



NorthStar

GENETICS

Proven Potential

2012 Product Guide



Dear friends,

Thank you for purchasing NorthStar Genetics products. We truly appreciate your business.

With this being my 25th year in the seed industry, I'm trying to summarize the experience, and am having trouble doing so.

The pace of "things" has just been incredible. We are witnessing unbelievable change in seed, technology, pest management, weed management...comparing 1985 to today is similar to comparing a horse-drawn buggy to the space shuttle.

Attending meetings of the trait providers gives us a glimpse into the next phase of growth/change:

- Quality traits

- Drought tolerance

- Increased yields

- Competing weed management systems

- GM pest management

- And the list goes on.

It was mentioned that there could easily be 20 traits in a seed...the potential is truly endless.

We continue in our quest for the best seed on your ground: new genetics, locally grown, sold and conditioned by someone you trust. We used this saying in 1996 when NorthStar was formed. It's about the only thing that's been consistent over the past 15 years.

Change in the industry is great. Trust in your seed company is priceless.

Thank you,

Dan Hogstad
President, NorthStar Genetics

NS 0002 Conv

RM - 00.3

- Tested for the food market and roasts well for high-quality soymeal
- Exceptional yield potential for its maturity
- Good tolerance to high pH soils

NS 0011RR

RM - 00.3

- Medium bush plant
- Great defensive package
- Earliest RR bean in our lineup



NS 0024RR

RM - 00.4

- Handles stress well
- Has great IDC
- Handles most soil types

NS 0057R2

RM - 00.5

NEW in 2012

- Heavily podded on lateral branches
- Very good IDC tolerance
- Sets a new yield standard for double zeroes



NS 0077R2

RM - 00.7

NEW in 2012

- Excellent IDC tolerance
- Lateral branch hangs pods out into the row for a strong yield
- Exceptional yields on tough IDC ground

NS 0091RR

RM - 00.9

- Super yielder in all environments
- Handles white mold
- Moves north and south can be used for late season rescue





NS 0092RR

RM - 00.9

- Great no-till bean
- Thrives on gumbo and heavier soils
- K gene with great IDC rating



NS 0096R2

RM - 00.9

- IDC equal to our NS 0413RR
- Medium-tall to tall plant keep in narrow rows
- Adapted to the Valley and east or west



NS 0187R2

RM - 0.1

NEW in 2012

- Best of class IDC tolerance
- Excellent standability
- Maintains yield as you move into western North Dakota



NS 0216R2

RM - 0.2

- Medium height plant that won't lodge
- Outstanding IDC and white mold tolerance
- Rps 1c gene and great field tolerance for phytophthora



NS 0267SR2

RM - 0.2

NEW in 2012

- Carries K gene with solid IDC
- Moves south well
- STS resistant



NS 0304RR

RM - 0.3

- Broadest geographic range of any bean
- Grand Forks to Aberdeen, east and west
- Complete disease package IDC, WM, PRR, BSR



NS 0327NR2

RM - 0.3

NEW in 2012

- Great emergence and PRR
- Go any where type bean
- Earliest RR2Y with cyst



NS 0377NLL

RM - 0.3

NEW in 2012

- Earliest LL line available
- Solid defensive package
- Earliest LL CN available



NS 0516R2

RM - 0.5

- Medium-tall plant with lots of branches
- Strong field tolerance to phytophthora and white mold
- Top shelf IDC score



NS 0566RR

RM - 0.5

- Rps 1c gene for phytophthora with excellent field tolerance
- The total package of SWM, BSR, IDC resistance
- Widely adapted across all of Minnesota and North Dakota



NS 0567NLL

RM - 0.5

NEW in 2012

- Second earliest LL soybean available
- Great defensive package: IDC, SCN, Rps 1k and white mold



NS 0620RR

RM - 0.6

- Tall bean with average IDC, plant north and west
- Sets the yield standard for western North Dakota





NS 0626R2

RM - 0.6

- RPS 3 gene, picks up race 25, K gene misses
- Plant on PRR problem soils or take west in North Dakota
- Not meant for IDC soil types



NS 0717R2

RM - 0.8

NEW in 2012

- Attractive light tawny/tan
- Medium height with excellent standability
- Moves into western North Dakota with ease
- Offensive powerhouse



NS 0853RR

RM - 0.8

- Yield, yield, yield
- Medium plant height, bushy plant canopies fast to maintain moisture and control weeds
- Keep on high yield fields for superior yields



NS 0977R2

RM - 0.9

NEW in 2012

- Top yielder for its maturity
- Very widely adapted east to west
- Excellent emergence
- Larger than normal seed size



NS 1076NLL

RM - 1.0

- Excellent IDC, SCN, SWM, SDS ratings
- High field tolerance to phytophthora
- Take as far south as Olivia and north to Fargo



NS 1125R2

RM - 1.1

- GENRR2Y with IDC! Largest geographic adaptation of any RR2Y bean
- Excellent in Red River Valley soils and goes into lighter soils
- First pod set is high for harvest ease



NS 1177NR2

RM - 1.1

NEW in 2012

- Consistent and good standability
- Good IDC tolerant line, and K gene tool
- Very good stress tolerance
- SCN and IDC tolerance



NS 1257R2

RM - 1.1

NEW in 2012

- Set's a new yield bar
- Rps3 phytophthora root rot protection
- Good north to south movement at RM 1.1



NS 1477NR2

RM - 1.3

NEW in 2012

- Solid defensive package
- Excellent performance in stress environments
- Super cyst package



NS 1423NRR

RM - 1.4

- IDC, K gene and excellent cyst tolerance
- Out-yields all other 1.3 - 1.4 cyst lines
- Thrives on tough soils from Wahpeton to Montevideo



NS 1426R2

RM - 1.4

- Best of class WM, PRR, IDC, BSR
- 1.4 maturity that out yields 2.0's



NS 1533NRR

RM - 1.5

- K gene + IDC = super yields
- Excellent cyst tolerance
- A must in any farmer's lineup





NS 7159NR

RM - 1.5

- IDC is average shows fast recovery
- Top ground = Top producer yields
- Goes east through central Minnesota well



NS 1726NR2

RM - 1.7

- Strong resistance to Race 3 cyst
- Great IDC, SWM, and PRR field tolerance
- Widely adapted with outstanding performance



NS 1826NR2

RM - 1.8

- Medium-tall plants that will bush out and stand tall
- Rps 1k gene with average IDC and SWM ratings
- Strong resistance to brown stem rot



NS 1916NR2

RM - 1.9

- Medium-tall bush plant type
- Rps 1c gene with solid field tolerance
- Outstanding IDC, BSR, SWM and SCN ratings



NS 7204NR

RM - 1.9

- Most proven 2.0 in class
- Stands erect throughout season for ease of harvest
- Very good cyst nematode tolerance



NS 2077NR2

RM - 2.0

NEW in 2012

- Breakaway yields
- Good SDS tolerance observed in 2010
- Widely adapted across Minnesota and South Dakota



NS 7219NR

RM - 2.1

- Very good disease package
- Taller than most 2.0 types, but stands tall through harvest
- Profuse lateral branching that insures yields



NS 2116NR2

RM - 2.1

- Medium height on a semi-bushy plant
- Out yields NS 7219NR2 by 2 bu/acre
- Strong defensive package of IDC, SWM, SCN, and BSR



NS 2377NR2

RM - 2.3

NEW in 2012

- Best rated line for IDC tolerance
- Every farm needs this bean
- Very good "D" protects the dominating yields



NS 2477R2

RM - 2.4

NEW in 2012

- Fantastic looking gray/brown that darkens across the top
- South Dakota to Iowa
- Yield, yield, yield




Name: Roger Dale, NorthStar Genetics Seed Dealer

Location: Hanley Falls, MN

Roger's customer, Gerald Aamodt, stated: [On NorthStar Genetics (in general; office help and DSM's)]

"My brothers and I have planted NorthStar Genetics seed beans, formally Ziller seeds, and have been very satisfied through the years. The dealers have been most helpful as we select the varieties for our farms. We usually select soybeans that will do well on alkaline ground and have been real satisfied. The office and facilities are well equipt. We go along with our seed dealer to the plots and you do a fine job on them."



Roger and Joanne Dale received an Appreciation Award for 30 years of service from 1979-2009.

In 2011, they continue to sell seed for NorthStar Genetics.

SOYBEAN CHARACTERISTICS CHART

	Brand	Maturity	Emergence	Height	Type	Standability	Brown Stem Rot Rating
	NS 0002 Conv	00.3	1.4	Med	Med-Bush	2.0	2.7
	NS 0011RR	00.3	1.9	Med	Bush	2.1	2.6
	NS 0024RR	00.4	2.0	Med	Med-Bush	2.0	2.4
NEW	NS 0057R2	00.5	1.7	Med	Med-Bush	2.2	2.5
NEW	NS 0077R2	00.7	1.5	Med	Med-Bush	1.7	2.4
	NS 0091RR	00.9	1.8	Med-Tall	Thin-Bush	2.2	2.8
	NS 0092RR	00.9	1.2	Med-Tall	Med-Bush	2.0	2.8
	NS 0096R2	00.9	1.5	Med-Tall	Thin Bush	2.1	1.1
NEW	NS 0187R2	0.1	1.6	Med	Thin Bush	1.5	2.7
	NS 0216R2	0.2	1.5	Med	Med-Bush	1.8	2.8
NEW	NS 0267SR2	0.2	1.8	Med-Tall	Med-Bush	2.0	2.6
	NS 0304RR	0.3	1.5	Med	Med-Bush	1.1	1.1
NEW	NS 0327NR2	0.3	1.7	Med-Tall	Med-Bush	3.5	2.2
NEW	NS 0377NLL	0.3	1.2	Med	Med	1.6	1.8
	NS 0516R2	0.5	1.6	Med-Tall	Med-Bush	2.0	2.9
	NS 0566RR	0.5	2.1	Med	Med-Bush	1.6	2.0
NEW	NS 0567NLL	0.5	1.1	Med-Tall	Med-Bush	1.6	2.5
	NS 0620RR	0.6	1.2	Tall	Med-Bush	2.1	1.5
	NS 0626R2	0.6	1.6	Med	Med-Bush	2.0	2.7
NEW	NS 0717R2	0.8	1.0	Med	Med-Bush	1.4	2.6
	NS 0853RR	0.8	1.2	Med	Bush	1.4	2.2
NEW	NS 0977R2	0.9	2.0	Med-Tall	Med-Bush	2.4	2.5
	NS 1076NLL	1.0	1.1	Med	Up-Bush	1.4	2.4
	NS 1125R2	1.1	2.0	Med-Tall	Up-Bush	2.3	2.0
NEW	NS 1177NR2	1.1	1.6	Med-Tall	Semi Bush	1.7	2.6
NEW	NS 1257R2	1.1	1.5	Med	Med-Bush	2.5	2.5
NEW	NS 1477NR2	1.3	1.0	Tall	Semi Bush	1.1	2.6
	NS 1423NRR	1.4	2.0	Med	Med-Bush	2.3	2.6
	NS 1426R2	1.4	1.6	Med	Med-Bush	1.6	1.6
	NS 1533NRR	1.5	2.0	Med-Tall	Med-Bush	2.0	3.0
	NS 7159NR	1.5	1.6	Med-Tall	Med-Bush	2.3	3.0
	NS 1726NR2	1.7	1.9	Med	Med-Bush	1.4	2.9
	NS 1826NR2	1.8	1.6	Med-Tall	Med-Bush	2.0	1.6
	NS 1916NR2	1.9	1.5	Med-Tall	Med-Bush	1.8	1.8
	NS 7204NR	1.9	1.2	Med	Med-Bush	1.5	2.5
NEW	NS 2077NR2	2.0	2.0	Med	Medium	2.5	2.5
	NS 7219NR	2.1	1.1	Med-Tall	Med-Bush	1.5	2.6
	NS 2116NR2	2.1	1.2	Med-Tall	Med-Bush	1.6	2.0
NEW	NS 2377NR2	2.3	1.9	Med	Med-Bush	1.5	3.0
NEW	NS 2477R2	2.4	2.0	Med	Med-Bush	1.9	1.0

White Mold	Cyst Nematode	Iron Chlorosis	Phytophthora	Brand
2.1	S	2.1	NG/2.3	NS 0002 Conv
1.7	S	1.6	NG/1.9	NS 0011RR
1.7	S	1.7	NG/2.1	NS 0024RR
2.2	S	1.8	Rps 1c/2.3	NS 0057R2
2.5	S	1.6	Rps 1c/1.9	NS 0077R2
1.9	S	1.9	NG/1.9	NS 0091RR
2.6	S	1.7	Rps 1k/2.2	NS 0092RR
2.6	S	1.9	Rps 1c/2.3	NS 0096R2
2.3	S	1.5	Rps 1c3a/2.4	NS0187R2
2.1	S	1.7	NG/2.2	NS 0216R2
2.5	S	2.1	Rps 1k/1.7	NS 0267SR2
1.2	S	1.9	NG/1.9	NS 0304RR
2.7	S	2.3	NG/1.8	NS 0327NR2
1.6	R3,MR14	1.8	Rps 1k/1.8	NS 0377NLL
2.1	S	1.9	NG/2.2	NS 0516R2
1.3	S	2.2	Rps 1c/1.6	NS 0566RR
1.8	R3,MR14	1.8	Rps 1k/1.8	NS 0567NLL
2.3	S	2.1	NG/1.9	NS 0620RR
2.5	S	2.5	Rps 3/2.0	NS 0626R2
2.4	S	2.6	NG/1.7	NS 0717R2
1.7	S	3.0	NG/1.9	NS 0853RR
2.5	S	3.0	Rps 1a/2.5	NS 0977R2
1.6	R3,R14	1.8	Rps 1a/2.0	NS 1076NLL
2.5	S	1.8	Rps 1c/2.3	NS 1125R2
2.1	R3,MR14	2.1	Rps 1k/1.9	NS 1177NR2
2.6	S	2.4	Rps 3a/1.9	NS 1257R2
2.6	R3,MR14	2.2	Rps 1a/2.2	NS 1477NR2
3.0	R3,MR14	1.8	Rps 1k/2.2	NS 1423NRR
1.6	S	2.2	Rps 1c/1.7	NS 1426R2
2.5	R3,MR14	2.0	Rps 1k/2.1	NS 1533NRR
2.8	R3,MR14	3.5	Rps 1k/2.5	NS 7159NR
1.7	R3	2.8	Rps 1c/2.2	NS 1726NR2
2.8	R3,MR14	2.8	Rps 1k/2.4	NS 1826NR2
2.2	R3,MR14	2.4	Rps 1c/2.5	NS 1916NR2
2.0	R3,R14	2.2	Rps 1k/1.5	NS 7204NR
2.6	R3,MR14	2.7	Rps 1c/2.3	NS 2077NR2
2.4	R3,MR14	2.1	Rps 1c/2.0	NS 7219NR
2.2	R3,MR14	2.3	NG/2.2	NS 2116NR2
2.4	R3,MR14	1.7	Rps 1k/2.2	NS 2377NR2
2.8	S	2.7	Rps 1c/2.3	NS 2477R2

Rating Key

1 = Excellent
5 = Poor

Height

Med = Medium
Med-Tall = Medium-Tall
Tall = Tall

Standability

1 = Standing Perfectly
5 = Completely Flat

Brown Stem Rot

1 = Resistant
5 = Susceptible

White Mold

1 = Unaffected
5 = Decimated

Cyst Nematode

S = Susceptible
R = Resistant To
MR = Moderate Resistance

Iron Chlorosis

1 = Unaffected
5 = Decimated

Phytophthora Field Tolerance

gene/resistance
1 = Best
NG = No Specific Gene





NS 82-101 GTCBLL

RM - 82

- Medium-tall, medium ear height, semi-erect leaf angle
- Very good stalks and roots and overall agronomics, very healthy
- Very good test weight and grain quality, fast drydown
- Takes high plant populations well



NS 82-102 GT

RM - 82

- Same genetic package as NS 82-101, early to flower early to dent
- Semi-erect leaf angle
- Very good stalks and roots and overall agronomics, very healthy
- Planting rates 26-32,000



NS 85-212 GT

RM - 85

- Fits well as a very healthy, high population hybrid that responds to management
- Does best at high populations, leafy, and can be used as a top tonnage hybrid for silage purposes
- Very healthy, very attractive in the field, very good companion to either the 82 or 87 day NorthStar hybrids
- Early flowering, early denting, rapid drydown



NS 87-101 GT

RM - 87

- Unmatched yield for maturity, moderate ear flex, same base genetics as NS 87-102
- Medium-tall, medium ear height, semi-erect leaf angle
- Outstanding stalks, average roots, with excellent agronomics, very healthy
- Takes high plant populations well, suggested 26-32,000 planting rates



NS 87-102 GTCBLL

RM - 87

- Unmatched yield for maturity, moderate ear flex
- Medium-tall, medium ear height, semi-erect leaf angle
- Very good test weight and grain quality, red cob, good husk cover, fast drydown
- Takes high plant populations well
- NS 87-102 should be part of every seed order where maturity fits



NS 90-101 GTCBLL

RM - 90

New in 2012

- New for 2012 planting. Early flowering, good northern performance, goes east to west well
- Excellent stalks, good roots, good plant health, test weight and grain quality
- Fixed ear type, optimum planting range 28-34,000, red cob, 16-18 kernel rows, medium-tall
- Widely adapted to all soil types, will match up well with NS 85-212 and the NS 87-101 and 102 hybrids



NS 90-201 3000GT

RM - 90

New in 2012

- New for 2012 planting. No genetic matchup in the lineup
- Best use is in rotation cropping, good emergence, best 90 day yielder we've tested
- Pink cobs, 16-18 rows, optimum planting up to 34,000 ppa, excellent harvestability
- Medium-tall, medium ear height, semi-erect leaf angle
- Good agronomics, good stay green at harvest



NS 93-101 GTCBLL

RM - 93

- Excellent yield potential, very stable, same base genetics as NS 93-102
- Medium-tall, medium ear height, semi-erect leaf angle
- Outstanding stalks and roots, with excellent agronomics, very healthy
- Takes high plant populations well





NS 93-102 3000GT

RM - 93

- 93 day relative maturity, excellent yield potential, very stable
- Medium-tall, medium ear height, semi-erect leaf angle
- Outstanding stalks and roots, with excellent agronomics, very healthy
- Takes high plant populations well
- Agrisure 3000GT trait package covers two herbicide and two insect protections



NS 93-106 3000GT

RM - 93

- Strong stalks and roots
- Very good test weights
- Dependable and consistent performance



NS 95-135 GTCBLL

RM - 95

- Provides exceptional yield and overall agronomic performance
- Loaded with Agrisure 3000GT to support its use in zone and south of zone if rootworms may be present
- 18-20 kernel rows on consistently uniform ears
- Very high yields and widely adaptable



NS 97-410 GT

RM - 97

- Top end yield potential in zone and can go north, very early flowering for its maturity
- Medium plant height, medium ear height, erect leaf angle
- Above average stalks, with excellent agronomics, very healthy
- Semi-fixed ear, fast drydown, very consistent performer
- High utility in starch/ethanol markets



NS 97-421 3000GT

RM - 97

- Same base genetics as NS 97-410 but with added trait package
- Takes high plant populations well, suggested 26-32,000 planting rates
- Medium plant height, medium ear height, erect leaf angle
- Above average stalks, with excellent agronomics, very healthy
- Semi-fixed ear, fast drydown
- High utility in starch/ethanol markets



NS 99-121 3000GT

RM - 99

- Strong seedling vigor, finishes with excellent plant health
- Broad adaptation across the maturity zone; Fast drydown allows it to go farther north
- Fixed ear type, 16-18 kernel rows, red cob
- Great agronomic package, medium plant stature
- Very stable hybrid, solid performance



NS 99-122 3111V

RM - 99

New in 2012

- Same genetic package as NS 99-121 but with added insect protection of Agrisure Viptera
- Optimum planting range 28-34,000, does well across all its maturity zone
- Averaged 56.2# test weight in all 2010 trials, outstanding yields
- Note NS 99-121 characteristics



NS 99-419 3000GT

RM - 99

- Excellent yield potential widely adapted east and west
- Medium plant height, medium ear height, erect leaf angle
- Semi-fixed ear, average test weight, fast drydown, tops break out at maturity, good combiner
- Takes high plant populations well, best performance on good ground





NS 102-329 3000GT

RM - 102

- All around great adaptability and high level performance, yield leader in its maturity
- A good looking, leafy and uniform plant type, good late season plant health
- Management responsive while exhibiting wide adaptability to soil types and weather patterns
- Optimum planting range 28-34,000, fixed ear, 16-18 rows, moderate test weight



NS 102-330 3111V

RM - 102

New in 2012

- Agrisure Viptera version of the NS 102-329 pedigree, same strong performance on all soils
- Outstanding stalks, moderate root ratings, very attractive uniform hybrid in the field
- Generally we like to keep it mid zone or north of zone, average drydown but very healthy
- Optimum planting range 28-34,000, fixed ear, 16-18 rows, moderate test weight.



NS 104-392 GTCBLL

RM - 104

- Excellent dual purpose silage/grain corn
- Very tall robust looking plants with standability
- Pink cob, white cob in background = high palatability
- Very good early season vigor for min-till situations
- Long thin cob for fast silage milkline development



NS 104-390 3000GT

RM - 104

New in 2012

- New for 2012, available with rootworm control, same base genetics as our popular NS 104-392
- Semi-flex very long ears 14-16 rows, very adaptable to all soils and conditions
- Tall rangy hybrid with medium-high ear placement, good harvestability either silage or grain
- This hybrid seems to mature and achieve harvest moisture north of zone
- Yield competitive both north and south of zone



	Brand	Tech	Maturity	Tolerance High Pop	Seeding Vigor	Stalk Quality	Root Quality	Plant Height	Ear Height	Drought Tolerance	Test Weight	Stay Green
	NS 82-101	GTCBLL	82	2	2	1	2	MT	M	3	2	4
	NS 82-102	GT	82	2	2	1	2	MT	M	3	2	4
	NS 85-212	GT	85	2	2	1	1	TM	MH	2	3	2
	NS 87-101	GT	87	2	1	1	3	M	M	2	2	3
	NS 87-102	GTCBLL	87	2	1	1	3	M	M	3	2	3
NEW	NS 90-101	GTCBLL	90	2	2	2	3	M	MT	3	3	2
NEW	NS 90-201	3000GT	90	2	1	2	2	MT	M	2	3	2
	NS 93-101	GTCBLL	93	2	3	1	2	M	ML	3	3	2
	NS 93-102	3000GT	93	2	3	1	2	M	ML	3	3	2
	NS 93-106	3000GT	93	2	2	2	2	M	M	3	3	2
	NS 95-135	GTCBLL	95	2	3	2	3	M	M	3	3	2
	NS 97-410	GT	97	2	1	2	1	MT	M	2	3	2
	NS 97-421	3000GT	97	2	1	2	1	MT	M	2	3	2
	NS 99-121	3000GT	99	2	2	3	3	M	M	2	3	2
NEW	NS 99-122	3111V	99	2	2	2	3	M	M	2	3	2
	NS 99-419	3000GT	99	2	2	3	3	MT	M	2	3	2
	NS 102-329	3000GT	102	2	2	3	3	MT	MH	3	3	2
NEW	NS 102-330	3111V	102	2	2	2	2	MT	MH	2	3	2
	NS 104-392	GTCBLL	104	2	1	1	1	T	MH	2	3	1
NEW	NS 104-390	3000GT	104	2	1	2	2	T	MH	2	3	2

Rating Key

1 = Excellent
5 = Poor

Plant Height

M = Medium
MT = Medium-Tall
T = Tall

Ear Height

M = Medium
ML = Medium-Low
MH = Medium-High



Name: Ron Miller, NorthStar Genetics Seed Dealer

Location: Mapleton, MN

Ron Miller stated [in general; office help and DSM's]:

"Office staff is always friendly and very prompt in answering questions. DMS's are always willing to help, when asked to help the dealers deliver good service to their customers."

On NorthStar Genetics seed varieties: *"They always have a good supply of varieties and quality seed. They keep up with other seed companies on cyst nematode varieties and other disease resistance varieties."*



Ron and Cheryl Miller receiving the NorthStar Genetics "Golden Dealer Award"



LibertyLink[®] soybeans with Ignite[®] herbicide enables growers to effectively avoid or manage weed resistance as the only nonselective alternative to glyphosate-tolerant systems. LibertyLink soybean varieties combine elite genetics and excellent crop safety with built-in tolerance to the powerful, postemergence weed control of Ignite. High-yielding LibertyLink soybean varieties are available in a range of maturities. Ignite herbicide applied over the top of LibertyLink soybean varieties provides cost — effective, nonselective postemergence control of broadleaf and grass weeds, including weeds resistant to glyphosate and multiple herbicide classes.



Genuity[®] Roundup Ready 2 Yield[®] soybean seed and any product of a Genuity[®] Roundup Ready 2 Yield[®] soybean seed or crop can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted.



Roundup Ready[®] Soybeans contain in-plant tolerance to Roundup[®] brand herbicides, enabling growers to spray labeled brands for Roundup[®] over the top, from emergence throughout flowering, for superior weed control, excellent crop safety and maximum yield potential. Since they were first introduced several years ago, Roundup Ready[®] soybeans have shown consistent and reliable performance. Outstanding yields and reduced input costs mean that Roundup Ready[®] soybeans, used in a Roundup Ready[®] system, offer growers more profit opportunities than conventional soybeans.



Agrisure[®] GT trait provides tolerance to glyphosate based herbicides.



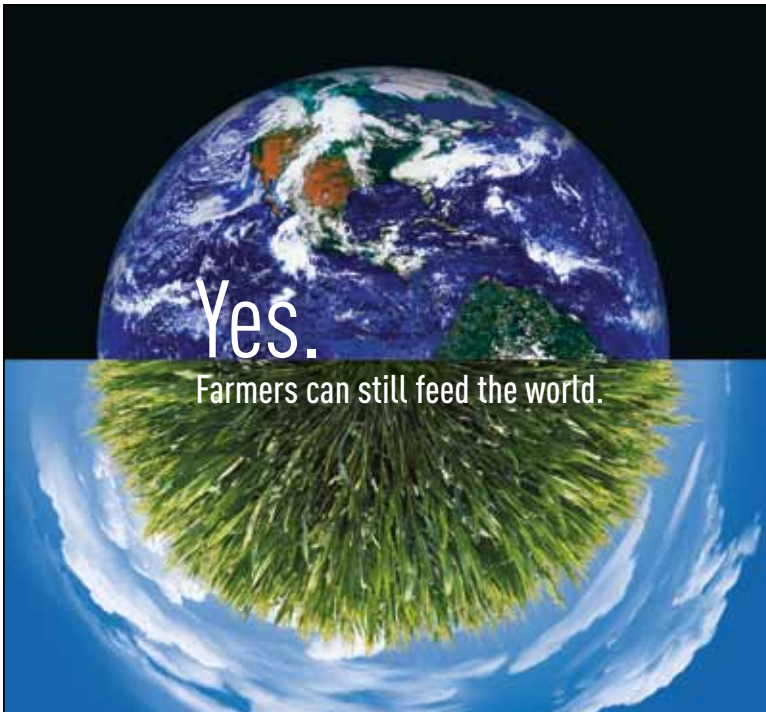
Agrisure[®] GT/CB/LL trait provides season-long protection from European and Southwestern Corn Borer. This trait also provides herbicide flexibility with both Agrisure[®] GT system and LibertyLink[®] system.



Agrisure[®] 3000GT trait provides season-long protection from European and Southwestern Corn Borer stacked with industry leading control of Western, Northern and Mexican rootworm. This trait also provides herbicide flexibility with both Agrisure[®] GT system and LibertyLink[®] system.



Agrisure Viptera[™] will be combined with Agrisure[®] 3000GT trait stack to form the new Agrisure Viptera 3111 trait stack. The Agrisure Viptera[™] 3111 trait stack delivers the broadest available spectrum of multi-pest control over 14 yield- and quality-robbing insects, both above and below ground.



As the needs of our planet grow, the importance of farming means more than ever. With innovation like the Genuity[™] brand, Monsanto's family of breakthrough traits across corn, soybean, cotton and specialty crops, we're revolutionizing trait technology to help farmers feed, fuel and clothe the world.

We're committed to helping farmers do what they do best, even better. By working together, we can ensure growth for a better world, today and tomorrow. Find out more at genuity.com.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Genuity and Design[™], Farming Advanced[™] and Monsanto are trademarks of Monsanto Technology LLC. © 2009 Monsanto Company.

MONSANTO



CONTROL MORE INSECTS THAN ANY OTHER TRAIT STACK.

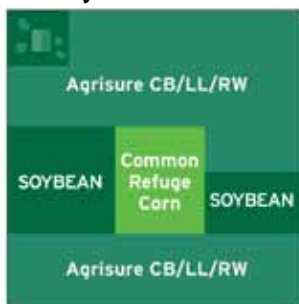
Get hybrids with the Agrisure Viptera[™] 3111 trait stack today.



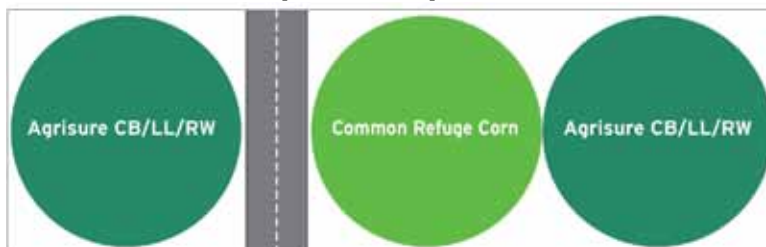
© 2011 Syngenta Seeds, Inc., Minneapolis, MN 55440. Crops or other material produced from Agrisure-Corn Traits products can only be exported to, used, processed and/or sold in countries where all necessary regulatory approvals have been granted. Agrisure Viptera[™] is a trademark of a Syngenta Group Company.

Corn Refuge

Adjacent Fields



Separated By a Road



Agrisure CB/LL/RW or Agrisure 3000GT

Common Refuge

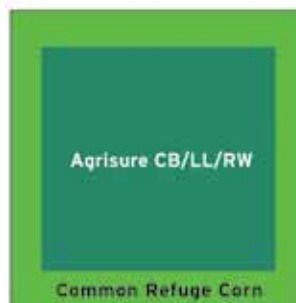
Blocks



Adjacent Multiple Rows



Perimeter



BENEFITS OF NEW SEED

Convenience

- High quality and high yield potential product vs. bin-run
- Reliable seed supply in many maturities

Economics of New Seed vs. Bin-Run

- Average loss of ~10–15% cleanout at harvest for bin-run seed
- Bin-run planting rates are generally 15% higher than new certified seed

Limited Warranty Benefits

- Dealer agronomic support before and after the sale
- Risk management benefits of Roundup Rewards[®] (over \$600 million in benefits paid)

New Innovations

- Monsanto's 100% commitment to agriculture
- Our very preliminary estimate is that farmers get a \$6 benefit for each \$1 spent on private sector research.

SOYBEAN PIRACY STATEMENT

Seeds containing the Roundup Ready[®] trait and the Genuity[®] Roundup Ready 2 Yield[®] trait are protected under numerous United States patents, including Patent No. RE39,247. It is unlawful to save Roundup Ready[®] Soybeans or Genuity[®] Roundup Ready 2 Yield[®] Soybeans for planting or transfer to others for use as a planting seed.

LIBERTYLINK PATENT STATEMENT

Soybean seeds containing the LibertyLink[®] trait are protected under multiple United States patents and may be planted only to produce one (1) commercial crop and only after signing a Grower Trait License agreement. It is illegal to save or catch soybean seeds containing the LibertyLink trait for use as planting seed or for transfer to others for use as planting seed.



Before opening a bag of seed, be sure to read and understand the stewardship requirements, including applicable refuge requirements for insect resistance management, for the biotechnology traits expressed in the seed as set forth in the technology agreement that you sign. By opening and using a bag of seed, you are reaffirming your obligation to comply with those stewardship requirements.

Monsanto Company is a member of Excellence Through Stewardship[®] (ETS). Monsanto products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Monsanto's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. This product has been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from this product can only be exported to, or used, processed or sold in countries where all necessary regulatory approvals have been granted. It is a violation of national and international law to move material containing biotech traits across boundaries into nations where import is not permitted. Growers should talk to their grain handler or product purchaser to confirm their buying position for this product. Excellence Through Stewardship[®] is a registered trademark of Biotechnology Industry Organization.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready[®] crops contain genes that confer tolerance to glyphosate, the active ingredient in Roundup[®] brand agricultural herbicides. Roundup[®] brand agricultural herbicides will kill crops that are not tolerant to glyphosate. Genuity and Design[®], Genuity Icons, Roundup[®], Roundup PowerMAX[®], Roundup Ready[®], and Roundup Ready 2 Yield[®] are trademarks of Monsanto Technology LLC. © 2011 Monsanto Company.

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PRESERVING HERBICIDE TECHNOLOGY: Respect the Rotation[™] is an initiative to elevate importance and improve grower adoption of herbicide diversity through the rotation of crops, traits and herbicide classes. Rotate crops. Crop rotation provides opportunity for herbicide diversity. Rotate herbicide-tolerant traits. Alternate herbicide-tolerant traits or use of herbicide tolerant stacks for more efficient rotation of both nonselective and selective herbicides. Rotate modes of action. Rotate modes of action (MOA) and use multiple MOA to reduce the selection pressure caused by overusing a single MOA. Respect the Rotation is a trademark of Bayer.

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We grow our own soybeans, and we know them well.
We've taken your risk out by growing them ourselves first;
near you, on ground you understand.



Left to right: Scott Younggren, North DSM, plants a NorthStar Genetics test plot. Tom Zeman, South DSM, bags our beans. Seed Dealer, Bob Lindeman and customer George Stoller holding up a NorthStar Genetics sweatshirt.

Available on www.northstargenetics.com, our product guide, test plot results, and NorthStar Genetics store.

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