



WE ARE FARMERS FIRST  
GENERATIONS STRONG

2021  
SEED GUIDE

# THE THUNDER SEED

# way

**Farming is so much more than our livelihood or our way of life.** It's our legacy – the legacy of our parents and grandparents as well as the future legacy of our children and grandchildren. Our roots in this industry run deeper than the roots of any seed or plant you could grow. We wear the title of farmer with pride and contentment, just as our fathers did and their fathers before them.

Our dedication was both innate and learned through years of cultivating the soil and learning from our ancestors. To us, farming embodies the American dream and it's a bright future that we want to pass on to our sons and daughters. But it's not just nostalgia and daydreams, it's hard work, perseverance and dedication. And those are qualities we strive to pass on to the next generation of agriculturalists as well.

**When our boots hit the ground each morning, we face the same challenges you do.**

Our hands are calloused and scarred, as we work hard to find a better way to achieve higher yields and tackle the pests that target our crops. We will continue to find new solutions – we are up to the challenge. We know you hit the fields with the same grit and determination. That's why we're committed to being your solutions partner. We work hard and test our seeds so you can be confident knowing that the seeds you plant have the best traits for your farm. We'll continue to develop new varieties to ensure Thunder Seed meets the needs of future generations. This is seed you can count on for years to come.

It's also about having a partner you can count on. When you need seed, we're there to deliver within 24 hours if needed. We have multiple production and cleaning facilities as well as a vast dealer network, so no matter where you are, we're right there for you. Our success is in large part because of you, the hard-working, dependable farmers who put in long hours to make sure the work gets done right. You've placed your trust in us and we will never take that trust for granted.

**Thank you for making Thunder Seed FIRST *in the* FIELD.**







# 2021 SEED GUIDE

HIGH-YIELDING, TECHNOLOGY DRIVEN SEED



## VT Double PRO® RIB Complete® Corn Blend

Get superior protection from above-ground insects in a single-bag refuge solution. VT Double PRO® RIB Complete® Corn Blend is the first double-stacked trait with dual modes of action. It provides outstanding protection against above-ground pests with even greater protection for corn earworms. And with a blend of 95 percent traited seed and just 5 percent refuge, the lowest in the industry, you'll get higher yields. **Targets: Corn Earworm, Fall Armyworms, Southwestern Corn Borer, European Corn Borer**



## Roundup Ready 2 Xtend® Soybeans

Find maximum disease and weed control, including glyphosate-resistant weeds, with Roundup Ready 2 Xtend® Soybean's groundbreaking seed technology. This soybean variety combines the high-yield potential of Roundup Ready 2 Yield® Soybeans with powerful glyphosate and dicamba tolerance, making it the industry's first biotech-stacked soybean seed. Get the best weed protection this season to experience high yields in your fields.



## Roundup Ready® Corn 2 and Roundup Ready 2 Yield® Soybeans

Get the broadest protection against weeds and the flexibility to apply herbicides the way you need to for the best results on your farm. Our Roundup Ready® Corn 2 and Roundup Ready 2 Yield® Soybeans have a high tolerance to Roundup® herbicides for outstanding crop safety, saving you time you'd otherwise have to spend weeding. Spend less time spraying now and less time tilling next season.



## ENLIST E3® Soybeans

Maximize your yield potential by combining crop tolerance and exceptional broadleaf weed control. Enlist E3® trait enables control against the toughest weeds in soybeans. With multiple herbicide tolerances, you have more weed control options in one complete, easy-to-use system. You get tolerance to 2,4-D choline and glyphosate, as well as additional glufosinate tolerance in Enlist E3® soybeans.



## Agrisure Viptera® Corn

Agrisure Viptera® 3220 E-Z Refuge® features multiple modes of action for unsurpassed control of broad lepidopteran pests and corn borer.

## OUR MISSION

*To develop and deliver soybean and corn seed that gives growers the greatest potential for high yields and profits year after year, and to deliver unrivaled support before, during and after every growing season.*



## 2021 SEED GUIDE - GRAIN CORN

# GRAIN CORN

From conventional corn to varieties with additional protection, Thunder Seed's selection has the combination of traits needed for growing success in your fields. These top-performing hybrids have strong yields and are disease resistant, all under low moisture.




TECHNOLOGY



Relative Maturity

**72**

Days




GRAIN CORN

**TH4072 RR BRAND**

Flowering: medium ▼ CHU's Black Layer 2025


- Super early maturity with very good test weight and fast drydown
- Great emergence and seedling vigor for early planting
- Nice fall appearance with good stalks, staygreen, and intactness



Relative Maturity

**75**

Days




GRAIN CORN

**TH6875 VT2P BRAND**

Flowering: late ▼ CHU's Black Layer 2100


- Attractive plant with great staygreen, test weight, and strong yield
- Excellent drydown; nice ear size and height, open husk
- Solid agronomics overall including very good vigor and stalks



Relative Maturity

**77**

Days




GRAIN CORN

**TH7677 VT2P BRAND**

Flowering: med-late ▼ CHU's Black Layer 2175

- Very good roots support very good yields
- Excellent staygreen and fall appearance
- Target lighter soils and harvest timely to maximize yield potential



PRODUCT	TRAIT	MATURITY	FLOWERING	CHU'S TO BLACK LAYER	PLANT HEIGHT	EAR HEIGHT	EAR TYPE	PLANTING RATE	KERNEL ROWS	SEEDLING VIGOR	ROOT RATING	STALK RATING	DROUGHT TOL.	GREENSNAP	STAYGREEN	DRYDOWN	TEST WEIGHT	GOSS'S WILT	NCLB	STALK ANTHRACNOSE	COMMON RUST	SILAGE POTENTIAL	TOUGH CONDITIONS	VARIABLE CONDITIONS	IDEAL CONDITIONS	HERBICIDE SENSITIVITY
TH4072 RR	RR	72	medium	2025	M	M	SD	MH-H	14-16	2.0	2.0	2.5	2.5	2.5	2.5	2.0	2.0	2.5	3.5	2.5	N/A	4.0	3	2	2	ok
TH6875 VT2P	VT2P	75	late	2100	MT	M	SD	MH	14-16	2.0	3.0	2.0	3.0	3.0	1.0	1.0	2.0	3.5	3.0	N/A	N/A	2.0	3	2	1	C (grp2)
TH7677 VT2P	VT2P	77	med-late	2175	M	M	SD	MH	14-16	2.0	2.0	3.0	3.0	3.0	1.0	3.0	3.0	4.0	2.0	N/A	2.0	3.0	3	2	2	ok





# 2021 SEED GUIDE - GRAIN CORN

Relative Maturity

77

Days



GRAIN CORN

## TH6977 VT2P BRAND

Flowering: med-early ▼ CHU's Black Layer 2175

- Medium height with great agronomics; performs best in the west
- Good Goss's Wilt and NCLB tolerance
- Good yield stability across variable soils

VTDoublePRO<sup>®</sup>  
RIB COMPLETE

Relative Maturity

78

Days



GRAIN CORN

## TH7578 VT2P BRAND

Flowering: med-early ▼ CHU's Black Layer 2225

- Proven standout with strong performance across various environments
- Excellent roots and staygreen provide nice fall appearance
- Extremely reliable hybrid with great drydown

VTDoublePRO<sup>®</sup>  
RIB COMPLETE

Relative Maturity

79

Days



GRAIN CORN

## TH6079 VT2P BRAND

Flowering: early ▼ CHU's Black Layer 2250

- Super early flowering hybrid with solid agronomics
- Great yield potential; east to west across tough, variable, and ideal conditions
- Plant MH-H population in maturity zone for best performance

VTDoublePRO<sup>®</sup>  
RIB COMPLETE

PRODUCT	TRAIT	MATURITY	FLOWERING	CHU'S TO BLACK LAYER	PLANT HEIGHT	EAR HEIGHT	EAR TYPE	PLANTING RATE	KERNEL ROWS	SEEDLING VIGOR	ROOT RATING	STALK RATING	DROUGHT TOL.	GREENSNAP	STAYGREEN	DRYDOWN	TEST WEIGHT	GOSS'S WILT	NCLB	STALK ANTHRACNOSE	COMMON RUST	SILAGE POTENTIAL	TOUGH CONDITIONS	VARIABLE CONDITIONS	IDEAL CONDITIONS	HERBICIDE SENSITIVITY
TH6977 VT2P	VT2P	77	med-early	2175	M	M	SD	MH	12-14	3.0	2.0	2.0	2.0	2.0	3.0	2.0	3.0	2.5	2.0	3.0	N/A	4.0	1	1	2	ok
TH7578 VT2P	VT2P	78	med-early	2225	MT	MH	SF	MH	14-16	2.0	1.0	2.0	2.0	3.0	1.0	2.0	3.0	3.0	2.0	N/A	2.0	2.0	2	2	2	ok
TH6079 VT2P	VT2P	79	early	2250	M	M	SD	MH	14-16	2.0	2.0	2.0	2.5	2.5	2.0	3.5	2.5	3.0	2.5	3.0	N/A	4.0	2	1	1	ok

TECHNOLOGY



— Relative Maturity —

**81**

Days

GRAIN CORN

**TH6081 3220 BRAND**

Flowering: medium ▼ CHU's Black Layer 2350

- Showy medium-tall plant with great yield potential
- Quick emergence, strong vigor, and early flowering
- Excellent response to productive soils and good fertility

3220 E-Z Refue

— Relative Maturity —

**81**

Days

GRAIN CORN

**TH2081 CONV BRAND**

Flowering: medium ▼ CHU's Black Layer 2350

- Showy medium-tall plant with great yield potential
- Quick emergence, strong vigor, and early flowering
- Excellent response to productive soils and good fertility

— Relative Maturity —

**82**

Days

GRAIN CORN

**NEW TH6182 VT2P BRAND**

Flowering: early ▼ CHU's Black Layer 2400

- Elite hybrid with excellent yields and drought stress tolerance
- Quick start in spring with great emergence and vigor
- Very good Goss's Wilt tolerance; good staygreen and drydown in fall

RIB COMPLETE

PRODUCT	TRAIT	MATURITY	FLOWERING	CHU'S TO BLACK LAYER	PLANT HEIGHT	EAR HEIGHT	EAR TYPE	PLANTING RATE	KERNEL ROWS	SEEDLING VIGOR	ROOT RATING	STALK RATING	DROUGHT TOL.	GREENSNAP	STAYGREEN	DRYDOWN	TEST WEIGHT	GOSS'S WILT	NCLB	STALK ANTHRACNOSE	COMMON RUST	SILAGE POTENTIAL	TOUGH CONDITIONS	VARIABLE CONDITIONS	IDEAL CONDITIONS	HERBICIDE SENSITIVITY
TH6081 3220	3220	81	medium	2350	MT	MH	SF	M-MH	16-18	2.0	2.5	1.5	3.0	2.0	2.0	2.5	2.0	2.5	1.5	N/A	2.0	2.5	3	2	1	ok
TH2081 CONV	conv	81	medium	2350	MT	MH	SF	M-MH	16-18	2.0	2.5	1.5	3.0	2.0	2.0	2.5	2.0	2.5	1.5	N/A	2.0	2.5	3	2	1	ok
NEW TH6182 VT2P	VT2P	82	early	2400	MT	M	SF	M-MH	16-18	2.0	2.5	2.5	2.5	2.0	2.5	2.5	2.5	2.0	2.0	2.0	N/A	2.5	2	1	1	ok



# 2021 SEED GUIDE - GRAIN CORN

Relative Maturity

82

Days



GRAIN CORN

## TH6982 VT2P BRAND

Flowering: early ▼ CHU's Black Layer 2425

- Excellent grain yields; combines great test weight and fast drydown
- Terrific disease package including good Goss's Wilt tolerance
- Plant on productive soils at higher population for best performance

VTDoublePRO<sup>®</sup>  
RIB COMPLETE

Relative Maturity

85

Days



GRAIN CORN

## NEW TH6185 VT2P BRAND

Flowering: medium ▼ CHU's Black Layer 2550

- Strong yields; very stable in tough env with great drought tolerance
- Medium-tall plant with girthy ears, some flex, and good kernel depth
- Full 85 day hybrid so place in southern RRV & use caution based on maturity

VTDoublePRO<sup>®</sup>  
RIB COMPLETE

PRODUCT	TRAIT	MATURITY	FLOWERING	CHU'S TO BLACK LAYER	PLANT HEIGHT	EAR HEIGHT	EAR TYPE	PLANTING RATE	KERNEL ROWS	SEEDLING VIGOR	ROOT RATING	STALK RATING	DROUGHT TOL.	GREENSNAP	STAYGREEN	DRYDOWN	TEST WEIGHT	GOSS'S WILT	NCLB	STALK ANTHRACNOSE	COMMON RUST	SILAGE POTENTIAL	TOUGH CONDITIONS	VARIABLE CONDITIONS	IDEAL CONDITIONS	HERBICIDE SENSITIVITY
TH4072 RR	RR	72	medium	2025	M	M	SD	MH-H	14-16	2.0	2.0	2.5	2.5	2.5	2.5	2.0	2.0	2.5	3.5	2.5	N/A	4.0	3	2	2	ok
TH6875 VT2P	VT2P	75	late	2100	MT	M	SD	MH	14-16	2.0	3.0	2.0	3.0	3.0	1.0	1.0	2.0	3.5	3.0	N/A	N/A	2.0	3	2	1	C (grp2)
TH7677 VT2P	VT2P	77	med-late	2175	M	M	SD	MH	14-16	2.0	2.0	3.0	3.0	3.0	1.0	3.0	3.0	4.0	2.0	N/A	2.0	3.0	3	2	2	ok
TH6977 VT2P	VT2P	77	med-early	2175	M	M	SD	MH	12-14	3.0	2.0	2.0	2.0	2.0	3.0	2.0	3.0	2.5	2.0	3.0	N/A	4.0	1	1	2	ok
TH7578 VT2P	VT2P	78	med-early	2225	MT	MH	SF	MH	14-16	2.0	1.0	2.0	2.0	3.0	1.0	2.0	3.0	3.0	2.0	N/A	2.0	2.0	2	2	2	ok
TH6079 VT2P	VT2P	79	early	2250	M	M	SD	MH	14-16	2.0	2.0	2.0	2.5	2.5	2.0	3.5	2.5	3.0	2.5	3.0	N/A	4.0	2	1	1	ok
TH6081 3220	3220	81	medium	2350	MT	MH	SF	M-MH	16-18	2.0	2.5	1.5	3.0	2.0	2.0	2.5	2.0	2.5	1.5	N/A	2.0	2.5	3	2	1	ok
TH2081 CONV	conv	81	medium	2350	MT	MH	SF	M-MH	16-18	2.0	2.5	1.5	3.0	2.0	2.0	2.5	2.0	2.5	1.5	N/A	2.0	2.5	3	2	1	ok
NEW TH6182 VT2P	VT2P	82	early	2400	MT	M	SF	M-MH	16-18	2.0	2.5	2.5	2.5	2.0	2.5	2.5	2.5	2.0	2.0	2.0	N/A	2.5	2	1	1	ok
TH6982 VT2P	VT2P	82	early	2425	M	ML	SD	MH-H	14-16	3.0	1.0	2.0	3.0	1.0	4.0	1.0	1.0	3.0	2.0	N/A	3.0	4.0	3	2	1	ok
NEW TH6185 VT2P	VT2P	85	medium	2550	MT	MH	SF	M-MH	18-20	2.5	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.5	3.0	N/A	N/A	1	1	2	ok



# If you only see one... It's already too late.

Protect your crop with Agrisure Viptera® – the only trait that provides effective control of western bean cutworm. It also protects the crop from key insects like corn earworm, cutworm and armyworm, for the most comprehensive above-ground insect control available.

Discover why Agrisure Viptera is worth a closer look at [Syngenta.ca/Agrisure-Viptera](https://Syngenta.ca/Agrisure-Viptera).

 **Agrisure Viptera®**

**syngenta**

**Always read and follow label directions.** Agrisure Viptera®, the Alliance Frame, the Purpose Icon and the Syngenta logo are trademarks of a Syngenta Group Company. © 2020 Syngenta.

Rating	Plant Height		Ear Height		Ear Type		Planting Rate		Herbicide Sensitivity		Growing Conditions	
1 Excellent	S	Short	L	Low	D	Determinate	ML	Medium Low	C	Caution	Tough	low yield env (below 140 bu/ac)
2 Very Good	MS	Medium Short	ML	Medium Low	SD	Semi-Determinate	M	Medium	W	Warning (do not use)	Variable	moderate yield env (140-180 bu/ac)
3 Good	M	Medium	M	Medium	SF	Semi-Flex	MH	Medium High	grp4	Group 4: growth regulator	Ideal	high yield env (above 180 bu/ac)
4 Below Average	MT	Medium Tall	MH	Medium High	F	Flex	H	High	grp2	Group 2: SU/ALS inhibitor		
5 Poor	T	Tall	H	High					grp27	Group 27: HPPD inhibitor		

RR - Roundup Ready® Corn 2 | VT2PRIB - VT Double PRO® RIB Complete® Corn Blend | CONV - Conventional Thunder Seed Variety



## 2021 SEED GUIDE - SILAGE CORN

# SILAGE CORN

We recognize that many of the characteristics desired in a silage corn are different than the characteristics desired in a grain corn. Ultimately, a silage hybrid must produce a robust, reliable, digestible crop that will yield lots of tonnage with high quality and high energy content. Thunder Seed can provide all of this to you through our silage products.





TECHNOLOGY




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— Relative Maturity —

75

Days



SILAGE CORN

TH6875 VT2P BRAND

- Attractive plant with great staygreen and test weight
- Nice ear size and plant height adds to silage yield potential
- Solid agronomics overall including very good vigor and stalks



— Relative Maturity —

76

Days



SILAGE CORN

TH4076 HDRR BRAND

- High-Digestibility hybrid bred specifically for silage and grazing
- Slower drydown provides longer chopping window
- Combines tonnage with total plant digestibility



— Relative Maturity —

78

Days



SILAGE CORN

TH7578 VT2P BRAND

- Proven standout with strong performance across various environments
- Excellent roots, staygreen, and plant health
- Extremely reliable hybrid with good silage potential



PRODUCT

TRAIT

MATURITY

FLOWERING

CHU'S TO  
BLACK LAYER

PLANT HEIGHT

EAR HEIGHT

EAR TYPE

PLANTING RATE

KERNEL ROWS

SEEDLING VIGOR

ROOT RATING

STALK RATING

DROUGHT TOL.

GREENSNAP

STAYGREEN

DRYDOWN

TEST WEIGHT

GOSS'S WILT

NCLB

COMMON RUST

SILAGE POTENTIAL

TOUGH CONDITIONS

VARIABLE CONDITIONS

IDEAL CONDITIONS

HERBICIDE SENSITIVITY

TH6875 VT2P	VT2P	75	late	2100	MT	M	SD	MH	14-16	2.0	3.0	2.0	3.0	3.0	1.0	1.0	2.0	3.5	3.0	N/A	2.0	3	2	1	C (grp2)
TH4076 HDRR	RR	76	medium	2150	MT	M	SF	M	14-16	2.0	1.0	3.0	2.0	2.0	2.0	4.0	3.0	N/A	2.0	2.5	1.5	2	2	2	ok
TH7578 VT2P	VT2P	78	med-early	2225	MT	MH	SF	MH	14-16	2.0	1.0	2.0	2.0	3.0	1.0	2.0	3.0	3.0	2.0	2.0	2.0	2	2	2	ok

CANADIAN SILAGE CORN


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# 2021 SEED GUIDE - SILAGE CORN



Relative Maturity


**79**

Days

SILAGE CORN

**TH4126 RR BRAND**

- Quick out of the ground and great seedling vigor
- Great yield, grain quality, and digestibility
- Flint/dent hybrid sets kernel quickly but drydown is slower





Relative Maturity

**79**

Days

SILAGE CORN

**TH4126 CONV BRAND**

- Quick out of the ground and great seedling vigor
- Great yield, grain quality, and digestibility
- Flint/dent hybrid sets kernel quickly but drydown is slower



Relative Maturity

**80**

Days

SILAGE CORN

**NEW TH6180 VT2P BRAND**

- Great silage and grazing hybrid with corn borer protection
- Good quality, yield, and digestibility across wide range of environments
- Solid agronomics and nice flint/dent kernels allow slower drydown



PRODUCT	TRAIT	MATURITY	FLOWERING	CHU'S TO BLACK LAYER	PLANT HEIGHT	EAR HEIGHT	EAR TYPE	PLANTING RATE	KERNEL ROWS	SEEDLING VIGOR	ROOT RATING	STALK RATING	DROUGHT TOL.	GREENSNAP	STAYGREEN	DRYDOWN	TEST WEIGHT	GOSS'S WILT	NCLB	COMMON RUST	SILAGE POTENTIAL	TOUGH CONDITIONS	VARIABLE CONDITIONS	IDEAL CONDITIONS	HERBICIDE SENSITIVITY
TH4126 RR	RR	79	medium	2250	MT	M	SF	MH	12-16	2.0	2.0	2.0	3.0	2.0	2.0	4.0	2.0	N/A	N/A	N/A	2.0	2	2	2	ok
TH4126 CONV	conv	79	medium	2250	MT	M	SF	MH	12-16	2.0	2.0	2.0	3.0	2.0	2.0	4.0	2.0	N/A	N/A	N/A	2.0	2	2	2	ok
NEW TH6180 VT2P	VT2P	80	medium	2300	T	M	SF	MH	14-16	2.0	2.0	2.0	2.5	2.0	2.0	4.0	2.0	N/A	N/A	N/A	2.0	2	2	2	ok

TECHNOLOGY




2

Relative Maturity

81

Days



SILAGE CORN

TH7681 VT2P BRAND

- Very good grain yield adds to silage quality
- Ideal for highly productive fields; strong and steady growth
- Great agronomics including excellent staygreen; good for silage or grazing



Relative Maturity

83

Days



SILAGE CORN

NEW TH6183 VT2P BRAND

- Outstanding silage hybrid with huge height and plant stature
- Big flex ears that have good tolerance to higher populations
- Good staygreen and average drydown widens chopping window



Relative Maturity

88

Days



SILAGE CORN

TH4188 RR BRAND

- Good silage or grazing option across variable conditions
- Great stalks on medium-tall plant
- Very good palatability



PRODUCT	TRAIT	MATURITY	FLOWERING	CHU'S TO BLACK LAYER	PLANT HEIGHT	EAR HEIGHT	EAR TYPE	PLANTING RATE	KERNEL ROWS	SEEDLING VIGOR	ROOT RATING	STALK RATING	DROUGHT TOL.	GREENSNAP	STAYGREEN	DRYDOWN	TEST WEIGHT	GOSS'S WILT	NCLB	COMMON RUST	SILAGE POTENTIAL	TOUGH CONDITIONS	VARIABLE CONDITIONS	IDEAL CONDITIONS	HERBICIDE SENSITIVITY
TH7681 VT2P	VT2P	81	medium	2375	T	MH	SD	MH-H	14-16	2.0	3.0	2.0	3.0	N/A	1.0	2.0	2.0	4.0	N/A	N/A	2.5	3	2	1	ok
NEW TH6183 VT2P	VT2P	83	medium	2450	T	MH	SF	M-MH	14-16	2.0	2.0	3.0	2.5	2.5	2.0	3.5	3.0	3.0	2.0	N/A	1.5	2	1	1	ok
TH4188 RR	RR	88	med-late	2675	MT	M	SF	M	12-14	2.0	3.0	2.0	2.5	N/A	3.0	2.5	2.0	3.5	N/A	N/A	2.0	2	2	2	ok

CANADIAN SILAGE CORN

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# Think Before You Bin-Run

**Verification Required** The last patent on the original Roundup Ready® soybean trait expired a few years ago and U.S. farmers may legally plant saved seed from some varieties of soybean containing the Roundup Ready® soybean trait. However, it is important that you check with your seed supplier to determine if a specific Roundup Ready® soybean variety is covered by other intellectual property rights, and if so, the policy for saving seed of that variety.

**Higher Seeding Rate** A higher seeding rate may be required for bin-run Roundup Ready® soybeans compared to new branded seed.

**Yield Loss** Roundup Ready 2 Yield® soybean varieties and Roundup Ready 2 Xtend® soybean varieties typically have a higher yield opportunity than Roundup Ready® soybean varieties\*.

**Cleanout Loss** Loss of seed and/or shrink occurs during the seed cleaning and handling processes for bin-run seed.

**Seed Treatment Costs** Treating your seed will add costs—both the cost of the treatment and the application of that treatment.

**Lost Income** Every bushel of saved seed you plant is a bushel you're not selling as commodity grain.

**Increased Seed Management** If you plan to save and bin-run Roundup Ready® soybeans for planting, you will have to manage your harvest operations and grain storage so that the seed isn't co-mingled with other seed that's covered by intellectual property rights.

## High Value of New Branded Seed

### Latest Technology

- High-yielding soybean technologies
- Better variety options
- Leading seed treatment options

### Customer Service

- Dealer agronomic support before and after the sale
- Replant policy support
- Convenient packaging and delivery

### Reliable Germination and Quality

- Rigorously tested and meets U.S. Federal Seed Act requirements
- Free of seed-borne diseases
- Properly stored and conditioned



You're buying more than just seed. You're getting value today and innovation for tomorrow.  
COMMITMENT. INNOVATION. PERFORMANCE.

**Bayer receives call and letters each year about potential seed compliance matters. Anyone with a concern or question can anonymously call 1-888-283-6847.**

\*Roundup Ready 2 Yield® soybeans and Roundup Ready 2 Xtend® soybeans are covered by different patents than original Roundup Ready® soybeans and cannot be saved and planted.

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. These products have been approved for import into key export markets with functioning regulatory systems. Any crop or material produced from these products 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 these products. Excellence Through Stewardship® is a registered trademark of Excellence Through Stewardship.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Roundup Ready 2 Xtend® soybeans contains genes that confer tolerance to glyphosate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Contact your local crop protection dealer or call the technical support line at 1-888-283-6847 recommended Roundup Ready® Xtend Crop System weed control programs. Roundup Ready 2 Xtend® and Roundup Ready® are registered trademarks of Bayer Group.



# YOUR FIELD. YOUR CHOICE.

## Our corn traits are built with farmers in mind and proven in the fields.

That's why there's no better choice than SmartStax® RIB Complete® corn for acres with above and below ground insect pressure, and VT Double PRO® RIB Complete® corn for acres with above ground pressure. **Our corn traits deliver:**

**SmartStax®**  
RIB COMPLETE®

**VT Double PRO®**  
RIB COMPLETE®

REFUGE COMPLIANCE	100%	100%
ABOVE-GROUND PROTECTION	✓ broadest spectrum	✓
BELOW-GROUND PROTECTION	✓ broadest spectrum	
REFUGE	5% in the bag	5% in the bag
HERBICIDE TOLERANCE	Roundup Ready® 2 Technology + LibertyLink®	Roundup Ready® 2 Technology

Learn more at [Traits.bayer.ca](https://Traits.bayer.ca)



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## 2021 SEED GUIDE - SOYBEAN

# SOYBEANS

The large selection of soybeans means that we are able to accommodate your soil's needs and provide disease and pest protection for maximum yields. Our lineup includes Roundup Ready 2 Yield, Roundup Ready 2 Xtend, and Enlist E3 providing high level of tolerance a broad range of herbicides able to address any weed problems you may have in your fields.





Relative Maturity

# 00.3


SOYBEAN

## TH 33003R2Y BRAND

IDC 1.9  
PRR 1c

- High yields with excellent pod set
- Upright plant with great pod height
- Good emergence and IDC





Relative Maturity


# 00.4


SOYBEAN

## TH 32004R2Y BRAND

IDC 1.9  
PRR 1c

- Proven consistent performer
- Good standability in all row spacings
- Great IDC tolerance





Relative Maturity


# 00.8

SOYBEAN

## ASTRO R2 BRAND

IDC 1.8  
PRR 1k

- Tall aggressive plant with high first-pod height
- First choice by many in longer season area
- Excellent top yield, stability, and white mold tolerance




Product	Trait	Maturity	CHU	Emergence	Standability	IDC	SCN	Phytophthora Gene	Phytophthora Field Tolerance	White Mold	Plant Type	Plant Height	Flower Color	Pod Color	Hilum Color	Pubescence Color
TH 33003R2Y	RR2Y	00.3	2375	1.7	2.2	1.9	S	1c	N/A	N/A	Thin	M	P	BR	BR	T
TH 32004R2Y	RR2Y	00.4	2400	1.7	2.2	1.9	S	1c	2.3	2.2	Intermediate	M	P	BR	BL	T
ASTRO R2	RR2Y	00.8	2500	1.5	2.2	1.8	S	1k	2.3	1.5	Intermediate	T	P	BR	BL	T





# 2021 SEED GUIDE - SOYBEAN



Relative Maturity

**00.3**

SOYBEAN

**TH 87003 R2X BRAND**

IDC 1.7  
 PRR 1c

- Tall, aggressive, and impressive variety
- Excellent yields consistently across zones and soil types
- Great IDC, SCN and disease package

ROUNDUP READY 2  
**XTEND**  
 SOYBEANS



Relative Maturity

**00.4**


SOYBEAN

**TH89004 R2X BRAND**

IDC 1.7  
 PRR 1c

- Medium-tall plant widely adaptable across broad geography
- Good performance in heavy soils and moves west very well
- Great defense against IDC and PRR

ROUNDUP READY 2  
**XTEND**  
 SOYBEANS



Relative Maturity

**00.5**

SOYBEAN

**TH 88005R2XN BRAND**

IDC 1.8  
 PRR 1c

- Tall attractive plant with good standability and pod height
- Strong emergence followed by strong yield potential
- Great overall defense package; including brown stem rot resistance

ROUNDUP READY 2  
**XTEND**  
 SOYBEANS

Product	Trait	Maturity	CHU	Emergence	Standability	IDC	SCN	Phytophthora Gene	Phytophthora Field Tolerance	White Mold	Plant Type	Plant Height	Flower Color	Pod Color	Hilum Color	Pubescence Color
TH 87003 R2X	Xtend	00.3	2375	1.5	2.2	1.7	R	1c	1.9	2.2	Intermediate	T	P	BR	BL	T
TH89004 R2X	Xtend	00.4	2400	1.7	2.2	1.7	S	1c	1.7	2.2	Thin/Intermediate	MT	P	BR	BR	T
TH 88005R2XN	Xtend	00.5	2425	1.6	2.0	1.8	R	1c	1.8	2.0	Intermediate	T	P	LB	BL	T

— Relative Maturity —

**00.7**

SOYBEAN

**NEW TH81007 R2XN BRAND**

IDC 1.8  
PRR Het 1c

- Complete combination of yield, agronomics, and disease defense
- Nice medium-tall plant with good width to fill the rows
- Excellent IDC and PRR field tolerance in addition to SCN resistance

ROUNDUP READY 2  
**XTEND**  
SOYBEANS

— Relative Maturity —

**00.7**

SOYBEAN

**TH 88007R2X BRAND**

IDC 2.0  
PRR 1c

- Top yielding variety
- Big plant with lots of lateral branches; good choice for wider rows
- Great emergence and pod height

ROUNDUP READY 2  
**XTEND**  
SOYBEANS

— Relative Maturity —

**00.9**

SOYBEAN

**TH89009 R2XN BRAND**

IDC 1.5  
PRR 1k

- Taller bushy variety with top end yield
- Excellent IDC tolerance and SCN resistance
- Great disease defense against PRR and white mold

ROUNDUP READY 2  
**XTEND**  
SOYBEANS

Product	Trait	Maturity	CHU	Emergence	Standability	IDC	SCN	Phytophthora Gene	Phytophthora Field Tolerance	White Mold	Plant Type	Plant Height	Flower Color	Pod Color	Hilum Color	Pubescence Color
NEW TH81007 R2XN	Xtend	00.7	2475	1.5	2.0	1.8	R	Het 1c	1.3	2.0	Intermediate/Bushy	MT	P	BR	BR	T
TH 88007R2X	Xtend	00.7	2475	1.5	2.3	2.0	S	1c	1.9	2.5	Intermediate/Bushy	M	P	BR	BL	T
TH89009 R2XN	Xtend	00.9	2525	1.7	2.0	1.5	R	1k	1.4	2.2	Intermediate/Bushy	MT	P	BR	BL	T



# 2021 SEED GUIDE - SOYBEAN

— Relative Maturity —

**00.1**

SOYBEAN

TH71001E BRAND

IDC 2.4

- Super early Enlist E3 soybean provides new tool for controlling volunteer canola
- Medium plant height and intermediate plant type is a good fit for narrow rows
- Target medium textured soils and high population for best performance

— Relative Maturity —

**00.9**

SOYBEAN

TH79009E BRAND

IDC 1.9  
PRR 1c

- Strong performance west to east across region
- Good plant type across varying conditions
- Great standability and IDC tolerance

Product	Trait	Maturity	CHU	Emergence	Standability	IDC	SCN	Phytophthora Gene	Phytophthora Field Tolerance	White Mold	Plant Type	Plant Height	Flower Color	Pod Color	Hilum Color	Pubescence Color
NEW TH71001E	Enlist E3	00.1	2325	1.5	1.5	2.4	S	-	2.2	N/A	Intermediate	M	P	BR	Y	G
TH79009E	Enlist E3	00.9	2525	1.5	1.7	1.9	S	1c	2.1	2.2	Intermediate	M	P	LB	BF	G





# 2021 SEED GUIDE - SOYBEANS

## AGRONOMIC INFORMATION GUIDE

Product	Trait	Maturity	CHU	Emergence	Standability	IDC	SCN	Phytophthora Gene	Phytophthora Field Tolerance	White Mold	Plant Type	Plant Height	Flower Color	Pod Color	Hilum Color	Pubescence Color
TH 33003R2Y	RR2Y	00.3	2375	1.7	2.2	1.9	S	lc	N/A	N/A	Thin	M	P	BR	BR	T
TH 32004R2Y	RR2Y	00.4	2400	1.7	2.2	1.9	S	lc	2.3	2.2	Intermediate	M	P	BR	BL	T
ASTRO R2	RR2Y	00.8	2500	1.5	2.2	1.8	S	lk	2.3	1.5	Intermediate	T	P	BR	BL	T
TH 87003 R2X	Xtend	00.3	2375	1.5	2.2	1.7	R	lc	1.9	2.2	Intermediate	T	P	BR	BL	T
TH89004 R2X	Xtend	00.4	2400	1.7	2.2	1.7	S	lc	1.7	2.2	Thin/Intermediate	MT	P	BR	BR	T
TH 88005R2XN	Xtend	00.5	2425	1.6	2.0	1.8	R	lc	1.8	2.0	Intermediate	T	P	LB	BL	T
NEW TH81007 R2XN	Xtend	00.7	2475	1.5	2.0	1.8	R	Het lc	1.3	2.0	Intermediate/Bushy	MT	P	BR	BR	T
TH 88007R2X	Xtend	00.7	2475	1.5	2.3	2.0	S	lc	1.9	2.5	Intermediate/Bushy	M	P	BR	BL	T
TH89009 R2XN	Xtend	00.9	2525	1.7	2.0	1.5	R	lk	1.4	2.2	Intermediate/Bushy	MT	P	BR	BL	T
NEW TH71001E	Enlist E3	00.1	2325	1.5	1.5	2.4	S	-	2.2	N/A	Intermediate	M	P	BR	Y	G
TH79009E	Enlist E3	00.9	2525	1.5	1.7	1.9	S	lc	2.1	2.2	Intermediate	M	P	LB	BF	G

RR2Y - Roundup Ready 2 Yield® Soybeans | Xtend - Roundup Ready 2 Xtend® Soybeans | Enlist E3 - Enlist E3® Soybeans

RATING: 1 | EXCELLENT 2 | VERY GOOD 3 | GOOD 4 | BELOW AVERAGE 5 | POOR

PLANT HEIGHT: S | SHORT MS | MEDIUM SHORT M | MEDIUM MT | MEDIUM TALL T | TALL

## QUICK REFERENCE GUIDE

### 1. Field Selection/Crop Rotation

- a. No restrictions
- b. Avoid high-trash cover field (i.e., winter wheat)

### 2. Herbicide Residual Problems

- a. Mostly Lontrel types
- b. Minor problems with muster

### 3. Variety

- a. Earlier type and very light sensitive
- b. Strong germinator with good vigor

### 4. Inoculants

- a. 30-day liquid on seed
- b. 5-8 pounds/acre granular inoculant
- c. Use higher rates on virgin or cooler, minimum-tillage soils

### 5. Seed Treatments

- a. Only CruiserMaxx® Vibrance®

### 6. Fertility

- a. No nitrogen at all
- b. 0-40 pounds of phosphate depending on seed placement
- c. 0-60 pounds of potash broadcast (usually none is required)

### 7. Seeding Date

- a. Ideal: May 10-May 25
- b. Possible: May 1-June 10
- c. Seed when soils are warming up

### 8. Seeding Rate

- a. Solid Seeding 200,000-220,000 seeds/acre
- b. Row crop 170,000-190,000 seeds/acre

### 9. Herbicide Program

Roundup®:

- a. Higher rates if needed
- b. Any time up to flowering

Volunteer Canola:

- c. Cut rate of Pursuit®
- d. Pre-emerge burn off
- e. Reflex®
- f. Valtera™
- g. Basagran®
- h. Viper

### 10. Insects

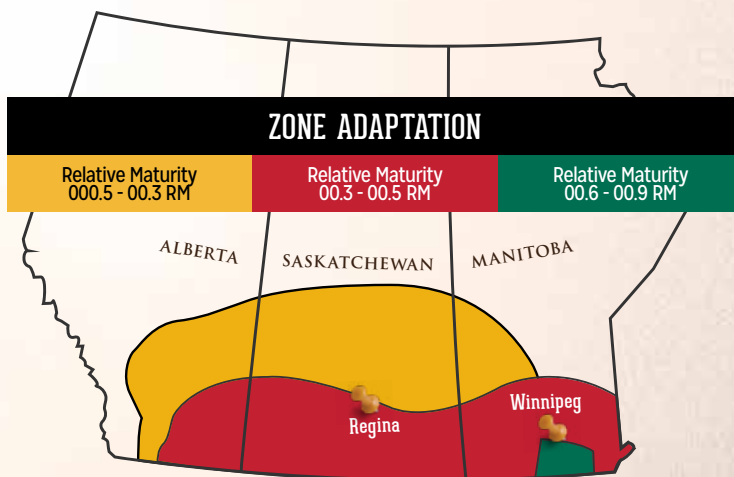
- a. Soybean Aphids: Until recently only an occasional problem in Red River Valley, easy to kill and rarely a problem in the west
- b. Spider Mites: Very rare in the valley

### 11. Disease

- a. Root Born: most varieties have reasonable tolerance
- CruiserMaxx® Vibrance® Fungicide seed treatment and crop rotation help
- b. Foliar Diseases: Most disease results in minor yield losses
- Sclerotinia can cause moderate reduction in yield
- New seed treatment, crop rotation, crop spacing and lighter seeding rates can help combat the problem

### 12. Harvest

- a. Best method is straight combining with a flex header
- b. Swathing
- c. No need to desiccate
- d. Dry is 13-13.5 percent moisture



### 13. Storage

- a. Keeps well, especially if sample is clean
- b. Tough beans dry down easily with aeration

### 14. Marketing

- a. Easy and flexible in the Red River Valley
- b. Getting a lot better outside the Red River Valley
- c. Main line grain elevators, smaller grain brokers and small processors
- d. Hedging up to three years

### 15. Grading

- a. Very easy
- b. Much lower chance of downgrades
- c. Cracked beans are usually not dockage
- d. Lower dockage

### 16. Revenue/Cost

- a. Lower cost/acre than Canola
- b. Revenue depends more on moisture for the area
- c. Yield:
  - Dry conditions 20-25 bushels/acre
  - Moist conditions 30-55 bushels/acre

# THE SOYBEAN SYSTEM YOU CAN'T RESIST

The Roundup Ready® Xtend crop system combines the high yield potential of Roundup Ready 2 Xtend® soybeans with built-in tolerance to both glyphosate and dicamba chemistries.

Applying the higher rate Roundup Xtend® in your first pass provides short-term residual activity on small seeded broadleaves\* with the added ability to effectively manage resistance concerns.

**EARLY SEASON CONTROL TO GET AHEAD  
OF THE WEEDS AND STAY THERE.**

[traits.bayer.ca](https://traits.bayer.ca) »

\*Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

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**ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS.** Roundup Ready 2 Xtend® soybeans contains genes that confer tolerance to glyphosate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Contact your local crop protection dealer or call the technical support line at 1-800-667-4944 for recommended Roundup Ready® Xtend Crop System weed control programs. Roundup Ready 2 Xtend®, Roundup Ready®, Roundup Xtend® and VaporGrip® are registered trademarks of Bayer Group. Used under license. ©2020 Bayer Group. All rights reserved.



**ROUNDUP READY®**  
**X<sup>TEND</sup>**  
CROP SYSTEM

**ROUNDUP READY 2**  
**X<sup>TEND</sup>**  
SOYBEANS

**+** **Roundup**  
**X<sup>TEND</sup>**  
VaporGrip<sup>®</sup>  
Technology

Dicamba and  
Glyphosate Pre-mix



## The Enlist™ weed control system will change how you think about weed management in soybeans.

Farmers can NOW purchase Enlist E3™ varieties for Western Canada and take control of resistant and hard-to-control weeds.

### Introducing the Enlist weed control system

The Enlist weed control system will help growers meet the challenge of farming today and in the future.

#### Why use the Enlist weed control system?

- A new system built for Canadian farmers starting with new traits providing herbicide tolerance in soybeans and corn
- Herbicide solutions built on 2,4-D Choline, an improved form of 2,4-D with new Colex-D™ technology
- Includes a stewardship initiative that supports the use of multiple modes of action to address resistant weeds, provides training, and promotes responsible and sustainable use

### Enlist E3™ Soybeans

Enlist E3 soybeans provide elite, soybean genetics with high yield potential and industry leading multi-mode of action herbicide tolerance.

#### Why use Enlist E3 soybeans?

- Enlist E3 soybeans are tolerant to 2,4-D, glyphosate and glufosinate herbicides
- Crop tolerance to Enlist herbicides with Colex-D technology is robust, enabling applications up to the R2 growth stage
- With tolerance to 3 different herbicide modes of action, Enlist E3 soybeans are part of a strong resistance management strategy
- A program approach including other herbicide modes of action and residual herbicides provides an even more sustainable approach to weed management

### Enlist Duo™ herbicides with Colex-D technology

The Enlist weed control system gives you the choice of Enlist herbicides with Colex-D technology.

#### Enlist Duo™



Convenient proprietary blend of 2, 4-D choline and glyphosate.

Convenience of both 2,4-D choline and glyphosate in one formulation - controls more than 90 weeds including grasses and many hard-to-control and resistant weeds.

#### New Enlist™ 1



Stand-alone 2,4-D choline with tank-mix flexibility.

New Enlist 1 is a stand-alone Colex-D formulation that controls over 40 broadleaf weeds. It gives you the flexibility to tank-mix with and adjust rates of glyphosate or glufosinate to control a wide range of hard to control and resistant weeds.

COLEX•D™ technology			
WHAT GOES INTO IT			
2,4-D choline with Colex-D Technology	Latest formulation science	Proprietary manufacturing process	
WHAT IT DELIVERS			
Near zero volatility	Minimized potential for physical drift	Low odour	Improved handling characteristics



# Application Requirements



## NOZZLES

Use nozzles and operating pressures that produce extremely coarse to ultra-coarse droplets to minimize drift



## WIND SPEED

Optimal wind speeds for application typically occur between 5 and 15 km/h



## WATER VOLUME

Minimum carrier volume is 10 GPA (15 GPA is recommended when using a DRA)



## BOOM HEIGHT

Maintain boom height 50 cm above crop canopy to reduce the risk of drift



## LABEL BUFFER

Maintain the required label buffer to protect sensitive areas



## AMMONIUM SULFATE

Ammonium sulfate and ammonium-based additives are restricted in applications



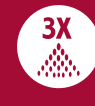
## WEED HEIGHT

Spray weeds less than 10 cm tall



## GROUND SPEEDS

Make sure ground speed is less than 25 km/h



## TRIPLE RINSE

Use triple rinse tank clean-out procedure

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**ROUNDUP READY®**  
**X TEND**  
CROP SYSTEM

# STAY INFORMED WHILE YOU *grow*

Text **THUNDERSEED** to **25827** to join our text club to stay up to date on current information!

/ThunderSeedInc

@thunder\_seed

/thunder\_seed

From our website to social media pages, we offer several resources for you to stay connected with us. Through these channels, you'll have the agronomic insight you need on new seed varieties, treatments and techniques to maximize yield potential.

Be sure to join us around the cyber tailgate! Stay connected with us on Facebook, Twitter and Instagram and check out our videos on YouTube. You can easily access any of our social media sites through our website, [thunderseed.com](http://thunderseed.com).

# WE'RE FARMERS *first*

## ADAMS FARMS

The Adams family's agricultural roots run deep in Minnesota, where the family's youngest generation continues to farm in Wendell. It's a passion that led them into agribusiness in the 1950s as Adams Seed – a legacy that continues today as part of Thunder Seed.



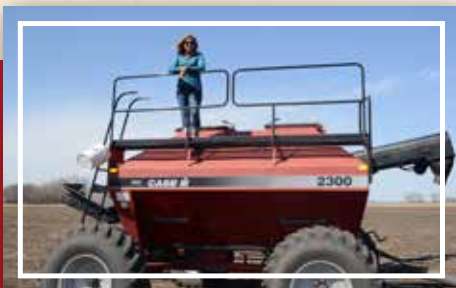
## PETERMANN FARMS

The Petermann family lives and farms in Hawley, Minnesota, where their strong passion for agriculture continues from generation to generation. In 1960, they formed Petermann Seeds Inc. to share their success with others.



## TOBOLT FARMS

Farming is way of life for the Tobolt family, who live and farm in Moorhead, Minnesota. Tobolt Seed, an 80-year-old family-owned business, continues helping farmers today as part of Thunder Seed.





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Seeds containing the Enlist, Herculex and PowerCore traits are protected under numerous US patents. Seeds containing patented traits can only be used to plant a single commercial crop and cannot be saved or replanted. You acknowledge and agree to be bound by the terms and conditions of the following documents in effect at the time of planting of this seed: (i) the Technology Use Agreement and (ii) the Product Use Guides for all technologies in this seed, including the Herbicide Resistance Management (HRM), and Use requirements detailed therein ([www.corteva.us/Resources/trait-stewardship.html](http://www.corteva.us/Resources/trait-stewardship.html)).

To plant Enlist, Herculex and PowerCore seed, you must have a limited license from Dow AgroSciences LLC (or other appropriate affiliates). In consideration of the foregoing, Dow AgroSciences grants to the Grower the limited license to use its technology to produce only a single commercial crop in the United States under the terms and conditions set forth in the Technology Use Agreement in effect at the time of planting of this seed.

Always read and follow herbicide label directions prior to use. Enlist™ products contain the Enlist trait that provides crop safety for use of labeled over-the-top applications of glyphosate, glufosinate and 2,4-D herbicides featuring Colex-D® technology when applied according to label directions. Following burndown, the only 2,4-D containing herbicide products that may be used with Enlist™ crops are products that feature Colex-D technology and are expressly labeled for use on Enlist crops. 2,4-D products that do not contain Colex-D technology are not authorized for use in conjunction with Enlist products.

Enlist E3™ soybeans contain the Enlist E3 trait that provides crop safety for use of labeled over-the-top applications of glyphosate, glufosinate and 2,4-D herbicides featuring Colex-D® technology when applied according to label directions. Following burndown, the only 2,4-D containing herbicide products that may be used with Enlist™ crops are products that feature Colex-D technology and are expressly labeled for use on Enlist crops. 2,4-D products that do not contain Colex-D technology are not authorized for use in conjunction with Enlist E3 soybeans. WARNING: Enlist E3 soybeans are tolerant of over-the top applications of glyphosate, glufosinate, and 2,4-D. Accidental application of incompatible herbicides to this variety could result in total crop loss. When using 2,4-D herbicides, grower agrees to only use 2,4-D products that contain Colex-D technology authorized for use in conjunction with Enlist E3 soybeans. Always read and follow herbicide label directions prior to use.

PLEASE READ CAREFULLY. By opening this bag or planting this seed, you acknowledge and agree to the following terms, personally and on behalf of the individual or entity that purchased this seed ("Grower"), to be bound by the terms and conditions of the following documents in effect at the time of planting of this seed: (i) the Technology Use Agreement and (ii) the Product Use Guides for all technologies in this seed, including the Herbicide Resistance Management (HRM), and Use requirements detailed therein ([www.corteva.ca/en/trait-stewardship.html](http://www.corteva.ca/en/trait-stewardship.html)).

To plant this seed, you must have a limited license from Corteva Agriscience (or other appropriate affiliates). No license or sublicense is conveyed to use these seeds solely by the purchase/bailment/transfer of such seeds. In consideration of the foregoing, Dow AgroSciences grants to the Grower the limited license to use its technology to produce only a single commercial crop in Canada under the terms and conditions set forth in the Technology Use Agreement in effect at the time of planting of this seed. Herbicides - When using 2,4-D herbicides, grower agrees to only use 2,4-D products that contain Colex-D® technology authorized for use in conjunction with Enlist E3™ soybeans.

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**Roundup Ready<sup>2</sup>**  
TECHNOLOGY





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*\*First year results of 2-year protocol study with independent cooperators across 8 locations examining the yield differences of saved Roundup Ready® soybeans versus newly purchased Roundup Ready 2 Yield® soybeans.*

**When you buy new seed from Thunder Seed, you will enjoy some limited warranty benefits.** With Thunder Seed, you receive agronomic support and can participate in the Roundup Rewards program, which has paid out more than \$600 million to growers since 1997.

**Thunder Seed is committed to our customers' successes through linking today's producer with tomorrow's technology.** Thunder Seed researches the newest traits and highest yielding germplasm to pick the right genetic packages that will work for your soil. New trait introductions take 7-9 years for commercialization and cost \$50-\$100 million. You have the assurance that Thunder Seed and Monsanto are 100% committed to our customers success. Input costs for the Roundup Ready® System - seed plus chemicals - have decreased over the past six years while other input costs rose.



**WARRANTY:** Thunder Seed of Dilworth, MN, and Dealer warrants to the purchase that the seeds described on the tag are sold within recognized tolerances. Thunder Seed of Dilworth, MN, gives no further warranties of the seed, express or implied, of merchantability or fitness for any particular purpose, nor any other warranty against loss of yield or for any other reason or cause, including environmental conditions. The parties agree the buyer's sole and exclusive remedy against Thunder Seed of Dilworth, MN, is the purchase price of the seed, and that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, loss of sales, injury to person or property, or any other incidental or consequential loss) shall be available to the purchaser. The parties further agree that purchaser may return seed within fifteen (15) days after purchase for a refund of purchase of the price and, unless this seed is returned within fifteen (15) days, that purchaser accepts these terms.

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**Thunder Seed recommends the purchase of new seed for a variety of benefits compared to bin run seed.** Input costs are higher for planting bin run versus new certified seed. That cost includes higher seeding rate and loss of seed or shrinking that occurs when cleaning bin-run seed. Thunder Seed offers reliable seed supply in many maturities with a set standard of high-quality and high-potential product that has shown to out-yield much higher than in-bin seeds by 6 bushels or more per acre.\*





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