

## 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 type="checkbox"/>	Livestock Forage	<input type="checkbox"/>	Improve Livestock Nutrition
<input type="checkbox"/>	Forage for Low Production Times	<input type="checkbox"/>	Biofuel or Energy Production
X	Erosion Control	X	Conservation Reserve Program (CRP)
<input type="checkbox"/>	Increase Biodiversity	<input type="checkbox"/>	Plant Community Restoration
X	Weed Suppression	<input type="checkbox"/>	Attract Beneficial Insects
X	Improve Soil & Water Quality	X	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)
needlegrass, green		6.0	16.0%	0.96	186,000	4.1	16%	0.96
wheatgrass, western		10.0	20.0%	2.00	93,000	4.3	17%	2.00
wheatgrass, slender		7.0	16.0%	1.12	140,000	3.6	14%	1.12
needle and thread		9.0	3.0%	0.27	115,000	0.7	3%	0.27
bluegrass, big		2.0	10.0%	0.20	882,000	4.0	16%	0.20
wheatgrass, thickspike		7.0	20.0%	1.40	152,000	4.9	19%	1.40
beeplant, Rocky Mountain		13.5	1.0%	0.14	64,000	0.2	1%	0.14
blanketflower		6.0	3.0%	0.18	186,000	0.8	3%	0.18
prairie coneflower		2.0	2.0%	0.04	600,000	0.6	2%	0.04
primrose, evening		1.4	2.0%	0.03	1,376,000	0.9	4%	0.03
flax, Lewis		3.5	2.0%	0.07	294,000	0.5	2%	0.07
prairie clover, purple		3.5	3.0%	0.11	317,000	0.8	3%	0.11
sunflower, annual		2.5	2.0%	0.02	7,000	0.0	0%	0.02

**SUMMARY**

Number of Species			Total Mixture (%)	Total Planned (PLS lbs/ac)		Total Seeds/ft <sup>2</sup>		Total Planned (PLS lbs/field)
13			100.0%	6.53		25.3		6.53

**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:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**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:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_

**Producer Signature**

\_\_\_\_\_

**Date**

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

**Planned By:** Pheasants Forever \_\_\_\_\_

**Date:** \_\_\_\_\_

\_\_\_\_\_

**NRCS Signature**

III

**Job Class**

**Date**