

Conservation Prairie - Dry Northwest Seed Mix

Guild	Scientific Name	Common Name	Rate: PLS lb/acre	Rate: Seeds/sqft	Height (in.)	Successional Stage	Hydro- logic Zone	Pollinator Value	Bloom Time (month)	Notes - Wildlife Value, Regional Suitability (E.S. = Ecological Section)
G	<i>Andropogon gerardii</i>	big bluestem	1.5	5.51	36-96	L	M, MZ, D	Nests	8,9	
G	<i>Bouteloua curtipendula</i>	side-oats grama	1.4	3.09	12-36	M	MZ, D	Nests	7,8,9	
G	<i>Bouteloua gracilis</i>	blue grama	0.5	7.35	6-20	L	D	Nests	7,8,9	
G	<i>Bromus kalmii</i>	kalm's brome	0.9	2.64	18-36	M	MZ, D	None	8,9	
G	<i>Elymus canadensis</i>	nodding wild rye	1	1.91	36-60	E	MZ, D	None	7,8	
G	<i>Elymus trachycaulus</i>	slender wheatgrass	1	2.53	24	M	MZ, D	None	6,7	
G	<i>Hesperostipa spartea (Stipa)</i>	porcupine grass	0.45	0.11	48	L	D	None	5,6	
G	<i>Koeleria macrantha (pyramidata)</i>	junegrass	0.15	11.02	12-24	L	D	None		
G	<i>Schizachyrium scoparium</i>	little bluestem	2.3	12.67	12-30	L	MZ, D	None	8,9	
G	<i>Sorghastrum nutans</i>	Indian grass	1	4.41	36-96	L	M	Nests	8,9	
G	<i>Sporobolus cryptandrus</i>	sand dropseed	0.08	5.88	12-36	L	MZ, D	None	7,8	Sand specialist
G	<i>Sporobolus heterolepis</i>	prairie dropseed	0.25	1.47	18-48	L	MZ	Nests	8,9	
Graminoids subtotal: 12										
F	<i>Agastache foeniculum</i>	blue giant hyssop	0.05	1.65	24-48	M	MZ, D	Very High	7,8,9,10	Rare/not appropriate in E.S. 9 south/west of Minnesota River valley
F	<i>Allium stellatum</i>	prairie wild onion	0.03	0.12	6-12	M	MZ, D	Medium	6,7	
L	<i>Amorpha canescens</i>	lead plant	0.1	0.59	18-48	L	MZ, D	Very High	6,7,8	
F	<i>Anemone patens</i>	pasque flower	0.01	0.07	6	L	D	Low	4,5	
A	<i>Antennaria plantaginifolia</i>	plantain-leaved pussytoes	0.01	1.01	12	L	D	None	4,5,6	
F	<i>Asclepias verticillata</i>	whorled milkweed	0.05	0.20	10-20	L	MZ, D	Very High	6,7,8,9	Rare in E.S. 4 north of Polk Co.
L	<i>Astragalus canadensis</i>	Canada milk vetch	0.08	0.42	12-48	M	MZ, D	Low	7,8	
L	<i>Astragalus crassicaarpus</i>	ground plum	0.0625	0.12	4-12	M	D	High	5,6	
L	<i>Castilleja sessiliflora</i>	downy paintbrush	0.01	0.73	12		MZ, D		5,6	
L	<i>Dalea candida</i>	white prairie clover	0.07	0.42	12-30	M	MZ, D	Medium	6,7,8	
L	<i>Dalea purpurea</i>	purple prairie clover	0.12	0.60	12-30	M	MZ, D	Very High	7,8	
L	<i>Desmodium canadense</i>	Canada tick trefoil	0.06	0.10	24-48	M	MZ	Low	7,8	Historically rare in E.S. 4
A	<i>Echinacea pallida var. angustifolia</i>	narrow-leaved purple coneflower	0.05	0.10	12-48	L	MZ, D	High	6,7	Not native in E.S. 4 north of Polk Co.
A	<i>Helianthus pauciflorus</i>	stiff sunflower	0.03	0.05	12-48	M	MZ, D	High	7,8	
A	<i>Heliopsis helianthoides</i>	ox-eye	0.07	0.14	24-60	M	MZ, D	Very Low	6,7,8	
A	<i>Liatris aspera</i>	rough blazing star	0.03	0.15	24-36	L	MZ, D	High	7,8,9	
A	<i>Liatris punctata</i>	dotted blazing star	0.02	0.05	12-24	L	D	Very High	7,8,9	
F	<i>Monarda fistulosa</i>	wild bergamot	0.03	0.77	24-48	M	MZ, D	Very High	7,8	
A	<i>Oligoneuron rigidum (Solidago rigida)</i>	stiff goldenrod	0.03	0.45	12-60	M	MZ, D	Very High	8,9	
F	<i>Penstemon grandiflorus</i>	large-flowered beard tongue	0.02	0.10	24-40	L	D	Very High	6,7	Native only to naturally sand-gravel areas within this range
A	<i>Ratibida columnifera</i>	prairie coneflower	0.07	0.93	24-36	M	MZ, D	Medium	7,8	Rare north of Polk Co. in E.S. 4
F	<i>Rosa arkansana</i>	prairie rose	0.2	0.18	24	L	MZ, D	High	6,7,8	
A	<i>Rudbeckia hirta</i>	black-eyed susan	0.07	2.03	12-36	E	MZ	Very Low	7,8,9,10	
F	<i>Sisyrinchium campestre</i>	field blue-eyed grass	0.01	0.17	6	L	D	Low	5,6	
A	<i>Solidago nemoralis</i>	gray goldenrod	0.02	2.00	6-36	L	D	High	7,8	
A	<i>Solidago speciosa</i>	showy goldenrod	0.01	0.35	12-50	M	MZ	Very High	8,9	Rare in E.S. 9 south/west of MN River valley
A	<i>Symphotrichum sericeum (Aster sericeus)</i>	silky aster	0.02	0.19	12-30	L	D	Very High	8,9,10	
A	<i>Symphotrichum ericoides (Aster)</i>	heath aster	0.01	1.10	12-36	M	MZ, D	High	8,9,10	
A	<i>Symphotrichum laeve (Aster)</i>	smooth aster	0.03	0.61	31-54	L	MZ, D	High	8,9,10	
F	<i>Tradescantia bracteata</i>	bracted spiderwort	0.05	0.18	12	M	MZ, D	High	5,6,7	In E.S. 4, not north of Polk Co.
F	<i>Verbena stricta</i>	hoary vervain	0.1	1.03	18-36	M	D	Medium	7,8,9	
F	<i>Viola pedatifida</i>	bearded birdfoot violet	0.05	0.51	6	L	MZ, D	Low	4,5,6	Preferred food of regal fritillaries
F	<i>Zizia aptera</i>	heart-leaved alexanders	0.06	0.24	24	L	MZ	Low	4,5	
Forbs subtotal: 33										
Total Species Richness: 45			Total Seeding Rate: 12 lbs/acre		76 Seeds/sqft					
Total Cost/Acre: \$788			(Opt.) Cover Crop - Oats/Winter Wheat 3 lbs/acre		1.34 Seeds/sqft					
Seed mix cost estimate based on 2013 pricing										
<p>Guild: G = grasses and grasslike species F = forbs (flowering plants) A = flowering plants in the Aster family (Asteraceae) L = nitrogen fixing plants in the legume family (Fabaceae)</p> <p>PLS: Pure live seed (% pure * % viable / 100) (See, for example: https://www.nrcs.usda.gov/Internet/FSE_PLANTMATERIALS/publications/lapmctn9045.pdf)</p> <p>Successional stage: E = early M = mid L = late</p> <p>Hydrologic zone: E = emergent S = saturated M = moist MZ = mesic D = dry</p> <p>Source: State Seed Mix 35-421 with additions/substitutions selected from the Native Seed Mix Design Worksheet and other sources. For more information, see: nature.org/MNPrairieRestorationGuides.</p>										