Species - Trait Table for functional trait project of the Waller Lab
compiled 3-2009, by K. Amatangelo

	Leaf Traits														Regenerative Traits						Stem Traits				Whole Plant Traits										Below-ground Traits	
Species	Fiber content	Invitro DM digestibility	Leaf circularity	Leaf dry natter content	Leaf puncture-ability	Leaf size	Leaf tearability	Leaf thickness	Leaf Type	Lignin	N content	Cation content	Photosynthetic Pathway	Specific Leaf Area (SLA)	Blooming Season	Flower height	Pollination mech.	Season of flower bud formation	Seed / Fruit dispersal mechanism	Seed mass	Fiber content	N content	Cation content	Stem specific density	Clonal	Determinant or Indeterminant	Growth form	Life form	Nutrient acquisition	Overwinter organ	Plant height	Resprout ability	Spiney	Temporal guild	Root depth	Root system
Abies balsamea	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Acer negundo			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Acer rubrum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Acer saccharinum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Acer saccharum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Acer spicatum			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Actaea pachypoda			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Adiantum pedatum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Agrimonia gryposepala			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Alliaria petiolata	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Amelanchier sanguinea	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Amphicarpaea bracteata	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Anemone acutiloba			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Anemone americana			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Anemone quinquefolia	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Apocynum androsaemifolium			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Aralia nudicaulis	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Arctium minus			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Arenaria lateriflora			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Arisaema triphyllum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Aster macrophyllus	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Aster sagittifolius	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Aster shortii			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Athyrium filix-femina	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Berberis thunbergii			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Betula alleghaniensis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Betula papyrifera			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Bidens frondosa			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Boehmeria cylindrica	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Botrychium virginianum			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Brachyelytrum erectum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Calystegia sepium			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex albursina			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex arctata	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex blanda			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex communis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex grayi	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex grisea			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex hirtifolia			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex intumescens	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex lupulina	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex muskingumensis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex pedunculata			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex pensylvanica	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex radiata	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex rosea			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex squarrosa	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carex tuckermanii			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carpinus caroliniana			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Carya cordiformis	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Carya ovata			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Caulophyllum thalictroides	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Celastrus orbiculata	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Celastrus scandens	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Celtis occidentalis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Chenopodium album			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Cicuta maculata			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Cinna arundinacea			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Circaea lutetiana	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Cirsium vulgare			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Clintonia borealis	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Coptis trifolia			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Cornus canadensis	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Cornus racemosa	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Cornus rugosa			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Corylus americana	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Corylus cornuta	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Crataegus sp			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Cryptotaenia canadensis	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Desmodium glutinosum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Desmodium nudiflorum			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Diervilla lonicera	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Dioscorea villosa			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Dirca palustris			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Dryopteris carthusiana	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Dryopteris intermedia			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Elymus hystrix			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Elymus virginicus	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Epipactis helleborine			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Equisetum arvense			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Euonymus alata			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Eupatorium rugosum			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Fagus grandifolia			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Festuca subverticillata			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Fragaria virginiana	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Fraxinus nigra			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Fraxinus pensylvanica	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Galeopsis tetrahit			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Galium aparine	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Galium concinnum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Galium triflorum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Gaultheria procumbens	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Geranium maculatum	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x
Geum canadense	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Glechoma hederacea			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Glyceria striata			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Gymnocarpium dryopteris			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Hackelia virginiana			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Helianthus strumosus	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Hesperis matronalis	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x
Hieracium aurantiacum			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Huperzia lucidula			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Hydrophyllum virginianum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Hypericum perforatum			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Ilex verticillata			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Impatiens capensis	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Impatiens pallida	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Lactuca biennis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Laportea canadensis	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x
Leersia virginica			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Leonurus cardiaca			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Linnaea borealis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Lonicera canadensis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Lonicera reticulata			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Lonicera x bella	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Lycopodium annotinum			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Lycopodium obscurum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Lycopus uniflorus	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Lysimachia ciliata			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Lyssimachia nummularia	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x
Maianthemum canadense	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Menispermum canadense	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Mitchella repens	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Mitella diphylla			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Morus alba			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Onoclea sensibilis	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Oryzopsis asperifolia	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Osmorhiza claytonii	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Osmorhiza longistylis	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Osmunda claytoniana			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Ostrya virginiana	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Oxalis stricta	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Parietaria pensylvanica			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Parthenocissus vitaceae	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Phalaris arundinaceae	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x
Phlox divaricata	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Phryma leptostachya	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Pilea pumila	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x
Pinus resinosa	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Pinus strobus	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Plantago major			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Poa nemoralis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Poa pratensis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Poa saltuensis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Podophyllum peltatum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Polygala paucifolia	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Polygonatum biflorum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Polygonatum pubescens	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Polygonum persicaria			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Polygonum virginianum			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Populus tremuloides			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Potentilla simplex			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Prenanthes alba			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Prunus serotina	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Prunus virginiana	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Pteridium aquilinum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Pyrola elliptica	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Quercus alba	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Quercus bicolor			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Quercus rubra	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Ranunculus abortivus	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Ranunculus hispidus	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Ranunculus recurvatus			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Rhamnus cathartica	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Ribes americanum			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Ribes cynosbati			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Ribes missouriense	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Rosa multiflora	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Rubus allegheniensis	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Rubus hispidus			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Rubus idaeus	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Rubus occidentalis	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Rubus pubescens			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Rudbeckia laciniata			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Sambucus canadensis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Sambucus racemosa			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Sanguinaria canadensis	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Sanicula gregaria	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Sanicula marilandica	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Schizachne purpurascens	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Scutellaria lateriflora	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Smilacina racemosa	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Smilacina stellata			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Smilax ecirrhata			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Smilax herbacea			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Smilax hispida	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Solanum dulcumara	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x	x	x	x	x	x
Solidago canadensis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Solidago flexicaulis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Solidago gigantea	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Solidago ulmifolia	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Stachys hispida			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Stellaria aquatica			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Streptopus roseus	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Symplocarpus foetidus			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Taraxacum officinale			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Teucrium canadense			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Thalictrum dasycarpum			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Thalictrum dioicum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Tilia americana	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Toxicodendron radicans	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Toxicodendron rydbergii	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Trientalis borealis	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Trillium flexipes			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Trillium grandiflorum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Triosteum perfoliatum			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Tsuga canadensis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Ulmus americana	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Ulmus rubra	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Urtica dioica			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Uvularia grandiflora	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Uvularia sessilifolia	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Vaccinium angustifolium	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x
Vaccinium myrtilloides			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Veronica officinalis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Viburnum acerifolium			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Viburnum dentatum			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Viburnum lentago			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Viburnum opulus			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Viburnum rafinesquianum			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Viola blanda	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Viola canadensis			x	x	x	x	x	x	x		x		x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Viola cucullata	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Viola pubescens	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Viola sororia	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Vitis riparia	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Waldsteinia fragarioides	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x				x	x	x	x	x	x	x	x		x	x	x	x
Zanthoxylum americanum	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x	x	x	x