

# ALFALFA

## FORAGE PRODUCTS

			WS	BW	FW	VW	ANTH	PRR	APH
DORMANCY 3	<b>BIG RED 3</b>	A very persistent blend with a solid disease resistance base, which provides solid protection in adverse environments. This fall dormancy 3 blend will persist well into 5 productive years.	2.5	HR	HR	R	HR	HR	HR
	<b>ST120</b>	An alfalfa blend developed for long rotation, high disease and pest resistance, and wide adaptability. It has excellent quality while still having excellent winter hardiness and drought tolerance. ST120 is suitable for variable soils and climates, and performs well under irrigation. ST120 is a blend of Multi-Foliate, Creeping, and Ranger Alfalfa.	1.8	R	R	R	R	NR	NR
	<b>OCTANE</b>	Octane is a high forage yielding alfalfa, with a dense dark green canopy. It's high forage dry matter yield, high forage milk per acre, high NDF and disease resistance make this an easy selection.	1.4	HR	HR	HR	HR	HR	HR
DORMANCY 4	<b>BIG RED 4</b>	A blend of very high yielding, winter-hardy alfalfa varieties with good forage quality. BIG RED 4 is a very persistent blend with a solid disease resistance base, which provides solid protection in adverse environments. This Fall Dormancy 4 blend will persist well into 5 plus years.	2.0	HR	R	R	HR	HR	HR
	<b>A-100</b>	Conventional alfalfa with exclusive blended varietal genetics. Well adapted to a wide range of agronomic conditions.	2.2	R	R	R	R	HR	R
	<b>BARRICADE SLT</b>	An alfalfa variety well suited to areas with increased salinity pressures.	2.0	HR	HR	HR	HR	HR	NR
	<b>DYNAMO</b>	Dynamo provides high forage quality, maximum tonnage, superior winterhardiness and outstanding disease resistance. This alfalfa has a rapid regrowth, making it suitable for 3, 4 and 5 cut harvest management systems.	1.9	HR	R	R	HR	HR	HR
	<b>423TQ RR</b>	High quality Traffic Tested® alfalfa with Ultracut™ alfalfa disease package and Roundup Ready® technology	1.0	HR	HR	HR	HR	HR	HR
DORMANCY 5	<b>SLINGSHOT</b>	High-yielding, high-quality, excellent digestibility. Exclusive genetics. Top production across a wide range of agronomic conditions.	2.0	R	HR	HR	HR	HR	HR

NR = Not Rated

R = Resistant; HR = Highly Resistant; MR = Moderately Resistant



# BIG RED 3

## COATED ALFALFA

**Big Red 3** is a blend of high yielding winter-hardy alfalfa varieties with good forage quality. Big Red 3 is a very persistent blend with a solid disease resistance base, which provides solid protection in adverse environments. This fall dormancy 3 blend will persist well into 5 productive years.

BIG RED 3 CHARACTERISTICS	
Fall Dormancy	3.0
WSI	1.5
DRI	29/30
Cut Per Season	2-3

BIG RED 3 DISEASE AND PEST RESISTANCE	
Bacterial Wilt Fusarium	HR
Verticillium Wilt	R
Fusarium Wilt	HR
Phytophthora Root Rot	HR
Anthrachnose	HR
Aphanomyces Root Rot	HR
Pea Aphid	R
Spotted Alfalfa Aphid	R

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### ST120

#### ALFALFA

**ST120** is an alfalfa blend developed for long rotation, high disease and pest resistance, and wide adaptability. It has excellent quality while still having excellent winter hardiness and drought tolerance. ST120 is suitable for variable soils and climates, and performs well under irrigation. ST120 is a blend of Multi-Foliate, Creeping, and Ranger Alfalfa.



#### ST120 CHARACTERISTICS

<b>Fall Dormancy</b>	3.0
<b>WSI</b>	1.8
<b>Cut Per Season</b>	3-4

#### ST120 DISEASE AND PEST RESISTANCE

<b>Bacterial Wilt</b>	R
<b>Fusarium Wilt</b>	R
<b>Anthrachnose</b>	R
<b>Phytophthora Root Rot</b>	NR
<b>Aphanomyces Root Rot (Race 1)</b>	NR
<b>Aphanomyces Root Rot (Race 2)</b>	NR
<b>Verticillium Root Rot</b>	R

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# OCTANE

## ALFALFA

Supercharge your hay production with **Octane**, the high forage yielding leader that consistently produces more dry matter and milk per acre. Its stability and persistence deliver high performance year after year. Octane’s dense, dark green canopy and 60% multifoliate expression is a standout in any field. Octane is selected for high forage dry matter yield, high forage milk per acre, high NDF and disease resistance.



OCTANE CHARACTERISTICS	
Fall Dormancy	3.0
WSI	1.4
DRI	35/35

OCTANE DISEASE AND PEST RESISTANCE	
Bacterial Wilt	HR
Fusarium Wilt	HR
Anthrachnose	HR
Phytophthora Root Rot	HR
Aphanomyces Root Rot (Race 1)	HR
Aphanomyces Root Rot (Race 2)	HR
Verticillium Root Rot	HR
Blue Alfalfa Aphid	R
Stem Nematode	HR

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# ALFALFA

## FORAGE PRODUCTS

### BIG RED 4

#### ALFALFA

**Big Red 4** is a blend of very high yielding, winter-hardy alfalfa varieties with good forage quality. Big Red 4 is a very persistent blend with a solid disease resistance base, which provides solid protection in adverse environments. This Fall Dormancy 4 blend will persist well into 5 plus years.

#### BIG RED 4 CHARACTERISTICS

Fall Dormancy	4.0
WSI	2.0
DRI	28/30
Cut Per Season	4-5

#### BIG RED 4 DISEASE AND PEST RESISTANCE

Bacterial Wilt Fusarium	HR
Verticillium Wilt	R
Fusarium Wilt	R
Phytophthora Root Rot	HR
Anthrachnose	HR
Aphanomyces Root Rot	HR
Pea Aphid	R
Spotted Alfalfa Aphid	MR



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### A-100

#### CONVENTIONAL ALFALFA

**A-100** is a proven brand that has worked well across the Midwest for many years. Combining great stand persistence with high yield package, this alfalfa fits across a broad range of environments and is well suited for a 4-5 cut system.



#### A-100 CHARACTERISTICS

<b>Fall Dormancy</b>	4.0
<b>WSI</b>	2.2
<b>DRI</b>	27/30
<b>Forage Quality</b>	Very Good
<b>Persistence</b>	Excellent
<b>Leaf-type</b>	Trifoliate
<b>Recovery After Cutting</b>	Fast
<b>Hay</b>	Excellent
<b>Haylage</b>	Excellent
<b>Pre-inoculated</b>	Yes
<b>Treated with Fungicide</b>	Yes
<b>Seeding Rate</b>	12-20 lbs drilled

#### A-100 DISEASE AND PEST RESISTANCE

<b>Bacterial Wilt</b>	HR
<b>Fusarium Wilt</b>	R
<b>Anthrachnose</b>	R
<b>Phytophthora Root Rot</b>	HR
<b>Aphanomyces Root Rot (Race 1)</b>	NR
<b>Aphanomyces Root Rot (Race 2)</b>	NR
<b>Verticillium Root Rot</b>	R
<b>Pea Aphid</b>	HR
<b>Potato Leafhopper</b>	NR

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# BARRICADE SLT

## ALFALFA

**Barricade SLT** is an alfalfa variety well suited to areas with increased salinity pressures. Selected from parents that endured repeated irrigation under a 100mM NaCl solution in the greenhouse, and endured field soils with >8 EC, Barricade SLT has demonstrated improved germination under saline conditions as well as improved forage production. This increased saline tolerance, when combined with high yield potential and an excellent disease and pest resistance package, gives Barricade SLT excellent overall performance and hardiness.

BARRICADE SLT CHARACTERISTICS	
Fall Dormancy	4.0
WSI	2.0
DRI	35/35
Cut Per Season	4-5

BARRICADE SLT DISEASE AND PEST RESISTANCE	
Bacterial Wilt Fusarium	HR
Verticillium Wilt	HR
Fusarium Wilt	HR
Phytophthora Root Rot	HR
Anthrachnose	HR
Aphanomyces Root Rot	HR
Pea Aphid	HR
Spotted Alfalfa Aphid	MR

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### DYNAMO

#### ALFALFA

**Dynamo** delivers explosive forage quality and maximum tonnage in a fall dormancy class 4 variety. Its rapid regrowth is well suited for 3, 4 and 5 cut harvest management systems. High multifoliate leaf expression, improved crude protein content and exceptional feed value are table stakes for this top performer. Dynamo's unparalleled combination of high yield and improved Relative Feed Quality (RFQ) will produce more milk per acre guaranteed. Complimented by superior winterhardiness and outstanding disease resistance index scores, including Aphanomyces Race 1 and Race 2 resistance, Dynamo will generate high-flying forage production and more milk.



#### DYNAMO CHARACTERISTICS

<b>Fall Dormancy</b>	4.0
<b>WSI</b>	1.9
<b>DRI</b>	34/35

#### DYNAMO DISEASE AND PEST RESISTANCE

<b>Bacterial Wilt</b>	HR
<b>Fusarium Wilt</b>	HR
<b>Anthracnose</b>	HR
<b>Phytophthora Root Rot</b>	HR
<b>Aphanomyces Root Rot (Race 1)</b>	HR
<b>Aphanomyces Root Rot (Race 2)</b>	R
<b>Verticillium Root Rot</b>	HR
<b>Pea Aphid</b>	R
<b>Blue Aphid</b>	R
<b>Spotted Alfalfa Aphid</b>	R
<b>Stem Nematode</b>	R
<b>Northern Root Knot Nematode</b>	MR

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# 423TQ RR ULTRACUT™

## ALFALFA

High quality Traffic Tested® alfalfa with UltraCut™ alfalfa disease package with Roundup Ready™ technology. Top choice for heavy, compacted and saturated soils. The UltraCut™ alfalfa disease package helps you grow a healthy alfalfa crop even in fields susceptible to Anthracnose and Aphanomyces. Its protection can help deliver an advantage through improved agronomic performance and yield potential.

### 423TQ RR ULTRACUT™ CHARACTERISTICS

<b>Fall Dormancy</b>	4.0
<b>WSI</b>	1.0
<b>DRI</b>	34/35
<b>Forage Quality</b>	Excellent
<b>Persistence</b>	Excellent
<b>Recovery After Cutting</b>	Very Fast

### 423TQ RR ULTRACUT™ DISEASE AND PEST RESISTANCE

<b>Bacterial Wilt</b>	HR
<b>Fusarium Wilt</b>	HR
<b>Anthracnose</b>	HR
<b>Phytophthora Root Rot</b>	HR
<b>Aphanomyces Root Rot</b>	HR
<b>Verticillium Root Rot</b>	HR
<b>Pea Aphid</b>	R
<b>Spotted Aphid</b>	R
<b>Stem Nematode</b>	R



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### SLINGSHOT

#### ALFALFA

**Slingshot** is a high yielding FD 5 alfalfa with a tough winter dormancy. With its early dormancy break in the spring and fast re-growth after cutting, Slingshot's ability to handle an aggressive multi-cut regiment takes this alfalfa to the next level. This alfalfa also has a high expression of multi-foliates giving it 4-5 leaflets per leaf.



#### SLINGSHOT CHARACTERISTICS

<b>Fall Dormancy</b>	5.2
<b>WSI</b>	2.0
<b>DRI</b>	34/35
<b>Cut Per Season</b>	4-5

#### SLINGSHOT DISEASE AND PEST RESISTANCE

<b>Bacterial Wilt</b>	R
<b>Fusarium Wilt</b>	HR
<b>Anthracnose</b>	HR
<b>Phytophthora Root Rot</b>	HR
<b>Aphanomyces Root Rot (Race 1)</b>	HR
<b>Aphanomyces Root Rot (Race 2)</b>	NR
<b>Verticillium Root Rot</b>	HR
<b>Pea Aphid</b>	HR
<b>Potato Leafhopper</b>	NR

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## FALL DORMANCY (FD) AND WINTER SURVIVABILITY INDEX (WSI)

Over the last few decades, alfalfa breeders have been able to differentiate the correlation to some extent the fall dormancy and winter survivability of alfalfas. This has led to very winter hardy alfalfas that are able to be a higher fall dormancy, and more productive alfalfa.

**Fall Dormancy** is a measurement of the overall plant height 25 days after its fall cutting. Usually, alfalfas with a higher fall dormancy have more fall growth, earlier spring growth, and result in higher alfalfa yields. The fall dormancy numerical system has a range from 1-11, with a 1 being the most dormant and a 11 being the least dormant or non-dormant.

**Winter Survivability** is the actual survival of those plants, when measured in the spring as the plants break dormancy. This rating is on a 1-6 scale, with the lower numbers having the stronger winter survivability.

