

PARTIAL LIST OF NATIVE GRASSES FOR CONSERVATION, FORAGE PRODUCTION, AND RECLAMATION FOR PACIFIC NORTHWEST

| | Cultivar or 'Germplasm' | Origin | Ease of Establishment't | Seeds per Pound | Pure Stand Seeding Rate | Min Precip. (in) | Growth Type | Shallow Soil Tol. | Nutrient Requirem't | Weed Suppres'n | Vital Attributes |
|------------------------|-------------------------|------------|-------------------------|-----------------|-------------------------|------------------|---------------|-------------------|---------------------|----------------|--|
| Big Bluegrass | Sherman | WA | Easy | 925,000 | 3 | 9 | Short Bunch | Good | Low | Good | Early season growth, Excel. reseed |
| | Service | AK | Easy | 925,000 | 3 | 16 | Short Bunch | Good | Low | Fair | Adapted to northern Pacific coast |
| Canby Bluegrass | Canbar | WA | Difficult | 926,000 | 3 | 9 | Short Bunch | Good | Low | Fair | Very early, Excel. in dryland mixes |
| Sandberg's Bluegrass | High Plains | - | Difficult | 925,000 | 3 | 8 | Short Bunch | Excel. | Low | Poor | Very early, Excel. in dryland mixes |
| Mountain Bromegrass | Bromar | WA | Easy | 80,000 | 10 | 16 | M. Tall Bunch | Good | Moderate | Good | Excel. seedling vigor, Short-lived, Use in mixes only |
| Sand Dropseed | none | | Moderate | 5,300,000 | 0.5 | 7 | Short Bunch | Excel. | Low | Fair | Excel. reseed, Tol. trampling |
| Idaho Fescue | Nez Perce | ID | Difficult | 450,000 | 4 | 16 | Short Bunch | Good | Low | Fair | Slow to establish, Dense roots |
| | Joseph | ID | Difficult | 450,000 | 4 | 16 | Short Bunch | Good | Low | Fair | Slow to establish, Dense roots |
| | 'Winchester, ID' | ID | Difficult | 450,000 | 4 | 16 | M. Tall Bunch | Good | Low | Fair | Slow to establish, Fair reseed |
| Tufted Hairgrass | Peru Creek | CO | Moderate | 2,500,000 | 1 | 18 | Tall Bunch | Fair | Moderate | Good | Tol. acid mine spoil, Excel. cold tol. |
| | Willamette | OR | Moderate | 2,500,000 | 1 | 18 | Tall Bunch | Fair | Moderate | Good | Not cold tol., tol flooding & clay soil |
| | Tillamook | OR | Moderate | 2,500,000 | 1 | 18 | Tall Bunch | Fair | Moderate | Good | Not cold tol., coastal estuary ecotype |
| Prairie Junegrass | Barakoel | N. America | Difficult | 2,300,000 | 1 | 12 | Short Bunch | Good | Low | Fair | Barakoel developed for low maintenance turf |
| Needle-and-thread | - | | Easy | 180,000 | 4 | 6 | Short Bunch | Excel. | Low | Poor | Very drought tolerant. Grows well in coarse soils |
| Indian Ricegrass | Nezpar | ID | Moderate | 235,000 | 6 | 10 | Short Bunch | Fair | Low | Poor | Seed 2" deep, Excel. sand stilling grass |
| | Rimrock | MT | Moderate | 235,000 | 6 | 10 | Short Bunch | Fair | Low | Poor | Seed 2" deep, Does not shatter |
| | Paloma | CO | Moderate | 235,000 | 6 | 10 | Short Bunch | Fair | Low | Poor | Seed 2" deep, Excel. sand stilling grass |
| Beardless Wheatgrass | Whitmar | WA | Moderate | 145,000 | 7 | 12 | M. Tall Bunch | Fair | Low | Good | Long-lived, Poor reseed |
| Bluebunch Wheatgrass | Goldar | WA | Moderate | 139,000 | 7 | 12 | M. Tall Bunch | Good | Low | Good | Long-lived, Poor reseed |
| | P-7 | NW USA | Moderate | 139,000 | 7 | 12 | M. Tall Bunch | Good | Low | Good | Long-lived, Composite of 7 ecotypes |
| | 'Anatone, WA' | WA | Moderate | 139,000 | 7 | 12 | M. Tall Bunch | Good | Low | Good | Long-lived, More drought tol. than Goldar |
| Slender Wheatgrass | Pryor | MT | Easy | 90,000 | 6 | 10 | Tall Bunch | Good | Mod. High | Excel. | Short-lived, Excel. seedling vigor, Use in mixes only |
| | San Luis | CO | Easy | 135,000 | 6 | 10 | Tall Bunch | Good | Mod. High | Excel. | Short-lived, Excel. seedling vigor, Use in mixes only |
| | Revenue | SASK. | Easy | 135,000 | 6 | 10 | Tall Bunch | Good | Mod. High | Good | Short-lived, Excel. seedling vigor, Use in mixes only |
| Snake River Wheatgrass | Secar | ID | Moderate | 139,000 | 7 | 8 | M. Tall Bunch | Good | Low | Good | Long-lived, very similar to Bluebunch |
| Streambank Wheatgrass | Sodar | OR | Moderate | 135,000 | 6 | 8 | M. Tall Rhiz. | Fair | Low | Good | Long-lived, Drought tol., Forms dense stands |
| Thickspike Wheatgrass | Critana | MT | Easy | 135,000 | 6 | 8 | M. Tall Rhiz. | Fair | Low | Excel. | Long-lived, Drought tol., Forms dense stands |
| | Bannock | ID | Easy | 135,000 | 6 | 8 | Tall Rhiz. | Fair | Low | Excel. | Stands diminish 5-6 years, Very drought tol. |
| | Schwendimar | WA | Easy | 135,000 | 6 | 8 | Tall Rhiz. | Fair | Low | Excel. | Stands diminish 5-6 years, Very drought tol. |
| Western Wheatgrass | Rosana | MT | Difficult | 115,000 | 6 | 14 | M. Tall Rhiz. | Poor | Mod. High | Excel. | Usually in moist swales, Long-lived |
| | Barton | KS | Difficult | 115,000 | 6 | 14 | M. Tall Rhiz. | Poor | Mod. High | Excel. | Usually in moist swales, Long-lived |
| | Rodan | ND | Difficult | 115,000 | 6 | 14 | M. Tall Rhiz. | Poor | Mod. High | Excel. | Usually in moist swales, Long-lived |
| | Arriba | CO | Difficult | 115,000 | 6 | 14 | M. Tall Rhiz. | Poor | Mod. High | Excel. | Usually in moist swales, Long-lived |
| Basin Wildrye | Magnar | B.C. | Moderate | 130,000 | 7 | 8 | Tall Bunch | Poor | High | Good | Long-lived, Tall, Excel. bird habitat |
| | Trailhead | MT | Moderate | 130,000 | 7 | 8 | Tall Bunch | Poor | High | Good | Long-lived, Tall, Excel. bird habitat |
| Beardless Wildrye | Shoshone | WY | Difficult | 150,000 | 6 | 14 | Tall Rhiz. | Poor | High | Good | Tol. Wet-saline soil, Long-lived |
| | Rio | CA | Difficult | 150,000 | 6 | 14 | Tall Rhiz. | Poor | High | Good | Tol. wet-saline soil, Long-lived |
| Blue Wildrye | Elkton | OR | Easy | 145,000 | 7 | 16 | Tall Bunch | Fair | High | Good | Short-lived, Excel. reseed, Tol. part shade, Use in mixe |
| | Arlington | WA | Easy | 145,000 | 7 | 16 | Tall Bunch | Fair | High | Good | Short-lived, Excel. reseed, Tol. part shade, Use in mixe |
| Canada Wildrye | Mandan | ND | Easy | 115,000 | 7 | 15 | Tall Bunch | Good | Moderate | Fair | Short-lived, Excel. In mixes, Grows well in coarse soils |



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PARTIAL LIST OF INTRODUCED GRASSES FOR CONSERVATION, FORAGE PRODUCTION, AND RECLAMATION FOR PACIFIC NORTHWEST

| | Cultivar | Origin | Ease of Establishm't | Seeds per Pound | Pure Stand Seeding Rate | Min Precip. (in) | Growth Type | Shallow Soil Tol. | Nutrient Requirem't | Weed Suppres'n | Vital Attributes |
|--------------------------------|---------------|-------------|----------------------|-----------------|-------------------------|------------------|-----------------|-------------------|---------------------|----------------|---|
| Bentgrass | Several | Europe | Moderate | 7,500,000 | 0.5 | 20 | Short, Stolon. | Good | Low | Good | Good sod formers, Excel. wet soil tol. |
| Canada Bluegrass | Ruebens | Europe | Easy | 1,600,000 | 1 | 18 | Short Rhiz. | Good | Moderate | Good | Tol. close grazing, Withstands inundation well, early grow |
| | Talon | Europe | Easy | 1,600,000 | 1 | 18 | Short Rhiz. | Good | Moderate | Good | Tol. close grazing, Withstands inundation well, early grow |
| Kentucky Bluegrass | Several | Europe | Moderate | 2,200,000 | 1 | 18 | Short Rhiz. | Good | High | Good | Tol. Close grazing, Primarily turf grass, Early growing |
| Meadow Bromegrass | Regar | Turkey | Easy | 80,000 | 10 | 15 | Tall Weak Rhiz. | Fair | High | Good | Excel. seedling vigor, Compatible with alfalfa hay mixes |
| Smooth Bromegrass | Manchar | Manchuria | Easy | 125,000 | 6 | 15 | Tall Rhiz. | Poor | Moderate | Excel. | Aggressive sod former, Can be weedy |
| | Lincoln | Hungary | Easy | 125,000 | 6 | 15 | Tall Rhiz. | Poor | Moderate | Excel. | Aggressive sod former, Can be weedy |
| Tall Fescue | Several | Europe | Easy | 230,000 | 5 | 16 | Tall Bunch | Poor | High | Good | Good seedling vigor, Low palatability, Can be weedy |
| Sheep Fescue | Covar | Turkey | Moderate | 680,000 | 4 | 10 | Short Bunch | Good | Low | Good | Slow to establish but competitive, Dense roots, Drought t |
| | Michlenburger | Germany | Moderate | 680,000 | 8 | 16 | Short Bunch | Good | Low | Good | Better for the west side, Competitive, Dense roots |
| Hard Fescue | Durar | Eurasia | Moderate | 565,000 | 4 | 14 | Short Bunch | Good | Low | Good | Slow to establish but competitive, Dense roots, Drought t |
| Creeping Red Fescue | Several | Eurasia | Easy | 615,000 | 4 | 20 | Short Rhiz. | Good | Low | Good | Tolerates shade very well, Lacks drought tol. |
| Creeping Foxtail | Garrison | Eurasia | Moderate | 900,000 | 3 | 18 | M. Tall Rhiz. | Poor | High | Excel. | Fluffy seed, Excel. for wet soils, Good hay grass |
| Orchardgrass | Several | Asia | Easy | 540,000 | 4 | 16 | Tall Bunch | Good | High | Good | Very palatable, Good seedling vigor, Excel. hay grass |
| Rescuegrass | Matua | New Zealand | Easy | 62,000 | 12 | 20 | Tall Bunch | Fair | High | Good | Reseeds well, Short-lived, Palatable pasture grass |
| | Prairie | S. America | Easy | 62,000 | 12 | 20 | Tall bunch | Fair | High | Good | Reseeds well, Short-lived, Palatable pasture grass |
| Perennial Ryegrass | Several | Europe | Easy | 247,000 | 5 | 14 | M. Tall Bunch | Fair | High | Fair | Fast establishing, Can be short-lived, Most cultivars are f |
| Timothy | Several | Europe | Easy | 1,300,000 | 3 | 18 | M. Tall Bunch | Good | Moderate | Fair | Excel. for wet soils, Does not perform well on clays, Pala |
| Crested Wheatgrass | Hycrest | Eurasia | Easy | 175,000 | 5 | 10 | M. Tall Bunch | Fair | Low | Good | Very productive, Good spring grazing |
| | Nordan | Eurasia | Easy | 175,000 | 5 | 8 | M. Tall Bunch | Fair | Low | Good | More drought tol. than Hycrest |
| | Ephraim | Eurasia | Easy | 175,000 | 5 | 12 | M. Tall Bunch | Fair | Low | Good | Rhizomatous with >14" ppt |
| | Douglas | Eurasia | Easy | 175,000 | 5 | 15 | M. Tall Bunch | Poor | Moderate | Good | Very productive, Wide leaves, Needs ample ppt. |
| | Parkway | Eurasia | Easy | 200,000 | 6 | 9 | Short Bunch | Fair | Low | Good | Shorter than Nordan, Semi-turf type |
| Hybrid Wheatgrass | Newhy | Eurasia | Easy | 90,000 | 8 | 10 | Tall Weak Rhiz. | Poor | Moderate | Excel. | Bluebunch X Quackgrass, Not aggressive, Excel. salinity |
| Intermediate Wheatgrass | Several | Eurasia | Easy | 90,000 | 8 | 12 | Tall Rhiz. | Poor | Moderate | Good | Fast establishing, Persistent, Good summer grazing |
| Pubescent Wheatgrass | Several | Eurasia | Easy | 90,000 | 8 | 12 | Tall Rhiz. | Poor | Moderate | Good | Fast establishing, Persistent, Good summer grazing |
| Siberian Wheatgrass | P-27 | USSR | Easy | 250,000 | 6 | 7 | Short Bunch | Fair | Low | Good | Similar to Crested, Better than Crested on sandy (light) s |
| | Vavilov | USSR | Easy | 250,000 | 6 | 7 | Short Bunch | Fair | Low | Good | Excel. seedling vigor, Persistent, Tol. light soils |
| Tall Wheatgrass | Alkar | USSR | Easy | 79,000 | 10 | 12 | Tall Bunch | Poor | High | Good | Excel. for saline soils, Very tall, Excel. bird habitat |
| | Jose | Eurasia | Easy | 79,000 | 10 | 12 | Tall Bunch | Poor | High | Good | Better forage quality than Alkar |
| | Largo | Turkey | Easy | 79,000 | 10 | 12 | Tall Bunch | Poor | High | Good | Excel. for saline soils, Excel. bird habitat |
| Mammoth Wildrye | Volga | USSR | Difficult | 55,000 | 15 | 7 | Tall Rhiz. | Poor | Moderate | Fair | Excel. for inland sand dune stabilizat'n, Tall-coarse stems |
| Russian Wildrye | Bozoisky | USSR | Difficult | 170,000 | 6 | 9 | Tall bunch | Fair | Moderate | Good | Needs wide row spacing, Good winter forage |
| | Vinal | USSR | Difficult | 170,000 | 6 | 11 | Tall Bunch | Fair | Moderate | Good | Needs wide row spacing, Good winter forage |
| | Swift | USSR | Difficult | 170,000 | 6 | 11 | Tall Bunch | Fair | Moderate | Good | Needs wide row spacing, Good winter forage |
| Altai Wildrye | Prairieland | USSR | Difficult | 100,000 | 10 | 12 | Tall Rhiz. | Fair | Mod. | Good | Excel. tol. of wet saline soils, Very nutritious |



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PARTIAL LIST OF LEGUMES AND FORBS FOR CONSERVATION, FORAGE PRODUCTION, AND RECLAMATION FOR PACIFIC NORTHWEST

| | <u>Cultivar</u> | <u>Origin</u> | <u>Ease of Establishm't</u> | <u>Seeds per Pound</u> | <u>Pure Stand Seeding Rate</u> | <u>Min Precip. (in)</u> | <u>Growth Type</u> | <u>Shallow Soil Tol.</u> | <u>Nutrient Requirem't</u> | <u>Weed Suppres'n</u> | <u>Vital Attributes</u> |
|------------------------------|-----------------|---------------|-----------------------------|------------------------|--------------------------------|-------------------------|--------------------|--------------------------|----------------------------|-----------------------|---|
| Alfalfa | Many | Eurasia | Easy | 252,000 | 6 | 10 | Multistem Crown | Poor | Moderate | Good | Use winterhardy single-cut types for dryland |
| Black Medic | George | Eurasia | Easy | 283,000 | 6 | 10 | Multistem Crown | Good | Moderate | Fair | Annual, Excel. Reseeder, Developed for quick cover |
| Kura Clover | Rhizo | Eurasia | Moderate | 148,000 | 8 | 15 | Rhizomatous | Fair | Moderate | Fair / Good | Slow to establish (3 yrs), Dense stands |
| Red Clover | Several | Eurasia | Easy | 281,000 | 6 | 14 | Multistem Crown | Good | Moderate | Good | Can be short-lived, Palatable |
| Subterranean Clover | Several | Europe | Easy | 70,000 | 15 | 18 | Winter-annual | Fair | High | Good | Better adapted west of Cascades |
| White Clover | Several | Eurasia | Easy | 800,000 | 3 | 18 | Stoloniferous | Good | Moderate | Good | Good reseeder, Hard seeded, Tol. compacted soil |
| Cicer Milkvetch | Lutana | Europe | Easy | 145,000 | 7 | 14 | Multistem Crown | Fair | Moderate | Good | Good for bottomlands, Hay/pasture use |
| Purple Prairieclover | Kaneb | Kansas | Easy | 274,000 | 6 | 12 | Multistem Crown | Fair | Low | Fair | Adapted to dry hillsides, Showy seedheads |
| Sainfoin | Remont | Eurasia | Easy | 18,000 | 34 | 12 | Multistem Crown | Poor | Moderate | Fair | Excel. wildlife feed, Can be short-lived, Pasture/hay |
| | Eski | Eurasia | Easy | 18,000 | 34 | 12 | Multistem Crown | Poor | Moderate | Fair | Excel. wildlife feed, Can be short-lived, Pasture/hay |
| Yellow Sweetclover | Several | Eurasia | Easy | 262,000 | 4 | 9 | Multistem Crown | Good | Low | Fair | Biennial, Good reseeder, Very tall |
| White Sweetclover | Several | Eurasia | Easy | 262,000 | 4 | 9 | Multistem Crown | Good | Low | Fair | Biennial, Good reseeder, Not as drought tol. as YSC |
| Utah Sweetvetch | Timp | UT | Moderate | 34,000 | 18 | 14 | Multistem Crown | Good | Low | Fair | Fairly large seeded, Cold tolerant |
| Birdsfoot Trefoil | Tretana | Eurasia | Easy | 470,000 | 5 | 14 | Multistem Crown | Fair | Moderate | Good | Tol. wet-gravelly soils, Can be weedy, Pasture/hay |
| | Cascade | Eurasia | Easy | 470,000 | 5 | 18 | Multistem Crown | Fair | Moderate | Good | Use west of Cascades, Can be weedy, Pasture/hay |
| Woolypod Vetch | Lana | Eurasia | Easy | 13,000 | 30 | 14 | Winter-annual | Good | Moderate | Good | Cover crop in Calif., High N producer |
| Small Burnet | Delar | Unknown | Moderate | 43,000 | 20 | 14 | Multistem Crown | Fair | Low | Fair | Excel. wildlife plant, Palatable, Not tol. Of wet soils |
| Blue Flax (Lewis) | Appar | Eurasia | Easy | 278,000 | 4 | 12 | Multistem Crown | Good | Low | Poor | Good reseeder, Tol. calcic soils, V. showy |
| | Maple Grove | UT | Easy | 278,000 | 4 | 12 | Multistem Crown | Good | Low | Poor | Good reseeder, V. showy |
| Venus Penstemon | Clearwater | ID | Easy | 1,090,000 | 2 | 16 | Multistem Crown | Good | Low | Fair | Showy blue flowers, fall seed only |
| Firecracker Penstemon | Richfield | UT | Easy | 315,000 | 4 | 10 | Multistem Crown | Good | Low | Poor | Showy red flowers, needs light to germinate |
| Fuzzytongue Penstemon | Old Mill Works | MT | Moderate | 358,000 | 3 | 12 | Multistem Crown | Good | Low | Poor | Showy lavender flowers, Tolerates heavy metal soils |
| Palmer Penstemon | Cedar | UT | Easy | 294,000 | 4 | 10 | Multistem Crown | Good | Low | Fair | Showy lt. purple flowers |
| Rocky Mtn Penstemon | Bandera | NM | Easy | 286,000 | 4 | 18 | Multistem Crown | Good | Low | Fair | Showy dark purple flowers |
| Louisiana Sage | Summit | ID | Easy | 4,500,000 | 1 | 10 | Rhizomatous | Good | Low | Fair | Does well on rocky soils, Stabilizes steep soils |
| Winterfat | Hatch | UT | Moderate | 113,000 | 1 | 12 | Multistem Crown | Good | Low | Poor | Palatable & nutritious winter forage for wildlife & livestock |
| | Open Range | MT & WY | Moderate | 113,000 | 1 | 12 | Multistem Crown | Good | Low | Poor | Palatable & nutritious winter forage for wildlife & livestock |
| Western Yarrow | none | native | Easy | 2,700,000 | 0.25 | 9 | Multistem Crown | Excel. | Low | Poor | Excel. reseeder, Showy, Use in range mixes |
| Snow Buckwheat | Umatilla | OR | Moderate | 427,000 | 3 | 6 | Multistem Crown | Excel. | Low | Poor | Tol. Rocky-droughty soils, Excel. For mine spoils |
| Forage Kochia | Immigrant | USSR | Difficult | 395,000 | 1 | 8 | Multistem Crown | Excel. | Low | Poor | Drought tol., Tol. extreme hot and cold, Palatable |
| Globemallow | none | Native | Moderate | 500,000 | 3 | 8 | Rhizomatous | Good | Low | Poor | Low growing, Showy, Use in range mixes |



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