



2023 SEED GUIDE




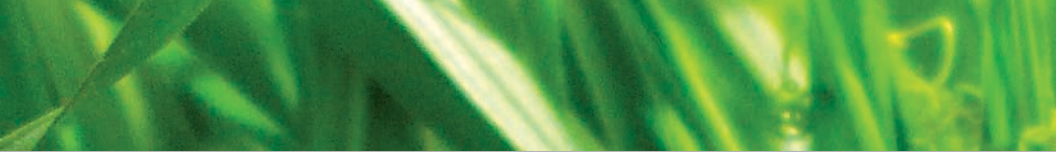
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THANKS FOR CHOOSING ECS.

Eastern Colorado Seeds, LLC, is a full-service seed company with facilities in Burlington, Colorado; Dumas, Texas; and Clovis, New Mexico. Our complete portfolio of quality grain, forage, reclamation and specialty seeds meets the needs of today's

producer, both on the High Plains and across the country.

Our commitment to our customers goes far beyond being a seed provider. We support and serve our producers with a staff of agriculturalists including Certified Crop Advisors, precision tech specialists and dairy and beef nutritionists. Our strategically located facilities allow us to logistically support growers with weekly and daily delivery schedules to their farm gates.

In an effort to bring added value to our customers' crops, the ECS origination program allows growers to maximize product value through our association with many

of the world's largest end users in the food grade, livestock feed and companion pet industries. With seed products ranging from corn and wheat to specialty crops including pulses, millets and sunflowers, our producers can diversify their programs while at the same time providing a consistent supply for our end users.

With more than 25 years in the seed business, ECS offers superior service from a knowledgeable staff and the ability to serve every order, from a few bags of seed to delivery by rail. Stop by one of our locations, give us a call, or visit our website at ecseeds.com — we are ready to show you the ECS difference.



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In farming, putting in half the effort will never cut it. PROTIVATE™ nutritional seed enhancer gives young crops the critical early season nutrition needed for optimal crop establishment while eliminating the need for talc.

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WITH A DUAL-PURPOSE
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AGRONOMIC SERVICES

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EVERLEAF 126 OATS

EVERLEAF 126 is a true spring oat with dark green foliage, an erect growth habit and very good standability. **EVERLEAF 126** has leaves that actually extend above the canopy at heading. **EVERLEAF 126** is a delayed-heading oat, and much of its forage mass and quality come from an extended maturity. Since the plant is naturally vegetative for a longer period, biomass accumulation is excellent.

EVERLEAF 126 height is medium to tall. Under good moisture and fertility heads emerge at 48 to 52 inches. These oats respond well under irrigation and stand erect and resist lodging.

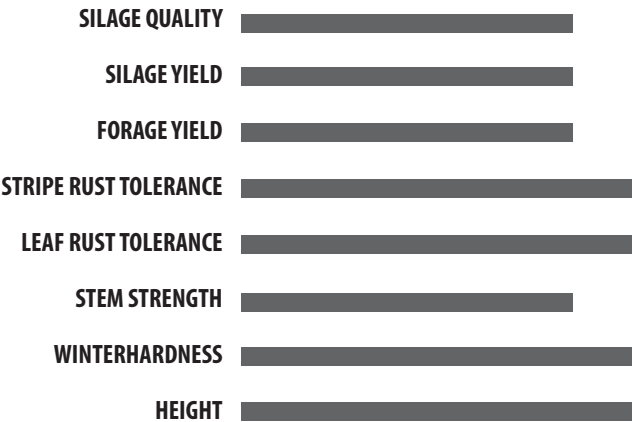
EVERLEAF 126 is highest in crude protein and in percent digestible fiber at boot stage. **EVERLEAF 126** has a compact panicle that offers an attractive product when baled.

In many production areas, rust has adapted to conventional forage oats and is a significant impediment to quality and tonnage. **EVERLEAF 126** has shown resistance to rust and most other leaf and stem diseases. Evaluation is continuing on rust resistance and tolerance.

| AGRONOMIC TRAITS | CROP USE INFORMATION |
|---|---|
| Yield potential: Excellent | Life cycle: Annual |
| Early seedling vigor: Good | Ease of establishment: Good |
| Growth habit: Upright with large leaf | Shade tolerance: Fair |
| Recovery after cutting: Fair | Drought stress: Excellent |
| Maturity: 60 days | Wet soil: Fair |
| Uniformity: Excellent | Low pH tolerance: Moderate |
| Leaf type: Coarse | Minimum pH: 6.0 |
| Standability: Excellent | Saline soils (white alkali): Fair |
| PLANTING RATES PER ACRE | Saline – sodic soils (black alkali): Fair |
| Broadcast: 70-100 lbs. irrigated, 50 lbs. dryland | Hay: Excellent |
| Average seeds per pound: 11,000 | Silage: Good |
| Bag weight: 50 lbs. | Continuous grazing: Good |
| ADAPTATION RATINGS | Rotational grazing: Good |
| Photosynthetic type: Cool season | Palatability: Excellent |
| Soil temperature: Cool (45° F) | Anti-quality concerns: Nitrogen |
| Water requirement: Moderate | |

THOR™ FACULTATIVE TRITICALE

- Key Attributes*
- Awnletted (reduced beard length).
 - Moderate plant height.
 - Good stem strength.
 - Good early seedling vigor.
 - High silage yield.
 - Can be planted in spring or fall (facultative variety).
 - Good silage quality.
 - Adapted widely throughout northern and northeast U.S.
 - Ideal variety for spring and fall forage mixes.



LAVINA BARLEY

LAVINA (M.T.981397) is a two-rowed, hooded, spring barley and is a cross between Haybet and Baronesse. Haybet (P.I.533600) was developed by USDA-ARS and the Montana Experiment Station and was released in April 1989. Haybet is a two-rowed, hooded, white kernel, spring barley developed as a forage barley and derived from the cross Betzes/Strip Tease. Baronesse is a two-rowed feed barley developed in Germany and marketed by Westbred LLC in the United States.

The cross was made in 1993 and individual F1 plants were planted and harvested in 1994; F2 populations were planted and single heads were harvested in 1995. Single seed descent in the Montana State University ABS Plant Growth Center was utilized in 1995-1996 to advance two generations and F5 head rows were planted in the spring of 1996. F6 two-row plots were planted in 1997 and selections were made based on agronomic and forage potential.

Agronomic Performance

LAVINA was tested for forage and grain performance in Montana from 2004 through 2007

AGRONOMIC TRAITS

Yield potential: Excellent
Early seedling vigor: Good
Growth habit: Upright with large leaf
Recovery after cutting: Fair
Maturity: 60 days
Uniformity: Excellent
Leaf Type: Coarse
Standability: Excellent

PLANTING RATES PER ACRE

Broadcast: 60-80 lbs. irrigated, 48-55 lbs. dryland
Average seeds per pound: 15,000
Bag weight: 50 lbs.

ADAPTATION RATINGS

Photosynthetic type: Cool season
Soil temperature: Cool (45°F)
Water requirement: Low

CROP USE INFORMATION

Life cycle: Annual
Ease of establishment: Good
Shade tolerance: Fair
Drought stress: Excellent
Wet soil: Fair
Low pH Tolerance: Moderate
Minimum pH: 6.0
Saline soils (white alkali): Good
Saline – sodic soils (black alkali): Fair
Hay: Excellent
Silage: Good
Continuous Grazing: Good
Rotational Grazing: Good
Palatability: Excellent
Anti-Quality: Nitrogen Concerns

4010 PEAS

4010 PEAS are a purple flower spring pea and can be planted in either spring or fall. Grows best in cooler climates. High-protein forage for grazing haylage/baleage, but supplement with hay or plant in a mix with oats, spring triticale, or spring barley for added effective fiber and a slower rate of passage. Alone, the feed value is comparable to alfalfa haylage. Large leaves and excellent palatability.

Cutting Management

If planted with a small grain, harvest when the grain is at boot stage for best quality. Otherwise, harvest at flowering. Pea grain can also be harvested and ground to replace protein like soybean meal.

AGRONOMIC TRAITS

Yield potential: Excellent
Early seedling vigor: Good
Growth habit: Upright with large leaf
Recovery after cutting: Fair
Maturity: 60 days
Uniformity: Excellent
Leaf type: Coarse
Standability: Excellent

PLANTING RATES PER ACRE

Broadcast: 70-100 lbs. irrigated, 25 lbs. dryland
Average seeds per pound: 3,500
Bag weight: 50 lbs.

ADAPTATION RATINGS

Photosynthetic type: Cool season
Soil temperature: Cool (45°F)
Water requirement: Moderate

CROP USE INFORMATION

Life cycle: Annual
Ease of establishment: Good
Shade tolerance: Fair
Drought stress: Good
Wet soil: Good
Low pH tolerance: Moderate
Minimum pH: 6.0
Saline soils (white alkali): Fair
Saline – sodic soils (black alkali): Fair
Hay: Excellent
Silage: Good
Continuous grazing: Fair
Rotational grazing: Fair
Palatability: Excellent
Anti-Quality: Nitrogen Concerns

CORVALLIS TEFF GRASS

Medium-late maturity
Excellent for hay/grazing
Improved disease resistance

CORVALLIS Teff Grass is a warm-season annual grass with timothy-like forage quality. Teff, or *Eragrostis tef*, is an annual grass out of the lovegrass family. Native to Ethiopia, teff is an important food grain similar to millet, except it is a much smaller seed — 1.3 million seeds per pound.

CORVALLIS Teff Grass is very palatable, easy to digest and has excellent feed value. It is endophyte free and especially desirable for horses.

It can be harvested multiple times and used as hay or silage. Teff hay can be a sought-after commodity. Compared to other warm-season grasses, **CORVALLIS** Teff Grass has the ability to produce both high tonnage (4-8 tons/acre) and high quality forage (similar to timothy) throughout the summer months.

CORVALLIS Teff Grass is medium-late maturing and has very good forage performance and summer survivability.

CORVALLIS Teff Grass performs very well in both waterlogged soils and in droughty conditions. As a species, teff is said to be disease free.

AGRONOMIC TRAITS

Yield potential: Excellent
 Early seedling vigor: Good
 Growth habit: Upright with large leaf
 Recovery after cutting: Fair
 Maturity: 60 days
 Uniformity: Excellent
 Leaf type: Coarse
 Standability: Excellent

PLANTING RATES PER ACRE

Rows: 4-6 lbs. raw, 8-10 lbs. coated
 Broadcast: 5-7 lbs. raw, 10-12 lbs. coated
 Maximum population: 100,000 plants per acre
 Average seeds per pound: 1.3 million
 Bag weight: 50 lbs.

ADAPTATION RATINGS

Photosynthetic type: Warm season
 Soil temperature: Warm (65°F)
 Water requirement: Very low

CROP USE INFORMATION

Life cycle: Annual
 Ease of establishment: Good
 Shade tolerance: Fair
 Drought stress: Excellent
 Wet soil: Fair
 Low pH tolerance: Moderate
 Minimum pH: 6.0
 Saline soils (white alkali): Fair
 Saline – sodic soils (black alkali): Fair
 Hay: Excellent
 Silage: Good
 Continuous grazing: Good
 Rotational grazing: Good
 Palatability: Excellent
 Anti-quality: Prussic acid and nitrogen concerns

EPIC ITALIAN RYEGRASS BLEND

EPIC ITALIAN RYEGRASS BLEND offers excellent quality and yield. **EPIC ITALIAN RYEGRASS BLEND** is a unique blend of diploid and tetraploid Italian ryegrass varieties. Combining tetraploid and diploid varieties maximizes the advantages each has to offer. The tetraploid provides high dry matter production, disease resistance to crown rust and improved palatability. The diploid is added for better persistence under grazing and improved traffic tolerance. In moderate climates, **EPIC ITALIAN RYEGRASS BLEND** will be a biannual forage.

The varieties used in **EPIC ITALIAN RYEGRASS BLEND** require prolonged periods of cold weather for vernalization. Once vernalized the plant has the ability to produce seed heads which result in the loss of forage quality. Inferior products that imitate **EPIC ITALIAN RYEGRASS BLEND** vernalize with much shorter periods of cold, producing seed heads soon after planting when spring nighttime temperatures drop.

High energy ration component in TMR

EPIC ITALIAN RYEGRASS BLEND is ideal as silage or green-chop for high-producing dairy cattle. This mixture produces impressive forage yields of exceptional high quality feed (6-8 tons of dry matter per acre). The forage value of **EPIC ITALIAN RYEGRASS BLEND** is higher than that of corn while maintaining similar DM yields.

AGRONOMIC TRAITS

Yield potential: Excellent
 Early seedling vigor: Good
 Growth habit: Upright with large head
 Recovery after cutting: Good
 Maturity: Medium
 Uniformity: Excellent
 Leaf type: Soft
 Standability: Excellent

PLANTING RATES PER ACRE, IRRIGATED

Planted as grazing/cutting crop: 25-30 lbs.
 Planted as a nurse crop: 15-20 lbs.
 No-till into winter-killed alfalfa: 25 lbs.
 Average seeds per pound: 230,000
 Bag weight: 50 lbs.

ADAPTATION RATINGS

Photosynthetic type: Cool season
 Soil temperature: Cool (45°F)
 Water requirement: Medium

CROP USE INFORMATION

Life cycle: Biannual
 Ease of establishment: Good
 Shade tolerance: Fair
 Drought stress: Fair
 Wet soil: Good
 Low pH tolerance: Moderate
 Minimum pH: 6.0
 Saline soils (white alkali): Fair
 Saline – sodic soils (black alkali): Fair
 Hay: Excellent
 Silage: Excellent
 Continuous grazing: Good
 Rotational grazing: Good
 Palatability: Excellent

HAY MAX FORAGE GRASS MIXTURE

65% Soft-Leaf Fescue
35% Medium Orchardgrass

HAY MAX FORAGE GRASS MIXTURE is an ideal grass seed mixture for hay production in the west. **HAY MAX FORAGE GRASS MIXTURE** is a mix of ECS's elite late-maturing, soft-leaved tall fescues and late-maturing orchardgrass.

HAY MAX FORAGE GRASS MIXTURE reaches peak production in late spring and early summer after spring rains have subsided, providing growers the opportunity to swath hay in the dry season. The soft-leaf texture of the tall fescue matches well with the leaf softness of orchardgrass, making quality grass hay bales appealing to the hay buyer. **HAY MAX FORAGE GRASS MIXTURE** provides high yields into the summer. Unlike standard tall fescue, ECS's elite soft-leaved tall fescues maintain high forage quality through the summer months, resulting in high forage quality hay at every cutting. **HAY MAX FORAGE GRASS MIXTURE** exhibits winter-hardiness as well as heat and drought tolerance.

HAY MAX FORAGE GRASS MIXTURE may be planted in spring or fall. In areas with extreme summers, fall seeding is recommended. A well-prepared, firm seedbed is ideal for seeding. Plant no deeper than ¼ inch. It can also be no-till drilled into an existing alfalfa stand.

AGRONOMIC TRAITS

Yield potential: Excellent
Early seedling vigor: Good
Growth habit: Upright with large head
Recovery after cutting: Good
Maturity: Medium boot
Uniformity: Excellent
Leaf type: Soft
Standability: Excellent

PLANTING RATES PER ACRE, DRYLAND

Rows: 25 lbs.
Mixed with alfalfa: 10-12 lbs. with 8 lbs. Alfalfa
Interplanting into existing alfalfa: 12-15 lbs.
Maximum population: 100,000 plants per acre
Average seeds per pound: 1.3 million
Bag weight: 50 lbs.

ADAPTATION RATINGS

Photosynthetic type: Cool season
Soil temperature: Cool (45°F)
Water requirement: Medium

CROP USE INFORMATION

Life cycle: Perennial
Ease of establishment: Good
Shade tolerance: Fair
Drought stress: Good
Wet soil: Fair
Low pH tolerance: Moderate
Minimum pH: 6.0
Saline soils (white alkali): Fair
Saline — sodic soils (black alkali): Fair
Hay: Good
Silage: Excellent
Continuous grazing: Good
Rotational grazing: Good

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BPG CATTLE FORAGE MIXTURE

BPG CATTLE FORAGE MIXTURE is a mixture of forage grasses and white clover, formulated for raising stocker cattle, beef cows and calves.

BPG CATTLE FORAGE MIXTURE contains endophyte-free soft-leaved tall fescues with improved palatability and digestibility, which increases intake compared to traditional tall fescues.

Orchardgrass varieties in **BPG CATTLE FORAGE MIXTURE** are late-maturing and grazing tolerant. **BPG CATTLE FORAGE MIXTURE** also contains perennial ryegrass known for rapid establishment and exceptional forage quality. Remington, the featured perennial ryegrass, combines the yield and disease resistance of a tetraploid and the density, winterhardiness, and persistence of a diploid.

BPG CATTLE FORAGE MIXTURE includes Alice — a proven, grazing tolerant, large-leaved white clover. The highly productive, high energy forage varieties in **BPG CATTLE FORAGE MIXTURE** provide the nutrients required for rapid weight gains in beef cattle. **BPG CATTLE FORAGE MIXTURE** is ideal for grazing.

AGRONOMIC TRAITS

Yield potential: Excellent
Early seedling vigor: Good
Growth habit: Upright with large head
Recovery after cutting: Good
Maturity: Medium
Uniformity: Excellent
Leaf type: Soft
Standability: Excellent

PLANTING RATES PER ACRE, IRRIGATED

Seeding rate: 25 lbs.
No-till seeding rate: 25-30 lbs.
Broadcast seeding rate: 35-40 lbs.
Average seeds per pound: 200,000
Bag weight: 50 lbs.

ADAPTATION RATINGS

Photosynthetic type: Cool season
Soil temperature: Cool (45°F)
Water requirement: Medium

CROP USE INFORMATION

Life cycle: Perennial
Ease of establishment: Good
Shade tolerance: Fair
Drought stress: Fair
Wet soil: Good
Low pH tolerance: Moderate
Minimum pH: 6.0
Saline soils (white alkali): Fair
Saline — sodic soils (black alkali): Fair
Hay: Fair
Silage: Fair
Continuous grazing: Excellent
Rotational grazing: Excellent
Palatability: Excellent

SPG MULTIPURPOSE FORAGE MIXTURE

SPG MULTIPURPOSE FORAGE MIXTURE provides a palatable, digestible forage mixture which is ideal pasture mixture for cattle, sheep, goats, llama, alpacas and horses.

SPG MULTIPURPOSE FORAGE MIXTURE is formulated with improved varieties of endophyte-free perennial ryegrass, tall fescue and orchardgrass. Perennial ryegrass establishes rapidly, performs well in a grazing situation, and is highly palatable and digestible. Improved varieties of tall fescue contribute persistence, winterhardiness and drought tolerance and are an excellent source of digestible fiber. Orchardgrass is highly palatable and digestible and provides quality feed into the summer months. **SPG MULTIPURPOSE FORAGE MIXTURE** is also suited for high-moisture cutting and hay production.

AGRONOMIC TRAITS

Yield potential: Excellent
Early seedling vigor: Good
Growth habit: Upright with large head
Recovery after cutting: Good
Maturity: Medium
Uniformity: Excellent
Leaf type: Soft
Standability: Excellent

PLANTING RATES PER ACRE, IRRIGATED

Seeding rate: 25 lbs.
No-till seeding rate: 25-30 lbs.
Broadcast seeding rate: 35-40 lbs.
Average seeds per pound: 200,000
Bag weight: 50 lbs.

ADAPTATION RATINGS

Photosynthetic type: Cool season
Soil temperature: Cool (45°F)
Water requirement: Medium

CROP USE INFORMATION

Life cycle: Perennial
Ease of establishment: Good
Shade tolerance: Fair
Drought stress: Fair
Wet soil: Good
Low pH tolerance: Moderate
Minimum pH: 6.0
Saline soils (white alkali): Fair
Saline — sodic soils (black alkali): Fair
Hay: Fair
Silage: Fair
Continuous grazing: Excellent
Rotational grazing: Excellent
Palatability: Excellent

DRYLAND PASTURE MIX

DRYLAND PASTURE MIX is a mixture of seeds that combine high quality drought tolerant varieties and high yielding seeds for pastures where abundant rainfall is not available.

Supplemental irrigation will be required. **DRYLAND PASTURE MIX** is coated with Yellow Jacket to improve germination, when available moisture is most needed by the plant. **DRYLAND PASTURE MIX** is made up with 70% early maturing species to take advantage of available moisture. **DRYLAND PASTURE MIX** is formulated for both horse and cattle pastures.

- High yields.
- High forage quality — palatable and nutritious.
- Improved winterhardiness and persistence (three years).

DRYLAND PASTURE MIX can be drilled into or broadcasted onto a prepared seed bed. It can also be directly overseeded into a grass sward.

DRYLAND PASTURE MIX is a blend of annual ryegrass, soft leaf tall fescue, orchardgrass, smooth brome and intermediate wheat grass.

AGRONOMIC TRAITS

Yield potential: Excellent
Early seedling vigor: Good
Growth habit: Upright with large leaves
Recovery after cutting: Fair
Maturity: Medium/late
Uniformity: Excellent
Leaf type: Soft/coarse
Standability: Excellent

PLANTING RATES PER ACRE, DRYLAND

Rows: 20-25 lbs.
Broadcast: 20-25 lbs.
Maximum population: 100,000 plants per acre
Average seeds per pound: 1.3 million
Bag weight: 50 lbs.

ADAPTATION RATINGS

Photosynthetic type: Cool season
Soil temperature: Cool (45°F)
Water requirement: Very low

CROP USE INFORMATION

Life cycle: Perennial
Ease of establishment: Good
Shade tolerance: Fair
Drought stress: Excellent
Wet soil: Fair
Low pH tolerance: Moderate
Minimum pH: 6.0
Saline soils (white alkali): Fair
Saline – sodic soils (black alkali): Fair
Hay: Good
Silage: Poor
Continuous grazing: Good
Rotational grazing: Good
Palatability: Excellent

HP GRAZER SORGHUM-SUDANGRASS HYBRID

HP GRAZER is a new, improved premium forage product selected for its high productivity, exceptional sweetness and improved forage quality. The leaves of **HP GRAZER** tend to be wider and longer than most conventional sorghum-sudans on the market.

The stems are fine, sweet, very juicy and highly nutritious. This combination promotes greater intake, improved digestibility and increased animal performance in beef and dairy cows. **HP GRAZER** has exceptional heat and drought stress tolerance, very fast regrowth after cutting, and improved plant health and disease tolerance for optimum forage production in a standard product.

- Small-seeded and thin-stemmed.
- Exceptional forage yield and quality.
- Very heat and drought tolerant.
- Highly nutritious juicy midrib.

AGRONOMIC TRAITS

Early seedling vigor: Excellent
Growth habit: Upright
Recovery after cutting: Excellent
Maturity: 70 days to boot
Uniformity: Excellent
Midrib type: Juicy

PLANTING RATES PER ACRE

Broadcast: 10-30 lbs. dryland, 35-80 lbs. irrigated
Hay/silage grazing: 25-40 lbs. dryland, 35-50 lbs. irrigated
Average seeds per pound: 18,000 - 21,000
Hytest net unit weight: 50 lbs.

ADAPTATION RATINGS

Photosynthetic type: Warm season
Soil temperature: Warm (60°F)
Water requirement: Very low

CROP USE INFORMATION

Life cycle: Annual
Ease of establishment: Good
Shade tolerance: Fair
Drought stress: Very Good
Wet soil: Fair
Low pH tolerance: Moderate
Minimum pH: 6.0
Saline soils (white alkali): Fair
Saline – sodic soils (black alkali): Fair
Hay: Excellent
Silage: Excellent
Continuous grazing: Good
Rotational grazing: Excellent
Palatability: Excellent
Anti-quality: Prussic acid and nitrates

HP 200 BMR

HP 95 BMR

HP 200 BMR FORAGE SORGHUM-SUDANGRASS

HP 95 BMR FORAGE SORGHUM

HP 200 BMR BRAND HYBRID SORGHUM-SUDANGRASS with exceptional palatability and the addition of a brown midrib gene has shown marked reduction of lignin content in the plant. Lignin is the component of the cell walls that is generally regarded as the primary factor limiting the extent of forage fiber digestion. This totally new hybrid has shown an 18.9% average increase in feed value compared to conventionals and offers an additional \$42.84 per acre based on feed at \$60.00 per ton. It offers a premium summer annual hybrid with the same agronomic characteristics you will find in a conventional sorghum- sudangrass hybrid such as excellent hay quality, heavy pasturing, superior drought tolerance, and a wide adaptability — plus the increased utilization and efficiency you get from the brown midrib gene.

- Significant increase in digestibility.
- Significant increase in palatability.
- Significant increase in efficiency.

HP 95 BMR FORAGE SORGHUM is a shorter, earlier version of the BMR forage sorghums. Under most conditions, it will yield with the more full-season hybrids and has improved standability. It's our choice of hybrids under dryland conditions, or where a shorter-season hybrid is desired. The increase in standability is an advantage under all conditions. BMR trait has significantly lower lignin levels for improved palatability and digestibility, increasing milk and beef production.

HP 95 BMR FORAGE SORGHUM is a highly digestible and consistent form of quality silage with a 40% greater IVTD forage quality rating over standard forage sorghum. **HP 95 BMR FORAGE SORGHUM** requires 33% less water than corn. It has the potential to equal or exceed corn silage in milk production and has a good disease package.

HP 95 BMR FORAGE SORGHUM should be planted when the soil temperature is at least 60°F, usually between April 10 and July 10. It can be no-tilled into the stubble of winter and spring crops.

The seeding rate of **HP 95 BMR FORAGE SORGHUM** is important. Follow recommended plant populations for your area. Planting depth should be approximately 1 inch.

FORAGE SORGHUM-SUDAN

FORAGE SORGHUM

AGRONOMIC TRAITS

Early seedling vigor: Good
Growth habit: Upright
Recovery after cutting: Excellent
Maturity: 55-65 days to boot
Uniformity: Fair
Plant color: Purple
Midrib type: Brown

PLANTING RATES PER ACRE

Broadcast: 10-30 lbs. dryland, 12-60 lbs. irrigated
Seeds per square foot: 5-14 dryland, 17-22 irrigated
Bushel weight: 56 lbs.
Seeds per pound: 16,000

ADAPTATION RATINGS

Photosynthetic type: Warm season
Photoperiod: Insensitive
Soil temperature: Warm (60°F)
Water requirement: Very low

CROP USE INFORMATION

Life cycle: Annual
Ease of establishment: Good
Shade tolerance: Poor to fair
Drought stress: Excellent
Wet soil: Fair
Low pH tolerance: Moderate
Minimum pH: 6.0
Saline soils (white alkali): Fair
Saline – sodic soils (black alkali): Fair
Hay: Excellent
Silage: Excellent
Continuous grazing: Good
Rotational grazing: Excellent
Palatability: Excellent
Anti-quality: Prussic acid and nitrates

AGRONOMIC TRAITS

Yield potential: Excellent
Early seedling vigor: Good
Growth habit: Upright with large head
Recovery after cutting: Fair
Maturity: Medium
Uniformity: Excellent
Leaf type: Soft
Standability: Excellent

PLANTING RATES PER ACRE

Seeding rate: 5-9 lbs. irrigated, 4-8 lbs. dryland
Average seeds per pound: 14,000
Bag weight: 50 lbs.

ADAPTATION RATINGS

Photosynthetic type: Warm season
Soil temperature: Warm (65°F)
Water requirement: Medium

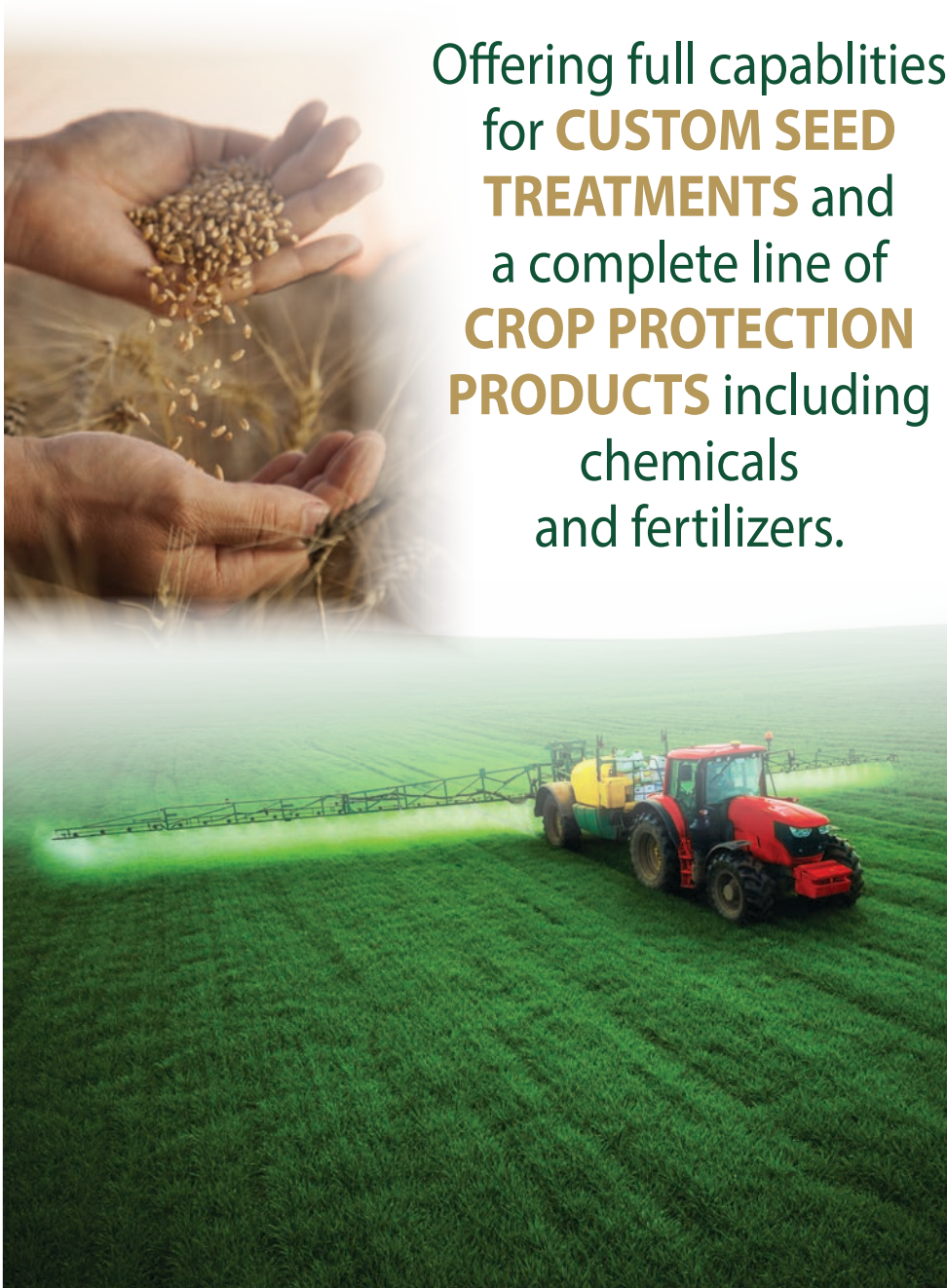
CROP USE INFORMATION

Life cycle: Annual
Ease of establishment: Good
Shade tolerance: Poor
Drought stress: Good
Wet soil: Good
Low pH tolerance: Moderate
Minimum pH: 6.0
Saline soils (white alkali): Fair
Saline – sodic soils (black alkali): Fair
Hay: Good
Silage: Excellent
Continuous grazing: Fair
Rotational grazing: Fair
Palatability: Excellent

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WE'VE GOT YOU COVERED!

Offering full capabilities
for **CUSTOM SEED
TREATMENTS** and
a complete line of
**CROP PROTECTION
PRODUCTS** including
chemicals
and fertilizers.



HP PEARL MILLET

HP PEARL MILLET

HP PEARL MILLET is a fast-growing, warm-season, annual, multi-cut, drought resistant forage grass obtaining heights of 5-7 feet tall. **HP PEARL MILLET** produces high quality forage that is safe for all livestock, including horses.

While called a millet, **HP PEARL MILLET** is not a true millet. The stems are fine, sweet, very juicy and highly nutritious. This combination promotes greater intake, improved digestibility and increased animal performance in beef and dairy cows.

HP PEARL MILLET has exceptional heat and drought stress tolerance, very fast re-growth after cutting and improved plant health and disease tolerance for optimum forage production in a standard product.

- Small-seeded and thin-stemmed.
- Exceptional forage yield and quality.
- Very heat and drought tolerant.
- Highly nutritious, juicy midrib.

DISEASE/INSECT/NEMATODE RATINGS

Anthraxnose: MR
Downy mildew: MR

AGRONOMIC TRAITS

Early seedling vigor: Excellent
Growth habit: Upright
Recovery after cutting: Excellent
Maturity: 70 days to boot
Uniformity: Excellent
Midrib type: Juicy

PLANTING RATES PER ACRE

Broadcast: 13-30 lbs. dryland, 35-80 lbs. irrigated
Hay/silage grazing: 25-40 lbs. dryland, 35-50 lbs. irrigated
Hytest net unit weight: 50 lbs.
Approximate seeds per pound: 80,000

ADAPTATION RATINGS

Photosynthetic type: Warm season
Soil temperature: Warm (60°F)
Water requirement: Very low

CROP USE INFORMATION

Life cycle: Annual
Ease of establishment: Good
Shade tolerance: Fair
Drought stress: Very good
Wet soil: Fair
Low pH Tolerance: Moderate
Minimum pH: 5.5
Saline soils (white alkali): Fair
Saline – sodic soils (black alkali): Fair
Hay: Excellent
Silage: Excellent
Continuous grazing: Good
Rotational grazing: Excellent
Palatability: Excellent
Anti-quality: Nitrates

PEARL MILLET

HUNTSMAN WHITE PROSO MILLET

GOLDEN GERMAN MILLET

HUNTSMAN is a moderately late variety, heading about one day later than Sunup. Yield performance, test weight, plant height, and straw strength have all been similar to Sunup.

HUNTSMAN has a white seed coat and large seed size similar to Dawn. It was developed by Nebraska from the cross NE79012/NE7901713/Dawn/Common.

GOLDEN GERMAN MILLET is a warm-season annual grass and a foxtail-type millet. **GOLDEN GERMAN MILLET** is a fine-stemmed, leafy variety that is commonly planted as a single-cut hay millet. **GOLDEN GERMAN MILLET** is quick maturing and works excellent in double-cropping scenarios where time becomes limiting for the second crop. It can be ready to cut for hay in as little as 60 days from planting. It produces hay that will cure easily and be highly palatable for livestock. **GOLDEN GERMAN MILLET** is very drought tolerant and will grow rapidly during hot summer conditions. It does well in light soils because of its high level of water efficiency.

- Small-seeded and thin-stemmed.
- Exceptional forage yield and quality.
- Very heat and drought tolerant.
- Highly nutritious, juicy midrib.

PROSO MILLET

DISEASE/INSECT/NEMATODE RATINGS

Anthraxnose: MR
Downy Mildew: MR

AGRONOMIC TRAITS

Early seedling vigor: Excellent
Growth habit: Upright
Maturity: 60-70 days
Uniformity: Excellent

PLANTING RATES PER ACRE

Seeding rate: 10-30 lbs. dryland, 25-35 lbs. irrigated
Hytest net unit weight: 50 lbs.
Approximate seeds per pound: 80,000

ADAPTATION RATINGS

Photosynthetic type: Warm season
Soil temperature: Warm (60°F)
Water requirement: Very low

CROP USE INFORMATION

Life cycle: Annual
Ease of establishment: Good
Shade tolerance: Fair
Drought stress: Very good
Wet soil: Fair
Low pH tolerance: Moderate
Minimum pH: 5.5
Saline soils (white alkali): Fair
Saline – sodic soils (black alkali): Fair
Hay: Excellent
Silage: Poor
Continuous grazing: Poor
Rotational grazing: Poor
Palatability: Poor
Anti-quality: NA

GERMAN MILLET

DISEASE/INSECT/NEMATODE RATINGS

Anthraxnose: MR
Downy mildew: MR

AGRONOMIC TRAITS

Early seedling vigor: Excellent
Growth habit: Upright
Recovery after cutting: Excellent
Maturity: 60 days to boot
Uniformity: Excellent
Midrib type: Juicy

PLANTING RATES PER ACRE

Broadcast seeding: 10-30 lbs. dryland, 25-35 lbs. irrigated
Hay/silage grazing: 25-35 lbs. dryland, 10-25 lbs. irrigated
Hytest net unit weight: 50 lbs.
Approximate seeds per pound: 80,000

ADAPTATION RATINGS

Photosynthetic type: Warm weason
Soil temperature: Warm (60°F)
Water requirement: Very low

CROP USE INFORMATION

Life cycle: Annual
Ease of establishment: Good
Shade tolerance: Fair
Drought stress: Very Good
Wet soil: Fair
Low pH tolerance:
Minimum pH:
Saline soils (white alkali):
Saline – sodic soils (black alkali): Fair
Hay: Excellent
Silage: Good
Continuous grazing: Good
Rotational grazing: Excellent
Palatability: Excellent
Anti-quality: Nitrates

SUNFLOWER SEEDS

HIGH OLEIC



| | COBALT 11 | N4H302 E | DAYTONA | N4H470 CLP | HORNET | N4H521 CL |
|--------------------------|-----------|-----------|-----------|------------|--------|-----------|
| Traits | CL/DMR | EX | CL | CLP/DMR | CL/DMR | CL/DMR |
| Maturity | Early | Med-Early | Med-Early | Medium | Medium | Med-Late |
| Emergence | 8 | 9 | 8 | 8 | 8 | 8 |
| Drought Tolerance | 7 | 7 | 8 | 9 | 8 | 8 |
| Uniformity at Flowering | 9 | 8 | 6 | 9 | 7 | 7 |
| Yield for Maturity | 8 | 7 | 7 | 8 | 9 | 9 |
| Test Weight | 7 | 7 | 8 | 8 | 7 | 8 |
| Dry Down | 8 | 8 | 7 | 7 | 6 | 6 |
| Oil Content | 6 | 7 | 6 | 8 | 7 | 8 |
| Late Season Plant Health | 7 | 7 | 7 | 8 | 8 | 8 |
| Stalk Rating | 8 | 7 | 8 | 8 | 7 | 7 |
| Root Rating | 8 | 6 | 6 | 8 | 6 | 6 |
| Plant Height | 5 | 6 | 5 | 7 | 7 | 7 |

SUNFLOWER SEEDS

NuSun



| | TALON (multiple market) | N4HM354 | FALCON | CAMARO II |
|--------------------------|----------------------------|-----------|-----------|-----------|
| Traits | EX | CL/DMR | EX | CL/DMR |
| Maturity | Early | Med-Early | Med-Early | Medium |
| Emergence | 7 | 8 | 7 | 7 |
| Drought Tolerance | 6 | 7 | 8 | 8 |
| Uniformity at Flowering | 8 | 8 | 8 | 8 |
| Yield for Maturity | 7 | 9 | 8 | 9 |
| Test Weight | 6 | 7 | 8 | 8 |
| Dry Down | 7 | 8 | 7 | 7 |
| Oil Content | 5 | 8 | 7 | 7 |
| Late Season Plant Health | 6 | 7 | 8 | 8 |
| Stalk Rating | 7 | 8 | 8 | 8 |
| Root Rating | 8 | 8 | 7 | 7 |
| Plant Height | 5 | 6 | 6 | 6 |

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