

## 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 <sup>2</sup>	Percent of Seeds/ft <sup>2</sup>	Total Planned (PLS lbs/field)
needle and thread		9.0	5.0%	0.45	115,000	1.2	4%	0.45
wheatgrass, bluebunch		7.0	15.0%	1.05	139,000	3.4	10%	1.05
prairie sandreed		4.0	12.0%	0.48	273,000	3.0	9%	0.48
wheatgrass, thickspike		7.0	18.0%	1.26	152,000	4.4	13%	1.26
Indian ricegrass		5.0	7.0%	0.35	235,000	1.9	6%	0.35
sand dropseed		1.0	6.0%	0.06	5,680,000	7.8	23%	0.06
bluegrass, Sandberg		2.0	17.0%	0.34	900,000	7.0	21%	0.34
alfalfa		5.0	5.0%	0.25	225,000	1.3	4%	0.25
flax, Lewis	Blue Flax	3.5	2.0%	0.07	294,000	0.5	1%	0.07
yarrow, western		0.5	2.0%	0.01	2,850,000	0.7	2%	0.01
black-eyed Susan		0.8	3.0%	0.02	1,746,000	1.0	3%	0.02
sainfoin (with pods)		34.0	2.0%	0.68	18,500	0.3	1%	0.68
small burnet		15.0	5.0%	0.75	55,000	0.9	3%	0.75
milkvetch, cicer		8.0	1.0%	0.08	124,000	0.2	1%	0.08

**SUMMARY**

Number of Species			Total Mixture (%)	Total Planned (PLS lbs/ac)		Total Seeds/ft <sup>2</sup>		Total Planned (PLS lb/field)
<b>14</b>			<b>100.0%</b>	<b>5.85</b>		<b>33.5</b>		<b>5.85</b>

**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**

III

**Job Class**

2020

**Date**