

Perennial Seed Mix Design Worksheet

Clear Form

Note: Yellow is required entry. Gray auto-populates

Version 2, March 2019

Conservation Practice: Forage and Biomass Planting (512) Range Planting (550)
 Critical Area Planting (342)

Name: **Contract #**
Field Number: **Acres** **Contract Item #**
Soil Map Unit: **Ecological Site**

Objective(s) for planting, in priority order (1, 2, 3, etc.)

<input checked="" type="checkbox"/>	Livestock Forage		Improve Livestock Nutrition
	Forage for Low Production Times		Biofuel or Energy Production
	Erosion Control		Conservation Reserve Program (CRP)
<input checked="" type="checkbox"/>	Increase Biodiversity		Plant Community Restoration
<input checked="" type="checkbox"/>	Weed Suppression		Attract Beneficial Insects
	Improve Soil & Water Quality	<input checked="" type="checkbox"/>	Improve Wildlife Habitat

Table 1. Planned Perennial Species, Composition and Seeding Rates

Select Species	Enter Cultivar	Full Stand Rate (PLS lb/ac)	Enter Planned Percent of Mixture	Planned Rate (PLS lb/ac)	Number of Seeds/lb	Seeds/ft ²	Percent of Seeds/ft ²	Total Planned (PLS lbs/field)
needlegrass, green		6.0	25.0%	1.50	186,000	6.4	21%	1.50
grama, blue		2.0	10.0%	0.20	825,000	3.8	13%	0.20
prairie Junegrass		1.0	15.0%	0.15	2,300,000	7.9	26%	0.15
wheatgrass, thickspike		7.0	15.0%	1.05	152,000	3.7	12%	1.05
wheatgrass, western		10.0	20.0%	2.00	93,000	4.3	14%	2.00
prairie coneflower		2.0	8.0%	0.16	600,000	2.2	7%	0.16
prairie clover, purple		3.5	4.0%	0.14	317,000	1.0	3%	0.14
flax, Lewis		3.5	2.0%	0.07	294,000	0.5	2%	0.07
yarrow, western		0.5	1.0%	0.01	2,850,000	0.3	1%	0.01

SUMMARY

Number of Species			Total Mixture (%)	Total Planned (PLS lbs/ac)		Total Seeds/ft ²		Total Planned (PLS lb/field)
9			100.0%	5.28		30.1		5.28

Site Condition Prior to Planting

Planned Seeding Date: **Planned Seeding Depth:**
Seeding Method: **Row Spacing (inch)**
Seeding Rate (PLS lbs/acre): **Seed Rate adjusted for Row Spacing**
Seed Rate adjusted for Cross-Seeding

Seedbed Preparation:

Spray any annual weeds prior to seeding.

Weed Control:

Fertilization: Fertilizer is not normally recommended for range seedings unless a soil analysis shows a severe deficiency, then a light rate is applied. Follow 'Fertilizer Guidelines for Montana Crops' MSU Extension Publication EB161 for Forage Plantings.

Soil Test Analysis: N: _____ P: _____ K: _____
Recommendations: N: _____ P: _____ K: _____

Irrigation: No _____ Yes _____

Irrigation Plan:
Non _____

Grazing Plan:

Haying Plan:

NOTES:

All legumes are required to be inoculated with the proper species of viable Rhizobia before planting.
With the mix of legume and large seeded grasses the recommended seeding depth is 1/2 inch.
Seeding must be completed prior to May 15th or when there is a minimum of 2 feet of moist soil and soil moisture within 2 inches of the soil surface. Dormant fall seeding is recommended after October 15th and when soil temps are less than 40 deg F at a 2 inch depth for 10 or more days.

Producer Signature _____
Date

I hereby certify that this practice has been planned in accordance with NRCS standards and specifications.

Planned By: Pheasants Forever **Date:** 4/1/2020

NRCS Signature **Job Class** **Date**
III 2020