

ALFALFA



GROWER'S GUIDE to Alfalfa Seed



www.ArrowSeed.com



Why buy alfalfa from Arrow Seed?

Experience. Seventy years in the alfalfa business makes a difference. We've seen the genetic advancements—from Ranger in 1940 and Wrangler in 1984 to the Genuity® Roundup Ready® and low-lignin varieties of today. Our experience helps us find the genetics that offer alfalfa growers a true value. Arrow Seed isn't just looking for a new way to present something, we look for genetics that truly raise the bar. Those genetics can offer top yields like Journey 372HY, disease resistance like AmeriStand 428TQ, or increased forage quality like L-457HD+.

The right seed, properly matched to your management practices and growing conditions, pays for itself, often with the first cutting. After that, better persistence, healthier plants and consistent high yields put more money in your pocket over the life of the stand—as much as \$100 or more per acre per year.

Quality seed pays. Period.

“We have always tried to plant quality seed in our alfalfa program. I have really liked the yield increases from the hybrid alfalfa and also really like the benefits of Roundup Ready hay. It really keeps our dairy customers happy when they see clean hay with no weeds. I’ve bought exclusively from Arrow for over 15 years because of the quality that they provide.”

—Kyle Lechtenberg, North View Family Farms



Better Seed - Better Returns

Quality Genetics Pay!

L-457HD+ Alfalfa

- Seed cost: \$6.00/lb
\$120/acre at 20 lb/acre
\$30/acre/year seed cost over four years
- Yield: 9.03 tons/acre/year
- **Return:** \$1,580/acre/year (\$175/ton)

Vernal Alfalfa Seed

- Seed cost: \$4.20/lb
\$84/Acre at 20lb/acre
\$21/acre/year seed cost over four years
- Yield: 7.79 tons/acre/year
- **Return:** \$1363/acre/year (\$175/ton)



Your Bottom Line

In this example there is a \$217/acre/year advantage using quality genetics from Arrow Seed. That's \$868 per acre over 4 year or nearly \$90,000 extra profit for every 100 acres! All this for an additional investment of \$9.00 per acre per year.

Alfalfa Variety Quick Reference

VARIETY	CHARACTERISTICS
AmeriStand 457TQ	RR, Great quality, yield & persistence
Ameristand 481	HVXRR, Flexible harvest schedule
L-442RR	RR, Improved yield & forage quality
AmeriStand 318TQ	Tough, long rotation
AmeriStand 428TQ	Traffic tolerant, high quality
Arapaho II	Salt and high pH soil tolerant
Journey 372HY	Top yield, quality
L457HD+	Best Dairy Quality & Yield
HopperNot Max	Leafhopper Resistant

AmeriStand 457TQ RR Alfalfa

This second-generation Genuity® Roundup Ready® alfalfa from the America's Alfalfa® Traffic Tested® program is a high-yielding, good-quality variety yielding 4 to 5 cuttings of weed-free alfalfa hay. Excellent disease package.



Fall dormancy 4.2, winter hardiness 1.8

- Excellent forage quality for optimal animal performance
- Perfect disease resistance score of 35/35 DRI with HR for both races 1 and 2 of Aphanomyces
- Very fast recovery for frequent harvest schedules under intensive management
- Traffic tested large deep-set crowns
- Roundup Ready Tolerance

Use for high-yielding, good-quality, weed-free alfalfa.



AmeriStand 48IHVXRR Alfalfa

ULTRA//CUT™
Alfalfa Disease Package

A technology powerhouse featuring the UltraCut™ alfalfa disease package with a DRI of 39/40 which includes high resistance to Aphanomyces Root Rot Race 1, 2 and evolving strains and includes multi-race resistance to Athracnose.

HarvXtra® Alfalfa gives growers the ability to better manage the yield-versus-quality trade off.

Fall dormancy 4.0, winter hardiness 1.9

- Increased harvest timing flexibility
- Potential for fewer harvests, higher forage yield and improved persistence

Double-stack RR and low lignin trait winner!



L-442RR Alfalfa

L-442RR is a high forage yielding, excellent quality, Roundup Ready® alfalfa. It has a solid pest resistance package to protect in a wide range of growing conditions. The Roundup Ready technology provides a wide range of weed control options to deliver weed free forage.

Fall dormancy 4.4, winter hardiness 1.3

- Roundup Ready® technology
- Exceptionally high forage yield and quality potential
- High Resistance to Aphanomyces Root Rot Race 2
- Excellent in a 3 to 4 plus cut per year system

A great value with current RR alfalfa genetics!



L-457HD+ Alfalfa

This “Highly Digestible” variety has a unique broad root for use in variable soil conditions. Fast regrowth is best in 4 or 5 cut management system. L-457HD+ has an excellent agronomic package that provides a very persistent and healthy plant for top production.

Fall dormancy 4.3, winter hardiness 1.8

- Highest yielding HD variety
- Maintains outstanding forage quality even in delayed harvest
- Outstanding protein/acre capabilities

More milk per acre! More beef to market!





AmeriStand 428TQ Alfalfa

ULTRA//CUT™
Alfalfa Disease Package

Expect top yields with superior forage quality potential from this Traffic Tested® variety with up-to-date Ultra/Cut™ disease resistance.

Fall dormancy 4.4, winter hardiness 1.3

- Contains high quality feed values for dairy and cash hay producers
- Delivers fast recovery in an FD4 package
- Great standability for intensive management systems

Ultra/Cut™ alfalfa disease package ups the ante on yield and persistence.



Journey 372HY Brand Alfalfa

A second-generation hybrid characterized by its aggressive growth of thick, leafy stands and fine stems. Journey 372HY is the next generation of alfalfa to offer consistent, maximum yields. Journey 372HY ranks in the top-yield group trial after trial, recently topping the 2015 Nebraska variety test.

Fall dormancy 4, winter hardiness 1.8

- Exceptional yield potential
- Fast regrowth of dense, fine-stem forage
- Top forage quality visible in dense, attractive bale
- Dense, uniform stands out compete weeds
- Fine stems allow faster drydown
- Excellent disease resistance for broad adaptability

Best suited for producers seeking to maximize yield!

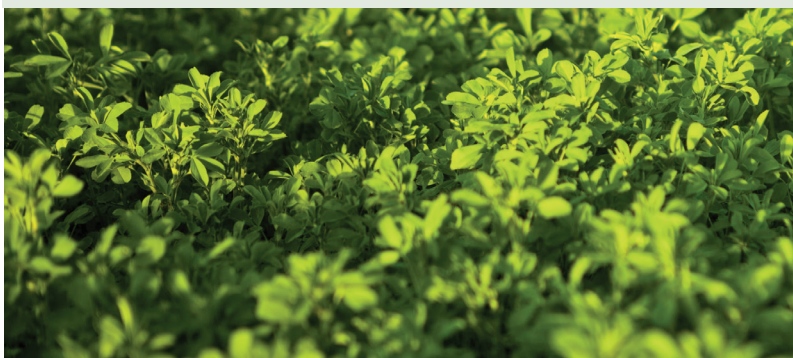
Arapaho II Alfalfa

Designed for poorly drained soils, Arapaho II is a branch-rooted alfalfa that offers high forage yield potential. The branch-rooted trait keeps more of the roots above the water table, solidly anchoring the plant in freeze/thaw cycles. Arapaho II has shown a high tolerance to saline soils and soil pH approaching 8.4.

Fall dormancy 3.8, winter hardiness 1.8

- Highly salt tolerant
- Branch-root trait adjusts as moisture levels intensify
- 30/30 DRI as well as Aphanomyces Race 2 resistance for stable, long-term performance
- Solid genetics push persistence in tough conditions

Use where water tables are high. Performs well in normal, well-drained soils as well!



Hoppertot Max Alfalfa

The best variety for those where potato leaf hopper pressure is greatest. It is a very good forage quality alfalfa that is excellent for well drained soils and has a disease index rating of 30/30.

Fall dormancy 4, winter hardiness 1.9

- A must plant for growers that have leafhopper pressure and do not scout or spray
- One of the highest Potato Leafhopper resistant brands on the market
- Built -in leafhopper protection with glandular hairs

Use where potato leafhopper pressure is greatest.



AmeriStand 318TQ Alfalfa

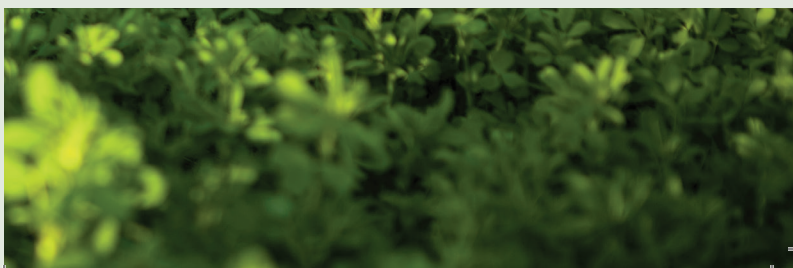
This Traffic Tested®, high yielding, good quality variety will yield 3+ cuttings of great alfalfa hay on less intensively managed fields and long rotations. AmeriStand 318TQ also has large deep-seated crowns, fine stems, abundant leaf mass, and large energy storing roots promoting higher yields.



Fall dormancy 3.5, winter hardiness 1.0

- Dependable variety for less intensively managed fields
- Latest generation of products that combine excellent winter-hardiness, fast recovery after cutting, and improved forage yield potential
- Excellent quality potential as compared to commercial checks

Latest generation for enhanced yield, traffic tolerance, and stand persistence.



ARROW SEED ALFALFA

Variety	JOURNEY			AS428TQ	AS457TRR
	372 HYBRID	L-457HD+	AS318TQ	UltraCut™	Roundup Ready
Bacterial Wilt	HR	HR	HR	HR	HR
Fusarium Wilt	HR	HR	HR	HR	HR
Verticillium Wilt	HR	HR	HR	HR	HR
Anthracnose	HR	HR	HR	HR	HR
Phytophthora Root Rot	HR	HR	HR	HR	HR
Aphanomyces	R	HR	HR	HR	HR
Pea Aphid	NA	R	HR	R	HR
Spotted Aphid	NA	R	R	R	R
Stem Nematode	R	MR	R	HR	NA
Northern Root Knot Nematode	HR	NA	NA	NA	NA
Total DRI	29/30	34/35	30/30	40/40	35/35
Recovery After Harvest	Very Fast	Fast	Medium	Fast	Very Fast
Fall Dormancy	4.0	4.3	3.1	4.4	4.2
Winter survival	1.8	1.8	1.0	1.3	1.8
Persistence	Excellent	Excellent	Excellent	Very Good	Excellent
Forage Quality	Excellent	Excellent	Excellent	Excellent	Excellent
Potential Yield	Excellent	Excellent	Very Good	Very Good	Excellent

*Variety with branched root trait designed for poorly drained soil.
Fall Dormancy Ratings: 1=Most Dormant, 9=Least Dormant.
This is an indicator of relative maturity.

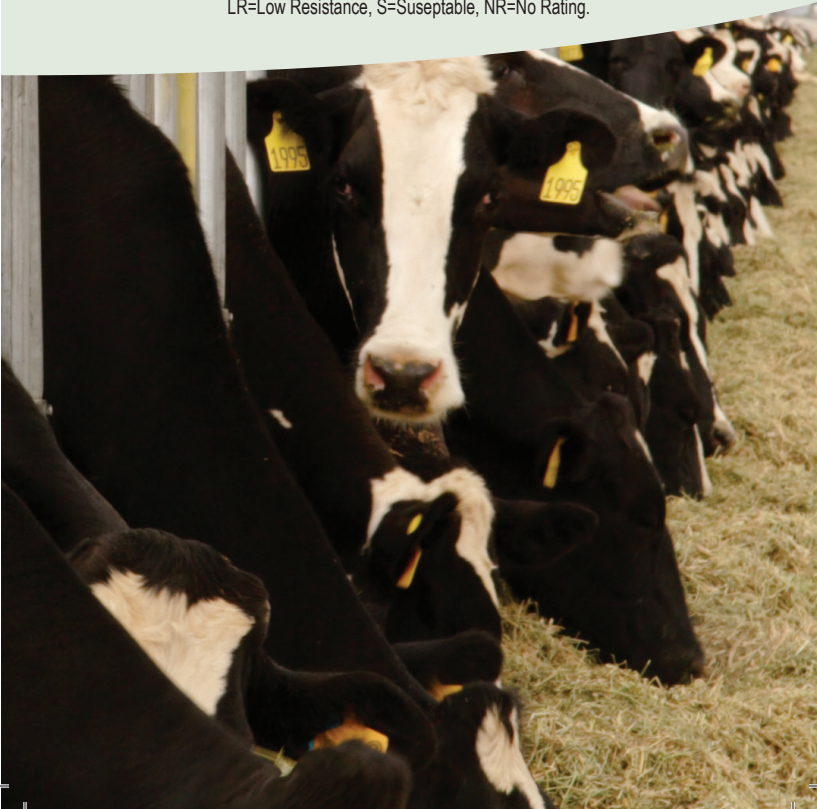


COMPARISON CHART

AS481HVXRR HarvXtra Ultra/Cut™	L-442RR Roundup Ready	HOPPERNOT MAX	ARAPAHO II	BIG RED 3	BIG RED 4
HR	HR	HR	HR	HR	HR
HR	HR	HR	HR	HR	HR
HR	HR	R	HR	R	R
HR	HR	HR	R	HR	HR
HR	HR	HR	HR	HR	HR
HR	HR	HR	R	HR	HR
R	R	HR	NR	R	R
R	R	HR	NR	R	MR
R	R	MR	R	MR	R
NA	NA	NA	HR	NR	NR
39/40	35/35	29/30	28/30	29/30	29/30
Medium Fast	Medium Fast	Medium Fast	Medium	Medium	Fast
4.0	4.4	4.0	3.8	3.0	4.0
1.9	1.3	1.9	1.8	2.0	2.0
Very Good	Excellent	Excellent	Excellent	Excellent	Excellent
Excellent	Excellent	Very Good	Good	Very Good	Very Good
Very Good	Very Good	Very Good	Good	Good	Very Good

Winter Survival Ratings: 1=Most Hardy, 9=Least Hardy

Pest Resistance: HR=Highly Resistant, R=Resistant, MR=Moderately Resistant,
LR=Low Resistance, S=Suseptable, NR=No Rating.



For more information on all
our alfalfa seed, including
assistance selecting an alfalfa
variety appropriate for your
specific situation, go to
www.ArrowSeed.com or contact
your local Arrow Seed dealer.



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