

Appendix 3 – CRP Seed Mixes

Criteria CRP Seed Mixes Must Meet:

1. Must meet the CP Practice and the points the fields were enrolled under – CP1-10 points, CP1-40 points, CP2-20 points, CP2 50-points, CP4d-40 points, CP4d-40 points, CP4d-50 points
2. Seed mix should have a minimum of 6 pounds/acre PLS

Additional Guidelines for CRP Seed Mixes:

1. Seed mixes generally should have a minimum of 40 seeds/sq. ft.
2. For minor species ONLY, Eco-types of the species & varieties listed below may also be used, IF, from the same Major Land Resource Area (MLRA) or Ecoregion as the planning unit.
3. For Sandberg bluegrass, the seed source must be from within 200 miles north & south, and 500 miles east-west, AND from elevations below 3000 feet.

CP1 Seed Mixes

10-point stand: minimum of 2 grass species

40-point stand: minimum of 3 grass species AND 1 forb or legume

CP1 Seed Mixes for 6-9" ppt.

Grass species that tend to dominate a stand (**pick at least two**):

Species	Variety	Pounds/acre	Seeds/sq. ft.
Crested/Siberian wheatgrass	Nordan, Vavilov I or II, Hycrest, CD II	3.0 – 5.0	13 – 22
Big bluegrass	Sherman	0.5 – 1.0	11 – 21
Snake River wheatgrass	Secar, Discovery	3.0 – 5.0	9 – 15

Minor Grass Species (use as needed to meet CP1 and point criteria.)

Note: Species used as a dominate grass may not also be used as a minor species.

Species	Variety	Pounds/acre	Seeds/sq. ft.
Sandberg bluegrass		1.0	21
Thickspike wheatgrass	Schwendimar, Bannock	2.0	7
Basin wildrye (draws)	Magnar, Trailhead	2.0 – 4.0	8 – 15
Indian ricegrass (sandy sites)	Nezpar	2.0 – 4.0	11 – 22
Crested/Siberian	Nordan, Vavilov I or II, Hycrest, CD II	2.0	9
Big bluegrass	Sherman	0.5	10
Snake River wheatgrass	Secar, Discovery	2.0 – 3.0	6 – 9

CP1 Seed Mixes for 9-12" ppt.

Grass species that tend to dominate a stand (**pick at least two**):

Species	Variety	Pounds/acre	Seeds/sq. ft.
Crested/Siberian wheatgrass	Nordan, Vavilov I or II, Hycrest, CD II	3.0 – 5.0	13 – 22
Big bluegrass	Sherman	0.5 – 1.0	10 – 21
Snake River wheatgrass	Secar, Discovery	3.0 – 5.0	9 – 15

Minor Grass Species (use as needed to meet CP1 practice and point criteria.)

Note: Species used as a dominate grass may not also be used as a minor species.

Species	Variety	Pounds/acre	Seeds/sq. ft.
Sheep fescue	Covar	1.0	15
Tall wheatgrass	Jose, Largo, Alkar	2.0	4
Sandberg bluegrass		1.0	21
Thickspike wheatgrass	Schwendimar, Bannock	2.0	7
Basin wildrye (draws)	Magnar, Trailhead	2.0 – 4.0	8 – 15
Indian ricegrass (sandy sites)	Nezpar	2.0 – 4.0	11 – 22
Crested/Siberian	Nordan, Vavilov I or II, Hycrest, CD II	2.0	9
Big bluegrass	Sherman	0.5	10
Snake River wheatgrass	Secar, Discovery	2.0 – 3.0	6 – 9

CP1 Seed Mixes for 12-15" ppt.

Grass species that tend to dominate a stand (**pick at least two**):

Species	Variety	Pounds/acre	Seeds/sq. ft.
Tall wheatgrass	Jose, Largo, Alkar	4.0 – 5.0	7 – 9
Pubescent wheatgrass	Topar, Luna	4.0 – 5.0	8 – 10
Crested/Siberian wheatgrass	Nordan, Vavilov I or II, Hycrest, CD II	3.0 – 5.0	13 – 22
Big bluegrass	Sherman	0.5 – 1.0	11 – 21
Bluebunch/Snake River wheatgrass	Secar, Goldar, Anatone	3.0 – 5.0	9 – 15

Minor Grass Species (use as needed to meet CP1 practice and point criteria.)

Note: Species used as a dominate grass may not also be used as a minor species.

Species	Variety	Pounds/acre	Seeds/sq. ft.
Sheep fescue	Covar	1.0	15
Tall wheatgrass	Jose, Largo, Alkar	2.0	4
Pubescent wheatgrass	Topar, Luna	2.0	4
Sandberg bluegrass		1.0	21
Thickspike wheatgrass	Schwendimar, Bannock	2.0	7
Basin wildrye (draws)	Magnar, Trailhead	2.0 – 4.0	8 – 15
Indian ricegrass (sandy sites)	Nezpar	2.0 – 4.0	11 – 22
Crested/Siberian	Nordan, Vavilov I or II, Hycrest, CD II	2.0	9
Big bluegrass	Sherman	0.5	10
Bluebunch/Snake River wheatgrass	Secar, Goldar, Anatone, Whitmar	2.0 – 3.0	6 – 9

CP1 Seed Mixes for > 15" ppt.

Grass species that tend to dominate a stand (**pick at least two**):

Species	Variety	Pounds/acre	Seeds/sq. ft.
Pubescent/intermediate wheatgrass		4.0 – 5.0	8 – 10
Meadow brome		5.0	9
Tall wheatgrass	Jose, Largo, Alkar	4.0 – 5.0	7 – 9
Big bluegrass	Sherman	0.5 – 1.0	11 – 21
Bluebunch/Snake River wheatgrass	Secar, Goldar, Anatone, Whitmar	3.0 – 5.0	9 – 15

Minor Grass Species (use as needed to meet CP1 practice and point criteria.)

Note: Species used as a dominate grass may not also be used as a minor species.

Species	Variety	Pounds/acre	Seeds/sq. ft.
Orchardgrass		1.0 – 2.0	12 – 25
Sheep/hard fescue	Covar, Durar	1.0	15
Tall wheatgrass	Jose, Largo, Alkar	2.0	4
Pubescent/intermediate wheatgrass	Topar, Luna Greenar, Oahe	2.0	4
Sandberg bluegrass		1.0	21
Thickspike wheatgrass	Schwendimar, Bannock	2.0	7
Basin wildrye (draws)	Magnar, Trailhead	2.0 – 4.0	8 – 15
Indian ricegrass (sandy sites)	Nezpar	2.0 – 4.0	11 – 22
Big bluegrass	Sherman	0.5	10
Bluebunch/Snake River wheatgrass	Secar, Goldar, Anatone, Whitmar	2.0 – 3.0	6 – 9

CP2 Seed Mixes

20-point stand: minimum of 3 species w/ at least 2 native grasses AND 1 forb or legume

50-point stand: minimum of 5 species w/ at least 3 native grasses AND 1 forb, legume, shrub or tree

CP2 Seed Mixes for 6-9" ppt.

Grass species that tend to dominate a stand (**pick at least two**):

Species	Variety	Pounds/acre	Seeds/sq. ft.
Big bluegrass	Sherman	0.5 – 1.0	10 – 21
Snake River wheatgrass	Secar, Discovery	4.0 – 5.0	12 – 15

Minor Grass Species (use as needed to meet CP2 practice and point criteria.)

Note: Species used as a dominate grass may not also be used as a minor species.

Species	Variety	Pounds/acre	Seeds/sq. ft.
Sandberg bluegrass		1.0	21
Thickspike wheatgrass	Schwendimar, Bannock	2.0	7
Basin wildrye (draws)	Magnar, Trailhead	2.0 – 4.0	8 – 15
Indian ricegrass (sandy sites)	Nezpar	2.0 – 4.0	11 – 22
Big bluegrass	Sherman	0.5	10
Snake River wheatgrass	Secar, Discovery	2.0 – 3.0	6 – 9

CP2 Seed Mixes for 9-12" ppt.

Grass species that tend to dominate a stand (**pick at least two**):

Species	Variety	Pounds/acre	Seeds/sq. ft.
Big bluegrass	Sherman	0.5 – 1.0	10 – 21
Snake River wheatgrass	Secar, Discovery	4.0 – 5.0	12 – 15
Basin wildrye (draws)	Magnar, Trailhead	3.0 – 5.0	11 – 19

Minor Grass Species (use as needed to meet CP2 practice and point criteria.)

Note: Species used as a dominate grass may not also be used as a minor species.

Species	Variety	Pounds/acre	Seeds/sq. ft.
Idaho fescue		1.0 – 2.0	10 – 20
Sandberg bluegrass		1.0	21
Thickspike wheatgrass	Schwendimar, Bannock	2.0	7
Basin wildrye (draws)	Magnar, Trailhead	2.0 – 4.0	8 – 15
Indian ricegrass (sandy sites)	Nezpar	2.0 – 4.0	11 – 22
Big bluegrass	Sherman	0.5	10
Snake River wheatgrass	Secar, Discovery	2.0 – 3.0	6 – 9

CP2 Seed Mixes for 12-15" ppt.

Grass species that tend to dominate a stand (**pick at least two**):

Species	Variety	Pounds/acre	Seeds/sq. ft.
Big bluegrass	Sherman	0.5 – 1.0	10 – 21
Bluebunch/Snake River wheatgrass	Secar, Goldar, Anatone	4.0 – 5.0	12 – 15
Idaho fescue		3.0 – 4.0	31 – 41
Basin wildrye (draws)	Magnar, Trailhead	3.0 – 5.0	11 – 19

Minor Grass Species (use as needed to meet CP2 practice and point criteria.)

Note: Species used as a dominate grass may not also be used as a minor species.

Species	Variety	Pounds/acre	Seeds/sq. ft.
Sandberg bluegrass		1.0	21
Thickspike wheatgrass	Schwendimar, Bannock	2.0	7
Idaho fescue		1.0 – 1.5	10 – 15
Indian ricegrass (sandy sites)	Nezpar	2.0 – 4.0	11 – 22
Big bluegrass	Sherman	0.5	10
Bluebunch/Snake River wheatgrass	Secar, Goldar, Anatone, Whitmar	2.0 – 3.0	6 – 9

CP2 Seed Mixes for 15"+ ppt.

Grass species that tend to dominate a stand (**pick at least two**):

Species	Variety	Pounds/acre	Seeds/sq. ft.
Big bluegrass	Sherman	0.5 – 1.0	10 – 21
Bluebunch/Snake River wheatgrass	Secar, Goldar, Anatone, Whitmar	3.0 – 5.0	9 – 15
Idaho fescue		3.0 – 4.0	31 – 41
Basin wildrye (draws)	Magnar, Trailhead	3.0 – 5.0	11 – 19

Minor Grass Species (use as needed to meet CP2 practice and point criteria.)

Note: Species used as a dominate grass may not also be used as a minor species.

Species	Variety	Pounds/acre	Seeds/sq. ft.
Sandberg bluegrass		1.0	21
Thickspike wheatgrass	Schwendimar, Bannock	2.0	7
Idaho fescue		1.0 – 1.5	10 – 15
Indian ricegrass (sandy sites)	Nezpar	2.0 – 4.0	11 – 22
Big bluegrass	Sherman	0.5	10
Bluebunch/Snake River wheatgrass	Secar, Goldar, Anatone, Whitmar	2.0 – 3.0	6 – 9
Slender wheatgrass	Pryor, Primar, San Luis, Revenue	1.0 – 2.0	4 – 7

CP4D Seed Mixes**40-point stand:**

1. Minimum of 4 species w/ at least 2 grasses AND 1 shrub or tree
2. 4th species may be a grass, forb, legume, shrub or tree

50-point stand:

1. Minimum of 5 species w/ at least 2 native grasses AND 1 shrub or tree
2. 4th species may be a forb, legume, shrub or tree
3. 5th species may be a native grass, forb, legume, shrub or tree

40-Point CP4D: use CP1 seed mixes with introduced and native grasses

50-Point CP4D: use CP2 seed mixes with native grasses only

CP 21 – Filter Strip Seed Mixes**Recommendations for CP21 Seed Mixtures:**

1. Minimum of 3-species mixture
2. 10# PLS seed/acre minimum
3. There are no restrictions about using native species, introduced species or a combination of both
4. Fobs, legume or shrub seed may be added

CP 21 Native Seed Mixes for 12" ppt. and less

Grass species that tend to dominate a stand (**pick at least two**):

Species	Variety	Pounds/acre	Seeds/sq. ft.
Big bluegrass	Sherman	0.5 – 1.0	10 – 21
Snake River wheatgrass	Secar, Discovery	4.0 – 5.0	12 – 15
Basin wildrye (draws)	Magnar, Trailhead	4.0 – 5.0	11 – 19

Minor Grass Species

Note: Species used as a dominate grass may not also be used as a minor species.

Species	Variety	Pounds/acre	Seeds/sq. ft.
Sandberg bluegrass		0.5 – 1.0	20
Thickspike wheatgrass	Schwendimar, Bannock	2.0	7
Streambank wheatgrass	Sodar	2.0	7
Indian ricegrass (sandy sites)	Nezpar	2.0 – 4.0	11 – 22
Big bluegrass	Sherman	0.5	10
Snake River wheatgrass	Secar, Discovery, Anatone	2.0 – 3.0	6 – 9
Basin wildrye (draws)	Magnar, Trailhead	2.0 – 4.0	8 – 15

CP21 Introduced Seed Mixes for 12" ppt. and lessGrass species that tend to dominate a stand (**pick at least two**):

Species	Variety	Pounds/acre	Seeds/sq. ft.
Tall wheatgrass	Jose, Largo, Alkar	4.0 – 5.0	7 – 9
Crested/Siberian wheatgrass	Nordan, Vavilov I or II, Hycrest, CD II	4.0 – 5.0	18 – 22
Sheep fescue	Covar	1.0	15

Minor Grass Species

Note: Species used as a dominate grass may not also be used as a minor species.

Species	Variety	Pounds/acre	Seeds/sq. ft.
Crested/Siberian	Nordan, Vavilov I or II, Hycrest, CD II	2.0	9
Sheep fescue	Covar	1.0	15
Tall wheatgrass	Jose, Largo, Alkar	2.0	4
Pubescent wheatgrass	Ropar, Luna	2.0 – 4.0	4 – 8
Mammoth wildrye (sandy)	Volga	3.0 – 5.0	4 – 7

CP 21 Native Seed Mixes for greater than 12"Grass species that tend to dominate a stand (**pick at least two**):

Species	Variety	Pounds/acre	Seeds/sq. ft.
Big bluegrass	Sherman	0.5 – 1.5	10 – 21
Snake River wheatgrass	Secar, Discovery, Anatone	4.0 – 5.0	12 – 15
Basin wildrye (draws)	Magnar, Trailhead	4.0 – 5.0	11 – 19
Idaho fescue		3.0 – 4.0	31 – 41

Minor Grass Species

Note: Species used as a dominate grass may not also be used as a minor species.

Species	Variety	Pounds/acre	Seeds/sq. ft.
Sandberg bluegrass		0.5 – 1.0	20
Thickspike wheatgrass	Schwendimar, Bannock	2.0	7
Basin wildrye (draws)	Magnar, Trailhead	2.0 – 4.0	8 – 15
Indian ricegrass (sandy sites)	Nezpar	2.0 – 4.0	11 – 22
Big bluegrass	Sherman	0.5	10
Snake River wheatgrass	Secar, Discovery, Anatone, Whitmar	2.0 – 3.0	6 – 9
Idaho fescue		2.0 – 3.0	31 – 41

CP21 Introduced Seed Mixes for greater than 12"ppt.

Grass species that tend to dominate a stand (pick at least two):

Species	Variety	Pounds/acre	Seeds/sq. ft.
Pubescent/intermediate wheatgrass	Topar, Luna Greenar, Oahe	4.0 – 5.0	8 – 10
Hard fescue	Covar, Durar	1.0 – 2.0	15 – 30
Tall wheatgrass	Jose, Largo, Alkar	4.0 – 5.0	7 – 9

Minor Grass Species (use as needed to meet CP1 practice and point criteria.)

Note: Species used as a dominate grass may not also be used as a minor species.

Species	Variety	Pounds/acre	Seeds/sq. ft.
Pubescent/intermediate wheatgrass		2.0	4
Hard fescue	Covar, Durar	1.0	15
Tall wheatgrass	Jose, Largo, Alkar	2.0	4
Crested/Siberian	Nordan, Vavilov I or II, Hycrest, CD II	2.0	9
Orchardgrass (for >16" precip)		1.0 – 2.0	12 – 25
Tall fescue (for > 16" precip)		2.0 – 4.0	5 - 10
Mammoth wildrye (sandy)	Volga	3.0 – 5.0	4 – 7

TREE, SHRUB, FORB & LEGUME RATES IN MIXTURES FOR CP1, CP2, CP4B & CP4D

Choose species approved for the applicable practice.

LEGUMES	Minimum Pounds PLS/Species	Precipitation zone	
Alfalfa	2	≥ 10 inches	
Sweet Clover	2	≥ 8 inches	
Lupine	1	Any	
Hairy Vetch	7	≥ 12 inches	
Sainfoin	10	≥ 10 inches	
Red clover	3	≥ 16 inches	
FORBS			
Louisiana sage	0.2	Any	
Western Yarrow	0.2	Any	
Blue flax	1	Any	
Small burnet	2	≥ 11 inches	
SHRUBS			Note for Shrubs:
Sagebrush	0.2	< 16 inches	If plugs are used instead of seed in CP2 – 20 plugs per offer acre will be planted. The plants may be clumped on the best sites.
Rabbitbrush	1	< 16 inches	
Snowberry	Plugs only	≥ 15 inches	If plugs are used instead of seed in CP4D – 40 plugs per offer acre will be planted. The plants may be clumped on the best sites. If shrub seed is used, at least 5% of the offered acres must be seeded. When seed is used, no credit will be given for existing shrubs.
Rose	Plugs only	≥ 15 inches	
Serviceberry	Plugs only	≥ 16 inches	
Winterfat	Plugs only	< 14 inches	
Fourwing saltbrush	Plugs only	< 14 inches	
Eriogonum species	Plugs only	< 16 inches	
Siberian peashrub	Plugs only	11 to 16 inches	
Western clematis	Plugs only	≥ 12 inches	
Douglas (black) hawthorne	Plugs only	≥ 14 inches	
Western chockcherry	Plugs only	≥ 16 inches	
Blue elderberry	Plugs only	≥ 14 inches	
Mockorange	Plugs only	≥ 14 inches	
Ocean spray	Plugs only	≥ 16 inches	
Baldhip rose	Plugs only	≥ 14 inches	
Bitterbrush	Plugs only	8 to 18 inches	
TREES			Note for Trees:
Ponderosa pine	Bareroot or plugs	≥ 14 inches	For CP4B & CP4d in > 15 inch precipitation zone, 500 stems/acre will be planted on 10% of the offer acres. 20% of stems will be trees & 80% will be shrubs.
Rocky mt. juniper	Bareroot or plugs	≥ 12 inches	
Western juniper	Bareroot or plugs	≥ 9 inches	