Precip. Zone 7-15" **Federal Properties** Sandy/Loamy Soils/Alkali Soils Shrubs Forbs Bunchgrasses **Rhizominous Grasses** Choose a min. of 4 different forbs. Choose min. of 2 grass from this Choose a min. of 1 grass from this Choose a min. of 2 different Total not to exceed 20% of list. Combined grasses not to list. Combined grasses not to species. Not to exceed 20% entire composition. exceed 60% of entire composition. exceed 60% of entire composition. of entire composition. Common Name Seed Rates Common Name Common Name Seed Rates Common Name Seed Rates Common Name Seed Rates Scientific Name Scientific Name Scientific Name Scientific Name Scientific Name 1.5 White Sand Verbena - Tailcup lupine(T) - 2.4 Indian Ricegerass(A) 1.3 Slender wheatgrass(A) - 1.1 Winterfat(A) Lupinus ssp. Oryzopsis hymenoides/ Krascheninnikovia Abronia mellit Elymus trachycaulus - Native Yarrow - .03 Silvery/Silverleaf Lupine(T) Achnatherum hymenoides lanata Achillea millefolium Canby's buscuitroot Needleandthreadgrass Gardener's Saltbush(A) 1.5 Streambank wheatgrass(A) Lomatium ssp. Hesperostipa comata ssp. Elymus lanceolatus ssp. Atriplex gardneri - Wveth biscuitroot Bluebunch Wheatgrass(A) - Western Wheatgrass(A) Four-wing Saltbush(A) Agoseris glauca 1.3 - 1.6 1.7 Pascopyrum smithii Atriplex canescens - Wild Onion - Prairie Aster Pseudoroegneria Allium paniculatum - Prairie dandelion Spicata ssp. - Thickspike Wheatgrass(A) - Wy. Big sagebrush(A) - 1.1 Mutton Bluegrass Atremisia tridentata Pacific/Western Aster - Sand bluestem Microseris troximoid Hooker's evening-primrose Bottlebrush Squirreltail(A) Andropogon hallii wyomingensis ssp. Aster ssn. Basin big sagebrush(A) Oenothera ssp. Elymus elymoides New England aster Pale evening-primrose(A) **Prairie Junegrass** Low sage(A) Purple Milkvetch(T) Koeleria macrantha - bud sagebrush(A) Owl's clover(A) - .02 Astragalus ssp. Orthocarpus luteus/tolmiei Sand dropseed rabbitbrush(A) .12 Painted Milkvetcl Sweet Anise Sporobolus cryptandrus Chrysothamnus basin wildrve(A) nauseousis albicaulis/ Bastard Draba Milkvetch(T) Osmorhiza occidentalis - Payson's Milkvetch(T) Woolly groundsel(A) Leymus cinereus hololeucus Cutleaf Balsamroot · Nuttail's Alkaligrass(A) Silver buffalobe puccinellia nuttaliana Shepherdia agentea Broadbeard beardtongue Alkali Sacaton(A) Skunkbush sumac - Arrowleaf Balsamroot Penstemon angustifolius 3.3 Rhus trilobata Nutt Sporobolus airoides Sego Lily Sandberg bluegrass(A) Currant Calochortus nuttallii Firecracker Pentstemon Poa secunda ssp. Ribes aureum Penstemon ssp. - Early Indian Paintbrush - .02 Canby bluegrass(A) Castilleia chromosa or Palmer Penstemon 1.2 applegatei ssp.Martinii Pincushion Beardtongue Symphoricarpos - .06 occidentalis ssp. Rocky Mtn. beeplant Penstemon procerus Doual. Cleome serrulata ex graham var. procerus 1.1 Tapertip hawksbeard Great Basin/Smooth Penstemon Crepis acuminata Nutt Rocky Mtn. Penst White Prairie Clover - Carpet phlox(A) Spiny hopsage(A) .52 Grayia spinosa Dalea candidum ssp Phlox ssp. granite prickly phlox(A) Longleaf phlox Violet Prairie Clover Leptodactylon pungens American bistort Purple coneflower Polygonum bistortoides Echinacea purpurea - Wyeth Buckwheat red glasswort(A) Eriogonum ssp. Salicornia rubra - Sulfur Buckwheat upright prairie coneflower Plant only in Zone 11-15" Blanketflower (A) Will grow in Alkaline soils Gaillardia aristata Scarlet globemallow(A) Northern sweetvetch Sphaeralcea ssp. (T) May be toxic to livestock & wildlife if other species are not Hedysarum boreale available – plant in very small quantities. - Munro globemallow(A) **Ballhead Waterleaf** Seepweed(A) (NN) Non-Native. Private & State lands only(Prohibited Federal - .2 Lewis Blue Flax Suaeda calceoliformis - .2 lands) Seed rates are for a 100% stand. I inum lewisii Small Burnet(NN) - 15lbs/acre Golden Banner Sangvisorba minor Blue Flax(NN) - 3lbs/acre - Hollyleaf Clover(A) Lunum lewisii ssp. Trifolium ssp. - Scarlet Flax(NN) Seed distributors can offer guidance on seeding depths, best times to - 7lbs/acre Cows Clover(A) Sanfoin(NN) - 35lbs/acre Onobrychis vicifolia seed and techniques. - 1.5 Wyethia amplexicaulis Strawberry Clover(NN)

- 5lbs/acre

Trifoluim ssp.

- 1.3

- American Vetch

Vicia americana Violets Viola

LOCAL SAGE GROUSE WORKING GROUP SEED MIX



SEEDING RATES:

Drilling seed – 1x rate to equal 100% seed volume Broadcast seed – 2x rate to equal 200% seed volume.

Seed mixture recommendation is based on 20 seeds/square ft. at a 100% seed mix composition. If extreme conditions such as lack of topsoil, steep slopes, poor soils, etc. exist increase total mixture to 40-60 seeds/square ft.

COVER CROPS

Cover crops can reduce weed problems, stabilize soil, help increase moisture, and protect small seedlings as they are germinating and growing. They can be used before desired planting is initiated or mixed with the seed mix. However, it should be stressed that a reduced seeding rate is vital to reduce competition of resources. For example, if a planting of native forbs and grasses were to occur in the fall, a cover crop could be planted the previous fall or spring. The cover crop could then be drilled over in the fall with the desired seed mix. Another option would be to place the cover crop seed in a separate box, or mix with similar size seed and plant together. If a nonnative/cereal cover crop is to be used on federal lands, it should be a sterile variety.

Types of Cover Crops that may be used on Federal Lands:

Sterile Triticale, rye, barley, wheat 8-10 lbs/acre* Slender wheatgrass (native) 2-3 lbs/acre

Private Lands:

Any of the varieties acceptable on Federal lands Wooly Pod Vetch Vicia dasycarpa 8-15lbs/acre Hairy Vetch Vicia villosa 8-15 lbs/acre

Attached is a seed and plant vendor's list for a small part of the Intermountain West. Users of this list should note that this is only a partial listing of conservation plant and seed sources (retailers, wholesalers, nurseries and private growers). This list does not constitute an endorsement of the included vendors, nor does it guarantee the reliability or quality of products.

Available Seed Sources

Dean Anderson 2527 Hwy. 215

Pine Bluffs, WY 82082

Parko Farms Star Route, Box 162A Powell, WY 82435 (307) 754-3080

Clouds Seed Co. P.O. Box 937 Sheridan, WY 82801

Spiering Farms 1170 Road 19 Powell, WY 82435 (307) 754-4349

Etheridge Seed Farms 2028 Lane 11 Powell, WY 82435 (307) 754-2366

Wind River Seed Co. 3075 Lane 51 ½

Manderson, WY 82432

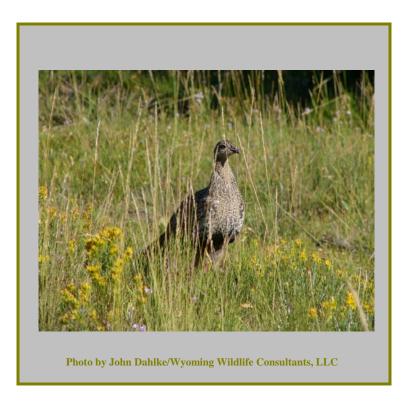
Yoder Grain & Lumber Co. (307) 568-3361 Torrington, WY 82240 (307) 532-2355

Fax: (307) 568-3364 www.windriverseed.com

Granite Seed 1697 West 2100 North Lehi, UT, 84043 (801) 768-4422

(Require the seed to be free of noxious weeds and weedy bromes.)

See the National Plants Database at http://plants.usda.gov/



Beneficial Seed Matrix for Sage Grouse, Mule

and Associated Sage Steppe Species

Deer, Antelope

Published by: BLM, NRCS, Wyoming Dept. of Game & Fish, The Upper Green River Basin Local Sage Grouse Working Group

^{*}If planting independently, plant 1.5-3 inches deep