	<i>Medicago sativa</i>	alfalfa	o			
48	<i>Agropyron cristatum</i>		o			
48	<i>Erigeron subtriplinervis</i>		o		f	g
45	<i>Heterotheca villosa</i>	hairy golden-aster	o		f	g

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48	<i>Centaurea diffusa</i>	diffuse knapweed	o			
48	<i>Astragalus tenellus</i>	pulse milk-vetch	o		o	g
48	<i>Astragalus miser</i>	timber milk-vetch	f		c	g
48	<i>Artemisia dracunculus</i>	tarragon	o		f	g
48	<i>Stipa nelsonii</i>		o		f	g
48	<i>Stipa comata</i>	needle-and-thread grass	o		f	g
48	<i>Poa pratensis</i>	Kentucky bluegrass	o			
48	<i>Poa bulbosa</i>	bulbous bluegrass	r			
48	<i>Elymus repens</i>		r			
48	<i>Lepidium densiflorum</i>	prairie pepper-grass	o			
45	<i>Asclepias speciosa</i>	showy milkweed	r		o	g
45	<i>Descurainia pinnata</i>	western tansymustard	o		f	g
45	<i>Pinus ponderosa</i>	ponderosa pine / yellow pine	c		c	g
45	<i>Mahonia aquifolium</i>	tall Oregon-grape	o		c	g
45	<i>Cirsium undulatum</i>	wavy-leaved thistle	o		f	g
45	<i>Chenopodium fremontii</i>		o		o	g
45	<i>Chaenactis douglasii</i>	hoary false yarrow	o		o	g
45	<i>Allium cernuum</i>	nodding onion	o		f	g
45	<i>Astragalus filipes</i>	threadstalk milk-vetch	f		o	b
45	<i>Delphinium nuttallianum</i>	upland larkspur	o		f	g
45	<i>Atrémisia campestris</i>		o		o	g
45	<i>Arctostaphylos uva-ursi</i>	kinnikinnick	f		c	g
45	<i>Apocynum androsaemifolium</i>	spreading dogbane	f		f	g
45	<i>Arabis sparsiflora</i>	sickle-pod rockcress	o		f	g
45	<i>Arabis holboellii</i>	Holboell's rockcress	o		c	g

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45	<i>Antennaria umbrinella</i>	umber pussytoes	o	f	g	
45	<i>Antennaria parvifolia</i>	Nuttall's pussytoes	r	o	g	
45	<i>Antennaria dimorpha</i>	low pussytoes	o	f	g	
45	<i>Astragalus purshii</i>	woollypod milk-vetch	o	o	g	
45	<i>Crepis atrabarba</i>	slender hawkbeard	o	f	g	
BEC: PP xh 2-L						
5	<i>Salix prolixa</i>		o	f	g	
5	<i>Rosa nutkana</i>	Nootka rose	o	o	g	
5	<i>Rosa woodsii</i>	prairie rose	f	c	g	
5	<i>Populus balsamifera</i> ssp. <i>trichocarpa</i>	black cottonwood	c	c	g	
5	<i>Populus tremuloides</i>	trembling aspen	o	f	g	
5	<i>Alnus tenuifolia</i>		c	c	g	
5	<i>Cornus sericea</i>	red-osier dogwood	f	c	g	
5	<i>Oenothera villosa</i>		o	o	g	
5	<i>Salix lucida</i>		f	f	g	
5	<i>Artemisia ludoviciana</i>	western mugwort	f	f	g	
5	<i>Carex crawfordii</i>	Crawford's sedge	o	o	g	
5	<i>Carex lanuginosa</i>	woolly sedge	o	f	g	
5	<i>Equisetum arvense</i>	common horsetail	o	c	g	
5	<i>Equisetum variegatum</i>	northern scouring-rush	f	f	g	
5	<i>Festuca rubra</i>	red fescue	r			
5	<i>Juncus balticus</i>		o	c	g	
5	<i>Leymus cinereus</i>		o	o	g	
5	<i>Phalaris arundinacea</i>	reed canarygrass	f	c	g	

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				Prk	Reg	Prv	
	5	<i>Poa compressa</i>	Canada bluegrass	o	f	g	
	5	<i>Salix exigua</i>	coyote willow	f	o	g	
	5	<i>Apocynum cannabinum</i>	hemp dogbane	o	o	g	
	5	<i>Rorripa palustris</i>		o	f	g	
BEC: PP xh 2-R							
	2	<i>Shepherdia canadensis</i>	soopolallie	o	f	g	
	2	<i>Anemone multifida</i>		r	o	g	
	2	<i>Arctostaphylos uva-ursi</i>	kinnikinnick	f	c	g	
	2	<i>Artemisia ludoviciana</i>	western mugwort	o	f	g	
	2	<i>Aster conspicuus</i>	showy aster	o	c	g	
	2	<i>Clematis ligusticifolia</i>	white clematis	o	f	g	
	2	<i>Galium boreale</i>	northern bedstraw	o	f	g	
	2	<i>Mahonia aquifolium</i>	tall Oregon-grape	f	c	g	
	2	<i>Mimulus moschatus</i>	musk-flower	r	o	g	
	2	<i>Rosa nutkana</i>	Nootka rose	o	o	g	
	2	<i>Rosa woodsii</i>	prairie rose	o	c	g	
	2	<i>Vicia americana</i>	American vetch	f	f	g	
	2	<i>Amelanchier alnifolia</i>	saskatoon	o	c	g	
	2	<i>populus tremuloides</i>	trembling aspen	o	c	g	
	2	<i>Salix prolixa</i>		r	f	g	
	2	<i>Populus balsamifera ssp. trichocarpa</i>	black cottonwood	o	c	g	
	2	<i>Pinus ponderosa</i>	ponderosa pine / yellow pine	o	c	g	
	2	<i>Salix bebbiana</i>	Bebb's willow	r	f	g	
	2	<i>solidago canadensis</i>	Canada goldenrod	o	f	g	

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			Prk	Reg	Prv	
2	<i>Prunus virginiana</i>	choke cherry	f	f	g	
2	<i>Cornus sericea</i>	red-osier dogwood	c	c	g	
2	<i>Calamagrostis rubescens</i>	pinegrass	f	c	g	
2	<i>Pseudotsuga menziesii</i>	Douglas-fir	c	c	g	
2	<i>Acer glabrum</i>	Douglas maple	f	c	g	
2	<i>Symphoricarpos albus</i>	common snowberry	f	c	g	

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THE FLORA AND FAUNA OF MONCK PARK

George Sirk - Naturalist

1972.

The following lists are of species of mammals, birds, reptiles, amphibians, insects, trees and flowers identified by myself during the summer of 1972, May - September.

If an interesting observation was made on any species it will be written up after the end of that particular list.

BIRDS:

S.M.	- Spring Migrant	F.M.	- Fall Migrant
S.R.	- Summer Resident	O.	- Occassional Wandered (on rec
*	- Found Nesting		
*Common Loon	- S.R.	Bufflehead	- O.
Red-Necked Grebe	- S.R.	*Ruddy Duck	- S.R.
Western Grebe	- S.R.	Common Merganser	- S.R.
Canada Goose	- O.	Turkey Vulture	- O.
*Mallard	- S.R.	Cooper's Hawk	- O.
Pintail	- S.R.	Red Tailed Hawk	- S.R.
Green-winged Teal	- S.R.	Swainson's Hawk	- S.R.
*Blue-Winged Teal	- S.R.	Golden Eagle	- S.R.
*Cinnamon Teal	- S.R.	Bald Eagle	- S.R.
Baldpate American widgeon	- S.R.	Marsh Hawk	- S.R.
Shoveller	- S.R.	Osprey	- S.R.
Redhead	- S.R.	Peregrine Falcon	- F.M.
Lesser Sca ^u pp	- O.	*Kestrel	- S.R.
Barrow's Goldeneye	- O.	*Blue Grouse	- S.R.
California Quail	- S.R.	Hairy Woodpecker	- S.R.
Coot	- S.R.	Eastern Kingbird	- S.R.
Killde ^{er}	- S.R.	Western Kingbird	- S.R.
Wilson's Snipe	- S.R.	Say's Phoebe	- O.
*Song billed Curlew	- S.R.	Traill's Flycatcher	- S.R.
*Spotted Sandpiper	- S.R.	Western Wood Pewee	- S.R.
Dowitcher	- O.	Violet-green Swallow	- S.R.

Birds (continued)

Wilson's Phalarope	- S.R.	*Tree Swallow	- S.R.
Glaucous-winged Gull	- O.	*Bank Swallow	- S.R.
Herring Gull	- S.R.	*Rough-winged Swallow	- S.R.
California Gull	- S.R.	*Barn Swallow	- S.R.
Ring Billed Gull	- O.	*Cliff Swallow	- S.R.
Mew Gull	- O.	Black-billed Magpie	- S.R.
Bonaparte's Gull	- S.R.	Raven	- S.R.
Common Tern	- F.M.	Common Crow	- S.R.
Black Tern	- S.R.	Clark's Nutcracker	- S.R.
Mourning Dove	- S.R.	Mountain Chickadee	- S.R.
Great Horned Owl	- S.R.	White-breasted Nuthatch	- S.R.
Long-eared Owl	- O.	Red-breasted Nuthatch	- S.R.
Short-eared Owl	- S.R.	Rock Wren	- S.R.
Poorwill (late)	- S.R.	Catbird	- S.R.
*Nighthawk	- S.R.	*Robin	- S.R.
Black Swift	- S.R.	*Mountain Bluebird	- S.R.
*Vaux's Swift	- S.R.	*Townsend's Solitaire	- S.R.
Rufous Hummingbird	- S.R.	Cedar Waxwing	- S.R.
Calliope Hummingbird	- S.R.	*Starling	- S.R.
Belted Kingfisher	- S.R.	Yellow Warbler	- S.R.
Red-Shafted Flicker	- S.R.	Yellowthroat	- S.R.
Lewis's Woodpecker	- S.R.	English Sparrow	- S.R.
Yellow-bellied Sapsucker	- S.R.	Bobolink	- S.R.
Western Meadowlark	- S.R.	Cassin's Finch	- S.R.
*Yellow-headed Blackbird	- S.R.	Pine Siskin	- S.R.
*Red-winged Blackbird	- S.R.	Goldfinch	- S.R.
Bullock's Oriole	- S.R.	Savannah Sparrow	- S.R.
Brewer's Blackbird	- S.R.	Vesper Sparrow	- S.R.
Cowbird	- S.R.	Chipping Sparrow	- S.R.
Western Tanager	- S.R.	Song Sparrow	- S.R.

Golden Eagle - A pair raised one young on the cliffs SW of the park. The nest can be seen with a good telescope from the Kekuli Pits. The climb is difficult and outright dangerous.

Osprey - Three nests were located approximately three miles south of the park. They are quite close together in the last irrigated fields before the park.

Glaucous-winged Gull - One adult in fields near Upper Nicola.

Great-horned Owl - One resided (or at least one) at the south end of the campsite and campers heard them all summer.

Poorwills - Can be best heard in August north of the campsite along the lake road.

Vaux's Swift - A colony of these beautiful birds was found right at the north end of the parking lot in an old Ponderosa Pine. They were always around and made a good walk subject.

Lewis's Woodpecker - Very common two miles north of the park on the upper logging road.

Bobolink - Suspected of nesting just past Upper Nicola.

MAMMALS:

Mule Deer - Tracks in park, sighted once on road between Upper Nicola and park.

Moose - Scats found in marshy area above park. One has to climb over mountain parks to get there.

Porcupine - Seen at night in irrigated fields before park.

Beaver - Seen in lake.

Skunk - A couple of lucky families found these in their tent this summer.

Long-Tailed Weasel - A dead specimen was I.P. as this species one was seen crossing the road at Upper Nicola.

Yellow-bellied Marmot - Common all summer until mid August.

Red Squirrel - Common in park.

North-Western Chipmunk - Abundant in park.

White-footed Mouse - Common.

Motis Sp. of Bat. - Common at night in park.

REPTILES:

Striped Garter Snake

Blue Racer

Western Painted Turtle

Dusky Garter Snake

Rubber Boa

Alligator Lizard

TREES:

Water Birch

Ponderosa Pine

Trembling Aspen

Douglas Fir

Lodgepole Pine

Choke Cherry

Cottonwood

SHRUBS:

Snowbrush

Soopolalli-

Rabbit Brush

Douglas Maple

Sandbar Willow

Oregon Grape

Red-osier Dogwood

Saskatoon

Sagebrush

Wild Rose

Indian Hemp,

Spreading Dogbane

FLOWERS:

Penstemon (Blue beard Tounge)
Larkspur
Yellow Penstemon
Rosy Pussytoes
Spring Sunflower
Star-flowered Solomon's Seal
Yarrow
Fleab^aone

Oyster Root
Brown-eyed Susan
Great Mullein
Canada Thistle
Stonecrop
Oxeye Daisy
Prickly Pear Cactus

COMMON PLANTS OF THE MONCK PARK AREA

Jennifer Saari, 1974

SCOURING RUSH *Equisetum arvense*

Common along the lake-shore. An abundant plant in the marsh areas behind the park.

ROCKY MOUNTAIN JUNIPER *Juniperus scopulorum*

Scattered throughout the area.

COMMON JUNIPER *Juniperus communis*

Scattered throughout the area.

PONDEROSA PINE *Pinus ponderosa*

One of the most common trees in the park area. Representing a very unique eco-system.

ENGELMANN SPRUCE *Picea glauca* spp. *engelmannii*

Found at the higher elevations behind the park in the moister areas.

DOUGLAS FIR *Pseudotsuga menziesii*

A common tree in the park area.

NODDING ONION *Allium cernuum*

Throughout the park, blooming the end of July.

YELLOW BELL *Fritillaria pudica*

Found in the park area, blooming generally over at time of arrival.

GREEN-BANDED MARIPOSA LILY *Calochortus macrocarpus*

One of the most delicate flowers of this area, found blooming the beginning of July. Common.

TREMBLING ASPEN *Populus tremuloides*

Common in the moister areas of the park.

NORTHERN BLACK COTTONWOOD *Populus trichocarpa*

Along the lake-shore and drainage areas.

WILLOW *Salix* spp.

Found along the lake-shore.

WATER BIRCH *Betula occidentalis*

Found along the lake-shore and moister higher areas behind the park.

MOUNTAIN ALDER *Alnus tenuifolia*

Groves of this tree are found above the park along the logging road leading to Pleasant Valley.

- STINGING NETTLE *Urtica dioica*

Found all along Mill Creek several miles behind the park.

- RED BANE BERRY *Actaea rubra*

Found along the river banks in the shade.

- WHITE CLEMATIS *Clematis ligusticifolia*

Found along the roadside into the park. Just past the entrance sign.

DELPHINIUM *Delphinium menziesii*

Prominent in the park area in June.

OREGON GRAPE *Berberis nervosa*

Found in the dark area where there is sufficient shade.

STONE-CROP *Sedum* spp.

Rocky dry slopes leading into the park.

SASKATOON BERRY *Amelanchier alnifolia*

Common throughout the area.

WILD STRAWBERRY *Fragaria virginiana*

Common along the roadsides.

WESTERN CHERRY *Prunus virginiana demissa*

Along the road into Kamloops.

WILD ROSE *Rosa nutkana*

Common along the lake-shore.

RED RASPBERRY *Rubus idaeus*

Found along the logging road above the park.

FLAT-TOP SPIREA *Spiraea lucida*

Common throughout the park area.

THIMBLEBERRY *Rubus parviflorus*

Found in the moist shady area behind the park--Pleasant Valley.

WRETCHED MILK VETCH *Astragalus miser*

Throughout the park.

ALFALFA *Medicago sativa*

Common along the road-sides throughout the park area.

LOCOWEED *Oxytropis campestris*

Found in the dry open areas in the park.

POISON IVY *Rhus radicans*

Found on the outskirts of the park, travelling east.

DOUGLAS MAPLE *Acer glabrum*

Found on the entrance to the park.

SNOWBUSH *Ceanothus sanguineus*

Found just to the right entrance of Monck Park.

PRICKLY PEAR CACTUS *Opuntia fragilis*

Common in this area.

SCOPOLALLIE *Shepherdia canadensis*

Through-out the park area.

FIREWEED *Epilobium angustifolium*

Sparse occurrence in the park--found in the open fields of Nicola Valley Ranch.

RED OSIER DOGWOOD *Cornus stolonifera*

Abundant along the lake-shore.

KINNIKINNICK *Arctostaphylos uva-ursi*

A common plant of the forest floor in this area.

SPREADING DOGBANE *Apocynum androsaemifolium*

Growing on the dry road-banks.

MILKWEED *Asclepias speciosa*

Road into Monck Park-junction of the paved and logging road.

CANADA MINT *Mentha arvensis*

Along the edges of Mill Creek, behind the park.

SCOULERS PENSTEMON *Penstemon fruticosus* var. *scouleri*

Rocky banks of the roadway into the park.

GREAT MULLEIN *Verbascum thapsus*

Common along the road-sides and in the open fields.

YARROW *Achillia millefolium*

Found along the road-sides and the open fields.

SMOOTH AGOSERIS *Agoseris glauca*

Found on the left hand side of the road into the park, on the bank tops.

WHITE PUSSYTOES *Antennaria* sp.

Dry exposed areas in the park.

LARGE PURPLE ASTER *Aster conspicuus*

A common plant along the beach walk.

SPRING BALSAMROOT *Balsamorhiza sagittata*

Through-out the area.

CANADA THISTLE *Cirsium arvense*

Groups along the road-sides.

LARGE PURPLE FLEAPANE *Erigeron speciosus*

Found along the beach walk in the park.

BROWN-EYED SUSAN *Gaillardia aristata*

Along the roads in the park.

RAGWORT *Senecio* spp.

A plant found in the open fields, field across from the subdivision.

GOLDENROD *Solidago canadensis*

Common along road-sides.

OYSTER PLANT *Tragopogon pratensis*

Throughout the park area, especially common along the roads.

PASTUE WORM-WOOD *Artemisia frigida*

Found with sage and rabbit-bush.

SAGE-BUSH *Artemisia tridentata*

Common in the park area.

RABBITBUSH. *Chrysothamnus nauseosus*

Common in the park area.

BURDOCK *Arctium lappa*

Found along the highway into Merritt from the park.