

Conservation Halton, in partnership with the Ontario Seed Company (OSC), developed a variety of seed mixes that are appropriate for use within our watershed. These seed mixes are suitable for restoration purposes and naturalization projects as well as for stormwater management facilities. These mixes are designed for use in a variety of soil and moisture conditions.

Conservation Halton does not endorse any specific company but simply developed these seed mixes to assist and provide a starting point. There may be many additional companies that will also carry the appropriate seed mixes and proponents can select any supplier to purchase their seed mixes. Conservation Halton recommends choosing a supplier who can obtain their seeds locally.

Common Name	Botanical Name	Percentage of Mix (%)
Black Eyed Susan	Rudbeckia hirta	15
Big Bluestem	Andropogon gerardii	30
Blue Wood Aster	Symphyotrichum cordifolius	1
Canada Goldenrod	Solidago canadensis	2
Canada Anemone	Anemone canadensis	1
Common Milkweed	Asclepias syriaca	5
Evening Primrose	Oenethera biennis	2
Grass Leaved Goldenrod	Euthamia graminifolia	1
Little Bluestem	Schizachyrium scoparium	20
Meadow/Open Field Sedge	Carex granularis	12
New England Aster	Symphyotrichum novae-angliae	1
Virgins Bower	Clematis virginiana	5
Wild Bergamot	Monarda fistulosa	5

## **Conservation Halton Upland Dry Meadow Mix**

### **Conservation Halton Early Succession/Riparian Mix**

Common Name	Botanical Name	Percentage of Mix (%)
Black Eyed Susan	Rudbeckia hirta	5
Blue Vervain	Verbena hastata	10
Canada Anemone	Anemone canadensis	1
Canada Blue-joint	Calamagrostis canadensis	2
Canada Goldenrod	Solidago canadensis	2
Little Bluestem	Schizachyrium scoparuim	10
Common Milkweed	Asclepias syriaca	5
Fowl Bluegrass	Poa palustris	25
Meadow/Open Field Sedge	Carex granularis	20
New England Aster	Symphyotrichum novae-angliae	1
Path Rush	Juncus tenuis	10
Purple Stemmed Aster	Symphyotrichum puniceum	1
Virgins Bower	Clematis virginiana	4
Wild Bergamot	Monarda fistulosa	4



Common Name	Botanical Name	Percentage of Mix (%)
Bebbs Sedge	Carex bebbi	1
Blue Lobelia	Lobelia siphilitica	1
Blue Vervain	Verbena hastata	15
Boneset	Eupatorium perfoliatum	2
Dark Green Bulrush	Scirpus atrovirens	5
Fox Sedge	Carex vulpinoidea	25
Grass Leaved Goldenrod	Euthamia graminifolia	1
Meadow/Open Field Sedge	Carex granularis	10
Purple Stemmed Aster	Symphyotrichum puniceum	1
Soft Rush	Juncus effusus	5
Spotted Joe Pye Weed	Eupatorium maculatum	2
Monkey Flower	Mimulus ringens	1
Stalk Grain Sedge	Carex stipata	2
Tall Manna Grass	Glyceria grandis	2
Woolgrass	Scirpus cyperinus	2
Fowl Bluegrass	Poa palustris	25

# **Conservation Halton Meadow Marsh Mix**

## **Conservation Halton Temporary Stabilization Mix \***

Common Name	Botanical Name	Percentage of Mix (%)
Canada Wild Rye	Elymus canadensis	25
Annual Oats	Avena sativa	25
Creeping Bent Grass	Agrostis stolonifera	25
Little Bluestem	Schizachyrium scoparuim	20
Meadow/Open Field Sedge	Carex granularis	5

\* To be used to stabilize short term exposed or disturbed soils such as interim condition stormwater management facilities, ditch lines, swales, and fill/soil piles.

### Seed Mix Application Rate:

Conservation Halton recommends an application rate of 25-30kg/ha.



### Nurse Crop:

Each seed mix should include a nurse crop which creates short term erosion control and weed control, while allowing the native species to establish.

Conservation Halton does not support the use of Annual Rye (*Lolium multiflorum*) as a nurse crop. Recent research indicates that Annual Rye can inhibit the growth of other species thereby hindering the establishment of native vegetation. It can also be confused with and potentially hybridize with Perennial Rye (*Lolium perenne*).

Acceptable nurse crop species include:

Common Name	Botanical Name	Hardiness
Canada Wild Rye	Elymus canadensis	Winter Hardy
Virginia Wild Rye	Elymus virginicus	Winter Hardy
Annual Oats	Avena sativa	Winter Kill
Rye	Secale cereale	Winter Hardy
Barley	Hordeum vulgare	Winter Kill
Buckwheat	Fagopyrum esculentum	Winter Kill
White Millet	Panicum miliaceum	
Creeping Bent Grass	Agrostis stolonifera	Winter Hardy
Red Fescue	Festuca rubra	
Cosmos*	Cosmos bipinnatus	Winter Kill

\* can be used as a wildflower nurse crop for planting in public areas and supports pollinator species.

It is important to note that some species can withstand winter temperatures (winter hardy) while others cannot and the plants die in freezing temperatures (winter kill). Utilizing a nurse crop which can bridge seasons will provide certainty that coverage and adequate stabilization will occur whatever the season.

While utilizing a single species as a nurse crop may be acceptable, a mix of two (2) or more species establishes quicker providing enhanced coverage and stabilization. A four-species nurse crop mix is provided below.

### **Conservation Halton Nurse Crop Mix**

Common Name	Botanical Name	Percentage of Mix (%)
Canada Wild Rye	Elymus canadensis	35
Annual Oats	Avena sativa	25
Creeping Bent Grass	Agrostis stolonifera	20
Red Fescue	Festuca rubra	20

Nurse Crop Application Rate: We recommend an application rate of 25-30 kg/ha.

