



Spring 2021 – FORAGE Product Guide

by Thomas Ag Services, LLC.

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Introduction:

- ☐ AgWest Services is a wholesale seed company
- ☐ Production areas:
 - ✓ Willamette Valley Oregon
 - Cool Season Grasses
 - Small Grains
 - ✓ High deserts of Utah
 - Rangeland Grasses
 - Alfalfa
 - Small Grains
 - Other Feed Commodities Products
- ☐ Two Production areas give greater flexibility against competing crops and world markets
- ☐ Our Utah seed production is under pivot irrigation
- ☐ Excellent Grower relationships in Utah and Oregon



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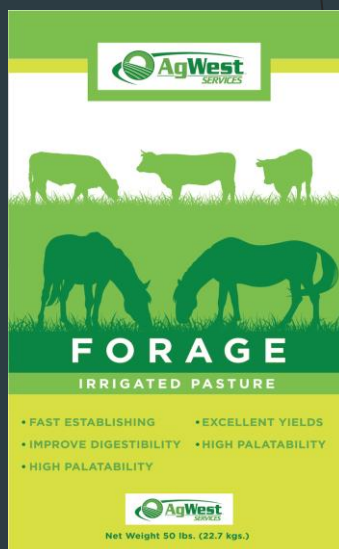
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Packaging



Bag Size: 2,000 LBS, Totes



Bag Size: 50 LBS

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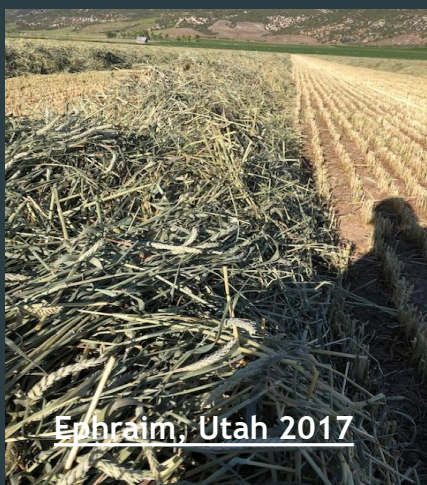
Merlin Max Triticale

Merlin Max triticale is a true awnless, high performing facultative triticale. This product can be spring planted across the northern US or fall planted in regions with snow cover.

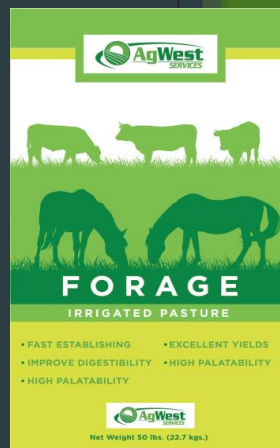


❑ Benefits

- ✓ Facultative: Fall and Spring Planting
- ✓ Excellent Hay Quality
- ✓ 5-8 ton Day Matter
- ✓ Mild Winter Hardiness (Snow cover)
- ✓ Awnless
- ✓ No lodging
- ✓ Disease resistant



Ephraim, Utah 2017



<u>Vernon TX 2020 / Variety</u>	<u>Species</u>	<u>t/ac @ 35%DM</u>
TriCal Merlin Max	Triticale	9.65
TriCal Surge	Triticale	9.37
Slick Trit II	Triticale	7.79
Fridge	Triticale	7.68

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TriCal 131 Triticale

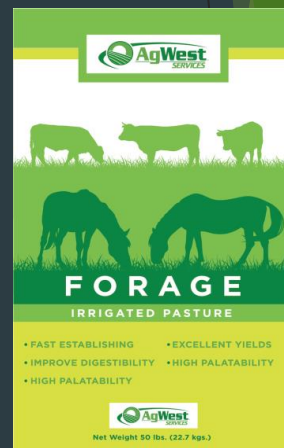
TriCal 131 is a completely awnless winter triticale. Excellent option in grazing or silage systems. Very good regrowth in grazing system as well as good against disease and drought stress. Vigorous fall growth. Good hay option as well



Snowville UT 2017

Benefits

- ✓ Awnless (beardless)
- ✓ Rust tolerant
- ✓ Tolerant of wheat streak mosaic virus
- ✓ Good straw strength
- ✓ Medium maturity
- ✓ Upright fall growth habit
- ✓ Vigorous fall growth
- ✓ Adapted to Texas off the Caprock and to Southern Great Plains



Winter forage trial / 2020 Vernon, TX

Variety	Species	t/ac @ 35%DM
SY TF 131	Triticale	9.38
TriCal Surge	Triticale	9.37
TAM 114	Wheat	8.72
TriCal 718	Triticale	8.66
Slick Trit II	Triticale	7.79
Fridge	Triticale	7.68

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Small Grain Mixtures

❑ Forage Small Grain Mixtures

- ✓ Fall or Spring planting
- ✓ Awnless
- ✓ Excellent for Hay or Silage
- ✓ Excellent Tonnage
- ✓ Increased NDFd
- ✓ Highly palatable
- ✓ Rust tolerant
- ✓ Good straw strength
- ✓ Adapted for various climates/
increase harvest window



❑ AWS – Standard Mixtures Available

- ✓ AWS Premium 3 Way Forage Mixture
- ✓ AWS Dairy Forage Mixture
- ✓ AWS Dark Premium Forage Mixture
- ✓ AWS 3 Grain Forage w/ARG
- ✓ AWS 3 Grain Forage w/Peas

- ❑ Custom Mixtures are available upon request – please ask

For improved digestibility add AWS Forage Peas or AWS Annual Ryegrass to your small grain forage mixture

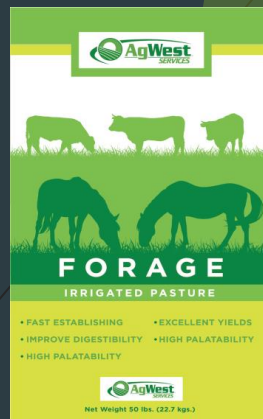


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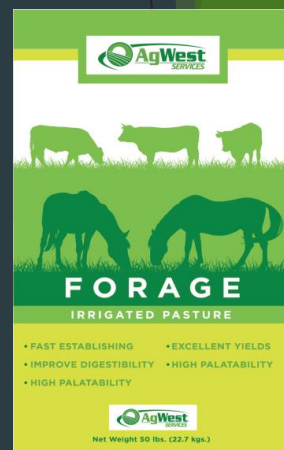
Everleaf 256

Everleaf 256 Oats is a high value variety matched with tonnage. The unique growth habit of the Everleaf varieties with delayed heading and dark broad leaves put them into a class of their own. Everleaf 256 are high output for both tonnage and quality when fertility and moisture inputs are properly maintained.



❑ Everleaf 256 Forage Oat

- ✓ Delayed heading for more biomass and quality
- ✓ Resistance to rust and stem disease
- ✓ Adaptable to many soils
- ✓ Consistent Top Performing Oat
- ✓ Excellent leaf to stem ratio
- ✓ Blends extremely well with peas



<u>Quality Data - Othello WA</u>										4 Year Mean (Where all Present)
Variety	2020 in (%)	2019 in (%)	2018 in (%)	2017 in (%)	2016 in (%)	2015 in (%)	2014 in (%)	2012 in (%)	8 Year Mean	
Everleaf 256		13.99		10.49	10.88	12.64	12.44	10.39	11.81	12.37
Monida	15.00	10.44	10.98	8.89	10.80	12.56	8.19	8.67	10.69	9.97

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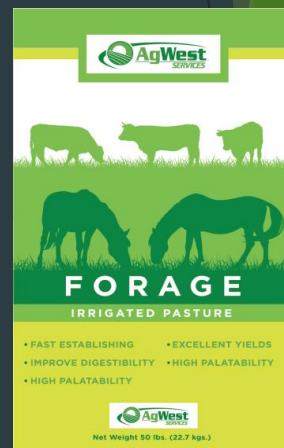
Proleaf 234 Oat

Proleaf 234 Forage Oat has developed as a very good traditional oat for milk/soft dough harvest in the Pacific Northwest, Intermountain, California and North East region of the U.S. Proleaf 234 wide leaf and denser growth are what have placed it in the top of trials for production.



□ Benefits

- ✓ Spring Planting for most areas
- ✓ Enhanced Forage (Larger Leaf)
- ✓ Excellent Hay Quality
- ✓ 5-8 ton Dry Matter
- ✓ Crown Rust Resistant
- ✓ Handles lagoon water
- ✓ Stands well



Yield Data - Othello WA										4 Year Mean (Where all Present)
Variety	2020 Yield Dry	2019 Yield Dry	2018 Yield Dry	2017 Yield Dry	2016 Yield Dry	2015 Yield Dry	2014 Yield Dry	2012 Yield Dry	8 Year Mean	
	tons/a	tons/a	tons/a	tons/a	tons/a	tons/a	tons/a	tons/a	tons/a	
Monida	7.71	5.97	5.67	7.12	8.49	6.13	6.51	11.18	7.35	7.45
ProLeaf 234	6.79	8.01	6.10	8.01	7.43	6.84	6.96	10.13	7.53	7.99

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Ryegrass

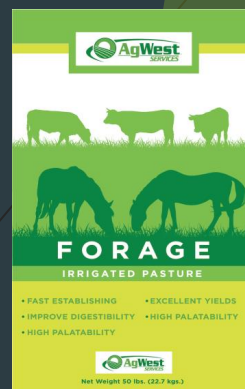
❑ Ration Annual Ryegrass

- ✓ Fast establishing
- ✓ Excellent digestibility for rumen efficiency
- ✓ High Energy
- ✓ Excellent Quality - Increases NDFd
- ✓ High drymatter feed production
- ✓ Multi-cutting
- ✓ Responds well to lagoon water
- ✓ Disease resistant
- ✓ Silage or grazing
- ✓ Deep roots and often used in a dairy's nutrient management plan



❑ AWS I-600, Italian Ryegrass

- ✓ Does not come to head the first year when spring planted.
- ✓ High energy compared to other Italian ryegrasses
- ✓ Deep roots and often used in a dairy's nutrient management plan
- ✓ Excellent Quality Feed – Increases NDFd
- ✓ Excellent palatability
- ✓ Responds well to lagoon water
- ✓ Disease resistant
- ✓ Silage or grazing
- ✓ Boot stage cutting is recommended for best quality



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Cattle Prime

AWS Cattle Prime Forage Pasture Grass Seed Mixture. Formulated with grasses and clovers to achieve the optimal nutrition goals for all ranges of beef cattle. *AWS Cattlemen's Forage Mixture* is soft leaved, endophyte free, improves rumen efficiency and palatability. All of this is to achieve faster weight gains and healthy animals.

Each variety in the *AWS Cattlemen's Forage Mixture* is selected with specific purpose in mind to create a forage mixture that can achieve fast establishment, winterhardiness, good persistence, and increase dry-matter intake for cattle.

Soil & Moisture - Adaptable to a wide range of soil types and conditions. For maximum yield and quality results we recommend irrigation and a good fertility plan with your trusted agronomist.

Goals to achieve:

- ✓ Rumen Efficiency
- ✓ Increase Drymatter intake
- ✓ Healthy Cattle
- ✓ Fast Establishing
- ✓ Good persistence
- ✓ Winterhardiness
- ✓ Medium-Late Maturing (Maintains quality)

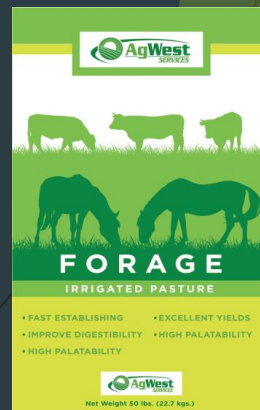


Seed Products:

- Cache Meadow Brome
- Forage Tall Fescue
- Icon Orchardgrass
- Tet. Annual Ryegrass
- Grazing Alfalfa

Seeding Rate:

- Drilling / 30-35 lbs per acre
- Broad cast /40-45 per acre
- Inter seeding / 20 lbs per acre



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Dairy Prime

AWS Dairy Forage Pasture Grass Seed Mixture.

Formulated with grasses and clovers to achieve the optimal nutrition goals for all ranges of lactating dairy cattle. *AWS Dairy Forage Mixture* is soft leaved, endophyte free, excellent palatability and improves rumen efficiency with good fiber ingestion and digestibility. All of this is to achieve healthy milk cows.

Each variety in the *AWS Dairy Forage Mixture* is selected with specific purpose in mind to create a forage mixture that can achieve fast establishment, winterhardiness, good persistence, and increase drymatter intake, high levels of energy and protein for dairy cattle.

Soil & Moisture - Adaptable to a wide range of soil types and conditions. For maximum yield and quality results we recommend irrigation and a good fertility plan with your trusted agronomist.

Goals to achieve:

- | | |
|---|--|
| ✓ High rumen efficiency with good ingestion and digestibility | ✓ Excellent palatability |
| ✓ Increase Drymatter intake | ✓ Fast Establishing |
| ✓ Healthy Cattle | ✓ Good persistence |
| ✓ Increase energy and protein | ✓ Winterhardiness |
| | ✓ Grazing or Multi-cutting (hay or silage) |
| | ✓ Medium-Late Maturing (maintains quality) |

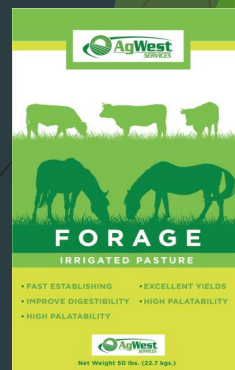


Seed Products:

- Icon Orchardgrass
- AWS Meadow Fescue
- Tet. Perennial Ryegrass
- Cache Meadow Brome
- Birdsfoot Trefoil

Seeding Rate:

- Drilling / 30-35 lbs per acre
- Broad cast /40-45 per acre
- Inter seeding / 20 lbs per acre



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Horse Prime

AWS Horse Forage Pasture Grass Seed Mixture.

Formulated with grasses to achieve the optimal source of digestible fiber for horses. *AWS Horse Forage Mixture* is soft leaved, endophyte free, with excellent palatability. All of this is to achieve healthy animals.

Our high performing varieties of orchardgrass, timothy, meadow fescue and perennial ryegrass in the *AWS Horse Forage Mixture* is selected with specific purpose in mind to create a forage mixture that can achieve fast establishment, excellent persistence, grazing and traffic tolerance for horses and good winterhardiness.

Soil & Moisture - Adaptable to a wide range of soil types and conditions. For maximum yield and quality results we recommend irrigation and a good fertility plan with your trusted agronomist.

Goals to achieve:

- ✓ Optimal fiber digestibility
- ✓ Healthy horses
- ✓ Fast Establishing
- ✓ Good persistence & tillering
- ✓ Excellent grazing and traffic tolerance
- ✓ Medium-Late Maturing (Maintains Quality)
- ✓ 5-7 ton drymatter
- ✓ Rotational grazing with rest periods for plant recovery



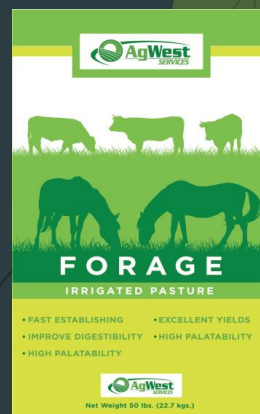
Also for Export Quality HAY

Seed Products...

- KY Early Timothy
- Icon Orchardgrass
- Cache Meadow Brome
- AWS Meadow Fescue
- Tet. Perennial Ryegrass

Seeding Rate:

- Drilling / 25-30 lbs per acre
- Broad cast /35-40 per acre
- Inter seeding / 18 lbs per acre



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Rangeland Prime

AWS Rangeland Grass Seed Mixtures.

Formulated with rangeland grasses & legumes to achieve good forage grazing, site-stabilization and site-restoration requirements. *AWS Rangeland Mixture* is well suited to provide good survivability in the high desert in the intermountain areas; especially areas with very low precipitation. Multiple mixture options are available based on the precipitation requirements for the specific geographic area.

Soil & Moisture - In many areas of the intermountain region soils are traditionally alkaline with extreme high pH and very little moisture. Often the main source of precipitation comes from snowmelt. Snowmelt is stored in the soil for plants to utilize through the dry season. Rainfall is a critical part of rangeland productivity however rain can be sporadic and difficult to predict a consistent amount of rainfall each season.

Goals to achieve:

- ✓ Site Restoration
- ✓ Handles Minimal Precipitation
- ✓ Good Forage Grazing
- ✓ Palatable
- ✓ Winter Hardy
- ✓ Traffic Tolerant
- ✓ Mixtures are based on precipitation available
- ✓ Site Stabilization

Limited Irrigation

- Paiute Orchardgrass
- AWS Tall Fescue
- Meadow Brome
- Rush Intermediate Wheatgrass

11-15 Inches of Moisture

- Rush Intermediate Wheatgrass
- Highcrest Crested Wheatgrass
- AWS Tall Fescue
- Meadow Brome

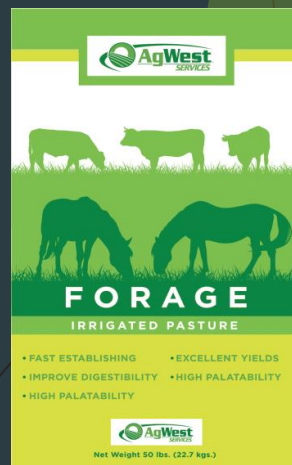
6-10 Inches of Moisture

- Valvolov Siberian Wheatgrass
- Highcrest Crested Wheatgrass
- Dryland Alfalfa



Seeding Rate:

- Drilling / 25-30 lbs per acre
- Broad cast / 35-40 per acre
- Inter seeding / 18 lbs per acre



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