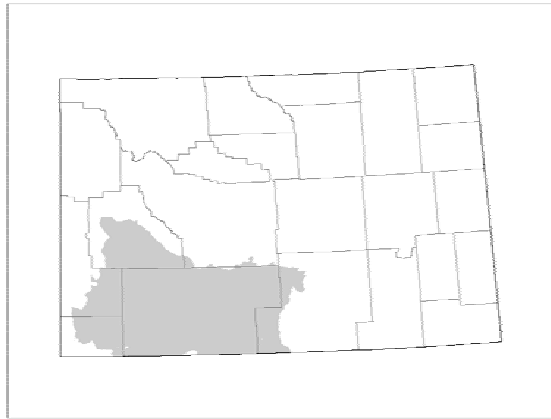


Wyoming's wildlife is one of the state's most treasured assets. Beneficial plantings can provide food sources, increase cover and biodiversity which, in turn, harbor the multiple species that make up our wild Wyoming landscapes.



Shaded area represents the Upper Green River Basin and the Great Basin Divide (closed basin) within Wyoming where seed mix applies.

Cover crops can reduce weed problems, stabilize soil, increase moisture, sequester carbon, increase soil organic matter, increase biodiversity, promote nitrogen-fixation and protect small seedlings as they are germinating and growing. They are used before desired planting is initiated, however, it should be stressed that a reduced seeding rate is vital to reduce competition for resources.

Available Seed Sources

This list does not constitute an endorsement of the included vendors, nor does it guarantee the availability, pricing, reliability, or quality of products.

Arkansas Valley Seed
4336 HWY 66
Longmont, CO. 80504
877-907-3337

Sheridan Seed Co. Inc.
161 N. Scott
Sheridan, WY. 82801
307-672-2475

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

Walker's Agri-Service Inc.
PO Box 1254
Pinedale, WY 82941
(307) 367-2589

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

Wind River Seed Co.
3075 Lane 51 ½
Manderson, WY 82432
(307) 568-3361
Fax: (307) 568-3364
www.windriverseed.com

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

See the National Plants Database at <http://plants.usda.gov/> for more information regarding specific plant characteristics.

When available, choose local ecotypes and/or improved cultivars adapted to the area.



Photo by John Dahlke/Wyoming Wildlife Consultants, LLC

Beneficial Seed Matrix for Sage Grouse, Mule Deer, Antelope and Associated Sage Steppe Species of the Upper Green River

Published by:
Upper Green River Basin Local Sage Grouse Working Group
Represented by:
BLM, NRCS, WGFD, Industry, Sublette County Government, Agriculture, Sportsman, Conservation

UPPER GREEN RIVER LOCAL SAGE GROUSE WORKING GROUP SEED MIX GUIDELINES



Photo by John Dahlke/Wyoming Wildlife Consultants, LLC.

FORBS Choose a min. of 4 forbs Total not to exceed 20% of seed mix composition.		BUNCHGRASSES Choose min. of 2 grasses. Combined bunchgrasses not to exceed 40% of composition.		RHIZOMATOUS GRASSES Choose a min. of 1 grass. Combined rhizomatous grasses not to exceed 20% of entire composition.		SHRUBS Choose a min. of 2 shrubs Total not to exceed 20% of seed mix composition.	
Common Name Scientific Name	Seed Rates PLS #/acre for 5% comp.	Common Name Scientific Name	Seed Rates PLS #/acre for 5% comp.	Common Name Scientific Name	Seed Rates PLS #/acre for 20% comp	Common Name Scientific Name	Seed Rates PLS #/acre for 10% comp
Fleabane Daisy <i>Erigeron speciosus</i> <i>var. macranthus</i>	.05	American Vetch <i>Vicia americana</i>	1	Alkali Sacaton (S) <i>Sporobolus airoides</i>	.4	Western Wheatgrass (S) <i>Pascopyrum smithii</i>	1.2
American Bistort <i>Polygonum bistortoides</i>	.4	Arrowleaf Balsamroot <i>Balsamorhiza sagittata</i>	1	Canby bluegrass <i>Poa secunda</i>	.4	Streambank Wheatgrass (S) <i>Elymus lanceolatus</i> <i>ssp. lanceolatus</i>	1.2
Blueleaf (gray) Aster <i>Eurybia glauca</i>	.1	Biscuitroot <i>Lomatium</i> ssp.	.4	Letterman Needlegrass <i>Achnatherum lettermanii</i>	1.2	Thickspike Wheatgrass (S) <i>Elymus lanceolatus</i> <i>ssp. lanceolatus</i>	1.2
Canada Milkvetch (T) <i>Astragalus canadensis</i>	.15	Broadbeard Beardtongue <i>Penstemon angustifolius</i>	.2	Mutton Bluegrass <i>Poa fendleriana</i>	.1		
Common Sunflower(A) <i>Helianthus annuus</i>	1.0	Firecracker Penstemon <i>Penstemon eatonii</i>	.1	Prairie Junegrass <i>Koeleria macrantha</i>	.2		
Cows Clover(S)(A) <i>Trifolium wormskioldii</i>	.1	Gooseberry Globemallow <i>Sphaeralcea grossulariifolia</i>	.1	Indian Ricegrass (S) <i>Achnatherum hymenoides</i>	1.2		
Fuzzytongue Penstemon <i>Penstemon eriantherus</i> <i>var. eriantherus</i>	.15	Munro Globemallow (S) <i>Sphaeralcea munroana</i>	.1	Needleandthread <i>Hesperostipa comata</i> <i>ssp. comata</i>	1.2		
Goldenbanner(T) <i>Thermopsis montana</i>	.1	Owl's Clover (A)(S) <i>Orthocarpus luteus</i>	.05	Bluebunch Wheatgrass <i>Pseudoroegneria spicata</i>	1.4		
Hooker's Evening-primrose (B) <i>Oenothera elata</i>	.05	Scarlet Globemallow(S) <i>Sphaeralcea coccinea</i>	.1	Bottlebrush Squirreltail (S) <i>Elymus elymoides</i>	1		
Little-flowered Penstemon <i>Penstemon procerus</i> <i>var. procerus</i>	.05	Silky Lupine (T) <i>Lupinus sericeus</i>	1.5	Basin Wildrye (S) <i>Leymus cinereus</i>	1.2		
Mountain Dandelion <i>Agoseris glauca</i>	.1	Silverleaf Phacelia <i>Phacelia hastata</i> <i>var. hastata</i>	.1	Sandberg Bluegrass (S) <i>Poa secunda</i>	.2		
Pale Evening-primrose(B) <i>Oenothera pallida</i>	.1	Sulfur Buckwheat <i>Eriogonum umbellatum</i>	.2	Big Bluegrass <i>Poa secunda</i>	.4		
Prairie Flax <i>Linum lewisii</i>	.15	Tapertip Hawksbeard <i>Crepis acuminata</i>	.1	Beardless Wheatgrass <i>Pseudoroegneria spicata</i> <i>ssp. inermis</i>	1.4		
Rocky Mtn. Beeplant (A) <i>Cleome serrulata</i>	.6	Tapertip Onion <i>Allium acuminatum</i>	.2	Slender Wheatgrass (S) <i>Elymus trachycaulus</i>	1.2		
Rocky Mtn. Penstemon <i>Penstemon strictus</i>	.05	Woolly Groundsel (S) <i>Packera cana</i>	.1				
Silvery Lupine (T) <i>Lupinus argenteus</i>	.35	Yarrow <i>Achillea millefolium</i>	.05				
Utah Sweetvetch <i>Hedysarum boreale</i> <i>ssp. boeale</i>	.2						
Wavyleaf Indian Paintbrush <i>Castilleja applegatei</i>	.1						
Western Aster <i>Symphotrichum ascendens</i>	.05						

Introduced (Non-Native) Species Plant on Private & State Lands Only (Prohibited on Federal Lands)	
Common Name Scientific Name	Seed Rates for 100% stand
FORBS	FORBS
Birdsfoot Trefoil (I) <i>Lotus corniculatus</i>	5
Cicer Milkvetch (I) <i>Astragalus cicer</i>	7
Strawberry Clover (I) <i>Trifolium fragiferum</i>	4
Sainfoin (I) <i>Onobrychis viciifolia</i>	34
Blue Flax (I) <i>Linum perenne</i>	3
Small Burnet (I) <i>Sanguisorba minor</i>	20
Yellow-flowered Alfalfa (I) <i>Medicago sativa</i> <i>ssp. falcata</i>	5
Yellow or White Sweetclover (I) <i>Mellilotus officinalis</i>	4
SHRUBS	SHRUBS
Forage Kochia (S) (I) <i>Bassia prostrata</i>	2

Seeding mixtures that are heavier in the number of shrubs and forbs may potentially provide higher habitat value in a shorter time period.

Plant only in irrigated meadows or areas receiving ≥15" ppt
Plant only in areas receiving ≥10" ppt
(All other species are perennials)
(A) Annual (B) Biennial (I) Introduced
(S) Salt tolerant species
(T) May be toxic to livestock & wildlife if other species are not available – plant in very small quantities

Seeding Rates and Methods:
Drill – seed at the rates listed when following the recommended mix guidelines
Broadcast – seed at double the rates listed when following the recommended mix guidelines
Note: if extreme conditions such as steep slope (>15%) or poor topsoil exist, double the rates for the seeding methods listed.
Recommended seeding dates: Sep 20 - May 15
For information regarding seedbed preparation, seeding techniques, or for a site specific seeding recommendation based on site conditions, soils, climate, ownership, and resource goals, contact an NRCS or other agency representative in your area.