

Common Name	Latin name	Light	Soil	Deer resi	Height	Bloom time	Bloom color	Age of stock	host p	Notes
Allegheny monkey flower	<i>Mimulus ringens</i>	sun, part-sun	moist/wet	Y	2'	July - August	purple	1	Y	perennial
Anise Hyssop	<i>Agastache foeniculum</i>	sun, part-sun	med/ med dry	Y	3'	July-Sept	purple	1	Y	perennial
Appalachian barren strawberry	<i>Waldsteinia fragariooides</i>	shade, part-shade	med/ moist	Y	2-3"	May-June	yellow	3		ground cover
Arrowhead rattlebox	<i>Crotalaria sagittalis</i>	sun	dry	N	12"	July-August	yellow	1		annual
Aster, Blue wood	<i>Symphyotrichum cordifolium</i>	shade, part-shade	moist/med/ dry	N	18"-24	Sept-Oct	light blue	1	Y	bush
Aster, New England	<i>Symphyotrichum novae-angliae</i>	sun, part-sun	moist, med, dry	N	5'	August-Oct	purple	2,3	Y	bush
Aster, smooth blue	<i>Symphyotrichum laeve</i>	sun, part-sun	medium	N	4'	August-Oct	light blue	1	Y	bush
Aster, white wood	<i>Eurybia divaricata</i>	shade, part-shade	medium	N	2'	August-Sept	white	3	Y	bush
Beardtongue Hairy	<i>Penstemon hirsutus</i>	sun, part-sun	medium/ dry	Y	1-2'	May-June	pink	1	Y	perennial
Beardtongue, foxglove	<i>Penstemon digitalis</i>	sun, part-shade	medium/ dry	Y	4'	June-July	white	3	Y	perennial
Black-eyed Susan	<i>Rudbeckia hirta</i>	sun, part-sun	medium/dry/moist	Y	2'	July-Oct	yellow	2	Y	biennial
Blue eyed grass	<i>Sisyrinchium campestre</i>	sun, part-sun	medium	N	6"	May-June	purple	4		perennial
Blue eyed grass, stout	<i>Sisyrinchium angustifolium</i>	sun, part-sun	medium	N	6"	May-June	blue	1		perennial
Blue phlox	<i>Phlox divaricata</i>	shade, part-shade	medium	N	12"	May-June	blue	1	Y	perennial
Blue Sage	<i>Salvia azurea</i>	sun, part-sun	medium/ dry	Y	5'	August-Oct	blue	1	Y	perennial
Buttonbush	<i>Cephaelanthus occidentalis</i>	sun, part-sun	wet/ moist	Y	12'	June-August	white	1	Y	perennial
Cardinal flower	<i>Lobelia cardinalis</i>	part-sun, part-shade	wet/ moist	Y	4'	July-Sept	red	2,3	Y	perennial
Clasping Dogbane	<i>Apocynum sibiricum</i>	sun	medium	Y	5'	June-Sept	white	2	Y	perennial
Columbine	<i>Aquilegia canadensis</i>	sun, part-sun, shade	medium/ dry	Y	2'	May-June	red	1	Y	perennial
Coneflower, purple	<i>Echinacea purpurea</i>	sun, part-sun	medium/dry	Y	4'	July-Sept	purple	2	Y	perennial
Coreopsis Lance leaf	<i>Coreopsis lanceolata</i>	sun, part-sun	medium/ dry	Y	2'	July-August	yellow	1	Y	perennial
Cut leaf coneflower	<i>Rudbeckia laciniata</i>	sun, part-sun, shade	moist/ medium	Y	7'	July-Oct	yellow	1	Y	perennial
Elderberry	<i>Sambucus canadensis</i>	sun, part-sun	medium	Y	10'	July-August	white	grafts		perennial
Dense Blazing star	<i>Liatris spicata</i>	sun, part-sun	moist/ wet	Y	5'	July-Sept	purple	1	Y	perennial
False Wild Blue Indigo	<i>Baptisia australis</i>	sun	medium/dry	Y	4'	June-July	purple	1	Y	perennial
Foamflower	<i>Tiarella cordifolia</i>	part-shade, shade	moist/ medium	Y	2'	May-June	white	1	Y	perennial
Golden Alexander	<i>Zizia aurea</i>	part-sun, part-shade	moist/ medium	Y	2'	May-June	yellow	2	Y	perennial
Golden Alexander, heart-leaved	<i>Zizia aurea</i>	part-sun, part-shade	medium/ moist	Y	2'	May-June	yellow	2	Y	perennial
Goldenrod, bluestem	<i>Solidago caesia</i>	part-shade, shade	medium/ dry	Y	3'	August-Sept	yellow	1	Y	perennial
Goldenrod, Early	<i>Solidago juncea</i>	sun, part-sun	medium/ dry	Y	3'	July-August	yellow	1	Y	perennial
Goldenrod, elm leaf	<i>Solidago ulmifolia</i>	part-sun, part-shade	medium/ dry	Y	3'	July-Sept	yellow	2	Y	perennial
Goldenrod, seaside	<i>Solidago sempervirens</i>	sun, part-sunt	medium/ dry	Y	3'	Oct-Nov	yellow	2	Y	perennial
Goldenrod, Showy	<i>Solidago speciosa</i>	sun, part-sun	medium/ dry	Y	5'	August-Oct	yellow	2	Y	perennial
Goldenrod, stiff	<i>Solidago rigida</i>	sun, part-sun	medium/ dry	Y	5'	August-Oct	yellow	2	Y	perennial
Goldenrod, zigzag	<i>Solidago flexicaulis</i>	shade, part-shade	medium/ dry	Y	5'	August-Oct	yellow	2	Y	perennial
Grass, Baltic Rush	<i>Balticus juncus</i>	sun	wet, moist	Y	3'	May-Oct	green	1,2	Y	perennial
Grass, Bottlebrush	<i>Elymus hystrix</i>	shade, part-shade	medium/ dry	Y	3'	June-August	green	1,2	Y	perennial
Grass, Indian Grass	<i>Sorghastrum nutans</i>	sun, part-sun	medium/ dry	Y	6'	August-Sept	tan	1	Y	perennial
Grass, Little Bluestem	<i>Schizachyrium scoparium</i>	sun, part-sun	medium/ dry	Y	2'	July- Oct	tan	1	Y	perennial
Grass, Panic Grass	<i>Panicum virgatum</i>	sun, part-sun	medium/ dry	Y	4'	July-Oct	lavender	1	Y	perennial

Grass, Prairie dropseed	<i>Sporobolus heterolepis</i>	sun, part-sun	medium/ dry	Y	4'	July-Oct	tan		2	Y	perennial
Grass, Purple Love	<i>Eragrostis spectabilis</i>	sun, part-sun	dry	Y	2'	July-August	lavender		1	Y	perennial
Grass, River Oats	<i>Chasmanthium latifolium</i>	part-sun	medium/ moist	Y	3'	August-Sept	tan		1	Y	perennial
Grass, Big Bluestem	<i>Chasmanthium latifolium</i>	sun, part-sun	medium/moist/ dry	Y	5'	August-Oct	tan, lavender		1	Y	perennial
Halberd-leaved Rose Mallow	<i>Hibiscus laevis</i>	sun, part-sun	medium/ moist/wet	Y	5'	August	pink/ white		3	Y	bush
Harebell	<i>Chasmanthium latifolium</i>	sun, part-sun	medium/ dry	Y	12"	August	purple		1		perennial
Vervain, Hoary	<i>Verbena stricta</i>	sun, part-sun	medium/ dry	Y	12"	August	purple	1,2		Y	perennial
Joe Pye Weed, spotted	<i>Eutrochium maculatum</i>	sun, part-sun	medium/ moist/wet	Y	5'	August	pink		1	Y	perennial
Great Blue Lobelia	<i>Lobelia siphilitica</i>	sun, part-sun	medium/ moist/ wet	Y	2'	August	blue/ purple	2,3			perennial
Marsh Marigold	<i>Caltha palustris</i>	sun, part-sun, shade	medium/ moist/ wet	Y	2'	June	yellow		1		perennial
Bee balm, scarlet	<i>Monarda didyma</i>	sun, part-sun, shade	medium/ moist/ wet	Y	2-4'	August	red		1	Y	perennial
Bee balm, purple	<i>Monarda fistulosa</i>	sun, part-sun,	medium/ dry	Y	2-5'	August	purple		3	Y	perennial
Bee balm, spotted	<i>Monarda punctata</i>	sun, part-sun	medium/ dry	Y	3'	Sept	purple	1,2		Y	perennial
Mountain Mint, Clustered	<i>Pycnanthemum muticum</i>	sun, part-sun	medium/ dry	Y	3'	Sept	white		1		perennial
Mountain Mint, Virginia	<i>Pycnanthemum virginianum</i>	sun, part-sun	wet/ moist/ medium	Y	3'	August-Sept	white		2		perennial
New England Blazing Star	<i>Liatris novae anglicae</i>	sun	medium/ dry	Y		August,Sept	purple		1		perennial
New York Ironweed	<i>Vernonia noveboracensis</i>	sun, part-sun	medium/ moist/wet		6'	August-Sept	purple		1	Y	perennial
Ninebark	<i>Physocarpus opulifolius</i>	sun, part-sun	dry/ medium/moist		8'	July	white	1,3		Y	bush
Iris, Northern Blue Flag	<i>Iris versicolor</i>	sun, part-sun	dry/medium/ moist	Y	12"	June	purple		3		perennial
Obedient Plant	<i>Physostegia virginiana</i>	sun, part-sun	wet/moist/ medium	Y	2'	August	purple		3		perennial
Milkweed, orange	<i>Asclepias tuberosa</i>	sun	medium/ dry	Y	2'	August	orange	1,2		Y	bush
Partridge Peas	<i>Chamaecrista fasciculata</i>	sun, part-sun	medium/ dry	Y	2'	August	yellow		1	Y	annual
Pasture Thistle	<i>Cirsium discolor</i>	sun, part-sun	mediuum/ dry	Y	5'	August-Sept	lavender		1	Y	biennial
Prairie Onion	<i>Allium stellatum</i>	sun, part-sun	medium/ dry	Y	14"	July-August	purple		4	Y	perennial
Prickly Pear Cactus	<i>Opuntia humifusa</i>	sun	dry	Y	6"	July, August	yellow		3		perennial
pussytoes	<i>Antennaria plantaginifolia</i>	sun, part-sun, shade	medium/ dry	Y	2"	May, June	white		4	Y	perennial
pussytoes, field	<i>Antennaria neglecta</i>	sun, part-sun, shade	medium/ dry	Y	2"	May, June	white		4	Y	perennial
Milkweed, rose	<i>Asclepias incarnata</i>	sun, part-sun	medium, moist, wet	Y	5'	July	pink	1,2		Y	perennial
Round leaf ragwort	<i>Packera obovata</i>	shade, part-shade	medium, dry	Y	20"	June	yellow		1		perennial
Senna	<i>Senna hebecarpa</i>	sun part-sun	moist,/medium/ dry		5'	August	yellow	1,2		Y	perennial
Grass, Side-oats Gramma	<i>Bouteloua curtipendula</i>	sun, part-sun	medium/ dry	Y	2'	August, Sept	orange, tan		1	Y	perennial
Spicebush	<i>Lindera Benzoin</i>	part-sun, part-shade	medium/ moist/ wet	Y	12'	May	yellow				perennial
Sunflower, early	<i>Heliopsis helianthoides</i>	sun, part-sun, part-shade	dry, medium, moist	Y	5'	July-Sept	yellow	1 seed+graft	Y		bush
Sunflower, woodland	<i>Helianthus divaricatus</i>	part-sun, part-shade, shad	medium, dry		5'	August	yellow		1	Y	perennial
Upland White Goldenrod	<i>Oligoneuron album</i>	sun, part-sun	medium, dry	Y	1'	July	white		1	Y	perennial
Vervain, Blue	<i>Verbena hastata</i>	sun, part-sun	medium, moist, wet	Y	5'	July	purple		1	Y	perennial
violets, X-palmata	<i>Viola xpalmata L</i>	sun, part-sun, part-shade	medium, moist, dry	Y	4"	June	purple	1,2		Y	perennial
Wild Ginger	<i>sarum canadense</i>	shade, part-shade	medium, moist	Y	4"	June	red	tubers		Y	perennial
Wild Strawberry	<i>Fragaria virginiana</i>	sun, part-sun, shade	dry, medium, moist	Y	3"	June	white		2	Y	perennial
Yarrow	<i>Achillea millefolium</i>	sun, part-sun	dry, medium		3'	June-Sept	white		1		perennial
violet wood sorrel	<i>Oxalis violacea</i>	sun, part sun	dry, medium	Y	4"	June	purple	tubers			perennial

Table 1: Summary of Performance Metrics across Model Architectures										
Metric	Model A			Model B			Model C			Overall
	Series 1	Series 2	Series 3	Series 4	Series 5	Series 6	Series 7	Series 8	Series 9	
Accuracy (%)	95.2	93.7	94.8	92.5	96.1	94.3	95.7	93.9	94.5	94.5
Loss Function	Cross-Entropy	MSE	CE	MSE	Cross-Entropy	MSE	CE	MSE	CE	MSE
Training Time (hrs)	12.5	18.2	14.8	10.9	16.7	13.1	15.4	11.8	14.2	14.2
Validation Accuracy (%)	93.5	92.2	93.9	91.8	94.6	93.1	94.8	92.7	93.4	93.4
Test Loss	0.85	0.92	0.87	0.94	0.89	0.91	0.88	0.93	0.90	0.91
Epochs To Convergence	100	120	110	130	105	125	115	135	110	115
Model Size (MB)	100	150	120	180	105	140	130	160	115	135
Latency (ms)	100	150	120	180	105	140	130	160	115	135
Memory Usage (GB)	100	150	120	180	105	140	130	160	115	135
Deployment Cost (\$)	100	150	120	180	105	140	130	160	115	135
Model Complexity	100	150	120	180	105	140	130	160	115	135
Implementation Effort	100	150	120	180	105	140	130	160	115	135

