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Habitats of Concern

"Native Prairie Transplant Project at the University of Calgary Grassland Reserve"

It has been estimated that (only) about 1% of all original rough fescue (*Festuca scabrella*) prairie exists in a relatively undisturbed condition. The University of Calgary Grassland Reserve is a 17 acre remnant of Alberta's rough fescue prairie. Fire has been suppressed on this area since it became part of the Cochrane Ranch in 1881, and it has not been grazed since 1960 when acquired by the university. The prairie evolved with the rich black chernozem soils derived from calcareous glacial leavings and lake bottom sediments of the last ice age.

Approximately 40-50% of the 17 acres have been invaded to some extent by introduced, weedy, or more mesic species (e.g. *Agropyron pectiniforme*, *A. repens*, *Bromus inermis*, *Cirsium arvense*, *Erucastrum gallicum*, *Poa pratensis*, *Rosa spp.*, *Symphoricarpos occidentalis*). Shrubby species have expanded their range due to the thick organic layer which has accumulated in the absence of fire and grazing, and has shaded the soil, affording cooler and moister conditions unsuitable for many of the drier, sun-loving prairie forbs.

A management plan is presently being drawn up entailing restoration/reclamation procedures to be implemented over the next few years. Strategies include sodding, prescription burning (if and when permits are granted), scarifying, and tilling - all to be followed up by seeding with collected and/or purchased seed as it becomes available. Test trials are presently being designed for late spring seeding.

Much of the reserve's border has been invaded by water-guzzling turf grasses (which outcompete the more xeric native grasses where lawn irrigation overlaps into the prairie). This practice will be modified and a physical barrier installed to prevent rhizome encroachment into the native area. Though not finalized, the barrier will probably consist of a 6" poly strip buried vertically between prairie and turf areas. It will anchor a 2-3 ft. wide strip of landscape fabric overlain by a 2" layer of inert crushed rock mulch. *Roundup* may be applied to this strip if deemed necessary at a future time.

The "all fires are bad" mentality appears prevalent among today's fire-suppression agencies. To date we have been denied a burning permit for the grassland reserve, however negotiations are still in progress.

If burning fails to occur, an ecological treasure is doomed to die a slow death. The only method to truly restore such areas without burning is to salvage prairie from nearby areas ear-marked for developers' (and their efficient means of transforming native land to ecological wasteland) and transplanting it to areas of

need. All other mechanical means of preparing disturbed areas and seeding with native species, though necessary in many instances, cannot hope to reproduce the complexity of relationships which have evolved over many thousands of years. All we can do is supply the site with raw materials in proportions which hopefully approximate the original, and let time and nature's processes do the rest.

We decided to test the viability of such an operation by transplanting rough fescue prairie into an area particularly thick with *Poa pratensis* and *Bromus inermis*. A 450 m² plot was stripped of this sod with a bobcat, and roto-tilled to surface any residual rhizomes, in preparation for the transplant sod. Lightly grazed rough fescue prairie sod doomed to the belly-scrappers was cut out with a bobcat in 4' X 5' blocks, with about 6" of soil and root (squared with a spade), loaded onto wooden pallets and transported to the reserve site by flatbed trailer. The pallets were unloaded and placed by forklift one sod section distant from their final resting spot, and pushed into place with an empty pallet on the loader's forks. With the aid of a spotter on the ground, this operation went very smoothly. Gaps and cracks between and under sod sections were filled with prairie soil hauled from the salvage site, to afford good root-soil contact. This soil was used to utilize its seed stock potential. The site was watered over the next week to aid in settling of the sod, and in root establishment.

The salvage site was at the north end of Carmen Developers Ltd.'s Edgevalley Estates housing development. They granted us permission to extract prairie sod from the area prior to moving their equipment in. The prairie was considered to be in good condition, with a healthy array of native grasses and forbs (*Festuca scabrella* dominant), including some not evident on the University reserve, probably due to the inability of seeds to germinate and/or establish through the heavy covering of organic matter. "Weedy" species occurred only on disturbed sites.

Such a native sod transplanting operation is very expensive, time-consuming, and labor-intensive, as we discovered this past summer. However, if this form of restoration is to be utilized on a larger scale, some relatively simple equipment modifications could make the process much more efficient. The project was completed over 3 months (actually only 2 weeks of work). Fescue transplanted in mid-June was actively growing and flowering, while fescue transplanted in late July was finished seeding and entering dormancy. The early transplant material appears to have taken well, with fescue completing its annual cycle, and a transition of wildflowers occurring over the summer. The acid test should be next spring, when the fescue resumes active growth. At this time, a program of weeding will take place until native species have filled in all the exposed areas.

The Calgary Zoological Society is embarking on an exciting new project, dubbed "The Canadian Wilds". The current North American exhibit is being drastically overhauled and expanded. Over the next few

Dana Bush

Joan Williams

Dana Bush

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Cheryl Bradley (Conservation Action Committee Chairman), would like to see ANPC members with concerns for, or an interest in wetlands management, attend public workshops. Please note the following dates for meetings:

Riley, J.L. 1990. Distribution and status of the vascular plants of central region (Ontario). O.M.N.R., Parks and Recreation Section, Central Region, Richmond Hill. [Send \$5.00 to: Public Information Centre, Whitney Block, Queen's Park, Toronto, Ont. M7A 1W3 to obtain].

**THE ALBERTA NATIVE PLANT COUNCIL'S FIRST ANNUAL (1990)
NATIVE SEED CATALOGUE - SOURCES AND SUPPLIERS***

*NOTE: The following list of companies and organizations where native seed or plants might be obtained is a first draft only, and thus incomplete. Anyone knowing of companies which should be included, or information which should be altered, please contact the ANPC.

Only species which appear in J.G. Packer's (1983) *Revised Flora of Alberta* were culled from the catalogues and listed here. Latin names are used whenever possible. The original seed or plant material source is identified if known; this is difficult with some of the American companies. Companies from Alberta, B.C., Montana, Idaho, Utah and Nebraska have been included here; hopefully Saskatchewan and Manitoba sources will be added in future.

There is a notable lack of seed collection in southern Alberta. Several companies (Hillson, Pacific Plants, Reid Collins) collect seed in central Alberta and in the mountains; American companies primarily collect in Idaho, Montana and other midwestern states. Fescue grassland is therefore poorly represented in current seed stock.

Of the suppliers and seed sources listed below, it is difficult to know whether the seed will be hardy here, and whether the genotypes are suitable for Alberta. Hence the importance of companies who will custom grow material from locally collected seed.

No attempt has been made to discover the "ethics" of a company. Several mentioned that they did not sell wild plant material, but none mentioned having guidelines for seed collectors. This type of information will be included in future lists of seed sources and nurseries. We have a responsibility to protect wildlands from unscrupulous collectors, even when using the material for reclamation projects.

SEED SOURCES

ALBERTA

Calgary Zoological Society

P.O. Box 3036, Stn. B, Calgary, Alberta T2M 4R8

Contact: Donna Balzar (403)232-9300

- members can order 5 packets of seed. The 1990 seed list includes 18 "wildflowers", 12 of which are native. This service may not be offered again. Call Donna to support it, or for more information

Devonian Botanic Garden

The University of Alberta, Edmonton, Alberta T6G 2E1

Contact: (403) 987-3054 (Devon, Alberta)

- \$15.00 membership gives you quarterly newsletter 'Kinnikinnick'. Members may order up to 25 packets of seed each year. 1989 catalogue listed 40 species of Alberta native plants. Original sources unknown

Golden West Seeds Ltd.

915 - 23 Avenue S.E., Calgary, Alberta T2G 2Y2

Contact: Art Dahlman (403)263-4200

- brings grass seed from Montana; wildflower seeds are from several sources

GRASSES - *Agropyron smithii*, *Festuca scabrella*, *Koeleria macrantha*

FORBS - *Gaillardia aristata*, *Monarda fistulosa*, *Petalostemon purpureum*, *Ratibida columnifera*

Hanna's Seeds

Box 849, Lacombe, Alberta T0C 1S0

Contact: Nick Hanna (403)782-6671 1-800-661-1529

- orders grass seed from Big Sky, Montana

Pickseed

8918 - 18 Street, Edmonton, Alberta T6P 1K6

Contact: (403)464-0350 1-800-262-9095

- grass seed from Montana and Idaho (Big Sky)

Prairie Seeds Inc.

R.R. 1, South Edmonton, Alberta T6H 4N6

Contact: Dave Ingledu/Kirby Lowen (403) 955-7345 1-800-222-6443

- specializes in grasses (no forbs or shrubs). Carries seed from Big Sky. Some seed grown in Alberta

NATIVE MIXTURE [R-9 WETLAND] - 20% Alpine Bluegrass (*Poa alpina*), 15% Fowl Bluegrass (*Poa palustris*), 25% Alkali Grass (*Puccinellia distans*?), 25% Tufted Hairgrass (*Deschampsia cespitosa*), 15% Oxley Cicer Milkvetch "Nudocoat"

NATIVE MIXTURE [R-10 DRYLAND] - 25% Western Wheatgrass (*Agropyron smithii*), 20% Northern Wheatgrass (*Agropyron dasystachyum*), 15% Tufted Hairgrass (*Deschampsia cespitosa*), 15%

Rangelander Alfalfa "Nudocoat", 25% Parkway Crested Wheatgrass

OTHER GRASSES - Revenue Slender Wheatgrass, Walsh Western Wheatgrass, Sodar Streambank Wheatgrass, Elbee Northern Wheatgrass, *Festuca saximontana*, Junegrass (*Koeleria macrantha*)

ONTARIO

Canadian Wildflower Society

35 Bauer Crescent, Unionville, Ontario L3R 4H3

- \$20.00 gives you a monthly magazine, and 6 free packages of seed. Most articles and seed are from eastern Canada

IDAHO

High Altitude Gardens

P.O. Box 4619, Ketchum, Idaho 83340

Contact: 1 (800) 874-7333

- carries vegetable, flower, herb and grass seed suitable for 6000 ft. elevation or harsh climate. Gives both Latin and common names, but does not indicate which species are introduced. No collecting guidelines published in catalogue. Specializes in open pollinated seeds and organic production

GRASSES - *Festuca idahoensis*, *Oryzopsis hymenoides*, *Sitanion hystrix*, *Stipa comata*

FORBS - *Achillea millefolium*, *Balsamorhiza sagittata*, *Camassia quamash*, *Castilleja* spp., *Coreopsis tinctoria*, *Epilobium angustifolium*, *Eriogonum umbellatum*, *Gaillardia aristata*, *Geranium viscosissimum*, *Helianthus annuus*, *Linum perenne lewisii*, *Pedicularis groenlandica*

Jacklin Seed Company

West 5300 Jacklin Avenue, Post Falls, Idaho 83854-9499

Contact: (208)773-7581

GRASSES - *Agropyron dasystachyum* (Critana thickspike), *Agropyron riparium* = *A. dasystachyum*

(Sodar Streambank), *Agropyron smithii* (Common western, Rosana western), *Agropyron spicatum* (Secar bluebunch), *Agropyron trachycaulum* (Revenue slender), *Oryzopsis hymenoides* (Nezpar Indian ricegrass), *Poa ampla* = *P. juncifolia* (Sherman big bluegrass), *Puccinellia distans* (Distans alkaligrass)

Northplan/Mountain Seed

P.O. Box 9107, Moscow, Idaho 83843-1697

Contact: (208) 882-8040 FAX (208) 882-7446

- wholesale

GRASSES - *Agropyron dasystachyum*, *A. smithii*, *A. spicatum*, *A. trachycaulum*, *Bouteloua gracilis*, *Calamovilfa longifolia*, *Dactylis glomerata*, *Deschampsia caespitosa*, *Koeleria cristata*, *Oryzopsis hymenoides*, *Phalaris arundinacea*, *Poa alpina*, *P. canbyi*, *Sitanion hystrix*, *Sporobolus cryptandrus*, *Stipa comata*, *S. viridula*

CONIFEROUS TREES - *Abies lasiocarpa*, *Juniperus scopulorum*, *Picea engelmannii*, *Pinus contorta*, *P. flexilis*, *Pseudotsuga menziesii*

FORBS - *Achillea millefolium*, *Actea arguta* (= *A. rubra*), *Aconitum delphinifolium*, *Allium* spp., *Anaphalis margaritacea*, *Antennaria rosea*, *Aquilegia flavescens*, *A. formosa*, *Arnica cordifolia*, *Artemisia ludoviciana*, *Balsamorhiza sagittata*, *Camassia quamash*, *Campanula rotundifolia*, *Castilleja* spp., *Clintonia uniflora*, *Delphinium nuttallianum*, *Disporum hookeri*, *D. trachycarpum*, *Dodecatheon* spp., *Epilobium angustifolium*, *E. latifolium*, *Eriogonum umbellatum*, *Erythronium grandiflorum*, *Fritillaria pudica*, *Gaillardia aristata*, *Gentiana calycosa*, *Geranium viscosissimum*, *Geum triflorum*, *Helianthus annuus*, *Iliamna rivularis*, *Iris missouriensis*, *Liatris punctata*, *Linum lewisii*, *Lupinus argenteus*, *L. sericeus*, *Mimulus lewisii*, *Penstemon gracilis*, *P. procerus*, *Ratibida columnifera*, *Smilacina racemosa*, *S. stellata*, *Sphaeralcea* spp., *Solidago* spp., *Streptopus amplexifolius*, *Yucca glauca*, *Zygadenus* spp.

TREES AND SHRUBS - *Acer glabrum*, *Alnus incana* (= *A. tenuifolia*), *Amelanchier alnifolia*, *Arctostaphylos uva-ursi*, *Artemisia cana*, *A. frigida*, *A. tridentata* (3 vars.), *Atriplex canescens*, *Betula occidentalis*, *B. papyrifera*, *Ceanothus velutinus*, *Chimaphila umbellata*, *Chrysothamnus nauseosus*, *Clematis ligusticifolia*, *Cornus canadensis*, *C. stolonifera*, *Crataegus douglasii*, *Elaeagnus commutata*, *Kalmia latifolia*, *Philadelphus lewisii*, *Phyllodoce empetrifolia*, *Physocarpus malvaceus*, *Populus tremuloides*, *Prunus virginiana*, *Rhus trilobata*, *Ribes aureum*, *R. viscosissimum*, *Rosa woodsii*, *Rubus parviflorus*, *Shepherdia canadensis*, *S. occidentalis*, *Spiraea* spp., *Symphoricarpos albus*, *S. occidentalis*, *Vaccinium scoparium*

Prairie Seed Source

P. O. Box 1131, Des Moines, Idaho 50311

NEBRASKA

Stock Seed Farms, Inc.

R.R. 1, Box 112, Murdock, Nebraska 68407

MONTANA

Big Sky Wholesale Seeds, Inc.

Box 852, Shelby, Montana 59474

Contact: (406)434-5011 or (406)434-5600

- 2/3 of seed is from Western USA. Some cultivated in Montana, Idaho and Alberta. Some seed collected from native sites; some seed is improved varieties (registered seed). Selection of forbs and grasses, but only common names are listed (would not supply Latin names). Sells to Prairie Seeds, Pick Seeds, Hanna Seeds, United Grain Growers

GRASSES - *Agropyron spicatum* var. *inermis*, *A. spicatum*, *A. trachycalum*, *A. dasystachyum*, *A. smithii*, *Bouteloua gracilis*, *Dactylis glomerata*, *Koeleria cristata*, *Oryxopsis hymenoides*, *Phalaris arundinaceae*, *Stipa comata*, *S. viridula*

FORBS - *Achillea* spp., *Agropyron spicatum*, *Artemisia cana*, *A. frigida*, *Balsamorhiza sagittata*, *Gaillardia* spp., *Galium* spp., *Helianthus* spp., *Lupinus* spp., *Petalstemon purpureum*, *Potentilla* spp., *Prunus virginiana*, *Rosa* spp., *Symphoricarpos* spp.

UTAH

Granite Seed

P.O. Box 177, Lehi, Utah 84043

Contact: (801)768-4422/531-1456 FAX (801) 768-3967

- \$50.00 minimum order. Specializes in land reclamation; no seed collection guidelines. Good catalogue with Latin and common names (* indicates an introduced species)

GRASSES - *Agropyron dasystachyum* (Thickspike wheatgrass), *Agropyron smithii* (Western wheatgrass), *Agropyron spicatum* (Bluebunch wheatgrass), *Agropyron trachycaulum* (Slender wheatgrass), *Bouteloua gracilis* (Blue grama), *Calamovilfa longifolia* (Prairie sandreed), *Distichlis stricta* (Inland saltgrass), *Elymus canadensis* (Canada wildrye), *Koeleria cristata* (Prairie Junegrass),

Oryzopsis hymenoides (Indian ricegrass), *Phalaris arundinacea* (Reed canarygrass), *Poa alpina* (Alpine bluegrass), *Poa canbyi* (Canby bluegrass), *Poa sandbergii* (Sandberg bluegrass), *Puccinellia distans* (Alkaligrass), *Schizachyrium scoparium* (Little Bluestem), *Sitanion hystrix* (Bottlebrush squirreltail), *Sporobolus cryptandrus* (Sand dropseed), *Stipa columbiana* (Columbia needlegrass), *Stipa comata* (Needle and thread), *Stipa viridula* (Green Needlegrass)

FORBS - *Achillea millefolium*, *Anaphalis margaritacea*, *Aquilegia flavescens*, *Aquilegia formosa*, *Aster engelmannii*, *Balsamorhiza sagittata*, *Campanula rotundifolia*, *Castilleja rhexifolia*, *Coreopsis tinctoria*, *Cornus canadensis*, *Epilobium angustifolium*, *Erigeron speciosus*, *Eriogonum umbellatum*, *Gaillardia aristata*, *Geranium viscosissimum*, *Hedysarum boreale*, *Helianthus annuus*, *Iris missouriensis*, *Linum lewisii*, *Lupinus sericeus*, *Monarda fistulosa*, *Oenothera biennis*, *Oenothera caespitosa*, *Osmorhiza occidentalis*, *Petalostemon purpureum*, *Ratibida columnaris*, *Solidago rigida*, *Sphaeralcea coccinea*

TREES AND SHRUBS - *Amelanchier alnifolia*, *Artemisia cana*, *A. frigida*, *A. ludoviciana*, *A. tridentata* (3 vars.), *Atriplex canescens*, *Chrysothamnus nauseosus*, *Cornus stolonifera*, *Hedysarum boreale*, *Mahonia repens*, *Pinus contorta* var. *latifolia*, *P. flexilis*, *Prunus virginiana*, *Pseudotsuga menziesii*, *Rhus trilobata*, *Ribes aureum*, *Rosa woodsii*, *Sambucus racemosa*, *Shepherdia argentea*, *Symphoricarpos albus*

NORTH DAKOTA

Rogne-Schumacher Seedfarm
R.R. 2, Box 231, Kindred, North Dakota 58051
(701)-428-3839

NURSERIES

ALBERTA

Alberta Tree Nursery and Horticultural Centre

R.R. 6, Edmonton, Alberta T5B 4K3
Contact: Brenden Casemont, Sr. Agrologist (RITE) 472-6043
- supplies trees and shrubs for shelter belt program. Supplies lodgepole pine and Colorado spruce for Arbour Day. Supplies Provincial Parks Dept. with some native species

Beaverlodge Nursery

Box 127, Beaverlodge, Alberta T0H 0C0
Contact: (403) 354-2195
- hardy fruits, flowers, shrubs and trees; limited selection of native plants
FORBS - *Amelanchier alnifolia*, *Antennaria* spp., *Juniperus horizontalis* (Dunvagin blue & Wapiti), *Erigeron* spp.

Coaldale Nurseries

Box 1267, Coaldale, Alberta T0K 0L0
Contact: Hans Kuperice (403) 345-4633
- seed is purchased (and collected) from Sweetgrass, Montana. Grows shrubs and trees from seed or imports seedlings from Montana
TREES AND SHRUBS - *Abies lasiocarpa*, *Amelanchier alnifolia*, *Artemisia tridentata*, *Populus tremuloides*, *Potentilla fruticosa*, *Rhus trilobata*, *Shepherdia argentea*, *Symphoricarpos albus*

Eagle Lake Nurseries Ltd.

Box 819, Strathmore, Alberta T0J 3H0
Contact: (403) 934-3622 FAX (403) 934-3626
- some seedlings are local, some are from Montana, and B. C. Does not propagate.
TREES AND SHRUBS - *Acer negundo*, *Amelanchier alnifolia*, *Betula papyrifera*, *Cornus stolonifera*, *Elaeagnus commutata*, *Juniperus horizontalis* *, *J. scopulorum* *, *Larix laricina*, *Lonicera caerulea edulis*, *Philadelphus lewisii* 'Waterton', *Picea glauca*, *Pinus contorta latifolia*, *Potentilla fruticosa*,

Prunus pensylvanica, *P. virginiana melanocarpa*, *Rhus trilobata*, *Ribes aureum*, *R. hirtellum*, *Rosa acicularis*, *R. woodsii*, *Sambucus racemosa*, *Shepherdia argentea*, *S. canadensis*, *Symphoricarpos occidentalis*, *Viburnum trilobum*
FORBS - *Anemone pulsatilla* (*patens*?), *Arctostaphylos uva-ursi*, *Aster alpinus*, *Gaillardia aristata*, *Yucca glauca*

Greenview Nurseries

Box 12, Site 16, R.R. 7, Calgary, Alberta T2P 4G7

Contact: Hans Bron (403) 936-5936

- collects seeds and cuttings from own land. Will custom grow. Requests 1 year lead time to allow seed collection, cuttings (done in June/July) and growing.

TREES AND SHRUBS - *Acer negundo*, *Amelanchier alnifolia*, *Betula papyrifera*, *Cornus stolonifera*, *Elaeagnus commutata*, *Juniperus horizontalis*, *J. scopulorum*, *Philadelphus lewisii* 'Waterton', *Picea glauca*, *Pinus contorta*, *Populus tremuloides*, *Potentilla fruticosa* (13 vars.), *Prunus virginiana*, *Ribes aureum*, *R. hirtellum*, *Rosa acicularis*, *R. woodsii*, *Sambucus racemosa*, *Shepherdia argentea*, *Symphoricarpos albus*, *Viburnum trilobum*

FORBS - 150 varieties of perennials, not all native. Includes *Arctostaphylos uva-ursi*, *Anemone pulsatilla* (= *A. patens*), *Gaillardia aristata*, *Linum perenne* (= *L. lewisii*), *Yucca glauca*

The Hillson Nursery

P. O. Box 39, Rochester, Alberta T0G 1Z0

Contact: Dick Hillson (403) 698-3956

- the largest selection of native woody plants and perennials for reclamation and natural landscaping. Not all species carried on spec. Please give at least 60 days notice. Wholesale.

TREES AND SHRUBS - *Acer negundo*, *Alnus crispa*, *A. tenuifolia*, *Amelanchier alnifolia*, *Betula glandulosa*, *B. papyrifera*, *Clematis ligusticifolia*, *Cornus stolonifera*, *Elaeagnus commutata*, *Ledum groenlandicum*, *Lonicera involucrata*, *Picea glauca*, *Pinus banksiana*, *P. contorta* var. *latifolia*, *Populus balsamifera*, *P. tremuloides*, *Potentilla fruticosa*, *Prunus pensylvanica*, *P. virginiana*, *Rhus trilobata*, *Ribes* spp., *Rosa* spp., *Rubus strigosus*, *Salix* spp., *Sambucus racemosa*, *Shepherdia canadensis*, *Symphoricarpos albus*, *S. occidentalis*, *Viburnum edule*

FORBS - *Achillea millefolium*, *A. sibirica*, *Agastache foeniculum*, *Anemone canadensis*, *A. cylindrica*, *A. multifida*, *A. occidentalis*, *Antennaria rosea*, *Apocynum androsaemifolium*, *Aquilegia brevistylis*, *A. flavescens*, *Artemisia ludoviciana*, *Aster conspicuus*, *A. ericoides*, *A. laevis*, *Campanula rotundifolia*, *Castilleja miniata*, *Cornus canadensis*, *Erigeron compositus*, *Fragaria virginiana*, *Galium boreale*, *Gaillardia aristata*, *Geum aleppicum* var. *strictum*, *Hedysarum alpinum*, *Heuchera richardsonii*, *Liatris punctata*, *Mitella nuda*, *Monarda fistulosa*, *Oenothera biennis*, *Oxyria digyna*, *Parnassia fimbriata*, *Penstemon confertus*, *P. gracilis*, *P. procerus*, *Petasites sagittatus*, *Ratibida columnifera*, *Rubus pubescens*, *Saxifraga bronchialis*, *Silene acaulis*, *Sisyrinchium montanum*, *Solidago* spp., *Thalictrum* spp., *Townsendia parryi*, *Viola rugulosa*

Native Nursery

Box 316, Tofield, Alberta T0B 4J0

Contact: Ted Laidlaw

- propagates native woody species; primarily saskatoons

Vale's Greenhouses

3 Ave. and 3 St. N.W., Box 186, Black Diamond, Alberta T0L 0H0

Contact: Anne Vale (403) 933-4814

- imports some natives from B.C. or Montana and Idaho

BRITISH COLUMBIA

Pacific Plants Ltd.

2448-124 B. Street, Whiterock, B. C. V4A 3N6

Contact: Bruce McTavish (604) 536-0478

- specializes in native seed; from interior and northern B.C. (Zone 2), and some from Rockies. Mainly deciduous trees and shrubs, some perennials. 90% are from seedlings or cuttings; collects very little live material. Wholesale or large orders only

Reid, Collins Nursery Ltd.

P.O. Box 430, Aldergrove, B. C. V0X 1A0

2396 - 272 Street, Aldergrove, B. C.

Contact: John Folkerts (604) 533-2210 FAX (604) 856-4218

- carries seedlings and some calliper trees. Wholesale. Will collect seed for contracts. Collects from Ft. McMurray, Edmonton, Red Deer and Rocky Mountains. None from southern Alberta. Partial listing below. New catalogue currently being printed

CONIFERS - *Picea glauca*, *Pinus banksiana*, *P. contorta latifolia*

DECIDUOUS TREES AND SHRUBS - *Alnus crispa*, *Amelanchier alnifolia*, *Arctostaphylos uva-ursi*, *Betula papyrifera*, *Cornus stolonifera*, *Elaeagnus commutata*, *Populus tremuloides*, *Potentilla fruticosa*, *Prunus virginiana*, *Rhus glabra*, *Rosa acicularis*, *R. woodsii*, *Shepherdia canadensis*, *Spiraea* spp.

MONTANA

Valley Nursery

P. O. Box 4845, Helena, Montana 59604

Contact: Clayton Burgh (406) 442-8460

- collects seed locally. Has propagation facilities - grows from seed, root and grafts. Supplies Coaldale, Eagle Lake

SHRUBS AND FORBS - Pincherry (*Prunus pensylvanica*), Green or Red Leaf Chokecherry (*Prunus virginiana*), Golden Currant (*Ribes aureum*), Rabbit bush (*Chrysothamnus nauseosus*), Silverberry (*Elaeagnus commutata*), Buffalo-berry (*Shepherdia argentea*), 300 Dogwood - Red Twig (*Cornus canadensis*), Snowberry (*Symphoricarpos albus*), Western Clematis (*Clematis ligusticifolia*), *Yucca glauca*, (= *V. opulus*), *Potentilla* spp.

THE ALBERTA NATIVE PLANT COUNCIL'S 1990 WILDFLOWER GARDENING BIBLIOGRAPHY

American Wildflower Society and Denver Botanic Gardens. 1986. Rocky Mountain alpine: choice rock garden plants of the Rocky Mountains in the wild and in the garden. Timber Press, Portland, Oregon.
- *descriptions of plants in various zones, and advice for cultivation*

Art, H.W. 1986. A garden of wildflowers. Storey Communications Inc., Pownal, Vermont 05261. 192 p.
- *an illustrated guide with plants from all regions*

Birdseye, C. and G. Birdseye. 1951. Growing woodland plants. General Publishing Co. Ltd., Toronto, Ont. 223 p.
- *eastern N. America*

Brooklyn Botanic Garden. (date ?). Gardening for wildlife. Brooklyn Botanic Garden, 1000 Washington Ave., Brooklyn, New York 11225.

Bruce, H. 1982. How to grow wildflowers and shrubs in your own garden. Van Nostrand and Reinhold Co., New York. 294 p.
- *eastern N. America*

Crockett, J.R. and O.E. Allen. 1977. Wildflower gardening. Time Life Books, Alexandria, VA.
- *coast to coast examples of natives; colour illustrations; focus on eastern N. America*

Currah, R. et al. 1983. Prairie wildflowers: an illustrated manual of species suitable for cultivation and grassland restoration. Friends of the Devonian Botanic Garden, University of Alberta, Edmonton. 290 p.

Diekelmann, J. and R. Schuster. 1982. Natural landscaping. McGraw-Hill Book Co., New York.
- *prairie and forest areas; northeastern N. America. Explains landscaping principles as well as the plants. Describes how various sites were developed*

National Wildflower Research Center. 1989. Wildflower handbook. Texas Monthly Press, P.O. Box 1569, Austin, Texas 78767
- *also available from the Nat. Wildfl. Res. Cen. Bookstore. Is an extensive bibliography and listing of seed houses, plus information on propagation and restoring large sites*

Phillips, H.R. 1985. Growing and propagating wildflowers. Univ. of N. Carolina Press.
- *excellent book on eastern native plants, concentrating on seed collection and propagation methods*

Rock, Harold W. 1977. Prairie propagation handbook. Wehr Nature Center, Whitnall Park, Milwaukee, Wisconsin. 75 p.
- *a tabular guide to prairie wildflowers and grasses, their habitats, harvest dates and propagation requirements. The center has a nice selection of prairie books*

Smith, J.R. with B.S. Smith. 1980. The prairie garden: 70 native plants you can grow in town or country. Univ. of Wisconsin Press, Madison, Wisconsin. 219 p.
- *70 wildflowers of the midwestern prairies. Illustrated with brief source list -American*

Sperka, M. 1973. Growing wildflowers. Charles Scribner's Sons, New York. 277 p.
- *eastern N. America*

Steffek, E.F. 1983. The new wildflowers and how to grow them. Timber Press, Portland, Oregon. 186 p.
- *a sampling of wildflowers from N.America, with useful tables of species from various regions and habitats*

Stevenson, V. 1985. The wild gardener. Penguin Books, Markham, Ontario. 168 p.

Sullivan, G.A. and R.H. Daley. 1981. Resources on wildflower propagation. National Council of State Garden Clubs, Inc. Missouri Botanical Garden.
- *information on propagation with references. Sorted into regions*

Wilson, W.H. et al. 1984. Landscaping with wildflowers and native plants. Ortho Books, San Francisco, California. 96 p.

Young, J.A. and C.G. Young. 1986. Collecting, processing and germinating seeds of wildland plants. Timber Press, Portland, Oregon.

ASSOCIATIONS AND BOTANICAL GARDENS

Alberta Native Plant Council

Box 4524, Postal Stn. 'SE', Edmonton, Alberta T6E 5G4

- *'IRIS' newsletter, annual workshop, native seed catalogue and bibliography. Information on current research and events related to native plant conservation in Alberta. \$15.00 membership*

Calgary Zoo

Donna Balzar, Horticulturalist, Box 3036, Stn. B., Calgary, Alberta T2M 4R8

- *zoo membership entitles you to 5 packets of seed. 18 wildflowers offered in 1989/90*

Canadian Wildflower Society

75 Ternhill Cres., Don Mills, Ontario M3C 2E4

- *quarterly magazine. Seed exchange for members. \$20.00 U.S. for subscription.*

Dr. Faith Thompson Campbell, Natural Resources Defense Council, Plant Conservation Project
1350 New York Avenue, N.W., Washington, D.C. 20005

Friends of the Garden

Devonian Botanic Garden, University of Alberta, Edmonton, Alberta T6G 1E9

- *quarterly newsletter 'Kinnikinnick' and 25 packages of free seed. 1989/90 seed list had 309 entries including 40 Alberta wildflowers. Has well labelled show garden with native bed. \$20.00*

Grassland Heritage Foundation

5450 Buena Vista, Shawnee Mission, Kansas 66205 (913)677-3326

National Wildflower Research Center

2600 FM 973 North, Austin, Texas 78725-4201 (512)929-3600

- *has mail order book and gift shop, newsletter and journal. \$25.00 US*