

Table 10. Herbaceous species found at study sites, ranked by abundance (number of stems) in engineered and intact sites. (Values have been standardized by multiplying engineered numbers by 11/5 to even out difference in number of sites sampled.)

* indicates alien/non-native species

Ranked by abundance on intact sites.

| Species | intact | engineered |
|--------------------------------------|--------|------------|
| <i>Sedum ternatum</i> | 1043 | 396 |
| <i>Tiarella cordifolia</i> | 872 | 180 |
| <i>Dicentra cucullaria</i> | 702 | 0 |
| <i>Aster sp.</i> | 377 | 202 |
| <i>Urtica dioica</i> | 305 | 2 |
| <i>Fragaria virginiana</i> | 292 | 37 |
| <i>Osmorhiza claytonii</i> | 292 | 20 |
| <i>Erythronium americanum</i> | 279 | 15 |
| <i>Dentaria maxima</i> | 270 | 0 |
| <i>Viola sp.</i> | 256 | 154 |
| <i>Meehania cordata</i> | 245 | 0 |
| <i>Stellaria pubera*</i> | 241 | 207 |
| <i>Botrychium sp.</i> | 236 | 15 |
| <i>Asarum canadense</i> | 215 | 156 |
| <i>Polygonum sp.</i> | 192 | 249 |
| <i>Podophyllum peltatum</i> | 182 | 132 |
| <i>Arisaema triphyllum</i> | 179 | 90 |
| <i>Polystichum acrostichoides</i> | 172 | 55 |
| <i>Anemonella thalictroides</i> | 171 | 77 |
| <i>Glechoma hederacea*</i> | 149 | 42 |
| <i>Claytonia caroliniana</i> | 143 | 2 |
| <i>Geranium maculatum</i> | 139 | 112 |
| <i>Trillium grandiflorum</i> | 136 | 40 |
| <i>Lactuca sp.</i> | 107 | 141 |
| <i>Smilacina racemosa</i> | 99 | 2 |
| <i>Delphinium tricornes</i> | 94 | 156 |
| <i>Impatiens capensis</i> | 92 | 22 |
| <i>Viola blanda</i> | 89 | 0 |
| <i>Galium aparine</i> | 85 | 77 |
| <i>Dentaria multifida</i> | 77 | 2 |
| <i>Hydrophyllum macrophyllum</i> | 76 | 22 |
| <i>Medeola virginiana</i> | 75 | 29 |
| <i>Caulophyllum thalictroides</i> | 73 | 0 |
| <i>Hepatica acutiloba</i> | 65 | 0 |
| <i>Polygonatum biflorum</i> | 57 | 13 |
| <i>Viola rostrata</i> | 52 | 132 |
| <i>Lycopus virginicus</i> | 50 | 0 |
| low 3-leaves | 50 | 0 |
| <i>Galium sp.</i> | 47 | 64 |
| <i>Mitchella repens</i> | 38 | 13 |
| 3-3 leaf | 38 | 0 |
| <i>Panax trifolium</i> | 36 | 0 |
| <i>Sanguinaria canadensis</i> | 35 | 13 |
| <i>Galium triflorum</i> | 27 | 11 |
| <i>Actaea pachypoda</i> | 26 | 2 |
| <i>Phlox stolonifera</i> | 26 | 0 |
| <i>Dioscoria quaternata</i> | 24 | 20 |
| <i>Galium circaezans</i> | 23 | 121 |
| <i>Viola papilionacea</i> | 23 | 62 |
| <i>Disporum languinosum</i> | 23 | 31 |
| <i>Allium tricoccum</i> | 21 | 0 |
| <i>Polemonium reptans</i> | 18 | 200 |
| <i>Carex plantaginea</i> | 17 | 0 |
| <i>Carex</i> , narrow | 17 | 0 |
| <i>Potentilla canadensis</i> | 16 | 79 |
| <i>Viola canadensis</i> | 16 | 26 |
| <i>Pedicularis canadensis</i> | 12 | 57 |
| Unk composite | 12 | 2 |
| <i>Chimaphila maculata</i> | 12 | 0 |
| <i>Viola macloskeyi (V. pallens)</i> | 11 | 0 |

Ranked by abundance on engineered sites.

| intact | engineered | Species |
|--------|------------|-----------------------------------|
| 1043 | 396 | <i>Sedum ternatum</i> |
| 872 | 249 | <i>Polygonum sp.</i> |
| 702 | 207 | <i>Stellaria pubera*</i> |
| 377 | 202 | <i>Aster sp.</i> |
| 305 | 200 | <i>Polemonium reptans</i> |
| 292 | 180 | <i>Tiarella cordifolia</i> |
| 292 | 161 | <i>Senecio aureus</i> |
| 279 | 156 | <i>Asarum canadense</i> |
| 270 | 156 | <i>Delphinium tricornes</i> |
| 256 | 154 | <i>Viola sp.</i> |
| 245 | 141 | <i>Lactuca sp.</i> |
| 241 | 132 | <i>Podophyllum peltatum</i> |
| 236 | 132 | <i>Viola rostrata</i> |
| 215 | 121 | <i>Galium circaezans</i> |
| 192 | 112 | <i>Geranium maculatum</i> |
| 182 | 90 | <i>Arisaema triphyllum</i> |
| 179 | 84 | <i>Phlox sp.</i> |
| 172 | 79 | <i>Potentilla canadensis</i> |
| 171 | 77 | <i>Anemonella thalictroides</i> |
| 149 | 77 | <i>Galium aparine</i> |
| 143 | 64 | <i>Galium sp.</i> |
| 139 | 62 | <i>Viola papilionacea</i> |
| 136 | 57 | <i>Pedicularis canadensis</i> |
| 107 | 55 | <i>Polystichum acrostichoides</i> |
| 99 | 42 | <i>Glechoma hederacea*</i> |
| 94 | 40 | <i>Trillium grandiflorum</i> |
| 92 | 37 | <i>Fragaria virginiana</i> |
| 89 | 33 | <i>Carex sp.</i> |
| 85 | 31 | <i>Disporum languinosum</i> |
| 77 | 29 | <i>Medeola virginiana</i> |
| 76 | 29 | <i>Smilax sp.</i> |
| 75 | 29 | <i>Viola pedata</i> |
| 73 | 26 | <i>Viola canadensis</i> |
| 65 | 24 | <i>Viola rotundifolia</i> |
| 57 | 24 | <i>Agrimonia striata</i> |
| 52 | 22 | <i>Impatiens capensis</i> |
| 50 | 22 | <i>Hydrophyllum macrophyllum</i> |
| 50 | 22 | <i>Goodyera repens</i> |
| 47 | 22 | Unk ground cover, purple |
| 38 | 20 | <i>Osmorhiza claytonii</i> |
| 38 | 20 | <i>Dioscoria quaternata</i> |
| 36 | 15 | <i>Erythronium americanum</i> |
| 35 | 15 | <i>Botrychium sp.</i> |
| 27 | 13 | <i>Polygonatum biflorum</i> |
| 26 | 13 | <i>Mitchella repens</i> |
| 26 | 13 | <i>Sanguinaria canadensis</i> |
| 24 | 13 | heart leaf herb |
| 23 | 11 | <i>Galium triflorum</i> |
| 23 | 11 | <i>Antennaria plantaginifolia</i> |
| 23 | 11 | <i>Carex blanda</i> |
| 21 | 11 | <i>Senecio obovatus</i> |
| 18 | 7 | 6 thin-leaved galium |
| 17 | 4 | <i>Viola striata</i> |
| 17 | 2 | <i>Urtica dioica</i> |
| 16 | 2 | <i>Claytonia caroliniana</i> |
| 16 | 2 | <i>Smilacina racemosa</i> |
| 12 | 2 | <i>Dentaria multifida</i> |
| 12 | 2 | <i>Actaea pachypoda</i> |
| 12 | 2 | Unk composite |
| 11 | 2 | <i>Zizia aurea</i> |

Table 10 (con't)

Ranked by abundance on intact sites.

| | intact | engineered |
|-----------------------------------|--------|------------|
| Species | | |
| <i>Viola pennsylvanica</i> | 11 | 0 |
| <i>Viola rotundifolia</i> | 8 | 24 |
| Sedge 2 (pale, broad) | 6 | 0 |
| <i>Carex sp.</i> | 5 | 33 |
| <i>Adiantum pedatum</i> | 5 | 0 |
| Unk -geranium like | 4 | 0 |
| <i>Phlox sp.</i> | 3 | 84 |
| <i>Smilax sp.</i> | 3 | 29 |
| <i>Potentilla sp.</i> | 3 | 0 |
| Unk- 3 mitten leaf | 3 | 0 |
| Unk fern | 3 | 0 |
| Unk - purple flower "rue" | 3 | 0 |
| <i>Goodyera repens</i> | 2 | 22 |
| <i>Zizia aurea</i> | 2 | 2 |
| <i>Epifagus virginiana</i> | 2 | 0 |
| <i>Waldsteinia fragarioides</i> | 2 | 0 |
| <i>Solidago sp.</i> | 1 | 2 |
| <i>Asparagus officinalis*</i> | 1 | 0 |
| Unk -- very hirsute | 1 | 0 |
| Unk -- round leaf | 1 | 0 |
| Unk ground cover | 1 | 0 |
| <i>Senecio aureus</i> | 0 | 161 |
| <i>Viola pedata</i> | 0 | 29 |
| <i>Agrimonia striata</i> | 0 | 24 |
| Unk ground cover, purple | 0 | 22 |
| heart leaf herb | 0 | 13 |
| <i>Antennaria plantaginifolia</i> | 0 | 11 |
| <i>Carex blanda</i> | 0 | 11 |
| <i>Senecio obovatus</i> | 0 | 11 |
| Unk 6 thin-leaved galium | 0 | 7 |
| <i>Viola striata</i> | 0 | 4 |
| <i>Ranunculus sp.</i> | 0 | 2 |
| <i>Stellaria media</i> | 0 | 2 |
| Unk - tomentose | 0 | 2 |

Ranked by abundance on engineered sites.

| intact | engineered | Species |
|--------|------------|--------------------------------------|
| 11 | 2 | <i>Solidago sp.</i> |
| 8 | 2 | <i>Ranunculus sp.</i> |
| 6 | 2 | <i>Stellaria media</i> |
| 5 | 2 | Unk - tomentose |
| 5 | 0 | <i>Dicentra cucullaria</i> |
| 4 | 0 | <i>Dentaria maxima</i> |
| 3 | 0 | <i>Meehanian cordata</i> |
| 3 | 0 | <i>Viola blanda</i> |
| 3 | 0 | <i>Caulophyllum thalictroides</i> |
| 3 | 0 | <i>Hepatica acutiloba</i> |
| 3 | 0 | <i>Lycopus virginicus</i> |
| 3 | 0 | low 3-leave |
| 2 | 0 | 3-3 leaf |
| 2 | 0 | <i>Panax trifolium</i> |
| 2 | 0 | <i>Phlox stolonifera</i> |
| 2 | 0 | <i>Allium tricoccum</i> |
| 1 | 0 | <i>Carex plantaginea</i> |
| 1 | 0 | <i>Carex</i> , narrow |
| 1 | 0 | <i>Chimaphila maculata</i> |
| 1 | 0 | <i>Viola macloskeyi (V. pallens)</i> |
| 1 | 0 | <i>Viola pennsylvanica</i> |
| 0 | 0 | Sedge 2 (pale, broad) |
| 0 | 0 | <i>Adiantum pedatum</i> |
| 0 | 0 | Unk -geranium like |
| 0 | 0 | <i>Potentilla sp.</i> |
| 0 | 0 | Unk- 3 mitten leaf |
| 0 | 0 | Unk fern |
| 0 | 0 | Unk- purple flower "rue" |
| 0 | 0 | <i>Epifagus virginiana</i> |
| 0 | 0 | <i>Waldsteinia fragarioides</i> |
| 0 | 0 | <i>Asparagus officinalis*</i> |
| 0 | 0 | Unk -- very hirsute |
| 0 | 0 | Unk -- round leaf |
| 0 | 0 | Unk ground cover |