

Regional Woody Plant Test Project 2005

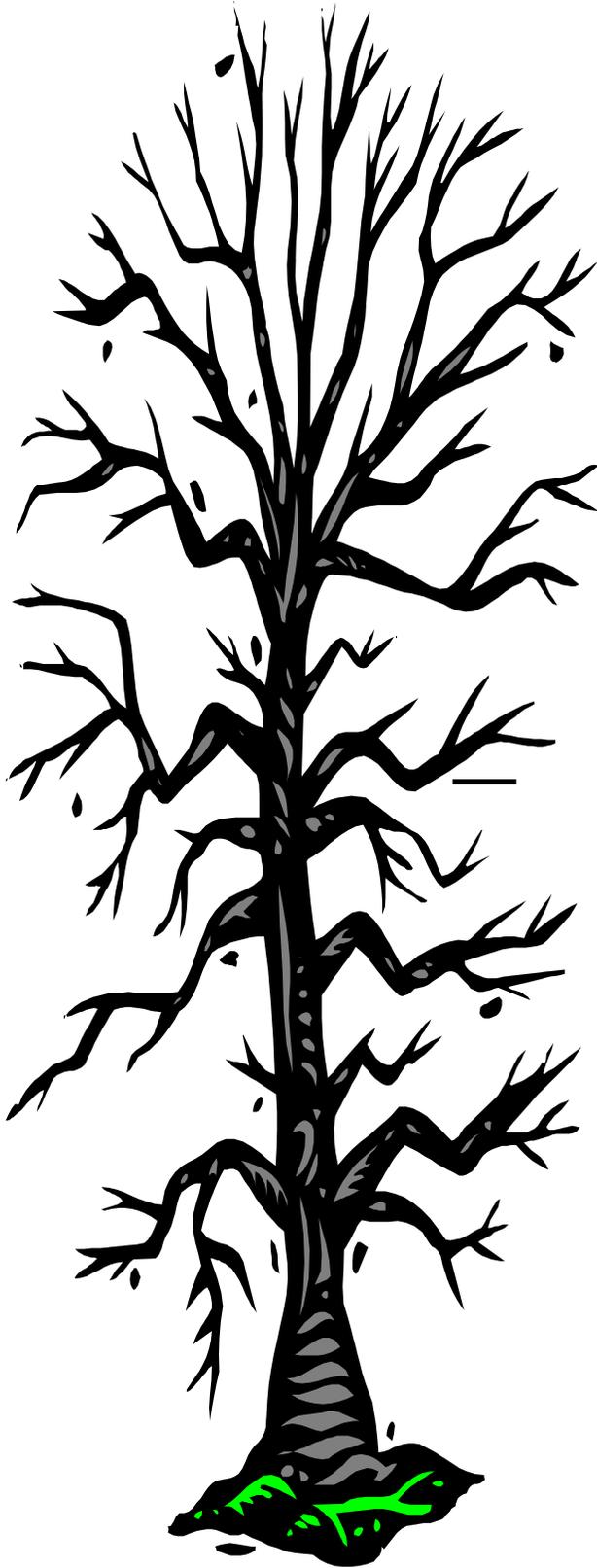


CDCS

Crop Diversification Centre South
Brooks, Alberta

Pamphlet #2006-3

Alberta
AGRICULTURE, FOOD AND
RURAL DEVELOPMENT



Regional Woody Plant Test Project 2005

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Table of Contents

Index - Botanical Names	i-iv
Index - Common Names	iv-vii
Introduction.....	viii
Acknowledgements.....	viii
Recent Graduates.....	ix
Trial Locations	x
Definitions of categories in report.....	xi
Summary report of graduates	1 - 77



Index – Botanical Name

<i>Abies balsamea</i> ‘Nana’	1	<i>Caragana roborovskyi</i>	7
<i>Acer glabrum</i>	1	<i>Caragana tragacanthoides</i>	7
<i>Acer negundo</i> ‘Sensation’	1	<i>Celtis occidentalis</i> ‘Eagle Lake Selection’	8
<i>Acer platanoides</i> ‘Emerald Queen’	2	<i>Chamaecyparis pisifera fillfera</i> ‘Sungold’	8
<i>Acer pseudoboldianum</i>	2	<i>Cornus alba</i> ‘Argenteo Marginata’.....	8
<i>Acer rubrum</i> ‘Autumn Spire’	2	<i>Cornus alba</i> ‘Aurea’.....	9
<i>Acer rubrum</i> ‘Northwood’.....	3	<i>Cornus alba</i> ‘Bailhalo’.....	9
<i>Acer rubrum</i> ‘Franksred’.....	3	<i>Cornus alba</i> “Cream Cracker”.....	9
<i>Acer saccharinum</i>	3	<i>Cornus alba</i> ‘Gouchaulti’.....	9
<i>Acer saccharinum</i> ‘Silver Cloud’	3	<i>Cornus alba</i> ‘Siberian Pearls’	10
<i>Acer x freemanii</i> ‘Jeffersred’	4	<i>Cornus alba</i> ‘Sibirica’.....	11
<i>Aesculus glabra</i>	4	<i>Cornus alba</i> ‘Sibirica Variegata’.....	11
<i>Aronia melanocarpa</i> ‘Autumn Magic’.....	4	<i>Cornus sericea</i> ‘Bud’s Yellow’.....	11
<i>Artemisia stellerana</i> ‘Silver Brocade’	5	<i>Cornus sericea</i> ‘Flaviramea’.....	11
<i>Beberis thumbergii</i> ‘Gentry’.....	5	<i>Cornus sericea</i> ‘Silver and Gold’	12
<i>Beberis thumbergii</i> ‘Monomb’	5	<i>Crataegus ambigua</i>	12
<i>Beberis thumbergii</i> ‘Monry’	5	<i>Crataegus x mordenensis</i> ‘Snowbird’	12
<i>Beberis thumbergii</i> ‘Moulers’	5	<i>Crataegus x mordenensis</i> ‘Toba’	13
<i>Berberis thunbergii</i> ‘Rose Glow’	6	<i>Cytisus decumbens</i>	13
<i>Betula occidentalis</i>	6	<i>Daphne cneorum</i>	14
<i>Betula pendula</i> ‘Gracilis’.....	6	<i>Daphne cneorum</i> ‘Ruby Glow’.....	14
<i>Betula pendula</i> ‘Purple Rain’	6	<i>Daphne x burkwoodii</i> ‘Carol Mackie’	14
<i>Caragana arborescens</i> ‘Walker’	7	<i>Diervilla lonicera</i>	15
<i>Caragana frutex</i> ‘Globosa’	7	<i>Elaeagnus angustifolia</i>	15

<i>Euonymus alatus</i> 'Compactus'	15	<i>Larix sibirica</i> 'Lindquist'.....	28
<i>Euonymus hamiltonianus</i> var. <i>maackii</i>	16	<i>Ligustrum vulgare</i> 'Lodense'.....	28
<i>Forsythia ovata</i> 'Floraliz'.....	16	<i>Lonicera caerulea edulis</i> 'Georges Bugnet'.....	29
<i>Forsythia x intermedia</i> 'Northern Gold'	16	<i>Lonicera</i> 'Honeyrose'.....	29
<i>Fraxinus mandschurica</i>	17	<i>Lonicera maximowiczii sachalinensis</i>	29
<i>Fraxinus nigra</i>	17	<i>Lonicera spinosa</i> var. <i>Albertii</i>	30
<i>Fraxinus nigra</i> 'Brendan's Selection'	18	<i>Lonicera tatarica</i> 'Sunstar White'.....	30
<i>Fraxinus nigra</i> 'Fallgold'	18	<i>Lonicera x brownii</i> 'Yellow Trumpet'	30
<i>Fraxinus pennsylvanica</i>	18	<i>Malus</i> 'Kelsey'	31
<i>Fraxinus pennsylvanica</i> 'Brendan's Selection'	19	<i>Malus</i> 'Makamik'	31
<i>Fraxinus pennsylvanica</i> 'Bergeson'	19	<i>Malus</i> 'Mill Stream'	32
<i>Fraxinus pennsylvanica</i> 'Foothills'	20	<i>Malus</i> 'Pink Spires'	32
<i>Fraxinus pennsylvanica</i> 'Jordan'	20	<i>Malus</i> 'Radiant'	32
<i>Fraxinus pennsylvanica</i> 'Leeds'	20	<i>Malus</i> 'Red Jade'	33
<i>Fraxinus pennsylvanica</i> 'Patmore'.....	21	<i>Malus</i> 'Royal Beauty'	33
<i>Fraxinus pennsylvanica</i> 'Plains'	21	<i>Malus</i> 'Selkirk'.....	33
<i>Fraxinus pennsylvanica</i> 'Rugby'.....	21	<i>Malus</i> 'Snowcap'	34
<i>Fraxinus x</i> 'Northern Treasure'	22	<i>Malus</i> 'Thunderchild'	34
<i>Genista pilosa</i> 'Vancouver Gold'.....	22	<i>Malus</i> 'Weeping Rosy Glo'	34
<i>Genista</i> 'Lydia'	22	<i>Philadelphus lewisii</i> 'Blizzard'	35
<i>Halimodendron halodendron</i>	23	<i>Philadelphus x virginalis</i> 'Minnesota Snowflake' .	35
<i>Hippophae rhamnoides</i>	23	<i>Physocarpus opulifolius</i> 'Dart's Gold'	35
<i>Hydrangea arborescens</i> 'Annabelle'	23	<i>Physocarpus opulifolius</i> 'Diabolo'	36
<i>Hydrangea paniculata</i> 'Bailmer'.....	24	<i>Physocarpus opulifolius</i> 'Nugget'	36
<i>Hydrangea paniculata</i> 'Limelight'	24	<i>Physocarpus opulifolius</i> 'Seward'	37
<i>Hydrangea paniculata</i> 'Tardiva'	24	<i>Physocarpus opulifolius</i> 'Snowfall'	37
<i>Juglans cinerea</i>	24	<i>Picea abies</i>	37
<i>Juglans mandschurica</i>	25	<i>Picea abies</i> 'Nidiformis'	37
<i>Juglans nigra</i>	25	<i>Picea asperata</i>	38
<i>Juniperus chinensis</i> 'Hetzii'	26	<i>Picea koyamai</i>	38
<i>Juniperus chinensis</i> 'Paul's Gold'	26	<i>Picea glauca</i>	38
<i>Juniperus communis</i> 'Crowfoot'	26	<i>Picea pungens glauca</i>	39
<i>Juniperus horizontalis</i> 'Dunvegan Blue'	27	<i>Picea pungens</i> 'Montgomery'	39
<i>Juniperus sabina</i> 'Buffalo'.....	27	<i>Pinus albicaulis</i>	39
<i>Juniperus scopulorum</i> 'Wichita Blue'.....	28	<i>Pinus aristata</i>	40
<i>Juniper virginiana</i> 'Blue Arrow'	28	<i>Pinus cembra</i>	40
<i>Larix sibirica</i>	28	<i>Pinus contorta</i> var. <i>latifolia</i>	40

<i>Pinus heldreichii</i> var. <i>leucodermis</i>	41	<i>Rosa</i> 'David Thompson'	51
<i>Pinus koraiensis</i>	41	<i>Rosa</i> 'Jens Munk'	52
<i>Pinus ponderosa</i>	41	<i>Rosa</i> 'John Cabot'	52
<i>Pinus resinosa</i>	42	<i>Rosa</i> 'Meidiland Bonica'	52
<i>Pinus sylvestris</i> 'Ladoga'	42	<i>Rosa</i> 'Morden Centennial'	53
<i>Pinus sylvestris</i> 'Prairie Green'	42	<i>Rosa</i> 'Noatraum'	53
<i>Pinus sylvestris mongolica</i>	42	<i>Rosa</i> 'Prairie Dawn'	54
<i>Populus alba</i> 'Raket'	43	<i>Salix acutifolia</i>	54
<i>Populus alba</i> 'Nivea'	43	<i>Salix alba</i> 'Vitellina'	54
<i>Populus grandidentata</i> 'Sabre Aspen'	44	<i>Salix arctophila</i> 'Thunder Mountain'	55
<i>Populus x canadensis</i> 'Prairie Sky'	44	<i>Salix babylonica</i> 'Lace'	55
<i>Populus x canescens</i> 'Tower'	44	<i>Salix brachycarpa</i> 'Blue Fox'	56
<i>Populus x 'Escot'</i>	44	<i>Salix daphnoides</i>	56
<i>Potentilla fruticosa</i> 'Floppy Disc'	45	<i>Salix integra</i> 'Hakura Naskiki'	56
<i>Potentilla fruticosa</i> 'Mango Tango'	45	<i>Salix pentandra</i>	56
<i>Potentilla fruticosa</i> 'Pink Beauty'	45	<i>Salix repens</i>	57
<i>Potentilla fruticosa</i> 'Red Robin'	46	<i>Salix silicicola</i> 'Polar Bear'	57
<i>Potentilla fruticosa</i> 'Yellow Gem'	46	<i>Salix</i> 'Felt Leaf'	57
<i>Prunus nigra</i> 'Princess Kay'	47	<i>Salix</i> 'Prairie Cascade'	58
<i>Purnus padus</i> 'Ethel'	47	<i>Sambucus canadensis</i> 'Aurea'	58
<i>Prunus padus</i> 'Foothills'	47	<i>Sambucus nigra</i> 'Black Beauty'	59
<i>Prunus padus</i> 'Sunstar'	48	<i>Sambucus nigra</i> 'Marginata'	59
<i>Prunus virginiana</i> 'Midnight'	48	<i>Sambucus racemosa</i> 'Plumosa Aurea'	59
<i>Prunus x 'Carmine Jewel'</i>	48	<i>Sorbaria sorbifolia</i> 'Aurora'	59
<i>Pyrus</i> 'Early Gold'	48	<i>Sorbus americana</i>	60
<i>Quercus ellipsoidalis</i>	48	<i>Sorbus aucuparia</i> 'Rossica'	60
<i>Quercus rubra</i>	49	<i>Sorbus intermedia</i>	60
<i>Quercus x warei</i> 'Long'	49	<i>Sorbus scopulina</i>	61
<i>Rhododendron</i> 'P.J.M.'	49	<i>Spiraea japonica</i> 'Alpina'	61
<i>Ribes alpinum</i>	50	<i>Spiraea japonica</i> 'Mertyann'	61
<i>Rosa</i> 'BAIface' Easy Elegance 'Funny Face'	50	<i>Spiraea nipponica</i> 'Halwards Silver'	62
<i>Rosa</i> 'BAIhero' Easy Elegance 'My Hero'	50	<i>Spiraea x arguta</i> 'Compacta'	62
<i>Rosa</i> 'BAline' Easy Elegance 'Yellow Submarine'	50	<i>Spiraea x bumalda</i> 'Crispa'	62
<i>Rosa</i> 'BAling' Easy Elegance 'Grandma's Blessing'	50	<i>Spiraea x bumalda</i> 'Goldflame'	62
<i>Rosa</i> 'Champlain'	51	<i>Spiraea x bumalda</i> 'Golden Carpet'	63
		<i>Spiraea x bumalda</i> 'Green Carpet'	63
		<i>Spiraea x bumalda</i> 'Sparkling Carpet'	63

<i>Spiraea x cinerea</i> 'Grefsheim'	63	<i>Tilia cordata</i> 'Ronald'	70
<i>Spiraea x japonica</i> 'Goldmound'	64	<i>Tilia mongolica</i>	70
<i>Spiraea x</i> 'Korman'	64	<i>Tilia mongolica</i> 'Harvest Gold'	70
<i>Symphocarpos doorenbosi</i> 'Marlene'	64	<i>Tilia x flavescens</i> 'Dropmore'.....	71
<i>Symphocarpos orbiculatus</i> 'Taff's Silver Edge' ..	64	<i>Ulmus americana</i>	71
<i>Syringae</i> 'Baibell'	65	<i>Ulmus americana</i> 'Brandon'	71
<i>Syringa meyerii</i> 'Palibin'	65	<i>Ulmus davidiana var. japonica</i> 'Discovery'	72
<i>Syringa reticulata</i> 'Ivory Silk'	65	<i>Ulmus pumila</i>	72
<i>Syringa x hyacinthiflora</i> 'Blanche Sweet'	65	<i>Viburnum dentatum</i>	73
<i>Syringa x prestoniae</i> 'Minuet'	66	<i>Viburnum dentatum</i> Christom.....	73
<i>Syringa x prestoniae</i> 'Royalty'	66	<i>Viburnum lantana</i>	73
<i>Tamarix ramosissima</i> 'Summer Glow'	66	<i>Viburnum lantana</i> 'Mohican'	73
<i>Taxus cuspidata</i>	67	<i>Viburnum opulus</i> 'Compactum'	74
<i>Thuja occidentalis</i> 'Brandon'	67	<i>Viburnum opulus</i> 'Roseum'.....	74
<i>Thuja occidentalis</i> 'Little Giant'	68	<i>Viburnum sargentii</i> 'Onondaga'	75
<i>Thuja occidentalis</i> 'Smaragd'	68	<i>Viburnum trilobum</i> 'Alfredo'	75
<i>Thuja occidentalis</i> 'Teddy'	68	<i>Viburnum x</i> 'Emerald Triumph'	75
<i>Tilia americana</i> 'Redmond'	68	<i>Weigela florida</i> 'Centennial'	76
<i>Tilia cordata</i>	69	<i>Weigela florida</i> 'Ruby Queen'	76
<i>Tilia cordata</i> 'Greenspire'.....	69	<i>Weigela florida</i> 'Rumba'.....	76

Index – Common Name

Artemisia

Silver Brocade.....	5
---------------------	---

Ash

American Mountain Ash	60
Bergeson Ash.....	19
Black Ash 'Brendan's Selection'	18
Black Ash	17
Fallgold Black Ash.....	18
Foothills Ash.....	20
Green Ash 'Brendan's Selection'	19
Green Ash	18
Green's / Western Mountain Ash	61
Jordan Ash	20
Manchurian Ash	17
Northern Treasure Ash	22
Patmore Green Ash	21
Plains Green Ash	21

Ash

Prairie Spire® Ash.....	21
Prairie Dome® Ash	20
Russian Mountain Ash	60

Barberry

Cherry Bomb® Japanese Barberry	5
Golden Nugger® Japanese Barberry.....	5
Rosy Glow Barberry	6
Royal Burgundy® Barberry	5
Sunsation® Japanese Barberry	5

Birch

Cut-leaf Weeping Birch	6
Purple Rain Birch	6
Water Birch	7

Broom

Prostrate Broom.....	13
Vancouver Gold Broom	22

Buckeye		Daphne	
Ohio Buckeye.....	4	Rose Daphne	14
Burning Bush		Ruby Glow Daphne.....	14
Dwarf Winged Burning Bush.....	15	Dogwood	
Butternut	25	Dogwood.....	9
Caragana		Bud's Yellow Dogwood	11
Globe Caragana.....	7	Cream Cracker Dogwood	9
Robobrovski Caragan	7	Golden Twigged Dogwood.....	11
Spiny Red Caragana.....	7	Ivory Halo ® Dogwood	9
Walker Weeping Caragana	7	Mottled Dogwood	9
Cedar		Siberian Coral Dogwood.....	10
Blue Arrow Red Cedar	28	Siberian Pearls Dogwood	10
Brandon Cedar.....	67	Silver and Gold Dogwood	12
Emerald Cedar.....	68	Silver Leafed Dogwood.....	8
Little Giant Cedar	68	Variegated Siberian Dogwood	11
Teddy Cedar.....	68	Elder	
Cherry		Black Beauty Elder.....	59
Carmine Jewel Cherry	48	Golden Elder	58
Chokeberry		Golden Plume Elder.....	59
Autumn Magic Black Chokeberry.....	34	Madonna Elder.....	59
Chokecherry		Elm	
Midnight Schubert Chokecherry.....	48	American Elm.....	71
Crabapple		Brandon Elm	71
Kelsey Flowering Crabapple	31	Discovery Japanese Elm	72
Makamik Flowering Crabapple	31	Manchurian/Siberian Elm.....	72
Mill Stream Crabapple	32	Euonymous	
Pink Spires Crabapple	32	Maacki Euonymous.....	15
Radiant Flowering Crabapple	32	Fir	
Red Jade Crabapple	33	Dwarf Balsam Fir	1
Royal Beauty Crabapple	33	Forsythia	
Selkirk Flowering Crabapple	33	Floraliz Forsythia.....	16
Snowcap White Flowering Crabapple.....	34	Northern Gold Forsythia	16
Thunderchild Flowering Crabapple	34	Hackberry	8
Weeping Rosy Glo Crabapple	34	Hawthorn	
Cranberry		Russian Hawthorn.....	12
Alfredo Compact American Cranberry	75	Snowbird Hawthorn	12
Compact European Cranberry	74	Toba Hawthorn.....	12
Currant		Honeysuckle	
Alpine Currant.....	50	Albert Regal (Thorn) Honeysuckle.....	30
Cypress		Dwarf Bush Honeysuckle.....	29
Sungold Threadleaf Cypress	8	Georges Bugnet Sweetberry Honeysuckle ...	29
Daphne		Sakhalin Honeysuckle.....	29
Carol Mackie Daphne	14	Sunstar White Honeysuckle.....	30
		Yellow Trumpet Honeysuckle	30

Hydrangea

Annabelle Hydrangea	23
Endless Summer Hydrangea	24
Late Panicle Hydrangea	24
Limelight Hydrangea	24

Juniper

Blue Hetz Juniper	26
Buffalo Juniper	27
Crowfoot Common Juniper	26
Dunvegan Blue Juniper	27
Paul's Gold Juniper	26
Wichita Blue Juniper	28

Larch

Lindquist Siberian Larch	28
Siberian Larch	28

Lilac

Blanche Sweet Lilac	65
Dwarf Korean Lilac	65
Ivory Silk Lilac	65
Minuet Lilac	66
Royalty Lilac	66
Tinkerbelle	65

Linden

Dropmore Linden	71
Greenspire® Linden	69
Harvest Gold Linden	70
Littleleaf Linden	69
Mongolian Linden	70
Norlin™ Linden	70
Redmond Linden	68

Maple

Autumn Spire Maple	2
Autumn Blaze ® Maple	3
Emerald Queen Norway Maple	2
Korean Maple	2
Northwood Maple (PP5053)	3
Red Sunset® Maple	3
Rocky Mountain Maple	1
Red Sunset® Maple	2
Rocky Mountain Maple	1
Sensation Box Elder Maple (PPAF)	1
Silver Cloud® Maple	3
Silver Maple	3

Mayday

Ethel Mayday	47
Foothills Mayday	47
Sunstar Mayday	48

Mockorange

Blizzard Mockorange	35
Minnesota Snowflake Mockorange	35

Ninebark

Dart's Gold Ninebark	35
Diabolo ® Ninebark	36
Nugget Ninebark	36
Seward Ninebark	36
Snowfall Ninebark	37

Oak

Northern Pin Oak	48
Red Oak	49
Regal Prince Oak	49

Pear

Early Gold Pear	48
-----------------------	----

Pine

Bosnian Pine	41
Bristlecone Pine	40
Bugnet Scots Pine	42
Korean Pine	41
Lodgepole Pine	40
Mongolian Strain Scots Pine	42
Ponderosa Pine	41
Prairie Green Scots Pine	42
Red Pine	42
Swiss Stone Pine	40
Western White Pine, Whitebark Pine	39

Plum

Princess Kay Plum	47
-------------------------	----

Poplar

Escot Poplar	44
Prairie Sky Poplar	44
Raket White Poplar	43
Saber Aspen	44
Silver Poplar	43
Tower Poplar	44

Potentilla

Floppy Disc Potentilla	45
Mango Tango Potentilla	45

Potentilla		Spruce	
Pink Beauty Potentilla	45	Bird's Nest Spruce	37
Red Robin Potentilla	46	Chinese Dragon Spruce.....	38
Yellow Gem Potentilla	46	Colorado Blue Spruce.....	39
Privet		Montgomery Spruce.....	39
Lodense Privet	28	Norway Spruce	37
Rhododendron		Picea koyamai.....	38
P.J.M. Rhododendron	49	White Spruce	38
Rose		Tamarisk	
Champlain Rose	51	Summer Glow Tamarisk.....	66
David Thompson Rose	51	Viburnum	
Flower Carpet™ Pink Rose	53	Arrowwood Viburnum.....	73
Funny Face Easy Elegance Rose.....	50	Blue Muffin Arrowwood	73
Grandma's Blessing Easy Elegance Rose ...	50	Emerald Triumph Viburnum	75
Jens Munk Rose	52	European Snowball /Common Snowball.....	74
John Cabot Rose	52	Mohican Wayfaring Tree	73
Meidiland Bonica Rose	52	Onondaga Viburnum	75
Morden Centennial Rose	53	Wayfaring Tree.....	73
My Hero Easy Elegance Rose	50	Walnut	
Prairie Dawn Rose.....	54	Black Walnut	24
Yellow submarine Easy Elegance Rose.....	50	Manchurian Walnut	25
Russian Olive	15	Weigela	
Sea Buckthorn	23	Centennial Weigela.....	76
Siberian Salt Bush	23	Ruby Queen Weigela.....	76
Snowberry		Rumba Weigela	76
Pink Snowberry	64	Willow	
Taff's Silver Edge Snowberry	64	Acute Leafed Willow	54
Spirea		Blue Fox Willow	56
Aurora False Spirea	59	Creeping Willow	57
Crispa Spirea	62	Daphne Willow	56
Dakota Goldcharm™ Spirea	61	Felt Leaf Willow.....	57
Daphne Spirea	61	Weeping Green Willow	55
Dwarf Garland Spirea	62	Golden Willow	54
Golden Carpet Spirea	63	Laurel Leaf Willow.....	56
Goldflame Spirea	62	Nashiki Willow	56
Goldmound Spirea	64	Prairie Cascade Willow	58
Grefsheim Spirea	63	Polar Bear Willow.....	57
Green Carpet Spirea.....	63	Thunder Mountain Willow	55
Halwards Silver Spirea.....	62	Whitebeam	
Korman Spirea	64	Swedish Whitebeam	60
Sparkling Carpet Spirea.....	63	Woadwaxen	
		Lydia Woadwaxen.....	22
		Yew	
		Spreading Japanese Yew	67

Introduction

Since 1983 the Regional Woody Plant Test Project (RWPTP) has been evaluating new woody plant species and cultivars in Alberta. It is a cooperative trial between Alberta Agriculture Food and Rural Development, Crop Diversification Centre South (CDCS), the Landscape Alberta Nursery Trades Association Growers Group and Research Committee and five current and four past nursery cooperators. Staff at CDCS coordinate planting and data collection at all sites and the nursery cooperators donate the space and maintain the plant material on their site.

In the RWPTP, plants are monitored for landscape quality and hardiness for six years. At the end of the evaluation period, recommendations are made about the suitability for growth in the following regions which represent much of the climatic diversity of Alberta: Fairview, Edmonton, Red Deer, Calgary, Brooks and Lethbridge. Plant material for the trial has generally been chosen from North American nurseries with a few selections from around the world.

Many thanks to all of the people who have directed, cooperated, or contributed to this project since its inception in 1983.

Acknowledgements

Dwayne Beck	Parkland Nurseries, Red Deer
Doug and Chris Berggren	Alberta Nurseries and Seeds, Bowden
Karen Barby	Green Haven Tree Farm Ltd., Lethbridge
Tom Bidart	Fairview College, Fairview
Simon Bos	Simon Bos Nurseries, Coaldale
Brendan Casement	Retired leader, Agroforestry Program, CDC North, Edmonton
George Grainger	Retired leader, Agroforestry Program, CDC North, Edmonton
Don Hay	Lacombe Nurseries, Lacombe
John Helder	City of Edmonton, Old Man Creek Nursery
Henry Heuver	Foothills Nurseries, Calgary
Hans Kuperus	Coaldale Nurseries, Coaldale
Lemoine Maryniak	CDC North Edmonton
Bev Minsky	City of Edmonton, Old Man Creek Nursery
Herman Oosterhuis	CDC North Edmonton
Bev Rogerson	Willow Valley Nursery, Grande Prairie
Cathy Safronovich	CDC South, Brooks
Angela Spencer	CDC South, Brooks
Thean Pheh	CDC North Edmonton

Graduates 2004 and 2005

2004

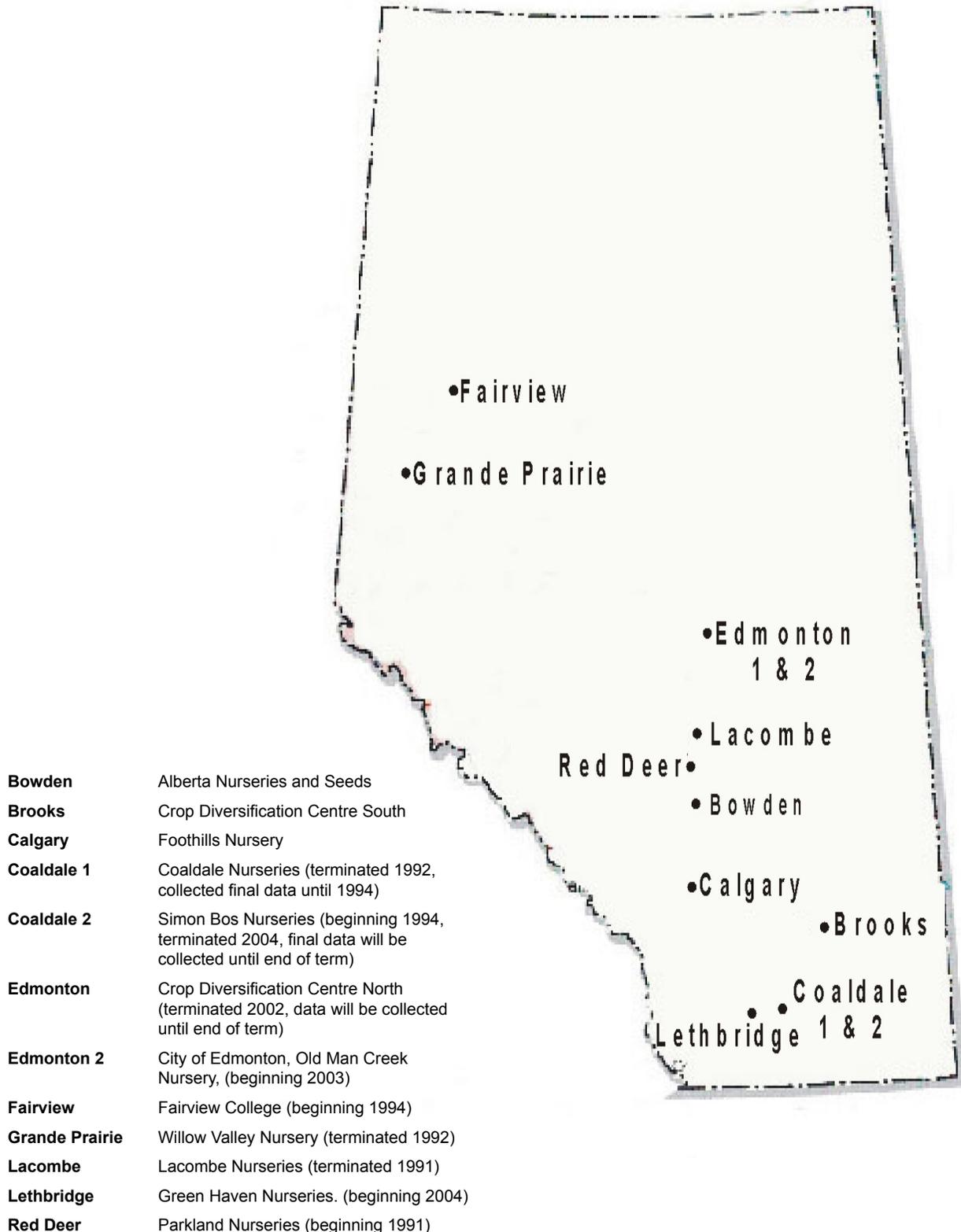
<i>Acer negundo</i> 'Sensation'	Sensation Box Elder Maple (PPAF)
<i>Acer rubrum</i> 'Autumn Spire'	Autumn Spire Maple (PP7803)
<i>Cornus sericea</i> 'Silver and Gold'	Silver and Gold Dogwood
<i>Crataegus ambigua</i>	Russian Hawthorn
<i>Euonymus hamiltonianus</i> var. <i>maacki</i>	Maacki Euonymous
<i>Physocarpus opulifolius</i> 'Nugget'	Nugget Ninebark
<i>Spiraea japonica</i> 'Mertyann'	Dakota Goldcharm™ Spirea
<i>Syringa x hyacinthiflora</i> 'Blanche Sweet'	Blanche Sweet Lilac
<i>Viburnum x 'Emerald Triumph'</i>	Emerald Triumph Viburnum
<i>Physocarpus opulifolius</i> 'Snowfall'	Snowfall Ninebark
<i>Prunus nigra</i> 'Princess Kay'	Princess Kay Plum
<i>Salix babylonica</i> 'Lace'	Weeping Green Willow

2005

<i>Acer saccharinum</i> 'Silver Cloud'	Silver Cloud ® Maple
<i>Cornus alba</i> 'Ivory Halo'	Ivory Halo ® Dogwood (PP8722)
<i>Physocarpus opulifolius</i> 'Diabolo'	Diabolo ® Ninebark
<i>Populus x canadensis</i> 'Prairie Sky'	Prairie Sky Poplar (COPF)
<i>Potentilla fruticosa</i> 'Mango Tango'	Mango Tango Potentilla
<i>Ulmus dividiana</i> var. <i>japonica</i> 'Discovery'	Discovery Japanese Elm (PPAF)
<i>Viburnum sargentii</i> 'Onondaga'	Onondaga Viburnum



Trial Locations



Definitions of categories in report

Recommendations

H - Highly recommended

N - Not recommended

R - Recommended

F - Failed because of unfavourable soil conditions, weed competition

S - Recommended, but needs extra care competition, mechanical or animal damage.

Recommendations in lower case letters are based on less than the six growing seasons of observations or plants require extra maintenance.

Trial average

The average height of the plants after six growing seasons, unless noted. This is not necessarily the mature size of the plant.

Rating

A numerical index based on the scores recorded each year at evaluation, winter injury and landscape quality characteristics are the main criteria for rating the plants.

Annual Scoring

0 - dead 3 - fair, injury to branches,

1 - poor, low sprouts 4 - good, some tip kill,

2 - major dieback 5 - excellent, no injury

An empty box under a site indicates the plant was not tested at that location. In Coaldale the RWPTP has been located at two different sites: 1 (83 - 94) and 2 (94 - present). In some cases the same selection was planted at both locations, differences in the recommendations are a result of differences in soil and water conditions.



Terms used in plant descriptions

Alkaline conditions: high pH and/or saline soil conditions.

Urban conditions include: air pollution such as car exhaust, salt spray, excessive heat, poor soil, wind tunnel effect.

Roadside conditions include: salt spray, pollution, poor soil.

Bleeding: sap movement in the spring which results in weeping or 'bleeding' from any pruning cuts; thus, these species must be pruned after leafing out. Species affected - maple (*Acer*), birch (*Betula*), walnut (*Juglans*).

Juniper blight: tips of affected branches first turn brown, followed by progressive dieback until entire branches are dead.

PP (followed by a 4 digit number) - a patented plant.

PPAF a cultivar for which a plant patent has been applied for.

TM a trademark is declared and has been filed for registration.

COPF a cultivar propagated under agreement with the Canadian Ornamental Plant Foundation.

® indicates a registered trademark

Additional notes

Deer are a problem in most sites.

High pH and alkaline soil conditions contributed to lower scores at Coaldale, and to a lesser extent at Calgary.

Some plants have not been reported.

Lonicera x korolkowii 'Zabelli' had a major black aphid infestations on all sites.

Other plants were obviously misnamed or mixed up.

Botanical plant names are based on the sources: *Manual of Woody Landscape Plants*, M.A. Dirr 1990 and *Hortus Third*, 1976.

Abies balsamea 'Nana'**Dwarf Balsam Fir**

Recommendation: highly recommended at Edmonton and Red Deer, plants did well in Bowden but were destroyed after two years of testing, not recommended at Calgary or Brooks.

Trial Average: **Height:** 27 cm **Spread:** 49 cm

Form: slow growing, dense, compact evergreen shrub.

Features: dark green needles, whitish on underside.

Culture: prefers moist, well-drained, acid soil, somewhat shade tolerant, not tolerant of urban conditions.

Site	Grande Prairie	Edmonton	Red Deer	Bowden	Calgary	Brooks	Coaldale 1
Trial Period		91-97	91-97	91-97	91-96	91-96	
Height-Spread		27-83	31-55		33-36	18-29	
Rating		4.5	4.5		2.5	2.5	
Recommendation		H	H	F	N	N	

Acer glabrum**Rocky Mountain Maple**

Recommendation: not recommended, plants suffered winter dieback of stems every year, native throughout Rocky Mountain slopes and streams.

Trial Average: **Height:** 163 cm **Spread:** 161 cm

Form: large shrub, attractive red stems in winter.

Features: three lobed, shiny green leaves with long red petioles.

Culture: prefers a well-drained soil, plenty of moisture, tolerant of dry, poor soils, xeriscape plant.

Site	Grande Prairie	Edmonton	Red Deer	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	93-91	83-91			84-91	83-91	
Height-Spread	177-165	179-189			133-129	136-159	
Rating	2.3	2.2			2.2	2.9	
Recommendation	N	N			N	N	

Acer negundo 'Sensation'**Sensation Box Elder Maple (PPAF)**

Recommendation: not recommended at any site. Failed after second winter in Fairview. One plant survived at Red Deer and Edmonton, two plants in Coaldale and four plants survived in Brooks and Calgary. At each site the plants had soft growth when evaluated each September which died back over the winter.

Trial Average: **Height:** 2.8 m **Spread:** 2.3 m

Form: rounded shape tree.

Features: medium green foliage during summer bright red in the fall.

Culture: medium to slow growing specimen tree.

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	99-01	99-01	99-04	99-04	99-04	99-04
Height-Spread		268-266	282-182	332-293	243-181	268-229
Rating		1	2	2	1.7	2
Recommendation	F	N	N	N	N	N

Acer platanoides* 'Emerald Queen'*Emerald Queen Norway Maple**

Recommendation: not recommended, died back to snow line most winters.
Trial Average: **Height:** 214 cm **Spread:** 141 cm
Form: upright, broadly oval tree, straight trunk.
Features: dark glossy green, leathery leaves.
Culture: where the tree is hardy it is adapted to urban conditions, does not tolerate 2,4-D

Site	Grande Prairie	Edmonton	Red Deer	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	85-91	85-94	85-94	85-94	88-91	85-91	85-91
Height-Spread	200-125	224-152		200-146			
Rating	1.9	2.0		2.5			
Recommendation	N	N	N	N	N	N	N

Acer pseudosieboldianum**Korean Maple**

Recommendation: not recommended at any location. At Calgary and Brooks, only one plant survived at each location. At Coaldale, 3 plants survived but were struggling. The plants were lost at the other locations.
Trial Average: **Height:** 44 cm **Spread:** 45 cm
Form: small, rounded to broad-rounded, fine textured shrub.
Features: green-red leaves changing to orange-red in fall, purple flowers.
Culture: —

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 1
Trial Period	96	96	96	96	96-01	96-01	96
Height-Spread					80-55	45-61	7-19
Rating					2	2	1
Recommendation	N	N	N	N	N	N	N

Acer rubrum* 'Autumn Spire'*Autumn Spire Maple (PP7803)**

Recommendation: introduced by the University of Minnesota. Failed in Fairview, Edmonton and Coaldale and lost the remaining two plants over the final winter in Brooks. Two plants survived at the sites in Calgary and Red Deer, however the plants had poor shape and suffered winter dieback each year.
Trial Average: **Height:** 1.8 m **Spread:** 1.1 m
Form: broad columnar tree.
Features: green leaves, consistent red fall colour, showy red flowers in spring.
Culture: specimen tree.

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	99-04	99-04	99-04	99-04	99-04	99-04
Height-Spread			130-65	201-157		
Rating			1	1.5	0	
Recommendation	F	F	N	N	N	F

2	Ratings:	0 - dead	2 - major dieback	4 - good, some tip kill
		1 - poor, low sprouts	3 - fair, injury to branches	5. excellent, no injury

Acer rubrum 'Northwood'**Northwood Maple (PP5053)**

Recommendation: not recommended at any location, damaged excessively every winter.
Trial Average: **Height:** 140 cm **Spread:** 65 cm
Form: irregular, rounded-oval crown.
Features: dark green leaves turning to orange-red in the fall.
Culture: prefers moist slightly acid soil.

Site	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	92-97	92-97	92-97			
Height-Spread	181-89	86-41	160-64			
Rating	1	1	1			
Recommendation	N	N	N			

Acer rubrum 'Franksred'**Red Sunset® Maple**

Recommendation: not recommended at any location, all plants in test died.
Trial Average: **Height:** no data **Spread:** no data
Form: dense, upright, pyramidal to rounded tree.
Features: bright green leaves, fall foliage red, retains fall colour longer than other cultivars.
Culture: good urban tree if grown in recommended area, prefers slightly acid, moist soil, on own root.

Acer saccharinum**Silver Maple**

Recommendation: not recommended, no plants survived first planting in 1985, replanted in Brooks and Calgary, but plants were winter-killed back to snow line in most years.
Trial Average: **Height:** no data **Spread:** no data
Form: fast growing, loose, oval-shaped tree.
Features: green leaves, with silvery underside.
Culture: tolerates harsh conditions, prefers moist soils, vigorous feeding root system.

Acer saccharinum 'Silver Cloud'**Silver Cloud® Maple**

Recommendation: Satisfactory in Red Deer where three plants survived and did well and in Brooks where all plants survived but three did very well. In Fairview, the one surviving plant was good; the surviving plants in Coaldale and Calgary were poor. Plants did not survive the second season at Edmonton.
Trial Average: **Height:** 3.3 m **Spread:** 2.8 m
Form: round shade tree, vigorous growth.
Features: light green leaves, yellow in fall silver colour, good clean silver trunk.
Culture: hardier selection of silver maple.

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	00-05	00-05	00-05	00-05	00-05	00-05
Height-Spread	335 - 296		351 - 240	307 - 283	416 - 359	161 - 95
Rating	3		3	2	2.6	1
Recommendation	N	F	S	N	S	N

Acer x freemanii 'Jeffersred'**Autumn Blaze® Maple (PP4864)****Recommendation:** not recommended at any location, plants deteriorated progressively each year.**Trial Average:** **Height:** 212 cm **Spread:** 150 cm**Form:** dense, oval crown with ascending branches.**Features:** rich green leaves changing to orange-red in the fall, deeply lobed.**Culture:** on own root, drought and soil condition tolerant.

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	96-01	96-01	96-00	96-01	96	96-01	96
Height-Spread	70-35	201-145	317-189	212-179		261-200	
Rating	1	2	2.8	3		2.3	
Recommendation	N	N	N	N	N	N	N

Aesculus glabra**Ohio Buckeye****Recommendation:** recommended with the expectation of some winter dieback. Plants grew quite well for several years then one or more of the five died at Edmonton, Calgary and Grande Prairie. Significant winter injury during the first year at Coaldale and Bowden, but plants grew back from basal buds.**Trial Average:** **Height:** 140 cm **Spread:** 100 cm**Form:** small, low, rounded tree.**Features:** palmate, green leaves, each leaf usually has 7 leaflets, very dense canopy.**Culture:** prefers moist, well-drained soil.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	85-91	85-91	85-94	85-94	85-91	85-91	85-91
Height-Spread	117-41	180-154	119-74	149-131	140-116	132-80	59-23
Rating	2.3	3.4	3.6	3.9	3.6	3.2	2.9
Recommendation	S	R	R	R	R	R	S

Aronia melanocarpa 'Autumn Magic'**Autumn Magic Black Chokeberry****Recommendation:** highly recommended at Edmonton and Brooks where the shrubs were excellent. The plants winter killed to snowline in Fairview and did not recover after the third season. Minor tip kill noted in Edmonton and Red Deer. Some pear slug was noted at Brooks, Calgary and Coaldale. Introduced by the University of British Columbia.**Trial Average:** **Height:** 106 cm **Spread:** 104 cm**Form:** compact shrubs, holds black fruit well into winter.**Features:** glossy green leaves with good red fall colour, masses of white flowers.**Culture:** susceptible to pear slug, deer like tender shoots, full sun to partial shade, tolerant of most soil types.

Site	Fairview	Edmonton	Red Deer	Bowden	Calgary	Brooks	Coaldale 2
Trial Period	95-00	95-00	95-00	95-00	95-00	95-00	95-00
Height-Spread		144-56	111-89	69-50	97-99	138-176	78-86
Rating		5.0	3.0	1.5	3.0	5.0	2.0
Recommendation	F	H	S	N	R	H	N

4	Ratings:	0 - dead	2 - major dieback	4 - good, some tip kill
		1 - poor, low sprouts	3 - fair, injury to branches	5. excellent, no injury

Artemisia stellerana 'Silver Brocade'**Silver Brocade (COPF)**

Recommendation: highly recommended at Fairview, Edmonton, Calgary, Brooks and Coaldale. Although rating is low at Red Deer and Bowden, it's recommended because the plants performed very well until they were cultivated. Introduced by the University of British Columbia.

Trial Average: **Height:** 23 cm **Spread:** 134 cm

Form: ground cover, tendency to develop a bare spot in the centre as the plant ages.

Features: silver colour leaves, floral stalks are persistent and must be pruned off each spring.

Culture: prefers moist, well-drained, acidic soil, somewhat shade tolerant, xeriscape plant.

Site	Fairview	Edmonton	Red Deer	Bowden	Calgary	Brooks	Coaldale 2
Trial Period	94-99	94-99	95-99	94-98	94-99	94-96	94-99
Height-Spread	22-85	17-176	6-82	9-110	18-149	*23-63	64-218
Rating	4.0	4.0	1.0	2.0	4.0	4.0	5.0
Recommendation	H	H	R	R	H	h	H

*data for Brooks was collected for only 3 years then plants had to be moved, the data is not included in trial average

Berberis thunbergii 'Gentry'**Royal Burgundy® Barberry (PP9461)**

Recommendation: planted in trial in 2004.

Trial Average: **Height:** — **Spread:** —

Form: dense mounding form shrub.

Features: rich, burgundy foliage changing to reddish-black in the fall

Culture: full sun, regular water.

Berberis thunbergii 'Monomb'**Cherry Bomb® Japanese Barberry**

Recommendation: planted in trial in 2004.

Trial Average: **Height:** — **Spread:** —

Form: compact branching - good for low hedge.

Features: deep crimson colour foliage, bright red fruit.

Culture: full sun, regular water.

Berberis thunbergii 'Monry'**Sunsation® Japanese Barberry (PP11332)**

Recommendation: planted in trial in 2004.

Trial Average: **Height:** — **Spread:** —

Form: compact dwarf form.

Features: golden foliage with orange case.

Culture: full sun, regular water.

Berberis thunbergii 'Moulers'**Golden Nugget® Japanese Dwarf Barberry (PP9577)**

Recommendation: planted in trial in 2004.

Trial Average: **Height:** — **Spread:** —

Form: compact dwarf form.

Features: non burning golden foliage with orange cast.

Culture: full sun, regular water.

Berberis thunbergii* 'Rose Glow'*Rose Glow Barberry**

Recommendation: planted in trial in 2002.
Trial Average: **Height:** — **Spread:** —
Form: rounded compact shrub.
Features: rose-red variegated foliage maturing to deep maroon. Yellow flowers and red fruit.
Culture: place in full sun for best colour.

Betula occidentalis**Water Birch**

Recommendation: several good specimens grow in Calgary and Brooks; however, there were insufficient plants for full testing to occur, retriial required.
Trial Average: **Height:** 6-9 m (not based on testing) **Spread:** 6-9 m (not based on testing)
Form: small tree with attractive reddish-brown bark.
Features: dark green leaves.
Culture: prefers moist conditions.

Betula pendula* 'Gracilis'*Cut-leaf Weeping Birch**

Recommendation: recommended at all locations in Alberta, birch leaf miner can be a problem.
Trial Average: **Height:** 4.8 m **Spread:** 2.6 m
Form: graceful, white-barked tree with clustered, weeping branches, no central leader.
Features: green leaves are finely cut, very delicate.
Culture: prefers moist, well-drained conditions, prune summer or early fall to prevent 'bleeding'.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	84-89	84-91	84-89		84-91	84-91	84-91
Height-Spread		525-281	509-222		247-257	540-268	489-263
Rating	3.5	4.1	4.3		4.4	4.4	4.4
Recommendation	R	R	R		R	R	R

Betula pendula* 'Purple Rain'*Purple Rain Birch**

Recommendation: recommended at Bowden and Brooks, not recommended at Calgary or Red Deer, grew well at Edmonton, but was severely damaged in harsh winter, winterkilled to snowline most years, may do better with protection.
Trial Average: **Height:** 164 cm **Spread:** 150 cm
Form: oval, pyramidal crown with graceful, pendulous branches, fairly fast growing.
Features: serrated, vivid purple leaves, white bark.
Culture: prefers well-drained soil, tolerates wet or dry soil, somewhat pH tolerant, leaf miner and birch borer can be a problem.

Site	Grande Prairie	Edmonton	Red Deer	Bowden	Calgary	Brooks	Coaldale 1
Trial Period		91-97	91	91-96	91-96	91-96	
Height-Spread		136-138		298-223	135-202	51-75	
Rating		2.0		5.0	2.0	3.5	
Recommendation		N	N	H	N	R	

6	Ratings:	0 - dead	2 - major dieback	4 - good, some tip kill
		1 - poor, low sprouts	3 - fair, injury to branches	5. excellent, no injury

Caragana arborescens 'Walker'**Walker Weeping Caragana**

Recommendation: recommended in all locations in Alberta, did not tolerate high pH soil or strong weed competition, interesting feature plant.

Trial Average: **Height:** stems weep to ground **Spread:** 75 cm

Form: weeping plant, grafted onto a Sutherland caragana rootstock at about 1.5 m high.

Features: light green, finely cut leaves.

Culture: tolerates poor soils and high winds, poor growth in high pH soil.

Site	Grande Prairie	Edmonton	Red Deer	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	86-94	85-94	86-94	86-94	86-91	86-91	86-91
Height-Spread	*-72	*-8.5	*-51	*-70	*-89	*-85	
Rating	4.8	4.0	5.0	4.8	4.6	4.8	
Recommendation	H	R	h	H	R	H	F

* Plants grafted at 5 feet and weep to the ground

Caragana frutex 'Globosa'**Globe Caragana**

Recommendation: recommended at all locations in Alberta, special care requirements at Lacombe and Coaldale due to pH sensitivity, does not tolerate weed competition.

Trial Average: **Height:** 56 cm **Spread:** 50 cm

Form: slow growing, dense, globe-shaped shrub.

Features: green, fine textured leaves.

Culture: sensitive to high pH soil.

Site	Grande Prairie	Edmonton	Red Deer	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	87-94	84-94	88-94	84-94	84-91	84-91	84-93
Height-Spread	30-20	75-59	48-43	57-50	57-50	72-86	45-35
Rating	4.0	4.2	4.3	3.3	3.3	4.2	3.6
Recommendation	R	R	R	R	R	R	S

Caragana roborovskyi**Robobrovski Caragana**

Recommendation: planted in 2004.

Trial Average: **Height:** — **Spread:** —

Form: rounded form, grafted on top of standard shrub.

Features: showy yellow pea-like flowers, light green foliage.

Culture: prefers sunny locations.

Caragana tragacanthoides**Spiny Red Caragana**

Recommendation: planted in 2004.

Trial Average: **Height:** — **Spread:** —

Form: rounded form grafted on top of standard shrub.

Features: showy yellow pea-like flowers, light green foliage, spines emerging from red base.

Culture: prefers sunny locations.

Celtis occidentalis* 'Eagle Lake Nursery Selection'*Hackberry**

Recommendation: satisfactory only in Edmonton, Calgary, Brooks and Coaldale where dieback and odd growth occurred at all locations and only one plant survived at Coaldale. Plants are not recommended at Fairview and Bowden where all plants eventually died. In Red Deer, the plants did not survive the first season.

Trial Average: **Height:** 2.8 m **Spread:** 2.2 m

Form: spreading, rounded crown.

Features: green leaves, yellow in fall, corky and rough bark.

Culture: tolerates dry conditions.

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	97	97-01	97	97	97-02	97-02	97-02
Height-Spread		16-148			313-260	255-258	370-228
Rating		2.8			1.8	1.8	3
Recommendation	N	s	N	R	S	S	S

Chamaecyparis pisifera fillifera* 'Sungold'*Sungold Threadleaf Cypress**

Recommendation: planted in trial in 2003.

Trial Average: **Height:** — **Spread:** —

Form: slow growing, mounding shrub.

Features: bright yellow foliage on thread-like, bright yellow branches. Yellow-green foliage.

in fall.

Culture: full-sun.

Cornus alba* 'Argenteo Marginata'*Silver Leafed Dogwood**

Recommendation: recommended at all locations in Alberta, did not tolerate high pH soil or strong weed competition.

Trial Average: **Height:** 126 cm **Spread:** 196 cm

Form: vigorous, shrub, bright red stems, very attractive in winter, new growth has most brilliant stem colour.

Features: variegated cream and green leaves.

Culture: sun or partial shade, tolerant of many soil conditions, prefers moist, well-drained soil.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	86-94	86-94	86-94	86-94	86-91	86-91	86-91
Height-Spread	97-114	169-275	106-106	131-223	110-190	114-236	70-30
Rating	4.0	4.4	4.3	4.7	3.7	3.2	3.0
Recommendation	R	R	R	R	R	R	S

Cornus alba 'Aurea'**Dogwood**

Recommendation: recommended in Edmonton, Brooks and Calgary, only one plant survived in Red Deer, failed at Coaldale and Fairview.

Trial Average: **Height:** 158 cm **Spread:** 226 cm

Form: shrub.

Features: green blended leaves turning soft yellow to striking yellow in fall.

Culture: large shrub, requires space.

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	98-03	98-03	98-03	98-03	98-03	98-03
Height-Spread		184-226	75-118	158-233	149-245	
Rating		4	3	4	3.6	
Recommendation	F	R	N	R	R	F

Cornus alba 'Bailhalo'**Ivory Halo® Dogwood (PP8722)**

Recommendation: planted in 2000. Introduced by Bailey Nurseries Inc., St. Paul, Minnesota. Recommended at all sites, highly recommended at Calgary and Brooks.

Trial Average: **Height:** 0.8 m **Spread:** 1.6 m

Form: full, compact, rounded, fine textured shrub. Has excellent form.

Features: variegated cream and green leaves with red stems.

Culture: suitable for smaller yards. Some dieback occasionally occurs requiring some pruning, but pruning for shape is not required.

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	00-05	00-05	00-05	00-05	00-05	00-05
Height-Spread	56 - 103	71 - 151	87 - 158	102 - 232	104 - 182	75 - 119
Rating	3.8	3	3.8	4	4.2	3.7
Recommendation	R	R	R	H	H	R

Cornus alba 'Cream Cracker'**Cream Cracker Dogwood(COPF)**

Recommendation: planted in trial in 2002.

Trial Average: **Height:** — **Spread:** —

Form: compact variegated dogwood.

Features: green foliage with creamy margins. Creamy white flowers.

Culture: —

Cornus alba 'Gouchaulti'**Mottled Dogwood**

Recommendation: recommended at Grande Prairie, Lacombe and Calgary, satisfactory at Bowden, Coaldale, and Brooks, not recommended at Edmonton. Some winter tipkill at Grande Prairie and Bowden, all locations had some plant mortality after 2 or 3 years. Did not tolerate strong weed competition.

Trial Average: **Height:** 84 cm **Spread:** 136 cm

Form: vigorous, rounded shrub with deep red stems for attractive winter colour.

Features: leaf edging is yellow and rose, center green and rose.

Culture: sun or partial shade, prefers moist, well-drained soil.

Cornus alba 'Gouchaulti'**Mottled Dogwood**

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	84-91	84-91	85-94	84-89	84-91	84-91	84-91
Height-Spread	74-129	71-113	108-139	69-135	76-121	72-151	115-166
Rating	3.3	2.0	3.4	3.0	4.1	3.2	3.0
Recommendation	R	N	R	S	R	S	S

Cornus alba 'Siberian Pearls'**Siberian Pearls Dogwood**

Recommendation: highly recommended at all locations, except Fairview where there was some tip kill and cane dieback.

Trial Average: **Height:** 122 cm **Spread:** 181 cm

Form: shrub, bright crimson stems, tends to be a little straggly, regular pruning recommended.

Features: purple-green leaves to deep red in fall, very dark red bark for winter, white fruit have black tips.

Culture: sun or partial shade, prefers moist, well-drained soil.

Site	Fairview	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 2
Trial Period	94-99	94-99	94-99	94-99	94-99	94-96	94-96
Height-Spread	83-126	192-251	114-167	109-167	142-204	*73-82	138-235
Rating	2.0	4.0	4.0	4.0	4.0	4.0	4.0
Recommendation	S	H	H	H	H	h	H

* data for Brooks was collected for only 3 years then plants had to be moved, the data is not included in trial average

Cornus alba 'Sibirica'**Siberian Coral Dogwood**

Recommendation: recommended at Lacombe, Bowden, Brooks and Coaldale, satisfactory at Grande Prairie, Edmonton and Calgary, some winter tipkill in Grande Prairie and Edmonton. May require some winter protection as plants in exposed area in Calgary were killed, while they survived in protected area.

Trial Average: **Height:** 142 cm **Spread:** 180 cm

Form: shrub, upright, spreading, bright coral-red with white fruit.

Features: green leaves, bright coral-red stems with white fruit.

Culture: sun or partial shade, prefers moist, well-drained soil.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	84-89	84-89	84-89	84-89	84-91	84-91	84-91
Height-Spread	97-144	160-207	161-177	159-203	82-116	182-242	152-174
Rating	3.6	3.3	3.5	4.3	3.6	4.5	3.8
Recommendation	S	S	R	R	S	R	R

Cornus alba 'Sibirica Variegata'**Variegated Siberian Dogwood**

Recommendation: recommended at Brooks, not recommended at Calgary, failed at Coaldale, not planted at other locations. Does not tolerate strong weed competition.

Trial Average: **Height:** 117 cm **Spread:** 203 cm

Form: shrub, bright red stems.

Features: variegated cream and green leaves.

Culture: sun or partial shade.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period					86-94	86-91	86-91
Height-Spread						117-203	
Rating						4.0	
Recommendation					N	R	F

Cornus sericea 'Bud's Yellow'**Bud's Yellow Dogwood (COPF)**

Recommendation: recommended in Edmonton, Calgary, Brooks and Coaldale, only one plant survived at Red Deer, failed at Fairview. Seedling selection made by Boughen Nurseries in Saskatchewan.

Trial Average: **Height:** 154 cm **Spread:** 220 cm

Form: rounded shrub.

Features: green leaves with bright yellow stems.

Culture: large plant requires space, resistant to disease and dieback.

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	98-03	98-03	98-03	98-03	98-03	98-03
Height-Spread		183-227	100-161	171-240	163-272	106-157
Rating		3.6	3	4	4.4	3.4
Recommendation	F	R	N	R	R	R

Cornus sericea 'Flaviramea'**Golden Twigged Dogwood**

Recommendation: recommended at all locations except Calgary.

Trial Average: **Height:** 138 cm **Spread:** 200 cm

Form: shrub, attractive yellow stems, bark is brightest when grown in sunny location.

Features: medium to dark green leaves.

Culture: tolerates wide range of soil and climate conditions, susceptible to canker.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	84-89	84-89	84-89	84-89	84-81	84-91	84-91
Height-Spread		141-193	171-199	136-202	104-182	131-189	146-233
Rating	3.8	3.3	4.0	3.5	2.3	4.3	4.0
Recommendation	R	S	R	R	N	R	R

Cornus sericea 'Silver and Gold'**Silver and Gold Dogwood**

Recommendation: Introduced by the Mt. Cuba Centre. Recommended in Edmonton, Calgary and Brooks. Only one surviving plant in Red Deer and Coaldale.

Trial Average: **Height:** 80 cm **Spread:** 140 cm

Form: broad, rounded shrub.

Features: green leaves with creamy white variegation.

Culture: requires maintenance pruning as form becomes a bit wild. Aphids have been noted on the plants.

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	99-04	99-04	99-04	99-04	99-04	99-04
Height-Spread		60-106	54-77	80-156	88-185	100-159
Rating		3	2	3	4	2
Recommendation	F	R	N	R	R	N

Crataegus ambigua**Russian Hawthorn**

Recommendation: native to S.E. Russia. Recommended in Calgary and Coaldale though in Coaldale only two survived, but those did very well, Plants in Fairview failed after the first year and in Edmonton one plant only survived until the third winter when it was lost. The plant surviving in Brooks was struggling and the four at Red Deer were poor.

Trial Average: **Height:** 2.4 m **Spread:** 1.9 m

Form: small, spreading tree with irregular branching.

Features: green, fine textured leaves, spring blooming with bright red fruit resistant to apple-cedar rust

Culture: pear slug has been spotted on some plants control may be advised.

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	99-04	99-04	99-04	99-04	99-04	99-04
Height-Spread			180-110	276-260	29-23	250-195
Rating			2	4	1	3
Recommendation	F	F	N	R	N	R

Crataegus x mordenensis 'Snowbird'**Snowbird Hawthorn (COPF)**

Recommendation: recommended at Edmonton, Bowden and Calgary, but only satisfactory at Brooks. Considered more hardy than 'Toba' hawthorn. Introduced by Agriculture and Agri-Food Canada, Morden, MB.

Trial Average: **Height:** 3.4 m **Spread:** 1.9 m

Form: upright tree with rounded crown; double, white flowers, fruit is sparse.

Features: dark green leaves.

Culture: susceptible to pear slug, prefers moist, well-drained soil.

Crateagus x mordenensis 'Snowbird'**Snowbird Hawthorn (COPF)**

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period		87-94		87-94	84-94	84-91	
Height-Spread		435-244		257-162	369-216	282-131	
Rating		3.8		4.1	4.0	3.6	
Recommendation		R		R	R	S	

Crateagus x mordenensis 'Toba'**Toba Hawthorn**

Recommendation: recommended at Calgary and Brooks, satisfactory growth and performance in Grande Prairie, Bowden, Coaldale and Edmonton. Resistant to cedar apple rust. Introduced by Agriculture and Agri-Food Canada, Morden, MB.

Trial Average: **Height:** 2.2 m **Spread:** 1.3 m

Form: upright tree with rounded crown; double, white flowers turning to pink, interesting twisted trunk.

Features: glossy green leaves.

Culture: susceptible to severe winter cold and pear slug.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	87-94	87-94		87-94	87-94	87-92	87-91
Height-Spread	160-82	229-169		193-150	245-153	255-144	213-75
Rating	3.4	3.0		2.9	4.2	4.0	2.8
Recommendation	S	S		S	R	R	S

Cytisus decumbens**Prostrate Broom**

Recommendation: recommended at Edmonton, Calgary and Brooks, plants did not survive initial planting at Fairview, Red Deer, Bowden and Coaldale, although plants are known to do well in Red Deer.

Trial Average: **Height:** 17 cm **Spread:** 76 cm

Form: low, spreading shrub.

Features: green leaves, covered with short fine hairs, masses of bright yellow flowers in spring.

Culture: full sun, good low ground cover, recommended for rock gardens.

Site	Fairview	Edmonton	Red Deer	Bowden	Calgary	Brooks	Coaldale 2
Trial Period	94	94-99	94	94-99	94-96	94	94
Height-Spread		13-59			31-135	*8-33	
Rating		4.0			5.0	4.0	
Recommendation	F	R	F	F	R	r	F

* data for Brooks was collected for only 3 years then plants had to be moved, the data is not included in trial average

Daphne cneorum**Rose Daphne**

Recommendation: recommended at Edmonton, Bowden, Lacombe and Brooks, failed at Calgary, Grande Prairie and Coaldale. Does not tolerate strong weed competition.

Trial Average: **Height:** 30 cm **Spread:** 76 cm

Form: low, spreading shrub, covered with fragrant, bright rosy-pink flowers in spring.

Features: dark green leaves.

Culture: does well with snow cover and in heavy soils.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	86-94	85-94	86-94	86-94	86-94	86-91	86-91
Height-Spread		41-92	19-45	28-77	25-55	40-109	
Rating		4.0	3.8	3.9		4.9	
Recommendation	F	R	R	R	F	H	F

Daphne cneorum 'Ruby Glow'**Ruby Glow Daphne**

Recommendation: recommended at Brooks, Grande Prairie, Edmonton, Lacombe and Bowden. Failed at Calgary and Coaldale. Did not tolerate strong weed competition.

Trial Average: **Height:** 27 cm **Spread:** 92 cm

Form: low, spreading shrub, covered with fragrant, dark pink flowers in spring.

Features: dark green leaves.

Culture: does well with snow cover and in heavy soils, good vigorous plant may have to be divided every 2 to 4 years.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	87-94	87-94	87-94	87-94	87-94	87-91	87-91
Height-Spread	20-72	32-130	25-60	30-100	27-87	28-105	
Rating	3.2	4.5	3.4	4.0		4.9	
Recommendation	R	R	r	R	F	H	F

Daphne x burkwoodii 'Carol Mackie'**Carol Mackie Daphne**

Recommendation: recommended in Brooks and Coaldale, one excellent plant in Calgary and one poor plant in Edmonton with no variegation. Failed in Red Deer and Fairview.

Trial Average: **Height:** 65 cm **Spread:** 112 cm

Form: rounded shrub.

Features: green leaves with cream margins.

Culture: requires a cool, dry or well-drained site and prefers alkaline soil, sun or partial shade. Portions of plant may require spring pruning to remove areas with no variegation.

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 1
Trial Period	98-03	98-03	98-03	98-03	98-03	98-03
Height-Spread		58-75		60-76	70-140	63-95
Rating		1		5	3.7	4
Recommendation	F	N	F	N	R	R

Diervilla lonicera**Dwarf Bush Honeysuckle**

Recommendation: highly recommended in Edmonton and recommended in Calgary and Brooks. Plants did very well at Bowden until the last year when they suffered some winter dieback. Plants were lost at Red Deer and Fairview and only two plants survived at Coaldale which were chlorotic and had suffered heavy dieback.

Trial Average: **Height:** 70 cm **Spread:** 154 cm

Form: mounded, spreading shrub.

Features: bronze-green leaves turning red in fall, small yellow flowers, free of disease and insect problems.

Culture: adapts to sandy soils, good for mass plantings and slopes.

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	96	96-01	96-00	96	96-01	96-01	96-01
Height-Spread		110-157	67-184		74-185	70-188	27-55
Rating		4	3.6		3.3	3.6	1
Recommendation	N	H	s	F	R	R	N

Elaeagnus angustifolia**Russian Olive**

Recommendation: recommended at all locations.

Trial Average: **Height:** 2.5 m **Spread:** 2.5 m

Form: rounded, irregular tree, long thorns.

Features: fine, narrow leaves, silvery-gray, and small silver berries.

Culture: very salt and drought tolerant, prefers light sandy loam soil, full sun, xeriscape plant.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	86-94	86-94	86-94	86-94	85-94	86-92	86-91
Height-Spread	238-199	206-226	123-104	198-104	325-325	309-336	353-315
Rating	4.8	4.0	4.8	3.5		4.7	3.8
Recommendation	R	R	H	R	R	R	R

Euonymus alatus 'Compactus'**Dwarf Winged Burning Bush**

Recommendation: recommended only at Lacombe, satisfactory at Edmonton and Bowden, not recommended at other locations. Some degree of winter dieback occurred each winter.

Trial Average: **Height:** 34 cm **Spread:** 40 cm

Form: compact shrub with corky wings on stems.

Features: green leaves, with red fall colour.

Culture: full sun, well-drained soil, not tolerant of drought, does well when mulched.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	84-91	84-91	84-91	84-91	84-91	84-91	84
Height-Spread	25-28	42-39	41-37	29-47		33-43	
Rating	1.8	2.7	3.4	2.9			
Recommendation	N	S	R	S	N	N	F

Euonymus hamiltonianus* var. *maackii**Maacki Euonymous**

Recommendation: all plants failed at Fairview after first winter. Plants at other locations generally found hardy though ornamental value is not obvious. Fruit has not been noticed on these hardy plants

Trial Average: **Height:** 1.6 m **Spread:** 1.4 m

Form: round shrub.

Features: green leaves with pink to yellow fall colour, interesting pink with orange and red fruits later in season

Culture: medium to tall hardy shrub

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	99-04	99-04	99-04	99-04	99-04	99-04
Height-Spread		146-131	195-102	142-117	186-233	121-131
Rating		3	2.8	2	4	2.6
Recommendation	F	S	S	S	S	S

Forsythia ovata* 'Floraliz'*Floraliz Forsythia**

Recommendation: recommended only at Edmonton and Calgary, satisfactory at Lacombe. Not recommended at Coaldale and failed at all other locations. Plants selected at the University of Calgary, re-trial recommended.

Trial Average: **Height:** 130 cm (4 plants only) **Spread:** 100 cm (4 plants only)

Form: upright shrub.

Features: dark green leaves, bright yellow flowers appear before leaf expansion, rarely blooms above snowline.

Culture: full sun, flowers buds above snowline susceptible to low temperatures (killing temperature -35°C).

Site	Grande Prairie	Fairview	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1	Coaldale 2
Trial Period	88-94	95-00	88-94	88-94	88-94	88-94	88-94	88-94	95-00
Height-Spread			189-169	58-36		133-116			188-165
Rating			4.3	3.0		4.0			2.0
Recommendation	F	F	R	s	R	R	F	F	N

Forsythia x intermedia* 'Northern Gold'*Northern Gold Forsythia (COPF)**

Recommendation: recommended at all locations, some winter-kill of tips in some years. Selected by D.R. Sampson of Agriculture and Agri-Food Canada, Ottawa, ON.

Trial Average: **Height:** 160 cm **Spread:** 150 cm

Form: upright shrub.

Features: dark green leaves, bright yellow flowers before leaf expansion, rarely flowers above snowline.

Culture: full sun, flower buds above the snowline susceptible to low temperatures (-32°C).

Forsythia x intermedia* 'Northern Gold'*Northern Gold Forsythia (COPF)**

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	88-91	84-91	84-99	84-89	84-91	84-91	84-91
Height-Spread	110-81	197-163	147-131	173-142	131-136	227-223	150-158
Rating	4.2	4.1	3.9	3.3	3.2	4.3	3.3
Recommendation	R	R	R	R	R	R	R

Fraxinus mandschurica**Manchurian Ash**

Recommendation: recommended at Grande Prairie, Bowden and Calgary, failed to establish at Edmonton and Brooks, growth at Coaldale was affected by high pH soil. Does not tolerate strong weed competition. Retrial recommended in Edmonton, plants are known to do well there and at Devon.

Trial Average: **Height:** 2.5 m **Spread:** 1.5 m

Form: compact, uniform, oval crown.

Features: green leaves, buds break early, yellow fall colour.

Culture: tolerates drought and excess moisture, does not tolerate high pH soil, leafs out early making it susceptible to late spring frost.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	85-94	85-94		85-89	85-94	85-91	85-91
Height-Spread	254-126			303-194	251-153		201-123
Rating	4.9			4.1	4.4		2.7
Recommendation	H	F		R	R	F	S

Fraxinus nigra**Black Ash**

Recommendation: highly recommended in Edmonton and Lacombe, recommended in all other locations. Ash bark beetle a problem in southern locations in the late 80's.

Trial Average: **Height:** 3.1 m **Spread:** 1.2 m

Form: uniform, narrowly-pyramidal, upright tree.

Features: green leaves, which last longer in fall than other ash species.

Culture: adapts to a wide range of soils, prefers wet areas in the wild.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	87-94	87-94	87-94	87-94	85-94	85-91	84-94
Height-Spread	266-65	416-172	234-66	276-94	296-140	403-191	266-101
Rating	4.7	4.8	5.0	4.2	4.0	4.4	4.4
Recommendation	R	H	h	R	R	R	R

Fraxinus nigra**Black Ash 'Brendan's Selection'**

Recommendation: highly recommended in Brooks and recommended in Red Deer, Calgary and Coaldale where occasional winter tip kill had been noted. Not recommended in Edmonton and Bowden where all plants were lost or in Fairview where the only surviving plant suffered much dieback. This selection was made from trees which were sent as seedlings to the City of Edmonton from the breeding program at Agriculture and Agri-Food Canada, Morden, MB by Dr. W. Ronald. Selections were made by B. Casement and R. Nyroos (former City of Edmonton forester).

Trial Average: **Height:** 2.6 m **Spread:** 1.4 m

Form: uniform, narrowly-pyramidal, upright tree.

Features: green leaves, which last longer in fall than other ash species.

Culture: may lose terminal bud which can cause a double leader to form. Pruning may be required to maintain single leader.

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	97-02	97	97	97-01	97-02	97-02	97-02
Height-Spread	84-50			150-95	421-185	395-142	260-214
Rating	1			3.2	3	3.8	3
Recommendation	N	N	N	r	R	H	R

Fraxinus nigra 'Fallgold'**Fallgold Black Ash (COPF)**

Recommendation: recommended at all locations, trees were severely damaged in a heavy spring frost in Brooks.

Trial Average: **Height:** 2.8 m **Spread:** 1.1 m

Form: uniform, upright tree.

Features: green leaves, golden in fall, leaves last longer in fall than other ash species.

Culture: seedless selection, adapts to a wide range of soils, disease free.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	86-94	84-91	84-89	84-89	84-91	84-91	86-91
Height-Spread	259-66	264-158	355-126	298-102	255-104	326-125	229-78
Rating	5.0	4.3	4.4	3.8	4.4	1.8	3.3
Recommendation	H	R	R	R	R	F	R

Fraxinus pennsylvanica**Green Ash**

Recommendation: recommended at all locations, all trees were seedlings.

Trial Average: **Height:** 2.8 m **Spread:** 1.9 m

Form: rounded crown, dense foliage.

Features: green leaves, yellow fall colour.

Culture: survives well in urban locations, full sun. Seeds provide an excellent food source for wildlife.

Fraxinus pennsylvanica**Green Ash**

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	85-94	85-94		85-89	85-94	85-91	85-91
Height-Spread	254-126			303-194	251-153		201-123
Rating	4.9			4.1	4.4		2.7
Recommendation	H	F		R	R	F	S

Fraxinus pennsylvanica**Green Ash 'Brendan's Selection'**

Recommendation: highly recommended in Edmonton and Brooks, though terminal buds were lost on some plants in both locations and recommended in Calgary and Coaldale. Satisfactory in Red Deer were plants suffered dieback and not recommended in Fairview and Bowden where the plants were lost. These selections were made from trees which were sent as seedlings to the City of Edmonton from the breeding program at Agriculture and Agri-Food Canada, Morden, MB, by Dr. W. Ronald. Selections were made by B. Casement and R. Nyroos (former City of Edmonton forester).

Trial Average: **Height:** 3.5 m **Spread:** 3.1 m
Form: rounded crown, dense foliage.
Features: green leaves, yellow fall colour.
Culture: may lose terminal bud which can cause a double leader to form. Pruning may be required to maintain single leader

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	97	97-01	97	97-01	97-02	97-02	97-02
Height-Spread		344-156		156-668	457-251	445-225	338-240
Rating		4.4		2.2	3	4	2.7
Recommendation	N	h	N	s	R	H	R

Fraxinus pennsylvanica 'Bergeson'**Bergeson Ash (PP4904)**

Recommendation: recommended at Edmonton and Brooks. Severe winter kill in Fairview and Red Deer. Plants were difficult to establish in Edmonton then performed well. Tarnished plant bug and some dieback were noted in Brooks. Not tried at Calgary and Coaldale. Introduced by M. Bergeson, Fertile, MN.

Trial Average: **Height:** 3.5 m **Spread:** 1.6 m
Form: upright, rounded tree with open crown, vigorous growth, seedless.
Features: slender, glossy green leaves, yellow in fall, soft bronze tinge to bark.
Culture: specimen or boulevard tree.

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	95-00	95-00	95-00	85-00		95-00	
Height-Spread	214-114	469-202	234-80			484-241	
Rating	3.0	4.0	3.0			4.0	
Recommendation	N	R	N	N		R	

Fraxinus pennsylvanica 'Foothills'**Foothills Ash**

Recommendation: highly recommended in Calgary, Brooks, Coaldale and Edmonton - trees were removed in Edmonton after 2001. Recommended in Red Deer through double leaders had formed on 3 plants. Trees were shrubby in Fairview with many leaders and is not recommended. Selected by A. Heuver of Foothills Nursery, Calgary, AB.

Trial Average: **Height:** 4.1 cm **Spread:** 2.5 cm

Form: uniform tree with straight trunk and good crown.

Features: green leaves, seedless, gold fall colour.

Culture: pruning may be required if double leaders forms as the terminal bud is lost.

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	95-03	98-01	98-03	98-03	98-03	98-03
Height-Spread	141-78	391-217	326-174	567-364	386-249	543-347
Rating	1.7	5	3.4	4.6	4	4
Recommendation	N	h	R	H	H	H

Fraxinus pennsylvanica 'Jordan'**Jordan Ash**

Recommendation: recommended at all locations, but dull foliage and production of seeds limits value somewhat. Some initial winter kill in Fairview, but plants recovered and performed well. Plant bug noted each year at Brooks and Coaldale.

Trial Average: **Height:** 424 cm **Spread:** 274 cm

Form: upright and oval.

Features: dull light green leaves.

Culture: full sun or partial shade, specimen or boulevard tree.

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	95-00	95-00	95-00	95-00	95-00	95-00	95-00
Height-Spread	303-242	479-274	275-201	450-260	463-397	447-285	453-262
Rating	4.0	5.0	5.0	5.0	5.0	4.5	4.0
Recommendation	R	R	R	R	R	R	R

Fraxinus pennsylvanica 'Leeds'**Prairie Dome® Ash**

Recommendation: highly recommended in Edmonton and Calgary and recommended in Red Deer, Brooks and Coaldale. Plants performed poorly in Fairview and Bowden. Introduced by the North Dakota State University.

Trial Average: **Height:** 3.6 m **Spread:** 1.1 m

Form: formal, globe-shaped tree.

Features: glossy, dark green leaves, yellow in fall.

Culture: may lose terminal bud which can cause a double leader to form. Pruning may be required to maintain single leader

Fraxinus pennsylvanica 'Leeds'**Prairie Dome® Ash**

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	97-02	97-01	97-00	97-01	97-02	97-02	97-02
Height-Spread	140-83	410-106	134-25	355-65	620-240	423-135	445-149
Rating	1	4.6	1	3	4.2	3.4	3.2
Recommendation	N	h	N	r	H	R	R

Fraxinus pennsylvanica 'Patmore'**Patmore Green Ash (PP4684) (COPF)**

Recommendation: recommended at all locations, except at Edmonton where they failed due to late spring frost.

Trial Average: **Height:** 3.2 m **Spread:** 2.3 m

Form: oval crown with straight trunk.

Features: shiny green leaves, yellow fall colour, seedless.

Culture: survives well in urban locations, full sun.

Site	Grande Prairie	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	84-91	84-94	84-89	84-89	84-91	84-91	84-91
Height-Spread	280-182	348-260	326-204	185-214	363-208	401-305	347-203
Rating	4.6		5.0	3.5	4.5	3.8	4.5
Recommendation	H	F	H	R	H	R	H

Fraxinus pennsylvanica 'Plains'**Plains Green Ash**

Recommendation: planted in trial in 2002. Selected at PFRA, Indian Head, Saskatchewan.

Trial Average: **Height:** — **Spread:** —

Form: oval crown with straight trunk.

Features: fast growing green ash.

Culture: —

Fraxinus pennsylvanica 'Rugby'**Prairie Spire® Ash**

Recommendation: highly recommended in Edmonton, Red Deer and Brooks and recommended at Calgary and Coaldale. Plants did not perform well in Fairview and Bowden. Introduced by the North Dakota State University.

Trial Average: **Height:** 3.8 m **Spread:** 1.2 m

Form: narrow, pyramidal tree.

Features: green leaves, yellow-gold in fall, seedless selection.

Culture: may lose terminal bud which can cause a double leader to form. Pruning may be required to maintain single leader

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	98-03	98-01	98-03	98-03	98-03	98-03
Height-Spread	141-78	391-217	326-174	567-364	386-249	543-347
Rating	1.7	5	3.4	4.6	4	4
Recommendation	N	h	R	H	H	H

Fraxinus x 'Northern Treasure'**Northern Treasure Ash (PPAF)**

Recommendation: recommended in Red Deer, Calgary, Brooks and Coaldale. Satisfactory in Fairview and highly recommended in Edmonton through the plants were removed after the 2001 evaluation. Introduced by Agriculture and Agri-Food Canada, Morden, MB. A hybrid of *Fraxinus nigra* x *Fraxinus mandshurica*.

Trial Average: **Height:** 3.4 cm **Spread:** 1.6 cm

Form: uniform tree with straight trunk and good crown.

Features: shiny yellow-green foliage, gold fall colour.

Culture: may require pruning to eliminate double leader if terminal bud is lost.

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	98-03	98-01	98-03	98-03	98-03	98-03
Height-Spread	141-78	391-217	326-174	567-364	386-249	543-347
Rating	1.7	5	3.4	4.6	4	4
Recommendation	N	h	R	H	H	H

Genista pilosa 'Vancouver Gold'**Vancouver Gold Broom (COPF)**

Recommendation: satisfactory at Edmonton, plants were destroyed with cultivation in Bowden and Red Deer, not recommended at Brooks, plants did not survive initial planting at Fairview, survived 1 year at Calgary. Introduced by the University of British Columbia.

Trial Average: **Height:** 11 cm **Spread:** 71 cm

Form: low spreading shrub, slender, thinly branched stems, creeping, trailing habit.

Features: bright green, fine textured leaves, blanketed with yellow flowers in spring .

Culture: requires sandy, dry soils, full sun, mulching is recommended.

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	94-97	81-97	92-97	91-96	91-97	91-96	
Height-Spread	0-0	9-67	18-76	7-69	5-90	9-70	
Rating		3.0	2.5	2.5	2.0	2.0	
Recommendation	F	S	F	F	N	N	

Genista lydia**Lydia Woadwaxen**

Recommendation: recommended at Brooks only, though the plants did suffer winter dieback. The plants did splendidly in Edmonton until the dry winter of 1998, may do well with some protection in Edmonton. Plants were eventually lost at all other locations.

Trial Average: **Height:** 38 cm **Spread:** 154 cm

Form: dwarf, spreading shrub with pendulous branches.

Features: green, fine textured, semi-evergreen leaves, profuse bright yellow blooms.

Culture: prefers full sun.

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	96	96-01	96	96	96	96-01	96
Height-Spread						38-150	
Rating						3.8	
Recommendation	N	N	N	N	N	R	N

22	Ratings:	0 - dead	2 - major dieback	4 - good, some tip kill
		1 - poor, low sprouts	3 - fair, injury to branches	5. excellent, no injury

Halimodendron halodendron**Siberian Salt Bush**

Recommendation: recommended at Edmonton, Calgary, Coaldale, satisfactory growth at Bowden and Brooks, not recommended at Lacombe. Plants did not survive the first winter at Fairview or Grande Prairie.

Trial Average: **Height:** 144 cm **Spread:** 110 cm

Form: upright, leggy, spreading shrub, will produce root suckers.

Features: gray-green leaves, turning yellow in fall, lavender blooms later in spring .

Culture: prefers dry and saline soils, full sun, suckers freely when roots are injured, xeriscape plant.

Site	Grande Prairie	Fairview	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1	Coaldale 2
Trial Period	88-94	95-00	88-94	88-94	88-94	88-94	88-94	88-94	95-00
Height-Spread			261-268	52-13	166-76	157-126	101-96	125-64	158-121
Rating			4.5	1.7	3.0	4.5	3.4	3.2	3.0
Recommendation	F	F	R	N	S	R	S	R	R

Hippophae rhamnoides**Sea Buckthorn**

Recommendation: recommended at all locations except Grande Prairie where plants were destroyed.

Trial Average: **Height:** 225 cm **Spread:** 227 cm

Form: large, upright shrub.

Features: silvery leaves, thorny branches, female plants produce attractive yellow-orange fruit.

Culture: prefers poor sandy soil, sunny locations, good for roadsides, will produce root suckers, xeriscape plant.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	86-94	84-94	86-94	86-94	84-94	86-91	84-91
Height-Spread		281-280	155-116	243-277	237-226	303-373	132-88
Rating		4.4	4.1	4.5	4.8	4.8	3.0
Recommendation	F	R	r	R	H	H	R

Hydrangea arborescens 'Annabelle'**Annabelle Hydrangea**

Recommendation: recommended at Calgary, Brooks and with protection in Edmonton. Failed at all other locations.

Trial Average: **Height:** 64 cm **Spread:** 86 cm

Form: low, rounded, coarse textured shrub.

Features: large, dark green leaves, yellow in the fall, large round, white flower clusters lasting into fall.

Culture: grows well in protected shade areas.

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	95-00	95-00	95-00	95-00	95-00	95-00	95-00
Height-Spread		37-31			74-86	81-142	
Rating		3.0			4.0	4.0	
Recommendation	F	S	F	F	R	R	F

Hydrangea macrophylla 'Bailmer'**Endless Summer® Hydrangea (PPADF)**

Recommendation: planted in trial in 2005. Bailey Nurseries introduction.
Trial Average: **Height:** - **Spread:** -
Form: rounded shrub.
Features: mop-head type hydrangea with the ability to bloom on old and new wood, blooming all summer. Pink (alkaline) or blue (acidic) blooms depending on soil pH.
Culture: full sun to part shade, regular water. Remove spent blooms encourages new blooms.

Hydrangea paniculata 'Limelight'**Limelight® Hydrangea**

Recommendation: planted in trial in 2005
Trial Average: **Height:** - **Spread:** -
Form: rounded shrub, good green foliage.
Features: cool green blooms beginning late July and has pink to red highlights into the fall.
Culture: full sun to part shade, regular water.

Hydrangea paniculata 'Tardiva'**Late Panicle Hydrangea**

Recommendation: recommended in Calgary, Brooks and Edmonton. Failed in Fairview and Red Deer and only one plant survived in Coaldale where it was struggling. The Edmonton results were taken from the 2002 evaluation as the plants suffered from severe mechanical damage in 2003. Plants are late in flowering in all areas.
Trial Average: **Height:** 88 cm **Spread:** 89 cm
Form: rounded shrub.
Features: dark green leaves, white to mauve pink flowers, late bloomer.
Culture: planting in an area with protection from early frost may be considered because of late blooming habit.

Site	Fairview	Edmonton	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	98-03	98-02	98-03	98-03	98-03	98-03
Height-Spread		81-95		118-101	81-86	30-22
Rating		3		3.5	3	1
Recommendation	F	r	F	R	R	N

Juglans cinerea**Butternut**

Recommendation: recommended only at Edmonton and Brooks, growth was satisfactory at Grande Prairie, all trees had winter injury every winter resulting in a shrubby appearance.
Trial Average: **Height:** 1.3 m **Spread:** 1.1 m
Form: slow growing tree with wide-spreading crown.
Features: green leaves, nuts are edible.
Culture: prefers moist rich soils, can tolerate dry rocky soils.

Juglans cinerea**Butternut**

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	87-94	83-91	87-94	84-94	83-91	83-91	84-91
Height-Spread	94-69	120-174	105-51			133-156	172-115
Rating	3	3.8	2.6			3.8	2.7
Recommendation	S	R	n	N	N	R	N

Juglans manschurica**Manchurian Walnut**

Recommendation: satisfactory growth in Edmonton, Brooks and Coaldale, not recommended or failed at other locations, plants are shrubby, buds break early and are often damaged by late spring frosts.

Trial Average: **Height:** 1 m

Spread: 1.1 m

Form: tree with spreading crown, dwarfed by heavy dieback due to spring frost.

Features: green leaves.

Culture: prefers moist rich soils.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	88-94	87-94	88-94		88-94	87-94	88-94
Height-Spread		208-258	52-30		92-102	93-93	60-62
Rating		3	2.6		2.6	3.4	3.0
Recommendation	F	S	n		N	S	S

Juglans nigra**Black Walnut**

Recommendation: satisfactory in Brooks and Edmonton though only two survived in Edmonton. Not recommended for Calgary where only two survived and suffered much winter kill. The plants failed in Red Deer, Bowden and Coaldale and were not tested in Fairview. A selection from Jeffries Nursery, MB.

Trial Average: **Height:** 131 cm

Spread: 103 cm

Form: open, oval to rounded tree.

Features: dark green leaves, edible nuts.

Culture: prefers rich, moist soils.

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period		96-01	96	97	96-01	96-01	96
Height-Spread		134-125			124-93	134-90	
Rating		3			2.5	2.5	
Recommendation		S	F	F	N	S	F

Juniperus chinensis* 'Hetzii'*Blue Hetz Juniper**

Recommendation: recommended at Grande Prairie, Edmonton, Calgary, Brooks and Coaldale (not tested at Lacombe and Bowden), grew well in slightly higher than neutral pH soils. Introduced by Hetz Nursery, Fairview, PA.

Trial Average: **Height:** 43 cm **Spread:** 126 cm

Form: upright, spreading shrub.

Features: blue scale-like leaves.

Culture: prefers open, sunny locations, moderately moist soils, tolerates moderately high pH soils.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	84-91	84-91			84-94	84-91	84-87
Height-Spread	23-77	61-162			38-123	38-139	54-129
Rating	3.8	4.7			4.0	4.3	4.0
Recommendation	R	H			R	R	R

Juniperus chinensis* 'Paul's Gold'*Paul's Gold Juniper**

Recommendation: satisfactory at Edmonton, use with caution at Bowden, Red Deer and Brooks as it can tip kill severely with no snow cover, not recommended at Calgary or Fairview due to severe dieback, satisfactory at Coaldale, but also suffered severe dieback.

Trial Average: **Height:** 31 cm **Spread:** 95 cm

Form: spreading, irregular form due to winter dieback

Features: new foliage is bright yellow, changing to yellow-green with age

Culture: spring pruning may be required to remove dieback

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	94-99	92-97	92-97	92-97	92-97	94-96	94-99
Height-Spread	26-86	44-104	30-85	17-71	28-101	*30-61	38-111
Rating	1.0	4.0	3.5	3.5	2.0	3.5	3.0
Recommendation	N	S	S	S	N	s	S

* data for Brooks was collected for only 3 years then plants had to be moved, the data is not included in trial average

Juniperus communis* 'Crowfoot'*Crowfoot Common Juniper**

Recommendation: recommended at Edmonton and Bowden, failed at Grande Prairie likely because of transplanting problems (not tested at other locations). Introduced by A. Griffin and D. Hargrave, collected from the banks of the Bow River at Gleichen, AB.

Trial Average: **Height:** 60 cm **Spread:** 130 cm

Form: many branched, low growing, sprawling shrub.

Features: gray-green foliage.

Culture: prefers open sunny locations, moderately moist soils, susceptible to juniper blight.

Juniperus communis 'Crowfoot'**Crowfoot Common Juniper**

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	87-94	87-94		87-94			
Height-Spread		57-152		61-109			
Rating		4.6		4.7			
Recommendation	F	R		R			

Juniperus horizontalis 'Dunvegan Blue'**Dunvegan Blue Juniper**

Recommendation: failed to establish at all locations. Retrial recommended due to poor condition of plants at planting. Introduced by Beaverlodge Nursery, Beaverlodge, AB.

Trial Average: **Height:** no data **Spread:** no data

Form: low, spreading shrub.

Features: bright bluish-green foliage, turns light purple in winter.

Culture: prefers open sunny locations, moderately moist soils, adaptable to poorer soils, susceptible to juniper blight and spider mites.

Juniperus sabina 'Buffalo'**Buffalo Juniper**

Recommendation: recommended at all locations, fair to good growth even under harsh conditions.

Trial Average: **Height:** 30 cm **Spread:** 165 cm

Form: low, wide spreading shrub.

Features: feathery, bright green leaves year round.

Culture: prefers open, sunny locations, well-drained, dry to moderately moist soils, susceptible to juniper blight. A hardy groundcover that is salt tolerant.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	86-94	86-94	86-94	86-94	86-94	86-91	86-91
Height-Spread	24-164	29-176	50-162	21-185	28-189	33-183	25-97
Rating	3.8	4.2	4.7	4.8	5.0	4.3	4.0
Recommendation	R	R	h	H	H	R	R

Juniperus scopulorum 'Wichita Blue'**Wichita Blue Juniper**

Recommendation: recommended at all locations, little or no chlorosis under high pH conditions.

Trial Average: **Height:** 170 cm **Spread:** 160 cm

Form: large, pyramidal, upright shrub, retains shape without shearing.

Features: brilliant blue foliage.

Culture: prefers open, sunny locations, moderately moist soils, tolerates drought conditions.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	86-94	85-94	86-94	86-94	86-94	86-91	86-91
Height-Spread	148-180	177-146	104-99	173-184	163-166	225-177	173-149
Rating	4.8	4.1	3.5	4.5	4.2	4.7	4.3
Recommendation	H	R	r	R	R	H	R

Juniperus virginiana* 'Blue Arrow'*Blue Arrow Red Cedar**

Recommendation: planted in trial in 2005
Trial Average: **Height:** - **Spread:** -
Form: narrow upright form
Features: bright blue foliage
Culture: full sun, regular water

Larix sibirica**Siberian Larch**

Recommendation: recommended at all locations, except Coaldale where it failed.
Trial Average: **Height:** 2.7 m **Spread:** 1.5 m
Form: broad, pyramidal tree, with upward arching branch tips
Features: soft and green, deciduous foliage, bright yellow fall colour
Culture: prefers moist soils and sunny locations

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	86-94	84-91	84-94	84-94	84-94	84-91	84-91
Height-Spread	354-154	314-208	173-105	267-123	225-134	396-197	178-97
Rating	5.0	4.1	4.3	3.8	4.0	3.8	3.5
Recommendation	H	R	R	R	R	R	F

Larix sibirica* 'Lindquist'*Lindquist Siberian Larch**

Recommendation: planted in trial in 2003. Selected at PFRA, Indian Head, SK
Trial Average: **Height:** — **Spread:** —
Form: broad, pyramidal tree, with upward arching branch tips
Features: soft and green, deciduous foliage, bright yellow fall colour
Culture: prefers moist soils and sunny locations

Ligustrum vulgare* 'Lodense'*Lodense Privet**

Recommendation: not recommended at any location.
Trial Average: **Height:** 52 cm **Spread:** 70 cm
Form: low, dense compact shrub, very slow growing.
Features: dark green leaves which are held late into fall, white flowers.
Culture: works well for a low hedge.

Site	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	92-97	92-97	92-97			
Height-Spread	54-57					
Rating	3.5					
Recommendation	N	F	F			

***Lonicera caerulea* var. *edulis* 'Georges Bugnet'** **Georges Bugnet Sweetberry Honeysuckle**

Recommendation: recommended at Calgary, not at Brooks, a single remaining plant at Lacombe was excellent, failed at all other locations. Retrial recommended in Edmonton due to condition of plant material at planting.

Trial Average: **Height:** 150 cm **Spread:** 165 cm

Form: sturdy shrub, somewhat dense.

Features: bright green leaves, edible fruit.

Culture: prefers moist, well-drained soil and flowers best in full sun, susceptible to blister beetle damage.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 2
Trial Period	85-94	84-91	85-94	85-94	85-91	85-91	85-91
Height-Spread			144-170		138-169	164-156	
Rating					4.2	2.5	
Recommendation	F	F	f	F	R	N	F

***Lonicera* 'Honeyrose'** **Honeyrose Honeysuckle**

Recommendation: planted in trial in 2002. Introduction from University of Minnesota Landscape Arboretum.

Trial Average: **Height:** — **Spread:** —

Form: rounded shrub.

Features: deep blue-green foliage with deep rosy red flowers in the spring. Resistant to honeysuckle witch's broom aphids.

Culture: xeriscape plant.

Lonicera maximowiczii* var. *sachalinensis **Sakhalin Honeysuckle**

Recommendation: recommended at all locations, minor tip kill in test years, except in Fairview where tip kill is yearly.

Trial Average: **Height:** 150 cm **Spread:** 185 cm

Form: rounded shrub with purplish branches, plants have better shape when young, tends to spread when mature.

Features: leaves emerge reddish and turn deep green for summer and golden yellow for fall, small deep purple flowers scented and attractive to insects, red fruit.

Culture: regular pruning recommended, tends to spread with age, tolerant of deep shade as well as full.

Site	Fairview	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	94-99	94-99	94-99	94-99	94-99	94-96	94-99
Height-Spread	126-126	203-266	137-159	124-149	172-236	*96-94	136-173
Rating	2.0	5.0	4.0	3.0	4.0	4.0	4.0
Recommendation	R	R	R	R	R	r	R

*data for Brooks was collected for only 3 years then plants had to be moved, the data is not included in trial average

Lonicera spinosa* var. *Albertii**Albert Regal (Thorn) Honeysuckle**

Recommendation: recommended at Edmonton, Calgary and Brooks, satisfactory growth at Lacombe, Bowden, Fairview and Coaldale 1, not recommended at Coaldale 2, failed at Grande Prairie. Problems with initial establishment of the small plants, those that did establish, performed well.

Trial Average: **Height:** 80 cm **Spread:** 165 cm

Form: sprawling, mound shaped shrub with arching branches.

Features: narrow, fine textured, blue-green leaves, fragrant mauve-pink blooms in spring.

Culture: full sun, moist, well-drained soils, does not tolerate wet areas.

Site	Grande Prairie	Fairview	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1	Coaldale2
Trial Period	88-94	95-00	88-94	88-94	88-94	88-94	88-94	88-94	95-00
Height-Spread		76-129	81-203	68-127	43-89	110-223	99-201	71-151	60-116
Rating		3.0	3.7	3.2	2.5	5.0	5.0	3.0	2.0
Recommendation	F	S	R	S	S	R	H	S	N

Lonicera tatarica* 'Sunstar White'*Sunstar White Honeysuckle**

Recommendation: highly recommended at all locations. Selected by Sunstar Nurseries.

Trial Average: **Height:** 183 cm **Spread:** 219 cm

Form: upright with rounded top, fast growing

Features: blue-green leaves to yellow in fall, small, white, scented flowers, small bright red berries in late summer.

Culture: sun or partial shade, little to no aphid damage, resistant to honeysuckle witch's broom aphid.

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	94-99	94-99	94-99	94-99	94-99	94-96	94-99
Height-Spread	144-207	229-261	174-159	195-214	197-274	*114-109	160-201
Rating	4.0	5.0	4.0	5.0	4.0	5.0	4.0
Recommendation	H	H	H	H	H	h	H

Lonicera x brownii* 'Yellow Trumpet'*Yellow Trumpet Honeysuckle**

Recommendation: recommended in Edmonton, Calgary and Brooks. Not recommended in Fairview, Bowden or Coaldale where only one plant survived in Coaldale. Plants failed to establish in Red Deer. A naturally occurring sport (variant) of Scarlet Trumpet found at Eagle Lake Nurseries amongst the plants received from Homestead Nursery in B.C.

Trial Average: **Height:** 162 cm (trellised) **Spread:** 194 cm

Form: climbing vine.

Features: bright green leaves, deep yellow flowers, blooms much of the summer.

Culture: full sun, requires a trellis to climb.

Lonicera x brownii 'Yellow Trumpet'**Yellow Trumpet Honeysuckle**

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	97	97-02	97-97	97-02	97-02	97-02	97-02
Height-Spread		160-222			146-182	182-179	17-22
Rating		4			2.5	37	1
Recommendation	N	R	N	F	R	R	N

Malus 'Kelsey'**Kelsey Crabapple**

Recommendation: recommended only at Lacombe and Brooks, satisfactory at all other locations, should be planted in area with some protection and will require pruning. Plants in Edmonton suffered severe frost damage in 1987, 1988 and 1990, which killed new terminal growth.

Trial Average: **Height:** 1.8 m **Spread:** 1.7 m

Form: upright tree, rounded crown.

Features: green-bronze leaves, orange-yellow in fall, double flowering pink bloom, fruit small and persistent.

Culture: prefers moist, well-drained soils, sunny location, does not tolerate alkaline soil.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	84-91	84-91	84-94	84-94	84-94	84-91	86-91
Height-Spread	211-185	178-179	160-116	83-85	176-188	278-272	165-151
Rating	3.6	3.2	3.6	3.0	2.8	4.0	3.0
Recommendation	S	S	R	S	S	R	S

Malus 'Makamik'**Makamik Flowering Crabapple**

Recommendation: recommended at Calgary, Brooks and Coaldale, satisfactory growth at Grande Prairie, not satisfactory at Edmonton. In Edmonton there was frost injury to new growth in spring of 1987, a small amount of winter injury every year.

Trial Average: **Height:** 2.9 m **Spread:** 2.2 m

Form: rounded, spreading tree.

Features: green-bronze leaves, orange-yellow in fall, single, deep pink flowers early in spring.

Culture: prefers moist, well-drained soils, sunny location, does not tolerate alkaline soil, susceptible to mildew, fireblight and silver leaf in Edmonton.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	84-91	84-91			84-91	84-91	87-94
Height-Spread	250-181	262-209			273-228	298-283	351-180
Rating	3.4	2.2			4.1	4.2	3.8
Recommendation	S	N			R	R	R

Malus 'Mill Stream'**Mill Stream Apple**

Recommendation: planted in trial in 2001. Introduction from Mill Creek Nurseries, Edmonton, Alberta.

Trial Average: **Height:** — **Spread:** —

Form: sturdy, vigorous growth habit.

Features: very good eating apple, good storing and cooking apple.

Culture: requires regular spring pruning for training.

Malus 'Pink Spires'**Pink Spires Crabapple**

Recommendation: highly recommended at all locations. Profuse pink flowers with dark red fruit lasting through the winter.

Trial Average: **Height:** 3.5 m **Spread:** 2.1 m

Form: narrow, upright tree.

Features: leaves emerge purple-red fading to green-bronze and finally to orange-yellow in fall, pink flowers.

Culture: —

Site	Fairview	Edmonton	Bowden	Red Deer	Calgary	Brooks	Coaldale 2
Trial Period	96-01	96-01	96-00	96-01	96-01	96-01	96-01
Height-Spread	241-124	395-264	319-180	326-188	382-273	389-226	457-214
Rating	4	5	5	4.8	4	4.6	5
Recommendation	H	H	h	H	H	H	H

Malus 'Radiant'**Radiant Flowering Crabapple**

Recommendation: recommended at Brooks, Coaldale, and Lacombe, not recommended or failed at other locations. Poor transplant survival at most locations. Heavy suckering at Calgary. Introduced by the University of Minnesota.

Trial Average: **Height:** 1.5 m **Spread:** 1.0 m

Form: compact, symmetrical tree.

Features: young leaves reddish changing to green, orange-yellow in fall, single deep pink flowers.

Culture: prefers moist, well-drained soils, sunny location, does not tolerate alkaline soil, susceptible to scab.

Site	Grande Prairie	Edmonton	Lacombe	Bowden	Calgary	Brooks	Coaldale 1
Trial Period	84-91	84-91	86-94	84-94	84-91	84-91	86-91
Height-Spread	167-119	86-21	141-123	87-83		215-125	179-133
Rating	2.2	2.0	3.5	3.0		3.6	3.1
Recommendation	N	N	r	S	F	R	R