

**Grant funding cost share of 30%-70% of eligible expenses to complete the project**

**The Environmental Stewardship and Climate Change Producer Program** supports active producers with assessing their environmental risks and implementing beneficial management practices (BMP's) that reduce the risk of agricultural contaminants entering water or soil resources, benefitting their business, enhancing public trust and the environment.

The 2018 - 2023 program funding maximum is **\$100,000** over the program term, except in the following limited circumstances:


1. You may be eligible for up to an additional \$100,000 for Activity Code's 104, 206, 306 under Innovative Solutions;
2. You may be eligible for up to an additional \$100,000 over the program term for each operation owned by an applicant that is located on a different premise ID number for Category B only.


**In-Kind Costs:** Total In-kind costs (labour and equipment) shall not exceed 25% of the total eligible expenditure costs incurred and paid by the applicant, applicable to ALL activity codes.

**PLEASE NOTE:** Cost Share: due to merit based review process, cost shares levels will vary based on the Minister's discretion. Cost shares will range from 30% up to 70%. The minimum cost share you may receive towards your approved project will be 30% if your project is approved. Your application may be reviewed on a merit first-come first-serve basis, or by a technical review panel if additional technical expertise is required. The minimum payment an Applicant may receive under the program is \$500.

Activity Codes	Project	Eligible Costs	Ineligible Costs
<b>CATEGORY A – Grazing Management</b>			
101	<p><b>Riparian Area Fencing and Management</b></p> <p>FUNDING MAXIMUM - \$75,000</p> <p>COST SHARE:</p> <p>If Approved: 30%, 50%, or 70%</p> <p>PURPOSE:</p> <p>Fencing helps manage livestock access to environmentally sensitive areas on the farm property, resulting in protection of aquatic life, riparian vegetation, and wildlife habitat and water quality.</p>	<p>Permanent fencing (controlled access or exclusion) as part of an approved riparian area fencing and management project</p> <p>Cross fencing <i>only if</i> it is part of a riparian management project</p> <p><i>Included in the above:</i></p> <ul style="list-style-type: none"> <li>• Permanent barbed/electric fencing systems</li> <li>• Construction materials and supplies *note: all materials <u>must be new materials</u> and not materials on hand</li> <li>• Labor and equipment will be reviewed at a 1:1 ratio to materials expenses. £ If approved, actual labour and equipment hours must be tracked and submitted</li> </ul> <p>Purchase and planting of native trees and shrubs and/or native or non-invasive introduced species of grass and legumes<sup>§</sup></p>	<p>Perimeter fencing</p> <p>Repair, maintenance or improvement of existing fence</p> <p>Replacement of existing fence</p> <p>Transportation of materials</p> <p>Materials on hand</p> <p>Portable livestock corral panels</p>

Activity Codes	Project	Eligible Costs	Ineligible Costs
		Cultural weed control systems and mulch  Seed and seeding operation for revegetation	
<p>£Total costs for fencing, including materials, labor and equipment use shall not exceed the rate per meter as stated in the current year of the Agriculture and Forestry Custom Rates Survey. (<a href="http://www1.agric.gov.ab.ca/\$department/deptdocs.nsf/all/inf16413#custom">http://www1.agric.gov.ab.ca/\$department/deptdocs.nsf/all/inf16413#custom</a>)</p> <p>§ See Appendix 1 for a list of acceptable riparian tree species.</p>			
102	<p><b>Year-Round/Summer Watering Systems*</b></p> <p>FUNDING MAXIMUM - \$50,000</p> <p>COST SHARE:</p> <p>If Approved: 30%, 50%, or 70%</p> <p>PURPOSE:</p> <p>Installation and setup of winter watering systems support winter feeding management, reduce the build-up and off-site transport of manure nutrients and pathogens, and provide greater protection of natural water sources.</p>	<p>Portable watering systems</p> <p>Troughs, stock tanks, plastic tanks (or similar water storage)</p> <p>Heat tape or heated waterers</p> <p>Pumping systems</p> <p>Power sources such as solar panels, windmills, etc. and other electrical supplies</p> <p>Plumbing materials</p> <p>Surface, shallow or deeply buried pipelines (if used to distribute water within a pasture and protect a water source)</p> <p>Applicant's equipment use and labour (at set program rates)</p>	<p>Water sources such as new wells, or dugouts*</p> <p>Watering Systems associated with a well, dugout or spring*</p> <p>Generators</p> <p>Dugout aeration systems*</p> <p>Deeply buried water lines (below the frost level) within a farmyard*</p> <p>Watering systems in farm yards or corrals</p> <p>Portable feed bunks</p> <p>Portable livestock corral panels</p> <p>Pump houses</p> <p>* These items may be eligible for cost-share under the Farm Water Supply Program with the completion of a long term water management plan and prior approval by an AF Water Specialist</p>
<div style="display: flex; align-items: center;"> <p>*If you are using a constructed water source such as a well, dugout or spring or if your project involves protection of a constructed water structure, it may be eligible under the Farm Water Supply Program. Please contact the <b>Farm Water Supply Program, 310-FARM (3276)</b>.</p> </div>			
103	<p><b>Watercourse Crossings</b></p> <p>FUNDING MAXIMUM - \$10,000</p> <p>COST SHARE:</p> <p>If Approved: 30%, 50%, or 70%</p> <p>PURPOSE:</p> <p>Manage livestock access across a watercourse while avoiding or minimizing riparian impacts, in order to maintain or improve water quality, maintain bank stability and reduce the amount of time cattle spend in the waterbody</p>	<p>Construction materials and supplies to construct a watercourse crossing in accordance with the Water Act</p> <p>In-kind labour and equipment (at set program rates)</p>	<p>Annual maintenance and repair costs</p> <p>Use of in-kind building materials, including but not limited to:</p> <ul style="list-style-type: none"> <li>• Gravel*</li> <li>• Clay*</li> <li>• lumber</li> </ul> <p>Portable livestock corral panels</p> <p>*If using these materials for construction of a watercourse crossing, ensure they have been properly sterilized to limit spread of invasive species</p>

Activity Codes	Project	Eligible Costs	Ineligible Costs
	The Water Act, administered by the Alberta Environment and Parks (AEP) have to be notified for any projects that involve the placement, construction, maintenance, replacement or removal of a watercourse crossing to ensure compliance with the Water Act's Code of practice. Water Act Code of practice notice form can be found here ( <a href="http://aep.alberta.ca/water/legislation-guidelines/documents/PipelineWatercourseOutfall-Form-Jul2016.pdf">http://aep.alberta.ca/water/legislation-guidelines/documents/PipelineWatercourseOutfall-Form-Jul2016.pdf</a> ). The Code of Practice for Watercourse Crossings can be found here ( <a href="http://www.qp.alberta.ca/documents/codes/CROSSING.PDF">http://www.qp.alberta.ca/documents/codes/CROSSING.PDF</a> ). Please call the Regulatory Approval Centre at 780-427-6311 for more information.		
104	<p><b>Grazing Management Strategies/or Innovative Solutions</b></p> <p>FUNDING MAXIMUM – \$100,000</p> <p>COST SHARE:</p> <p>If Approved: 30%, 50%, or 70%</p> <p><b>Grazing Management Strategy – Purpose</b></p> <p>Grazing management solutions that address an environmental and/or water quality risk.</p> <p><b>Innovative Solutions – Purpose</b></p> <p>Investigating new ways and/or different options of dealing with a new or on-going issue related to grazing management. Testing ideas and/or new approaches.</p>	<p>Consideration will be given to projects that provide solutions to improve grazing management. These projects must meet the objectives of Environmental Stewardship and Climate Change Program and significantly improve the grazing management performance of an operation.</p> <p>Projects of this nature will be assessed on an individual basis by a technical review panel and must have technical merit. The technical review panel will determine whether the application is classified as grazing management strategies or innovative solutions.</p> <p>Established Environmental Stewardship and Climate Change Program funding cap and ineligible projects and costs will remain in effect for this Activity Code.</p> <p>Any items in the ineligible column under Category A will not be eligible under this category.</p>	
<b>CATEGORY B – Manure and Livestock Facilities Management</b>			
201	<p><b>Engineering investigation and/or feasibility assessment</b></p> <p>FUNDING MAXIMUM - \$15,000</p> <p>COST SHARE:</p> <p>If Approved: 70%</p> <p>PURPOSE:</p> <p>To help producers collect site information and evaluate potential solutions to improve manure management or address an environmental risk on an existing facility</p>	<p>Engineering and consultant fees to conduct the following:</p> <ul style="list-style-type: none"> <li>• Geotechnical investigation;</li> <li>• Hydrogeological assessment;</li> <li>• Economic analysis of options;</li> <li>• Land survey</li> </ul> <p><i>*Reports may be used to support applications under 202, 203 or 204</i></p>	<p>In-kind labour and equipment use</p> <p>Geotechnical investigation that is required to complete an NRCB application for the purposes of expanding or building a new operation.</p>

Activity Codes	Project	Eligible Costs	Ineligible Costs
 Any projects that involve the expansion of an existing facility or construction of a new facility are not eligible.			
202	<p><b>Construction or upgrade of a surface water management system</b></p> <p>FUNDING MAXIMUM - \$100,000</p> <p>COST SHARE:</p> <p>If Approved: 30%, 50%, or 70%</p> <p>PURPOSE:                      To protect water quality by installing or upgrading surface water control systems to reduce run on of clean water onto the livestock facility and control runoff from the livestock facility</p>	<p><b>All applications under this activity code will require a site inspection prior to construction taking place.</b></p> <p>Enhancement that improve run on activities:</p> <ul style="list-style-type: none"> <li>Water diversions (i.e. eaves troughs), berms, culverts</li> <li>Features that reduce snow accumulation – windbreaks, shelterbelts, snow fence</li> </ul> <p>Enhancements that improve the management of run-off water flow:</p> <ul style="list-style-type: none"> <li>Installation of culverts connecting pens under roads</li> <li>Catch basin construction or expansion</li> <li>Construction of retention or settling ponds</li> <li>Construction of collection channels between pens and catch basin</li> <li>Catch basin synthetic liner</li> <li>Engineering and/or survey fees for design of surface water control systems improvements</li> </ul> <p>Applicant's equipment use and labour at set program rates</p>	<p>Maintenance of livestock pens and facilities</p> <p>Repair and maintenance of run-on/off control systems and equipment</p> <p>Concrete pads under watering devices</p> <p>Costs associated with upgrades to watering devices, bedding, mats, penning or stalls.</p> <p>Silage storage</p> <p>Eaves troughs or runoff control not associated with controlling run-on/off from existing livestock yards (e.g., a barn with contained storage where runoff is not likely to enter the storage)</p> <p>Rain collection devices (e.g., tanks, barrels, etc.) not associated with controlling run-on/off from existing livestock yards. *must indicate on application how collected rain water is being disposed of or used.</p> <p>Runoff control for new building sites or new livestock operations</p> <p>Surface water management not related to better management of agricultural contaminants in runoff water</p>
203	<p><b>Improved Manure Storage Facilities</b></p> <p>FUNDING MAXIMUM - \$100,000</p> <p>COST SHARE:</p> <p>If Approved: 30%, 50%, or 70%</p> <p>PURPOSE:                      Improve an existing manure storage facility in order to address an existing water quality risk created by potential facility overflow or the need to winter spread manure.</p>	<p><b>All applications under this activity code may require a site inspection prior to construction taking place.</b></p> <p>Engineering fees for site investigation, design and reports</p> <p>Structural improvements to existing manure storages</p> <p>Constructed liner that meets AOPA requirements, for manure storage facility or manure collection area including composting storage areas. This includes, compact clay, synthetic liner, steel and concrete</p> <p>Decommissioning of old storages if part of an approved manure storage facility project</p>	<p>Constructed liner if a naturally occurring protective layer exists</p> <p>In-field temporary storage systems (may be eligible under Activity Code 205)</p> <p>Repair and maintenance of manure handling equipment</p> <p>Composting sites</p> <p>Manure collection systems (e.g., slatted floors, scrapers)</p> <p>Manure storage aeration systems</p> <p>Routine maintenance of existing facilities (such as filling holes in pens)</p> <p>Transfer systems &amp;/or equipment to move manure between storages or from storage to</p>

Activity Codes	Project	Eligible Costs	Ineligible Costs
	To relocate or improve a manure storage facility that poses a significant risk to water quality.	Applicant's equipment use and labour at set program rates	field if not part of a new or improved manure storage project. Electrical services Fencing and signage for safety Transportation, hauling or application costs of manure requiring removal to carry-out the project Decommissioning of manure storage that is not part of an improved manure storage project Livestock handling facilities Replacement costs of fence lines, bunks, and other pen infrastructure
204	<b>Relocation of a Livestock Facility and Permanent Wintering Site or Confined Feeding Operation</b>  FUNDING MAXIMUM - \$100,000  COST SHARE:  If Approved: 30%, 50%, or 70%  PURPOSE:  Relocate a livestock facility that poses a significant risk to water quality or the environment, and properly remove the existing facility	<p><b><i>All applications under this activity code will require a site inspection prior to construction taking place.</i></b></p> Construction costs to rebuild an equivalent or adequately sized facility in a more suitable location Plumbing, electrical, fence lines, feeding areas, shelter/wind protection Engineering design and fees (if applicable) Tear down and removal costs of the old livestock facility (if part of a new replacement livestock facility project) Re-vegetation costs (e.g. seed, seeding, plantings etc.) for the old site Applicant's equipment use and labour at set program rates	Relocation of a livestock facility that does not directly impact surface water Transportation, hauling or application costs of manure requiring removal to carry-out the project New electricity services, such as a power line and pole Pump house Water well decommissioning ** ** These items may be eligible for cost-share under the Farm Water Supply Program with the completion of a long term water management plan and prior approval by an AF Water Specialist
205	<b>Improved Land Application of Manure</b>  FUNDING MAXIMUM - \$70,000  COST SHARE:  If Approved: 30%, 50%, or 70%  PURPOSE:  To increase safety and public awareness during field application activities. To adopt technologies that result in more efficient nutrient	Supplies and materials for an emergency manure spill kit, personnel safety (e.g., H <sub>2</sub> S monitors), or roadside public awareness (e.g., signage)  In-cab technologies to map and record application (includes monitor and subscription or unlock key)  Load cells or other weight sensors  Flow control meters and valve systems  Surface banding delivery system  Injection delivery system  Remote (cellular or radio) or automatic shut off valves for pumps	Custom manure or wastewater application services, transportation or hauling costs GPS receivers and auto-steer systems  Agitation equipment  Nurse tanks, tank trucks or trailers  Axle or tire configuration alterations, including floatation tires  Separate pass incorporation equipment (e.g. harrows, cultivators, etc.)  Repair, maintenance or replacement of manure application equipment  Laboratory analysis fees

Activity Codes	Project	Eligible Costs	Ineligible Costs
	<p>use and decrease nutrient loss through run-off and volatilization.</p> <p>To adopt management practices that improve record-keeping, nutrient management and compliance with AOPA legislation.</p>	<p>Drag hose *limited to 800m (1/2 mile)                      Supply/mainline *limited to 3 km (2 miles)</p> <p>Main and booster pumps for dragline systems. MUST include an automatic shut off feature</p> <p>Costs to convert existing equipment to surface banding or injection delivery systems</p> <p>In-field temporary manure storage systems (specifically: fillable bags or bladders for dragline systems)</p> <p>Road crossings, directional drilling for dragline systems</p> <p>Innovative ideas that help achieve the activity code purpose</p> <p>Applicant's equipment use and labour at set program rates</p> <p>*On the go nutrient analysis  <a href="https://www.deere.com/en_INT/products/equipment/agricultural_management_solutions/precision_farming_solutions/manure_sensing/manure_sensing.page">https://www.deere.com/en_INT/products/equipment/agricultural_management_solutions/precision_farming_solutions/manure_sensing/manure_sensing.page</a></p>	<p>Equipment or activities to improve biosecurity</p>
<p>206</p>	<p><b>Manure and Livestock Facilities Management Strategies/or Innovative Solutions</b></p> <p>FUNDING MAXIMUM – \$100,000</p> <p>COST SHARE:</p> <p>If Approved: 30%, 50%, or 70%</p> <p><b>Manure and Livestock Management Strategy – Purpose</b></p> <p>Manure and livestock management solutions that address an environmental and/or water quality risk.</p> <p><b>Innovative Solutions – Purpose</b></p> <p>Investigating new ways and/or different options of dealing with a new or on-going issue</p>	<p>Consideration will be given to projects that provide innovative to improve manure management. These projects must meet the objectives of Environmental Stewardship and Climate Change Program and significantly improve the impact on the environment of manure and livestock facilities.</p> <p>Projects of this nature will be assessed on an individual basis by a technical review panel and must have technical merit. The technical review panel will determine whether the application is classified as manure and livestock management strategies or innovative solutions.</p> <p>Established Environmental Stewardship and Climate Change Program funding cap and ineligible projects and costs will remain in effect for this Activity Code.</p> <p>Any items in the ineligible column under Category B will not be eligible under this category.</p>	

Activity Codes	Project	Eligible Costs	Ineligible Costs
	related to manure and livestock facilities management. Testing ideas and/or new approaches.		
<b>CATEGORY C – Agricultural Input and Waste Management</b>			
301	<p><b>Improved Pesticide Management</b></p> <p>FUNDING MAXIMUM - \$10,000</p> <p>COST SHARE:                      If Approved: 30% for new sprayer or 50% for retrofit of existing sprayers</p> <p>PURPOSE:                      Sprayer equipment modifications reduce the risk of movement of agrochemicals to non-target areas, providing greater protection of biodiversity, buffer zones and water quality.                      Improved crop and pest monitoring increases the efficacy of application and reduces the amount of agrochemicals released into the environment.</p>	<p>Spray Boom Remote Control</p> <p>On-board rinse-water tanks</p> <p>Chemical injection systems</p> <p>Pulse-Width Modulating nozzle systems</p> <p>Recirculating booms</p> <p>Sectional control systems – controllers, software, plumbing, valves.</p>	<p>Upgrades of existing equipment</p> <p>Custom application services and other consultant services</p> <p>Equipment for mechanical weed control and complete spray units</p> <p>Screens and filters</p> <p>Sectional control for fertilizer application</p> <p>GPS units/ Auto-steer technology</p> <p>Tanks for nonagricultural use</p> <p>Extended warranties on purchased items</p> <p>Maintenance or replacement of existing equipment</p> <p>Operator safety equipment</p> <p>Pumps and product transfer equipment</p> <p>Computer and other electronic hardware</p> <p>Weather monitoring equipment</p>
302	<p><b>Improved Nutrient Management</b></p> <p>FUNDING MAXIMUM - \$15,000</p> <p>COST SHARE:                      If Approved: 30% or 50%</p> <p>PURPOSE:                      Sectional control increases fertilizer nutrient efficiency and minimizes the loss of excess fertilizer nutrients from entering the environment and affecting water quality or contributing to greenhouse gas emissions.</p>	<p>Controllers, software, subscriptions or “unlock codes” for management/operation of sectional control</p> <p>Sectional control systems for application of granular, liquid or gaseous fertilizer.</p>	<p>Leased or rented equipment/hardware</p> <p>Complete seed drill or applicator units</p> <p>Liquid fertilizer pumps or NH3 pumps, coolers, condenser, etc. (Base units)</p> <p>Fertilizer nurse tanks</p> <p>Manually operated sectional control systems</p> <p>Global Positioning System (GPS)</p> <p>Variable rate technology</p> <p>Autosteer technology</p> <p>Extended warranties on purchased items</p> <p>Upgrades of existing equipment</p> <p>Maintenance or replacement of equipment</p> <p>Computer and other electronic hardware</p> <p>Custom application services and other consultant services</p> <p>Operator safety equipment</p>

Activity Codes	Project	Eligible Costs	Ineligible Costs
303	<p><b>Plastic Rollers and Compactors</b></p> <p>FUNDING MAXIMUM - \$7,000</p> <p>COST SHARE:</p> <p>If Approved: 70%</p> <p>PURPOSE:</p> <p>Rolling and compacting agricultural sheet plastics allows for more convenient and safe storage on farm prior to being transported to an approved recycling site. This practice will eliminate the need to dispose of plastics on farm.</p>	<p>Stand-alone grain bag roller expressly for the purpose of rolling agricultural plastics.</p> <p>Grain bag rollers as an attachment to an existing grain bag extractor.</p>	<p>Trailers for equipment and plastic bundle hauling</p> <p>Power supplies other than engines built into the unit by the manufacturer.</p> <p>Hay balers</p> <p>Garbage bins</p>
304	<p><b>Shelterbelts</b></p> <p>FUNDING MAXIMUM - \$10,000</p> <p>COST SHARE:</p> <p>If Approved: 50%</p> <p>PURPOSE:</p> <p>Establishment of permanent shelterbelts which supports winter-feeding management, reduces manure nutrient build-up and protects water sources.</p>	<p>First-year establishment costs, such as site preparation, planting, weed control</p> <p>Purchase* of trees and shrubs<sup>§</sup></p> <p>Wood and plastic mulch</p> <p>Watering system components including (but not limited to): trickle or drip systems, delivery hose/pipe and emitters</p> <p>Applicant's equipment use at set program rates</p> <p>Shelterbelts surrounding farm sites</p> <p><i>First year fencing expenses for the purpose of excluding livestock from the shelterbelt, including:</i></p> <ul style="list-style-type: none"> <li>• Permanent barbed/electric fencing systems</li> <li>• Construction materials and supplies *note: all materials <u>must be newly purchased materials</u> and not materials on hand</li> </ul>	<p>Maintenance and renovation costs incurred after first year of establishment</p> <p>Fencing of existing shelterbelts to prevent livestock damage</p> <p>Chemical control of vegetation</p> <p>In-kind labour and equipment use for manufacture of wood mulch</p> <p>Contractor expenses for manufacture of wood mulch</p> <p>In-kind use of ATVs</p>
<p>*Tree and shrub purchases will be funded to a maximum of \$5/tree or shrub.  **Minimum shelterbelt length is 100m in order to be eligible for funding  <sup>§</sup>See Appendix 1 for a list of eligible tree and shrub species.</p>			
305	<p><b>Wetland Assessments</b></p> <p>FUNDING MAXIMUM - \$100,000</p>	<p>Engineering and consultant fees to conduct the following:</p> <ul style="list-style-type: none"> <li>• Economic analysis of options;</li> <li>• Land survey</li> </ul>	<p>In-kind labour and equipment use</p>



Activity Codes	Project	Eligible Costs	Ineligible Costs
	<p>\$15,000 per Wetland Assessment</p> <p>COST SHARE:</p> <p>If Approved: 50%</p> <p>PURPOSE:</p> <p>To help producers collect site information and evaluate potential solutions to improve surface water management for agricultural purposes or to address an environmental issue.</p>		
306	<p><b>Agricultural Input and Waste Management Strategies/or Innovative Solutions</b></p> <p>FUNDING MAXIMUM – \$100,000</p> <p>COST SHARE:</p> <p>If Approved: 30%, 50%, or 70%</p> <p><b>Inputs and Waste Management Strategy – Purpose</b></p> <p>Agricultural inputs and waste management solutions that address an environmental and/or water quality risk.</p> <p><b>Innovative Solutions – Purpose</b></p> <p>Investigating new ways and/or different options of dealing with a new or on-going issue related to agricultural input and waste management. Testing ideas and/or new approaches.</p>	<p>Consideration will be given to projects that provide solutions to improving agricultural input and waste management. These projects must meet the objectives of Environmental Stewardship and Climate Change Program and significantly improve the agricultural input and waste management performance of an operation.</p> <p>Projects of this nature will be assessed on an individual basis by a technical review panel and must have technical merit. The technical review panel will determine whether the application is classified as manure and livestock management strategies or innovative solutions.</p> <p>Established Environmental Stewardship and Climate Change Program funding cap and ineligible projects and costs will remain in effect for this Activity Code.</p> <p>Any items in the ineligible column under Category C will not be eligible under this category.                      * Fuel tanks are not eligible</p>	
<p><b>Note:</b> Refer to Appendix 2 and the <i>2012-2013 Farm Machinery Custom and Rental Rate Guide</i> from the Saskatchewan Ministry of Agriculture for equipment rates.</p> <p>Applicant's equipment use and labour at set program rates (<i>quote rule applies. Refer to 5.6 in the Program Terms and Conditions</i>)</p>			

**APPENDIX 1: SHELTERBELT/WINDBREAK TREE SPECIES**

Source: AAFC-AESB Shelterbelt Centre

Ash (Black, Green and Hybrid)	Pincherry
Birch (White)	Pine (Scots, Ponderosa, Limber, Swis Stone, Bristlecone)
Black gooseberry	Poplar (Northwest, Brooks, Griffin, Cottonwood)
Bracted honeysuckle	Red-Osier Dogwood
Caragana (ONLY IN SOUTHERN Alberta)	Rocky Mountain Juniper
Cedars (Brendon and Skybound)	Sea Buckthorn
Choke cherry	Siberian Larch
Common and Western Snowberry	Silver Buffaloberry
Douglas Fir	Silverberry or Wolf Willow
Elder (Green)	Snowberry
Elm (Siberian, American, Brendon)	Spruce (Norway, White, Serbian, Colorado, Fat Albert)
Hawthorn	Wild black current
Junipers	Wild red current
Lilac (Common, Villosa)	Wild Rose
Linden	Willows (Acute, Laurel Leaf, Golden, Peachleaf, Silverleaf, Wolf Willow)
Low bush cranberry	Willows (Sandbar, Beaked, Autumn and Pussywillow)
Maples (Manitoba, Silver, Amur, Tatarian, Norway)	Apples, plums, cherries, and fruit species (including Saskatoons)
Mayday	Range of hybrid poplars Assiniboine, CanAM, Manitou, Walker, Prairie Sky, Okanese
Mountain Ash	
Mugo pine (Snowmound)	
Oak species (Bur)	
Ohio Buckeye	

**RIPARIAN TREE SPECIES**

Black poplar	Hawthorn
Trembling Aspen (white poplar)	Chokecherry
Plains cottonwood	Red-Osier Dogwood
White birch	Snowberry
Red Elder	Pincherry
Green and River elder	Rose Hedge (common "wild rose")
Colorado spruce	Silverberry or Wolf Willow
White spruce	Water birch (river birch)
Black spruce ( only on really wet sites)	Wild black current
Tamarack ( native not Siberian )	Black gooseberry
Lodgepole pine	Low bush cranberry
Jack pine ( sandy soils )	Bracted honeysuckle
Douglas fir	Willows (Sandbar, Beaked, Autumn and Pussywillow)
Balsam fir	Wild red current
Willows (Acute, Peachleaf, Silverleaf, Wolf Willow)	

Acceptable species

- Trembling Aspen
- Buffalo Berry
- Chokecherry
- Plains Cottonwood
- Red-Osier Dogwood
- Red Elder (central Alberta and Cypress Hills)
- Arnold Hawthorn (different species but similar adaptation and function)
- Manitoba Maple (natural riparian species and quite widespread, but introduced in Alberta)
- Bur Oak (common floodplain species on the Great Plains, but not native to Alberta)
- Poplar (Assiniboine)
- CanAm
- Manitou
- Walker
- Pincherry (found naturally except in the dry mixed grasslands between Lethbridge and Provost)
- Rose Hedge (common "wild rose")
- Western Snowberry
- Colorado Spruce (Rocky Mountains region, associated with aspen and cottonwood)
- White Spruce (Aspen Parkland region associated with Aspen, balsam poplar, dogwood, buckbush)
- Willow:
  - o Acute (riparian-suited, but non-native)
  - o Peachleaf (native species)
  - o Silverleaf (riparian-suited, but non-native)
  - o Wolf (native species)

Unacceptable species

- Green Ash (not uncommon in Saskatchewan in association with cottonwoods, elms, Manitoba maples, chokecherry, Saskatoon)
- Caragana
- Siberian Crabapple
- Siberian Larch (non-native; larch not a component of prairie riparian communities; tamarack may be, in northern locales)
- Villosa Lilac
- Scots Pine (not a native species; generally occurring on drained uplands)
- Sea Buckthorn (not native; aggressive spreader in sandy sites)
- Russian Olive (especially invasive in the South Saskatchewan River Basin)
- Salt Cedar (Tamarix)

**APPENDIX 2: IN-KIND CONTRIBUTION RATES**

In-Kind total (labour and equipment) will not be funded at more than 25% of the total project expenditure costs.

In-kind Labour:

Contribution of labour towards project activities is set at \$25 per hour

In-kind Equipment rates:

All equipment rates include an operator. Do not claim in-kind labour for an operator of any equipment.

<b>Equipment Type</b>	<b>RATE PER HOUR</b>
Farm tractor with bucket or blade	
Up to 80 hp	\$60
81 – 120 hp	\$80
121-165 hp	\$100
166-200 hp	\$120
201-275 hp	\$130
Greater than 275 hp	\$140
Excavator	\$160
Grader	\$200
Skid Steer	\$85
Loader backhoe, Wheel-loader or Loader-tractor	\$120
Tractor + pull-type sheepsfoot packer, or Single-drum roller packer/double-drum	\$140
Tractor + pull-type scraper, or Tractor + blade grader attachment	\$150
Motor scraper (twin engine)	\$270
Track-type dozer/CAT	\$130
Tandem axle dump truck/ grain truck	\$85
<b>Field Operations</b>	<b>RATE PER ACRE</b>
Seeding – air seeder/air drill	\$20
Cultivating	\$12
Discing	\$16