

| VARIETY | BW | FW | VW | ANTHR RACE 1 | PHY | ARR | DRI | FALL DORM | WSI RATING | RECOVERY | ROOT TYPE | YIELD | QUALITY |
|------------|----|----|----|--------------|-----|-------------------------|-------|-----------|------------|-----------|------------|-------|---------|
| MGF424EQ | HR | HR | HR | HR | HR | Race 1-HR Race 2- R | 34/35 | 4.2 | 1.8 | Very Fast | Tap | 9.9 | 9.5 |
| MGF404LH | HR | HR | HR | HR | HR | Race 1-R | 30/30 | 4.0 | 2.2 | Average | Tap | 10 | 9.5 |
| RR 431 LH* | HR | HR | HR | HR | HR | Race 1-HR | 30/30 | 4.0 | 2.0 | Very Fast | Tap | 8.0 | 9.0 |
| MGF421BR | HR | HR | HR | HR | HR | Race 1-HR Race 2- HR | 33/40 | 4.2 | 1.8 | Ave- Fast | Branch | 9.9 | 8.0 |
| MGF481 QC | HR | HR | HR | HR | HR | Race 1-HR Race 2- MR | 33/35 | 4.8 | 1.0 | Very Fast | Tap | 9.5 | 8.2 |
| MGF419HY | HR | HR | HR | HR | HR | Race 1-HR | 35/35 | 4.3 | 1.7 | Fast | Tap | 10.0 | 9.5 |
| MGF405SC | HR | HR | HR | HR | HR | Race 1-R | 35/35 | 4.0 | 1.6 | Very Fast | Tap/Sunken | 8.0 | 7.9 |
| VNS | R | MR | S | S | S | Race 1-S | 20/30 | 2.9 | 2.2 | Average | Tap | 6.0 | 6.5 |
| Vernal | R | MR | S | S | S | Race 1-S | 11/30 | 2.0 | 2.2 | Average | Tap | 6.0 | 6.5 |

* Tech agreement required

Winter Survival Index (WSI) Value used for rating ability of a variety to overwinter. 1=Best, 4=Worse

Fall Dormancy (FD) Value used to measure growth after last cutting before dormancy. Lower is dormant earlier than high number. Scale of 1-10.

Disease Rating Index (DRI) Value used to rate tolerance to pests and diseases. Maximum score is either 30 or 35 (newer varieties have a 35 point scale).

Leaf Hopper (LH) Varieties with LH have improved tolerance to potato leaf hoppers. this typically means that they have an increased amount of leaf hair.

Highly Digestible (HD) Signifies that these products have significantly lower than normal amounts of lignin to improve digestibility.

Aphanomyces (AP) Used to describe any resistances to Aphanomyces root rot. There are multiple races. Race 1 & 2 are the most common.



2024 ALFALFA GUIDE

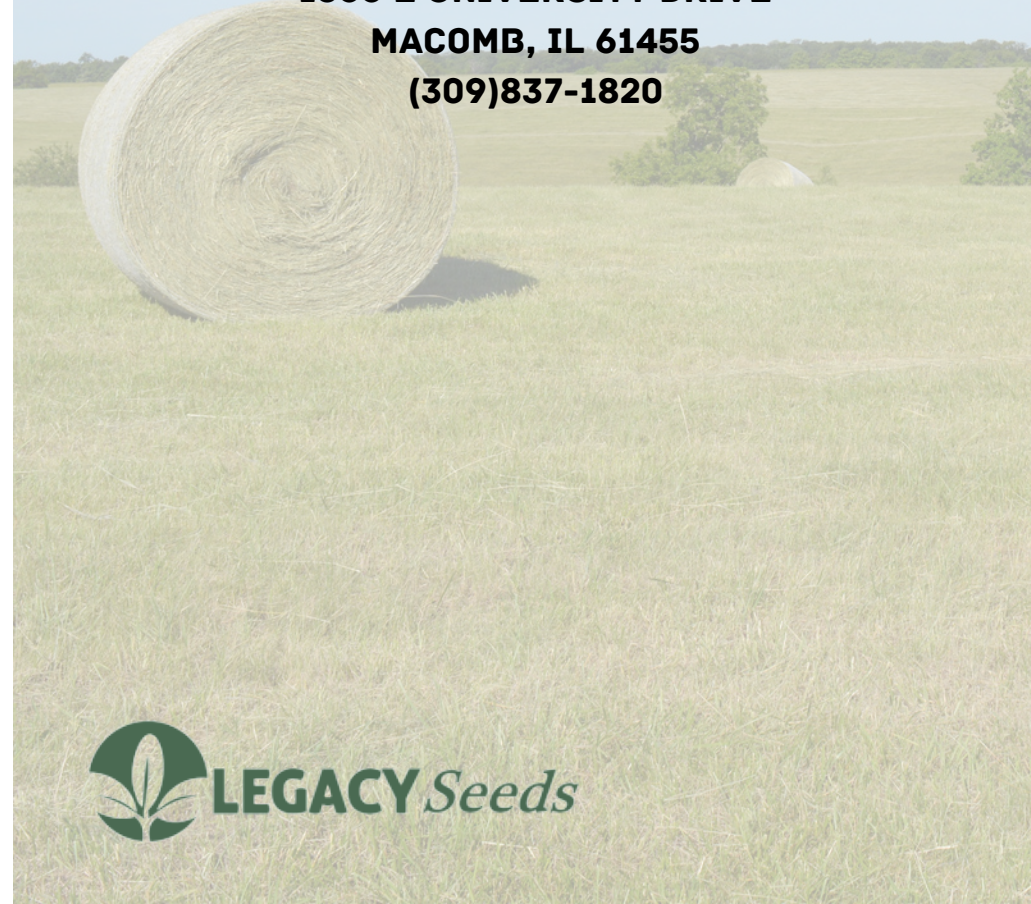


MIDWEST GRASS & FORAGE

1300 E UNIVERSITY DRIVE

MACOMB, IL 61455

(309)837-1820



ALFALFA BEST PRACTICES

SEEDING:

Plant into a firm seed bed 1/4"-1/2" deep from April 1- May 15 or August 15- September 15.

RATE:

Use 22-25#/acre, or 15-18# in a mix.

FERTILITY:

Optimum pH is 6.7-6.9. Maintain P&K levels, consider micros, especially sulfur and boron.

COMPANIONS:

Consider adding Frosty Clover to a new stand for more first year tonnage.

MIXES:

When choosing companion grass, choose varieties with maturities that will match alfalfa. We offer both timothy and orchardgrass with maturities to compliment alfalfa.

AUTOTOXICITY:

Allow appropriate time from last stand of alfalfa before reseeding! This time is typically 6-12 months depending on field history. Fields with higher residue will have more autotoxicity. Other factors will include soil type, age of stand, and more.

REPLANT POLICY

Tier 1 - 50% off retail price. MUST BE NOTIFIED WITHIN 60 DAYS OF ESTABLISHMENT THAT THERE IS AN ISSUE.

Tier 2 & Tier 3 - No Replant Coverage

TIER ONE ALFALFA PRODUCTS

Premium Products with Replant*

MGF 424EQ

This product is a versatile work horse offering flexibility and is suited for aggressive and more relaxed management systems. 424EQ offers a harvest window of 28-35 days of high quality. It has a great agronomic package with high yield potential.

| | | | |
|-----------------|--------------|-------------|------------|
| DRI: | 34/35 | FD: | 4.2 |
| Yield : | 9.9 | WSI: | 1.8 |
| Quality: | 9.5 | | |

MGF 404LH

This product offers improved resistance to potato leaf hoppers. It is a great choice for producers who do not want to spray for leaf hoppers or who are an organic or transitional situation (inquire about OMRI approved coatings).

| | | | |
|-----------------|--------------|-------------|------------|
| DRI: | 30/30 | FD: | 4.0 |
| Yield : | 9.0 | WSI: | 2.2 |
| Quality: | 8.7 | | |



RR 431 LH

This product offers the ability to use RoundUp® Products to control problematic weeds. It also has LH resistance. MUST SIGN A TECH AGREEMENT.

| | | | |
|-----------------|--------------|-------------|------------|
| DRI: | 30/30 | FD: | 4.0 |
| Yield : | 8.0 | WSI: | 2.0 |
| Quality: | 9.0 | | |

TIER TWO ALFALFA PRODUCTS

Premium Products, NO Replant*

MGF 421BR

This product has a branch root structure, allowing it to be more tolerant of wetter soils than tap-rooted alfalfa. This is a great option for clay hillsides, or bottom ground. This product has good agronomics and excellent yield potential.

| | | | |
|-----------------|--------------|-------------|------------|
| DRI: | 39/40 | FD: | 4.2 |
| Yield : | 9.8 | WSI: | 1.8 |
| Quality: | 9.0 | | |

MGF 419HY

Exceptional quality and yield combined! Excellent disease tolerance and resistance to AP Race 1. This product is suited for a 4-cut system, with good recovery.

| | | | |
|-----------------|--------------|-------------|------------|
| DRI: | 35/35 | FD: | 4.3 |
| Yield : | 10.0 | WSI: | 1.7 |
| Quality: | 9.5 | | |

MGF 481 QC

This is a premium product for intensive systems. It is suited for a 26-28 day cut schedule to allow 4-5 cuttings per year. Works well for baleage or cutting systems where hay is off the field within 72 hours due to rapid regrowth.

| | | | |
|-----------------|--------------|-------------|------------|
| DRI: | 33/35 | FD: | 4.8 |
| Yield : | 9.5 | WSI: | 1.0 |
| Quality: | 9.2 | | |

MGF 405 SC

This sunken crown product is more traffic tolerant, as the growing point remains below the soil surface. This makes it a great option for a field that will be grazed or has high traffic.

| | | | |
|-----------------|--------------|-------------|------------|
| DRI: | 35/35 | FD: | 4.0 |
| Yield : | 9.0 | WSI: | 1.6 |
| Quality: | 8.9 | | |

TIER THREE ALFALFA PRODUCTS

Value Priced Products, NO replant*

VNS (VARIETY NOT STATED)

This product is a single or multi variety blend of alfalfa at an economical price. It has improved disease tolerance over vernal but is more for a short term stand than for serious producers.

| | | | |
|-----------------|--------------|-------------|------------|
| DRI: | 24/30 | FD: | 2.9 |
| Yield : | 8.0 | WSI: | 2.2 |
| Quality: | 6.5 | | |



VERNAL

Vernal is an older, unimproved variety. It was discovered in the 1940's and has not been improved. It is an economical option for those wanting a small percent of alfalfa in a mix, or a short-lived alfalfa stand.

| | | | |
|-----------------|--------------|-------------|------------|
| DRI: | 16/30 | FD: | 2.0 |
| Yield : | 6.0 | WSI: | 2.2 |
| Quality: | 6.5 | | |

