2023 HARVEST REPORT



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ZACH WHITEHILL zach.whitehill@burrusseed.com

DEAR GROWER,

Farming along with agriculture in general continues to grow, expand and in some ways, push the boundaries of what we know. One thing that is constant, regardless of circumstance, is that return on investment (ROI) is one of the leading metrics successful growers consider.

With production costs rising, it is now more important than ever and Burrus understands that ROI is key. Fertilizer tends to be one of the most volatile when thinking about input costs. While seed has experienced modest increases over the last 15 years on average, since technology has been more readily adopted, seed selection remains an emotional issue. We are here to help.

When considering ROI for your operation, you want good, reliable, unbiased information. Burrus conducts our own research and testing ranging from new hybrid and variety selection across soil types and environments, to early planting practices and seed treatment options, all in an effort to provide the best information we can for our growers who count on us. This testing, along with being independent, allows us to bring growers the unbiased information they crave, which in turn can help them make crucial decisions for their operation. When dissecting ROI, many growers understand you shouldn't judge a product on price alone. When we asked growers what they valued most about doing business with Burrus, the overwhelming responses were 'high quality seed' and 'exceptional customer service.'

We are dedicated to producing high quality seed and not just because it has our name on the bag. Our team truly lives and breathes that dedication day in and day out as they take pride in what they do to help growers succeed. It is always humbling to know our customers value that effort and they can see, feel, and plant that dedication. It is a return on investment that some don't take into account. Exceptional customer service can be seen, felt, and even planted too! Customer service can be related to ROI as well. When you pay for quality and service, you expect quality and service. Our goal at Burrus has always been to exceed your expectations.

We are embracing our 89th year of selling seed and helping growers in our market footprint. There have been many monumental changes in agriculture since 1935. More recent advancements like the adoption of traits and seed treatments coupled with new breakthrough breeding techniques have paved the path for exciting genetic gain. Digital ag tools, regenerative ag discussion and carbon credits continue to be on growers' minds as well. We strive to continue learning and growing so we can share information with our growers and be a sounding board for their operations. Our three pillars continue to be listen, learn and best fit – all to bring the highest ROI to each individual farm. High yield is always a goal but consistent performance with strong ROI across acres is the ultimate goal.

Burrus Seed, along with our farmer growers, recognize how we farm has changed. Who we are has not. We still have the same passion and desire to help our friends and neighbors succeed just as the precedent established back in 1935. Thank you to every single grower who plants our family of products, we appreciate you and your business. We will continue to do the very best we can to bring you and your operation great returns on your seed investment dollar. If you are a grower considering hybrids and varieties for the first time, thanks for considering us. I encourage you to give us a chance to show you why our customer satisfaction and retention rates are some of the highest in the seed industry.

We are here to help.

Successfully,



The Burrus sales & agronomic teams gathered in Peoria for our annual summer sales kickoff meeting which included a night at the Caterpillar Museum & Visitors Center.

THE HARVEST REPORT AUTHORS

CHRIS BROWN, CCA

Chris is our Field Agronomist from Hopewell, IL serving growers in the northern and eastern portions of our footprint. He celebrated his fifth year anniversary with the team this summer. Follow Chris on Twitter @Chris721Brown.

TODD BURRUS

Todd represents the third generation of Burrus family ownership and leads the agronomic and research teams. Follow Todd on Twitter @toddburrus2.

MELISSA GRAFTON

Melissa joined the Burrus team a little over a year ago as our Product Lead. She helps guide our research team through product advancement and advises our Field Agronomists on product attributes.

DANA HARDER, CCA

Dana is our Field Agronomist from Edina, MO covering Missouri and southern Illinois. He also celebrated his fifth year with Burrus this summer having started just a week before Chris! Follow Dana on Twitter @harder_dana.

BOND

Burrus 7F33 VT2P claims top spot with 216 bu/a!

Brian Zeeb Greenville, IL

Planted: May 5 in 30" rows at 34,000. **Harvested:** Oct. 23. **Previous Crop:** Soybeans. **Weather:** Maynormal, June-dry, July-normal, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW
BURRUS 7F33 VT2P	216.5	15.2	62.2
NuTech 72D4AM	210.2	14.7	61.2
NuTech 73A4AM	208.5	15.2	62.0
NuTech 71A2AM	207.2	14.5	62.3
NuTech 74C4AM	206.8	15.1	62.8
BURRUS 6Y61 DG VT2P	203.7	14.9	63.5
Crow's 14-60 TRERIB	203.2	14.9	61.9
POWER PLUS 6W81AM	202.4	14.8	63.2
Crow's 14-88 VT2P	195.9	15.0	62.3
BURRUS 8A12 VT2P	193.7	16.5	63.0
BURRUS 7P71 VT2P	192.5	15.3	62.2
Crow's 12-48 DGVT2P	187.3	14.9	62.8
BURRUS 5A84 VT2P	181.6	14.8	62.0
Crow's 11-30 TRERIB	180.3	15.0	60.5
NuTech 75C1AM	178.3	16.8	61.9
Crow's EX09-37 VT2P	165.5	14.7	62.9
Average	195.9	15.1	62.3

CASS

NEW Burrus 7T27 SSP topped all at 297 bu/a!

Marty Turner Beardstown, IL



Planted: April 27 in 30" rows. Harvested: Sept. 19. Previous Crop: Corn. Corn Borer Pressure: Light. Weather: May-dry, June-dry, July-dry, August-dry. Notes: Irrigated.

BBAND/PBODUCT	BII/A	MOISTURE
BURBUS 7T27 SSP	297 7	22 7
AgriGold A641-85STXBIB	291.6	23.6
Channel C215-70TRFRIB	290.7	23.3
AgriGold A647-79VT2PRO	288.9	22.7
DeKalb DKC64-22RIB	282.9	20.1
BURRUS 7N88 SS	282.1	23.6
Dyna-Gro D56TC44	279.4	21.1
Wyffels W8108RIB	276.1	22.2
Pioneer P1742Q	275.8	25.6
Wyffels W9218RIB	269.8	23.0
Wyffels W8306RIB	268.6	22.5
DeKalb DKC66-06RIB	265.4	23.6
Pioneer P1222AM	264.6	23.5
DeKalb DKC66-18RIB	260.8	21.5
AgriGold A646-30VT2RIB	259.5	23.1
AgriGold A645-16STXRIB	259.2	23.2
BURRUS 7P71 VT2P	258.2	23.5
Pioneer P1608AM	255.8	23.7
POWER PLUS 6W81AM	254.3	23.8
Channel C216-82VT2PRIB	250.4	22.5
Channel C214-40VT4PRIB	227.3	23.0
Champion C212-52SSP	220.9	22.6
Pioneer P1278Q	210.5	23.2
Wyffels W7945RIB	204.5	23.7
Average	262.3	23.0



Jerry has provided seasonal help every year since 1977! Jerry's main role during harvest is to help fill the drying bins. He's skilled at getting the corn to the right depth and evenly distributed in the drying bins. We appreciate long-term, dedicated employees like Jerry.

Marty Turner Beardstown, IL



Planted: April 27 in 30" rows. Harvested: Sept. 19. Previous Crop: Corn. Notes: Dry land.

BRAND/PRODUCT	BU/A	% MOISTURE
Pioneer P1278Q	296.6	21.8
Channel C216-82VT2PRIB	294.9	23.9
DeKalb DKC66-06RIB	279.8	23.6
POWER PLUS 6W81AM	277.3	22.2
Pioneer P1608AM	271.2	23.2
AgriGold A645-16STXRIB	267.6	24.2
Wyffels W7945RIB	266.7	24.1
AgriGold A646-30VT2RIB	263.6	23.2
Wyffels W8108RIB	262.2	22.5
Channel C214-40VT4PRIB	259.5	23.3
Pioneer P1742Q	256.4	25.3
DeKalb DKC64-22RIB	251.4	21.1
Channel C215-70TRERIB	231.2	24.7
BURRUS 7T27 SSP	223.5	24.8
AgriGold A641-85STXRIB	223.1	22.8
Wyffels W9218RIB	221.9	22.8
Pioneer P1222AM	220.8	23.6
DeKalb DKC66-18RIB	212.6	23.4
AgriGold A647-79VT2PRO	212.2	21.7
BURRUS 7N88 SS	202.3	24.9
Dyna-Gro D56TC44	188.6	22.4
Wyffels W8306RIB	187.7	23.8
Champion C212-52SSP	182.6	21.7
BURRUS 7P71 VT2P	179.8	22.9
Average	238.9	23.2

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Brian Burrus Arenzville, IL

Planted: April 14 in 30" rows at 35,000. Harvested: Sept. 18. Previous Crop: Soybeans. Soil Type: Loam. Weather: May-normal, Junedry, July-dry, August-dry. ✓ CHECK Hybrid: Power Plus 4C14AM.

						STAND
BRAND/PRODUCT	BU/A	RANK	% MOISTURE	ADJ. TW	% ERECT	(x 1000)
✓ CHECK	227.1		19.3	55.2	100	34
BURRUS 5A84 VT2P	228.7	9	21.0	56.3	100	35
POWER PLUS 5J21AM	226.7	11	20.9	56.2	100	35
POWER PLUS 5U63AM	224.6	10	22.4	56.5	96	33
POWER PLUS 6B86 Q	230.0	5	22.1	56.0	100	34
BURRUS X6K13	232.3	4	21.0	55.8	100	36
✓ CHECK	215.1		20.6	55.7	100	34
POWER PLUS 6W81AM	223.8	7	23.3	57.2	100	35
BURRUS 6Y61 DG VT2P	251.2	1	20.8	57.2	100	34
BURRUS 7F33 VT2P	248.4	2	22.8	56.1	96	34
BURRUS 7N88 SS	226.7	8	24.4	58.5	100	35
BURRUS 7P71 VT2P	229.3	6	25.4	56.8	100	35
BURRUS 7T27 SSP	243.4	3	22.4	58.0	100	35
✓ CHECK	221.0		18.8	55.2	100	35
Average	230.6		21.8	56.5	99	35
Check Average	221.0		19.6	55.4	100	34



Andy Dole has a cab full of harvest help with sons Graham and Lennon as they harvest DONMARIO DM 3756E soybeans in Coles Co.



Burrus Seed Farms, Inc. Arenzville, IL

Planted: April 10 in 30" rows at 34,000. **Harvested:** Sept. 14. **Weather:** May-dry, June-dry, July-normal, August-normal. **Notes:** Some environmental differences may have impacted individual product performance.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	% ERECT	STAND (x 1000)
POWER PLUS 6J92AM	261.2	21.8	58.4	100	29
BURRUS 7T27 SSP	246.1	20.9	59.2	100	31
BURRUS 7F33 VT2P	245.3	23.4	58.7	100	30
POWER PLUS 5J21AM	240.7	16.5	57.7	97	28
POWER PLUS 5U63AM	229.2	19.2	58.2	97	29
POWER PLUS 4R56 Q	226.8	17.4	58.8	100	31
POWER PLUS 6W81AM	224.6	22.1	58.5	100	29
BURRUS 6V90	223.3	17.2	57.8	100	24
POWER PLUS 4R40	223.1	15.4	58.0	100	29
BURRUS 7N88 SS	222.8	22.7	59.6	100	28
POWER PLUS 4C14AM	219.3	15.9	56.5	100	31
BURRUS 6A38 SS	218.3	20.5	59.2	100	27
POWER PLUS 5L44AM	212.9	16.9	58.2	97	31
BURRUS 6K13 V	210.8	21.9	57.9	100	29
BURRUS 7G44 V	209.7	19.6	55.4	100	28
POWER PLUS 6M89 Q	208.1	18.8	59.7	90	29
POWER PLUS 5F17 Q	207.9	17.4	57.8	100	31
POWER PLUS 6H80	196.8	18.2	57.0	100	30
BURRUS 5A84 VT2P	194.0	21.5	57.9	100	25
BURRUS 6Y61 DG VT2P	191.7	22.4	58.5	100	31
BURRUS 7P71 VT2P	190.4	21.5	57.4	100	30
BURRUS 8A12 VT2P	185.8	23.4	59.7	100	30
POWER PLUS 6B86 Q	166.3	20.0	57.5	100	27
POWER PLUS 4C16 Q	165.1	16.1	59.0	100	28
Average	213.3	19.6	58.2	99	29

CHRISTIAN

Burrus 7F33 VT2P shot to the top of the plot at 269 bu/a!

Cameron Farms Inc. Pana, IL

Planted: April 25 in 30" rows at 34,000. Harvested: Oct. 24. Previous Crop: Soybeans. Corn Borer Pressure: Light. Fertilizer: N: 207. Herbicide: Conventional. Soil Type: Heavy Loam. Weather: May-dry, June-dry, July-normal, August-dry. Notes: Fungicide applied. ✓ CHECK Hybrid: Power Plus 6J92AM.

						STANI
BRAND/PRODUCT	BU/A	RANK	% MOISTURE	% ERECT	ADJ. TW	(x 1000)
✓ CHECK	216.7		15.8	100	53.0	32
POWER PLUS 6W81AM	241.2	3	16.5	100	55.2	33
POWER PLUS 4C14AM	223.6	9	15.7	100	53.0	31
POWER PLUS 5F17 Q	247.4	2	15.9	100	54.0	31
BURRUS 6A38 SS	242.9	5	16.6	100	54.7	31
✓ CHECK	225.0		16.4	100	55.0	32
BURRUS X6K13	239.0	8	16.1	100	56.0	31
BURRUS 7F33 VT2P	269.6	1	16.2	100	59.0	30
POWER PLUS 5L44AM	210.8	10	16.3	100	54.0	31
BURRUS 6V90	248.4	4	15.7	100	56.0	30
POWER PLUS 5J21AM	243.0	6	16.0	100	56.0	32
POWER PLUS 6H80	242.2	7	16.0	100	56.0	30
✓ CHECK	229.5		16.4	100	54.0	30
Average	236.9		16.1	100	55.1	31
Check Average	223.7		16.2	100	54.0	32



Aaron Vandenbergh, Danny & Tyler Cameron saw Burrus 7F33 VT2P top the Christian Co. plot.



2023 SEASON STRESS

Crop stress was compounded by drought conditions this year.

by CHRIS BROWN, CCA

This year has been accentuated by early drought stress felt to different degrees by everyone in our footprint. The factors that affected how poorly crops responded varied. These additional factors attributed to making this year less successful than anticipated. Let's investigate a few of the factors that made the drought worse for some.

Water Holding Capacity: This aptly named characteristic of our soils is defined by the ability of certain soil textures to physically hold water against the force of gravity. This typically contributes to a soil's productivity and in a season with varying times of drought stress, soil water holding capacity is vital. Soils with higher water holding capacity were better able to weather extended dry periods and keep the crop in better condition, leading to more yield.

Soil Compaction: Compaction can affect the crop in multiple ways. For one, compacted soil can have lower water holding capacity due to disruption of the typical soil structure. Compact soils can also lead to poor, confined root structures which can limit the plants' ability to collect water and nutrients. Reduced available soil moisture and root growth, combined with drought stress, led to compacted areas being more affected in a year like this.

Minor Mistakes: This season, I witnessed many situations that would have little affect if they were to happen in a season with adequate rainfall. However, with the conditions of this year these same situations led to drastic reduction in production. Anything that contributed to extra drying of the soil during germination led to poorly timed germination, reduced seedling vigor, reduced stand, and overall crop health. Examples that I witnessed this season included extra or poorly timed tillage, ill-timed cover crop termination, and planting into dry soils.

Timing of Drought Conditions: The single most impactful factor in how crops produce in a drought year is the timing of the drought. The duration of drought conditions combined with the growth stage of the crop during these conditions impacts overall production. The longer we experience drought conditions, the greater effect it has on yield, but the stage of the crop during these times is key. If drought conditions persist into the reproductive stages of the crop, we see larger effects on yield. In the early vegetative stages, we can lose 1-3% of yield per day of stress but during the later pollination and reproductive stages the yield loss per day can increase to 3-9%. We have witnessed this effect this year, specifically on early planted corn. Hybrids that pollinated later in the season, after much of our area received a respite from the drought, performed better than shorter season hybrids with similar planting dates.

The above factors are not an all encompassing list, just a few examples of stresses that can add onto an already stressed crop to multiply the effects. Be mindful that additionally stressed acres are most likely where you witnessed low yields this season and were most drastically affected this year.



Finding a silver lining in a year with tough conditions, central Illinois drought conditions helped the Burrus Seed Research Team decipher the genetic differences in each product's tolerance. See pages 34-35 of this publication for a summary of our 2024 hybrid selection and their determined ratings.

DEWITT

Kevin McMath Clinton, IL

Planted: April 25 in 30" rows at 34,000. Harvested: Sept. 25. Previous Crop: Soybeans. Corn Borer Pressue: Light. Soil Type: Loam. Weather: May-dry, June-dry, July-normal, August-normal. ✓CHECK Hybrid: DeKalb DKC59-81RIB.

			%	ADJ.
BRAND/PRODUCT	BU/A	RANK	MOISTURE	TW
POWER PLUS 5J21AM	227.7	19	18.1	56.8
✓ CHECK	230.8		18.8	55.7
Pioneer P0953AM	242.9	14	17.6	57.0
Pioneer P10477Q	250.1	9	16.9	57.0
✓ CHECK	232.8		18.1	60.0
Pioneer P1027AM	240.8	15	21.8	58.8
POWER PLUS 5U63AM	236.7	12	19.7	55.6
✓ CHECK	219.4		16.6	59.5
Pioneer P1222AM	256.7	1	18.5	56.0
ProHarvest 83P33DGVT2PRIB	239.5	8	18.5	56.0
✓ CHECK	220.6		17.8	58.8
ProHarvest 83P66VT2PRIB	248.8	3	19.9	55.3
BURRUS 6A38 SS	246.5	4	18.1	58.6
✓ CHECK	220.0		17.2	60.6
POWER PLUS 6W81AM	244.0	7	17.7	57.2
Pioneer P14830Q	243.8	11	19.0	59.0
✓ CHECK	231.5		17.0	59.6
DeKalb DKC64-21	235.3	18	20.4	60.6
BURRUS 6Y61 DG VT2P	247.1	13	18.6	57.4
✓ CHECK	233.8		16.7	59.2
Pioneer 82P29VT2PRIB	237.7	17	18.4	58.9
Pioneer 84P78TRERIB	256.2	5	20.0	56.1
✓ CHECK	229.4		17.5	59.9
BURRUS 7N88 SS	235.7	16	21.9	59.2
DeKalb DKC66-04RIB	251.0	6	23.1	61.1
✓ CHECK	230.0		17.3	59.9
Pioneer P1742Q	262.5	2	25.6	58.3
DeKalb DKC67-94RIB	245.7	10	23.5	56.8
✓ CHECK	229.1		17.6	59.8
Average	238.8		19.0	58.2
-				
Check Average	238.8		19.0	58 2



Kade & Kevin McMath of DeWitt Co. saw Burrus 6A38 SS battle for a top spot in their competitive plot.

FULTON

Schmalshof Farms LLC Avon, IL

Planted: April 18 in 30" rows at 33,800. Harvested: Oct. 24. Previous Crop: Soybeans. Corn Borer Pressure: Light. Fertilizer: N: 180, P: VRT, K: VRT. Herbicide: Keystone, Roundup. Soil Type: Heavy Loam. Weather: May-dry, Junedry, July-dry, August-normal. Notes: Plot had high wind damage on June 29. ✓CHECK Hybrid: Burrus 6Y61 DG VT2P.

BRAND/PRODUCT	BU/A	RANK	% MOISTURE	% ERECT	ADJ. TW	STAND (x 1000)	
✓ CHECK	229.1		17.1	100	59.3	29	
POWER PLUS 4C14AM	227.6	1	15.5	100	57.5	31	
POWER PLUS 5J21AM	224.5	3	16.0	100	59.0	32	
POWER PLUS 5U63AM	215.9	5	16.2	94	58.0	30	
POWER PLUS 6B86 Q	205.4	9	16.5	100	60.2	33	
POWER PLUS 6J92AM	206.9	8	16.9	100	59.2	31	
✓ CHECK	218.3		17.0	96	59.3	28	
BURRUS X6K13	204.9	6	16.0	98	59.0	32	
POWER PLUS 6W81AM	201.4	7	16.0	100	59.5	31	
BURRUS 7F33 VT2P	208.2	2	17.2	100	58.3	29	
BURRUS 7P71 VT2P	202.5	4	17.4	94	59.3	30	
✓ CHECK	206.8		16.8	96	59.2	29	
Average	212.6		16.6	98	59.0	30	
-							
Check Average	218.1		17 0	97	593	29	

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John Spangler Marietta, IL

Planted: April 26 in 30" rows at 34,000. **Harvested:** Sept. 23. **Previous Crop:** Soybeans. **Soil Type:** Med. Loam. **Weather:** May-normal, June-dry, July-normal, August-dry.

BRAND/PRODUCT	BU/A	MOISTURE
Channel 212-52SSPRIB	274.1	24.5
Wyffels W7759RIB	257.4	24.6
ProHarvest 83P66VT2PRIB	256.4	24.0
Wyffels W7876RIB	255.4	24.6
Wyffels W9218RIB	255.3	25.5
Wyffels W7876RIB	251.6	24.4
Channel 215-70TRERIB	251.5	24.3
Channel 214-78DGVT2PRIB	249.9	25.3
ProHarvest 84P78TRERIB	248.6	25.9
BURRUS 7P71 VT2P	247.6	25.6
ProHarvest 83P33DGVT2PRIB	247.4	23.4
Channel 214-78DGVT2PRIB	247.3	24.6
Wyffels W8086RIB	247.3	23.6
AgriGold A647-79VT2PR0	246.8	24.8
FS 6395VDG RIB	236.6	23.9
AgriGold A636-16VT2RIB	236.5	22.7
POWER PLUS 5J21AM	229.7	23.6
POWER PLUS 5U63AM	224.5	24.5
ProHarvest 81P88TRERIB	212.8	24.1
AgriGold A640-12STXRIB	207.4	21.2
Average	262.3	23.0

GREENE

NEW Burrus 7P71 VT2P topped 272 bu/a with 61# test weight!

Larry Meyer Carrollton, IL

Planted: April 7 in 30" rows at 35,000. **Harvested:** Sept. 23. **Previous Crop:** Soybeans. **Fertilizer:** N: 200, P:300, K:300.

		%	ADJ.
BRAND/PRODUCT	BU/A	MOISTURE	TW
BURRUS 7P71 VT2P	272.6	18.9	61.2
FS 6595V RIB	266.7	20.1	60.5
BURRUS 7F33 VT2P	263.1	19.4	60.2
FS 6395VDG RIB	262.8	18.8	60.7
DKC64-22RIB	262.2	18.1	61.5
POWER PLUS 5J21AM	261.8	17.8	60.5
POWER PLUS 4C14AM	258.4	17.4	59.3
POWER PLUS 4C14AM	257.3	17.3	59.3
BURRUS 6Y61 DG VT2P	248.6	18.0	61.5
BURRUS 5A84 VT2P	245.7	17.1	60.3
Average	259.9	18.3	60.5



Adam, Jonelle & Andy Schmalshof of Fulton Co.watched Power Plus® 4C14AM™* earn top honors at 227 bu/a.

Gilmore Grain Farms, LLC Roodhouse, IL

Planted: April 10 in 30" rows at 33,000. **Harvested:** Sept. 19. **Previous Crop:** Soybeans.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW
BURRUS 7P71 VT2P	248.5	18.8	61.2
POWER PLUS 6W81AM	246.4	18.9	61.7
BURRUS 6Y61 DG VT2P	235.5	18.1	62.5
POWER PLUS 4C14AM	231.5	17.4	60.3
BURRUS 7F33 VT2P	226.9	20.1	62.0
POWER PLUS 5J21AM	225.2	17.0	59.8
BURRUS 5A84 VT2P	190.6	19.1	61.7
POWER PLUS 4C14AM	175.2	16.5	60.2
Average	222.5	18.2	61.2



One of our favorite budding farmers, Lane Monroe reported his Coon's Choice sweet corn withstood a high-wind summer storm in Greene Co.!

David & Brad Schutz Hillview, IL

Planted: April 11 in 30" rows. **Harvested:** Sept. 18. **Previous Crop:** Soybeans.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW
BURRUS 8A12 VT2P	267.5	19.6	61.9
BURRUS 7F33 VT2P	251.7	18.9	59.7
BURRUS 8A12 VT2P	250.9	21.3	60.3
POWER PLUS 5J21AM	245.9	17.2	60.3
BURRUS 7P71 VT2P	245.9	19.0	59.7
BURRUS 6Y61 DG VT2P	245.3	19.2	60.2
POWER PLUS 6W81AM	241.2	18.1	61.5
POWER PLUS 4C14AM	238.5	17.2	59.8
BURRUS 5A84 VT2P	234.0	18.0	60.5
Average	246.8	18.7	60.4

HANCOCK

NEW Power Plus[®] 5J21AM[™]* shined!

Tim Bolton Nauvoo, IL

Planted: April 14 in 30" rows at 33,800. Harvested: Oct. 7. Previous Crop: Soybeans. Fertilizer: N: 180, P: VRT, K: VRT. Herbicide: Corvus, Atrazine. Corn Borer Pressure: Light. Soil Type: Heavy Loam. Weather: May-dry, June-dry, July-dry, August-dry. Notes: Plot had 100mph winds on June 29.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	% ERECT	STAND (x 1000)
POWER PLUS 5J21AM	238.8	15.0	59.0	90	32
BURRUS 6Y61 DG VT2P	219.8	14.7	60.0	90	32
BURRUS 7F33 VT2P	216.0	15.6	60.0	75	32
Power Plus 5u63AM	211.2	14.1	60.0	90	29
POWER PLUS 4R40	208.1	14.3	60.0	75	29
Burrus 6v90	201.4	15.0	58.0	65	30
Power Plus 6h80	198.8	14.8	59.0	80	33
Average	 213.4	 14.8	 59.4	 81	31

IROQUOIS

NEW Power Plus® 5J21AM[™]* fought for the first place spot with 287 bu/a!

Synergy Seeds Onarga, IL

Planted: April 27 in 30" rows. **Harvested:** Oct. 3. **Previous Crop:** Soybeans.

BRAND/PRODUCT	BU/A	% MOISTURE
AgriGold A646-30VT2RIB	287.7	22.6
POWER PLUS 5J21AM	287.4	21.1
DeKalb DKC66-06 TRE	283.5	22.1
ProHarvest 84P78TRERIB	280.6	23.2
AgriGold A643-52VT2RIB	279.6	22.6
AgriGold A644-64VT2RIB	278.1	22.1
ProHarvest 79P87SSRIB	276.6	21.3
DeKalb DKC68-35RIB	276.5	22.4
Wyffels W7759RIB	276.1	21.4
Wyffels W7945RIB	276.0	23.2
Wyffels W7876RIB	276.0	22.5
ProHarvest 84P32PCE	275.8	22.9
ProHarvest 81P88TRERIB	275.6	22.0
DeKalb DKC66-18RIB	275.5	22.6
DeKalb DKC56-26RIB	273.2	17.7
Wyffels W3579RIB	273.1	17.7
DeKalb DKC67-37RIB	273.1	23.4
Pioneer P1563Q	271.9	22.8
Wyttels W7208RIB	270.7	22.2
ProHarvest X23/20	2/0.1	20.6
PUWER PLUS 5F17 U	2/0.0	20.9
NK Brand NK1480-DV	269.8	21.3
Wyliels W6300RID	209.4	21.4
Wyliels W0930DGNID DroHanwort 92D22DCVT2DDID	200.J 060 J	22.2 01.4
PIURAIVESI 03P33DGVIZPRID	200.3 267.0	21.4
Denald DR000-0411D DroHanvoet 8260\/T2D	207.9	22.0
ProHarvest 83P66\/T2PRIR	207.7	22.0
AgriGold A643-01WX	267.5	22.0
Wensman W 8086VT2BIB	264.9	22.5
POWER PI US 2.167 0	264.4	18.5
AgriGold A636-16-5222F7	264.4	21.0
DeKalb DKC65-99	263.4	21.5
Wvffels W7536DGRIB	263.4	21.9
ProHarvest 75P85DGVT2PRIB	263.1	18.0
NK Brand NK1188-AA	263.0	21.9
ProHarvest 79P49VT2PRIB	263.0	21.1
AgriGold A640-12STXRIB	262.8	20.7
Wyffels W6215RIB	261.6	19.3
ProHarvest 77P19VT2PRIB	261.2	19.3
AgriGold A641-85STX	259.4	22.7
POWER PLUS 3G31AM	259.3	19.7
ProHarvest 80P64CONV	257.9	21.4
ProHarvest 84P47SSRIB	257.2	21.8
AgriGold A639-03V12RIB	256.9	19.9
DeKalb DKC64-21	256.2	22.4
Proharvest 82P79V12PRIB	255.3	21.1
Denald DK064-22KIB	205.2	21.3
PIULIEEL PU924Q	200.1	21.4
FOWER FLUG OWOTAW Dokalo DK/C60_82DID	254.0	21.4 10 /
White WESSERID	204.4 252 G	10.4 01 0
Wyncia WUUUUNID	200.0	۲١.۵

Wyffels W7048RIB	253.5	21.6
DeKalb DKC110-10	253.0	20.6
AgriGold A637-21WX	251.9	18.2
Wyffels W5406RIB	251.0	21.0
Wyffels W8108RIB	251.0	22.7
POWER PLUS 5L44AM	248.3	20.8
Wyffels W5778RIB	247.9	19.3
Pioneer P1108Q	246.7	20.8
NK Brand NK0835-AA	244.4	21.2
Wyffels W5019RIB	243.4	18.6
DeKalb DKC111-35RIB	242.5	20.8
ProHarvest 82P68SSPRORIB	241.8	21.2
NK Brand NK1040-AA	236.9	19.9
Average	263.6	21.2

LASALLE

Jeff Busch Tonica, IL



Planted: April 23 in 30" rows at 34,000. Harvested: Oct. 24. Previous Crop: Corn. Fertilizer: N: 245, P: 150 DAP, K: 150. Herbicide: Resicore, Roundup, Callisto. Corn Borer Pressure: Light. Soil Type: Med. Loam. Weather: May-dry, June-dry, July-dry, August-normal. Notes: Fungicide applied.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	% ERECT	STAND (x 1000)	
POWER PLUS 5E17 0	224 4	15.7	61 0	80	33	
POWER PLUS 5 121AM	210.2	16.7	62.0	an	35	
	21J.L	15.0	50 0	00	2/	
FUWER FLU3 4610 Q	217.4	10.0	09.0	00	34	
BURRUS 6A38 SS	216.9	17.1	62.3	80	35	
POWER PLUS 6B86 Q	216.8	17.6	60.9	100	34	
BURRUS X6K13	213.2	16.7	61.2	100	32	
POWER PLUS 4R56 Q	206.9	16.6	62.2	100	32	
POWER PLUS 2J67 Q	205.7	16.1	61.0	90	30	
BURRUS 7N88 SS	205.5	19.1	63.7	80	33	
Average	214.0	16.7	61.5	89	33	



Ron is one of our "rocks", one who can basically do it all with a cheerful attitude and a smile on his face. During harvest, Ron wears many caps from managing the dryers and bins to the husk and sort facility and team.



Andy and Paul Derycke with Burrus AM Marcus Horan grabbing an in-field bite while loving their Power Plus[®] 4C16 Q^{™*} early corn yields in Henry Co.

MACOUPIN Mike Cole Palmyra, IL

Planted: April 11 at 34,000. Harvested: Oct. 17. Previous Crop: Corn. Herbicide: Corvus.

BRAND/PRODUCT	BU/A	% MOISTURE
POWER PLUS 6W81AM	257.7	13.8
BURRUS 7F33 VT2P	248.8	N/A
BURRUS 6Y61 DG VT2P	249.8	N/A
POWER PLUS 5U63AM	251.3	13.4
Average	251.9	6.8



LOGAN

Kleinschmidt Farms Emden, IL

Planted: April 27 in 30" rows at 35,000. **Harvested:** Oct. 16. **Previous Crop:** Soybeans. **Soil Type:** Silt Loam. **Weather:** May-dry, June-dry, July-dry, August-normal. **Notes:** No fungicide.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	% ERECT	STAND (x 1000
POWER PLUS 5F17 Q	255.5	15.8	59.0	100	34
BURRUS 7F33 VT2P	243.6	17.3	61.3	100	34
BURRUS 6A38 SS	242.3	17.3	61.3	100	34
POWER PLUS 4C16 Q	231.7	15.1	59.0	100	34
BURRUS 7N88 SS	230.4	18.0	62.5	100	34
POWER PLUS 6B86 Q	230.0	17.2	60.3	100	34
BURRUS 6Y61 DG VT2P	229.6	16.6	61.2	100	34
POWER PLUS 5L44AM	228.0	16.7	59.2	100	34
POWER PLUS 5U63AM	224.7	16.7	59.2	100	34
LG Seeds LG66C44SSRIB	213.9	18.5	61.6	100	34
POWER PLUS 6W81AM	212.4	17.3	61.8	100	34
LG Seeds LG57C33SSRIB	210.4	14.9	58.5	100	34
Average	229.4	16.8	60.4	100	34

8

NITROGEN FIXING BIOLOGICALS

What the independent data tells us about N fixing corn biologicals.

by DANA HARDER, CCA

You might have seen quite a bit of news about biological products that claim to fix nitrogen (N) for corn. Thinking back to the fall of 2022, anhydrous prices were nearly triple the current 2023 fall prices. There was strong interest in these products to both save on input costs and boost yield levels in corn. Many of these products act as endophytes, living between plant cells and creating a symbiotic bond with corn plants. There have been many application approaches to market from foliar, in-furrow, and recently over treating on seed. This article briefly covers a thorough review of biological products in 10 Midwestern states by Dave Franzen from North Dakota State University. You can find the full article by scanning the QR code below.

Trial design and the crop studied varied across states. Work primarily centered on corn, with additional evaluations conducted on spring wheat, sugar beet, and canola. In total, 61 site years of data were summarized. Regarding corn only, 2 of the 53 trials showed a positive response with these products over increasing N rate alone. In the 2 studies that did show a positive result, the benefit was equivalent to an additional 12 to 20 lbs of N per acre. Individual biological product results can be found below:

- Envita[™]: Applied in-furrow; 1 of 11 studies showed a positive result over N rate alone.
- Utrisha® N: No yield benefit in 11 studies.
- Pivot Bio PROVEN®: Foliar applied, 1 of 12 trials showed a yield benefit over N rate.



Use the QR code to access the complete study from Dave Franzen, North Dakota State University.



Logan Frye, Wade Blakely & Jay Frye saw Burrus 7F33 VT2P top their plot with 245 bu/a in Mason Co.

 Pivot Bio PROVEN® 40: Eleven trials were conducted in-furrow and 2 as a seed treatment. There was no yield benefit observed in any of these studies.

As with any biological organism, environmental conditions play a big role in the development and activity in the field. The article highlights that moist soils and warm weather enhance the activity of N-fixing bacteria. It also points out that no-till systems show higher activity of N-fixing organisms compared to conventional systems.

In summary, higher N rates consistently led to a significant increase in corn yield. Given the response rate, it is advisable to move forward cautiously with these products. Determine if they are worth your money by asking questions, reviewing data, and evaluating on a small scale. Also, consider if it would be better to invest those equivalent dollars in additional N compared to a biological product. At Burrus, we allocate our research efforts primarily on hybrid and variety testing to evaluate the best products to bring to market. We are looking at select biological products and will bring them to our portfolio only after they have showed effectiveness in our testing. There is no doubt increased focus has been brought to biological space, and if you have questions regarding it, please contact your Burrus Representative.

MARSHALL

Mark Monier Sparland, IL

Planted: May 6 in 30" rows at 36,500. **Harvested:** Sept. 28. **Previous Crop:** Soybeans.

BRAND/PRODUCT	BU/A	% MOISTURE
POWER PLUS 6B86 Q	255.2	27.4
LG Seeds LG60C86-5222	245.1	25.8
LG Seeds LG63C77SSRIB	244.5	26.6
BURRUS 7N88 SS	238.0	25.8
LG Seeds LG59C72VT2PRIB	237.9	23.3
BURRUS 6A38 SS	235.8	27.0
LG Seeds LG64C20-3220	233.1	31.4
LG Seeds LG61C34SSRIB	232.9	24.5
LG Seeds LG64C43VT2RIB	232.1	26.9
POWER PLUS 5F17 Q	228.1	24.0
POWER PLUS 4R56 Q	227.9	22.2
BURRUS 7T27 SSP	224.8	25.8
POWER PLUS 2J67 Q	224.0	22.2
POWER PLUS 4C16 Q	216.6	19.4
LG Seeds LG58C77VT2PRIB	213.0	23.3
LG Seeds LG66C44VT2RIB	211.8	26.3
LG Seeds LG5618SSRIB	171.5	25.0
Average	227.8	25.1

MASON

Burrus 7F33 VT2P & Burrus 7N88 SS battled for the top spot!

Jay Frye Easton, IL

Planted: April 11 in 30" rows at 33,000. Harvested: Sept. 15. Previous Crop: Soybeans. Fertilizer: N: 220, P: 125, K: 60. Herbicide: Bicep (pre), Accuron (post). Corn Borer Pressure: Light. Soil Type: Light Loam. Weather: May-dry, June-dry, July-dry, August-dry. Notes: Fungicide applied.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	% ERECT	STAND (x 1000)
BURRUS 7F33 VT2P	245.4	20.5	59.7	100	33
BURRUS 7N88 SS	242.8	24.2	62.0	100	33
BURRUS 6Y61 DG VT2P	241.7	22.0	60.5	100	33
POWER PLUS 5J21AM	236.2	21.6	58.9	100	33
BURRUS 7F33 VT2P	234.0	24.3	59.5	100	33
POWER PLUS 5U63AM	233.8	20.8	59.2	100	33
DeKalb DKC66-18RIB	232.8	25.3	61.3	100	33
POWER PLUS 4C14AM	232.1	20.7	59.2	100	32
Pioneer P0924Q	231.7	21.3	60.3	100	33
BURRUS 7P71 VT2P	231.7	24.6	61.7	100	33
POWER PLUS 6J92AM	228.8	22.5	58.6	100	33
POWER PLUS 6B86 Q	228.5	22.6	59.6	100	32
POWER PLUS 6W81AM	217.0	23.6	60.9	100	32
DeKalb DKC64-87RIB	216.1	23.2	59.7	100	33
Average	232.3	22.7	60.1	100	33



Tim Bolton, Brian Bolton & Tim Dickerson saw new Power Plus* 5J21AM** top their Hancock Co. plot with 238 bu/a.

Larry Hill Mason City, IL

Planted: April 7 in 30" rows at 32,000. Harvested: Sept. 14. Previous Crop: Alfalfa. Fertilizer: N: 160 NH3, P: 150, K: 150. Herbicide: Bicep, Halex GT. Corn Borer Pressure: Light. Soil Type: Med. Loam. Weather: May-dry, June-dry, July-dry, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	% ERECT	STAND (x 1000)
BURRUS 7N88 SS	232.1	25.8	59.9	100	33
POWER PLUS 6B86 Q	229.1	23.5	57.9	100	32
POWER PLUS 6J92AM	228.1	24.4	59.0	100	32
BURRUS 7T27 SSP	226.0	25.9	59.9	100	33
POWER PLUS 5F17 Q	225.0	22.0	57.5	100	33
Pioneer P1185Q	212.6	23.4	57.7	100	32
POWER PLUS 4R56 Q	212.6	24.6	58.2	100	31
BURRUS 6A38 SS	185.1	23.6	58.9	88	29
Average	218.8	24.1	58.6	99	32

MASON

Larry Hill Mason City, IL

Planted: April 7 in 30" rows at 33,000. Harvested: Sept. 14. Previous Crop: Alfalfa. Fertilizer: N: 160 NH3, P: 150, K: 150. Herbicide: Bicep, Halex GT. Corn Borer Pressure: Light. Soil Type: Med. Loam. Weather: May-dry, June-dry, July-dry, August-dry.

		0/_	401	0/_	STAND	
BRAND/PRODUCT	BU/A	MOISTURE	TW	ERECT	(x 1000)	
BURRUS 7N88 SS	237.5	26.9	60.2	100	33	
POWER PLUS 6J92AM	227.2	23.6	58.9	100	33	
BURRUS 7T27 SSP	226.9	26.4	59.5	100	31	
POWER PLUS 4R56 Q	225.6	25.5	59.4	100	31	
POWER PLUS 5F17 Q	221.0	21.9	57.9	100	32	
POWER PLUS 6B86 Q	218.0	25.0	58.8	100	32	
BURRUS 6A38 SS	215.3	24.8	59.2	96	32	
Pioneer P1185Q	212.1	21.7	58.4	100	32	
Average	222.9	24.5	59.0	100	32	



Jeff Busch's LaSalle Co. plot marked Burrus AM Parker Bane's first corn plot harvest of his career.

MCDONOUGH

John Cook Sciota, IL

Planted: April 8 in 30" rows at 35,600. Harvested: Sept. 15. Previous Crop: Soybeans. Fertilizer: N: 180, P: VRT, K: VRT. Herbicide: Harness Xtra. Corn Borer Pressure: Light. Soil Type: Heavy Loam. Weather: May-normal, June-dry, July-dry, August-normal. Notes: Plot had 100+ mph winds on 6/29. All tangled and goose necked to the next row. Impossible to walk thru to collect all data. By harvesting slowly, John had very little grain loss with combine.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW
BURRUS 6Y61 DG VT2P	252.2	21.8	57.4
BURRUS 7F33 VT2P	228.1	24.2	58.0
BURRUS 7P71 VT2P	219.8	23.6	58.4
POWER PLUS 4C14AM	219.1	18.4	56.5
BURRUS 7T27 SSP	214.2	21.4	58.8
POWER PLUS 4C16 Q	209.1	18.5	55.6
POWER PLUS 5F17 Q	203.2	20.8	56.2
POWER PLUS 3V14AM	201.3	17.3	57.6
Average	218.4	20.8	57.3

CONTROLLING CORN ROOTWORM

A quick look at the traits available to tackle CRW in your fields.

by MELISSA GRAFTON

Corn traits are a revolving door of technology with something new released every few years. It is a struggle to keep up with and understand how to use these products to their full potential. In this article we are going to discuss the above and below ground rootworm protection traits in our portfolio to help you make informed decisions regarding which products are right for your acres.

One of the "oldie" but still "goody" trait package in our portfolio is Bayer's SmartStax® technology. Introduced to the market in 2009, this combination offers 2 traits to protect against rootworm with the Cry34/Cry35Ab1 and Cry3Bb1 for above and below ground protection. Additionally, this technology brings Lepidopteran control with Cry1A.105, Cry2Ab2, and Cry1F. SmartStax also provides weed control options with tolerance to both glyphosate and glufosinate.

In 2020, Qrome[®] was released by Corteva. It offers protection against rootworm similar to SmartStax, but with a different combination of Bts. The 2 modes of action for rootworm control are Cry34/Cry35Ab1 and mCry3A and contains Poncho[®] 1250 seed treatment for added protection. Qrome's Lepidopteran control comes from Cry1F and Cry1AB. Qrome also provides tolerance to glyphosate and glufosinate herbicides.

One of the newest traits to hit the market is SmartStax[®] PRO. This product contains the same Bt and herbicide traits as SmartStax but adds a third mode of action for rootworm control with dvSnf7, which is a RNAi transgene. How is this different from the standard Bt triat? Typical Bt transgene is a bacterium that, when ingested, creates a protein which sticks to the gut lining of the host. This protein breaks down the gut lining, releasing the hosts' own bacteria into the body cavity, killing the host. The dvSnf7 is an RNA interference transgene. When ingested, the RNAi will turn off the genetic code for the dvSnf7 mechanism, an essential protein for life in rootworms. When the rootworm ingests the RNAi, it will stop making the Snf7 protein and die.

In early 2023, Corteva announced they have received all necessary approvals to release Vorceed[™] into the industry. It has 3 modes of action for rootworm control, Cry3Bb1, Cry34/ Cry35Ab1 and RNAi dvSnf7 along with control for Lepidopteran species from Cry1F, Cry1a.105 and Cry2Ab2. Unique to Vorceed, it offers more options for weed control with tolerance to glyphosate, glufosinate, 2,4-D choline and FOP.

Corn rootworm can be a very invasive species that can cause devastating damage. Resistance is a very real concern. To prevent resistance, we recommend starting with the simplest solution of crop rotation. When that is not an option, determine the amount of pressure and start with the minimal mode of action. It is also beneficial to rotate technologies when possible and save SmartStax PRO and Vorceed for extreme cases.

As always, applying insecticide at planting helps reduce pressure. Scouting fields regularly helps growers stay ahead of the issue and understand how much pressure there really is in their fields. Burrus Seed has a product for every rootworm acre. If you have questions on which products are right for you, please speak to your Burrus Representative.



Everyone was all smiles as Power Plus[®] 5F17 Q[™]* led the charge at 224 bu/a in LaSalle Co. for Ruth McGrath, Tina, Jeff & Reagan Busch, & Jay McGrath.

10 ILLINOIS



Carter Hackman and his grandpa John Breedlove are ready to put in a full day's work in Tazewell Co.

MCLEAN

Breedlove Farms Towanda, IL



Planted: April 26 in 30" rows at 34,000. Harvested: Oct. 25. Previous Crop: Soybeans. Fertilizer: N: 250. Herbicide: Halex. Corn Borer Pressure: Light. Soil Type: Sand. Weather: May-dry, June-dry, Julydry, August-dry. Notes: Miravis fungicide applied.

BRAND/PRODUCT	BU/A	% MOISTURI
DeKalb DKC68-35RIB	310.1	11.4
DeKalb DKC67-94RIB	304.3	12.9
BURRUS 6Y61 DG VT2P	300.9	10.7
BURRUS 6A38 SS	299.7	10.7
DeKalb DKC66-06 TRE	296.3	13.5
DeKalb DKC65-95RIB	285.9	12.8
DeKalb DKC64-22RIB	281.4	11.3
Pioneer P1278Q	277.9	13.1
DeKalb DKC111-35RIB	267.6	12.8
DeKalb DKC110-10RIB	266.4	11.7
DeKalb DKC62-70RIB	260.7	11.6
Average	286.5	12.0
•		



Caleb Rahe, grandson of Burrus General Sales Manager Kurt Rahe, is learning the ropes of farming young!



Ethan has been involved with 14 harvests and 11 as a full-time team member. One of Ethan's strengths is that he isn't afraid to tackle anything thrown at him. He primarily spends harvest helping Ron Breckon manage the husk and sort building and all that is involved with that process.

MCHENRY

NEW Power Plus[®] 3G31AM[™]* powered to the top at 248 bu/a!

Hughes Seed Farms Woodstock, IL

Planted: May 6 in 30" rows. **Harvested:** Oct. 18. **Previous Crop:** Soybeans.

BRAND/PRODUCT	
POWER PLUS 3G31AM	
BURRUS 7P71 VT2P	
POWER PLUS 5J21AM	
POWER PLUS 5L44AM	
BURRUS 7T27 SSP	
BURRUS 6A38 SS	
POWER PLUS 4C14AM	
BURRUS 9022 TRE	
POWER PLUS 2Y06AM	
POWER PLUS 1U41AM	
POWER PLUS 4R56 Q	
POWER PLUS 6M89 Q	
POWER PLUS 3W97 Q	
BURRUS 7F33 VT2P	
POWER PLUS 5U63AM	
POWER PLUS 5F17 Q	
BURRUS X6K13	
BURRUS 6Y61 DG VT2P	
POWER PLUS 4C16 Q	
POWER PLUS 3V14AM	
POWER PLUS 2J67 Q	
POWER PLUS 2W400 Q	
BURRUS 7N88 SS	
POWER PLUS 1K18 Q	
POWER PLUS 6W81AM	
POWER PLUS 1K18 Q	
PUWEK PLUS 9L82 Q	
A	
Average	

Harvested: Oct. 18.							
BU/A	% MOISTURE	ADJ. TW					
248.1	22.3	54.1					
244.4	30.1	51.1					
244.1	24.9	52.5					
242.5	23.0	53.5					
238.6	28.6	51.2					
235.5	23.2	54.2					
235.5	23.5	53.0					
235.5	20.5	55.2					
234.6	21.1	55.4					
234.4	21.8	54.3					
232.9	22.0	55.0					
231.6	27.1	51.1					
231.0	21.3	55.9					
229.7	28.8	51.1					
228.0	25.2	51.8					
225.2	23.1	53.9					
224.1	26.7	51.2					
222.6	26.1	51.3					
220.2	22.9	53.8					
218.0	22.3	54.6					
217.7	22.0	54.6					
215.3	20.0	56.5					
215.3	29.3	50.8					
211.2	20.1	56.5					
207.9	24.9	52.5					
203.3	19.8	56.7					
185.2	18.7	57.9					

53.7

226.4 23.7

MONROE

Matt Schaefer Columbia, IL



ADJ.

Planted: May 10 in 30" rows at 35,000. **Harvested:** Oct. 16. **Previous Crop:** Corn. **Soil Type:** Med. Loam. **Weather:** May-normal, Junedry, July-wet, August-normal. **CHECK Hybrid:** LG Seeds LG67C07VT2P. **Notes:** Treated with fungicide.

BRAND/PRODUCT	BU/A	RANK	MOISTURE	TW
✓ CHECK	160.9		17.8	61.8
Channel 210-46VT2PRIB	230.6	4	15.9	59.4
NuTech 70A8AM	210.0	10	15.6	60.8
Channel 210-08//T2PBIR	168.3	/1	16.0	50.0
	00.0	4	16.0	50.4 50.7
	234.9	1	10.3	00./
BUKKUS 5A84 VI2P	193.3	32	16.3	60.4
Channel 211-11VI2P	230.2	2	16.2	64.0
Wyffels W6886RIB	217.6	7	17.5	62.0
✓ CHECK	153.9		17.2	61.1
Channel 212-02VT2PRIB	160.0	42	16.4	60.7
AaVenture AV9412AM	207.6	16	15.5	59.3
AgriGold A642-05VT2RIBD1	220.8	8	17.5	61.5
Channel 213-19VT2PRIB	210.1	19	17.0	61.4
AnVenture AV/7013AM	226.0	11	16.6	61.6
LC Soode LCG2C02DCVT2DID	220.0	5	17.0	61 /
Lu Seeus Luusuozuuviznid	234.0	01	10.5	01.4
	213.3	21	10.0	01.2
✓ CHECK	1/4.1		17.0	63.1
AgVenture AV3213AM	247.1	3	16.2	62.4
BURRUS 6Y61 DG VT2P	219.8	20	16.9	60.8
AgriGold A643-52VT2PRO	223.3	17	16.3	59.4
Wyffels W7945RIB	219.2	26	16.6	65.8
AgVenture AV3514AML	241.3	6	17.5	61.2
BUBBUS 7F33 VT2P	216.3	29	17.3	61.6
Wyffels W7876BIB	216.7	28	17.9	58.9
	177.6	20	17.0	61.0
	0010	10	17.0	50 7
	201.0	01	10.0	09.1
AUVEIILUIE AV3214AIVI	210.0	00	10.2	00.1
	191.0	39	1/./	60.4
Wyttels W8086RIB	229.1	15	17.8	60.6
AgVenture AV3715AM	215.6	30	16.9	60.6
Channel 214-78DGVT2P	237.7	9	18.3	60.1
NuTech 74C4AM	231.7	12	17.4	62.2
✓ CHECK	176.7		17.6	61.8
Channel 215-60TRERIB	212.5	36	18.1	59.9
BURRUS 7P71 VT2P	233.5	14	17.8	61.5
AgriGold A645-16VT2PRO	229.3	18	18.9	60.5
Channel 215-70TRERIB	229.8	23	17.7	60.8
AgVantura AV2816AM	223.0	20	10.2	60.2
AgVenture AV2010AW	204.1	24	17.0	00.0 60.1
	234.0	20	1/.0	00.1
LG Seeds LG66644V12RIB	227.5	პპ	19.0	59.7
✓ CHECK	194.7		17.9	61.1
Channel 217-01VT2P	229.9	34	18.1	59.4
AgriGold A647-42TRC	226.8	35	19.9	58.7
NuTech 77A5AM	234.6	27	18.0	59.8
Wyffels W9218RIB	205.0	40	18.1	61.5
AgVenture AV3917AML	220.8	37	19.0	60.2
Channel 218-55TRERIB	215.0	38	17.2	60.4
LG Seeds LG68C18V/T2RIR	169.3	43	20.2	60.0
LC Soude LC60C02V/T2PIB	227.0	-10 00	20.2 01.0	61 /
	100 1	22	10 0	01.4 C0 E
	192.1		10.0	00.0
A. 10 10 00	010.4		475	
Average	213.4		17.5	60.8
Chaoli Average	 175 7		17.0	
Uneck Average	1/5./		17.6	61.5

MONTGOMERY

Brian Brown Hillsboro, IL



Planted: May 2 in 30" rows at 32,000. Harvested: Oct. 19. Previous Crop: Corn. Soil Type: Light Clay. ✓CHECK Hybrid: Midwest 14-60 TRERIB.

BRAND/PRODUCT	BU/A	RANK	% MOISTURE	ADJ. TW	
✓ CHECK	166.7		16.8	62.8	
Golden Harvest G10L16-DV	148.5	21	15.5	58.3	
Golden Harvest G10B61-AA	155.5	18	16.7	60.1	
Golden Harvest G12S75-D	141.6	26	16.8	58.7	
Golden Harvest G11V76-AA	163.9	10	17.1	59.8	
Golden Harvest G13B17-AA	159.5	13	17.8	59.4	
Golden Harvest G13D55-V	154.5	30	16.4	62.4	
Golden Harvest G14B32-DV	157.0	29	15.9	61.2	
Golden Harvest G15J91-V	184.3	8	18.8	60.5	
Golden Harvest G16Q82-AA	184.7	6	17.3	61.8	
Golden Harvest G17B31-V	184.7	6	18.6	60.1	
✓ CHECK	204.5		16.3	61.6	
POWER PLUS 5J21AM	186.5	17	15.8	60.5	
BURRUS 5A84 VT2P	186.7	16	16.4	62.5	
BURRUS 7G44 V	179.0	20	17.8	57.3	
BURRUS X6K13	172.4	24	15.9	59.4	
POWER PLUS 6W81AM	171.5	27	15.6	61.9	
BURRUS 6Y61 DG VT2P	189.3	14	15.9	61.0	
BURRUS 7F33 VT2P	194.9	9	16.8	62.6	
✓ CHECK	207.3		16.1	61.0	
LG Seeds LG60C86-5222	194.0	12	17.2	61.9	
LG Seeds LG62C22VT2RIB	164.1	32	16.2	61.4	
LG Seeds LG61C34SSRIB	191.9	15	16.1	62.3	
LG Seeds LG63C77SSRIB	179.8	22	15.3	62.4	
LG Seeds LG63C82DGVT2RIB	211.7	3	16.2	61.9	
LG Seeds LG64C43VT2RIB	213.8	4	18.3	59.7	
LG Seeds LG66C44VT2RIB	224.2	1	17.8	62.0	
LG Seeds LG64C20-3220	199.7	11	16.7	59.6	
LG Seeds LG66C06VT2RIB	190.9	19	18.5	61.3	
✓ CHECK	217.3		16.4	60.7	
Crow's 08-06 VT2PRIB	183.6	23	15.7	60.5	
Crow's 12-48 DGVT2P	182.7	25	16.1	61.8	
Crow's 14-36 PCE	173.2	31	17.0	62.0	
Crow's EX14-37 PCE	177.3	28	17.2	61.3	
Crow's 14-88 VT2P	208.6	5	16.2	63.7	
Crow's EX15-22 VT2P	220.2	2	17.6	63.4	
✓ CHECK	214.5		16.0	63.5	
Average	184.9		16.7	61.1	
Check Average	202.1		16.3	61.9	



Blue skies made for a perfect harvest day for Rahe Farms in Morgan Co.



Ron, Christopher (top), Andrew (inside) & Jason Fuchs saw the Burrus and Power Plus® products capture all the top spots in their Morgan Co. plot.

MORGAN

Burrus 7F33 VT2P and Power Plus[®] 6W81AM[™]* go neck and neck for the top spot!

Jason Fuchs Franklin, IL

Planted: April 24 in 30" rows at 34,600. Harvested: Oct. 11. Previous Crop: Soybeans. Fertilizer: N: 140, P: 150, K: 150. Herbicide: Status, Batallion, Anthem Maxx, Cavallo. Soil Type: Heavy Loam. Weather: May-wet, June-dry, July-dry, August-dry. Notes: Wind storm on June 29.

RRAND/PRODUCT	RII/A	% MOISTURE	ADJ.
	047 7	40.0	CO 6
	241.1	13.3	00.0
PUWER PLUS 6W81AM	247.4	13.0	60.5
BURRUS 6Y61 DG VI2P	246.9	14.0	60.5
BURRUS 7P71 VT2P	246.4	15.4	60.0
POWER PLUS 4R56 Q	243.5	11.8	59.0
POWER PLUS 3G31AM	242.8	12.5	56.5
POWER PLUS 5J21AM	240.4	11.6	58.0
POWER PLUS 4C14AM	238.3	12.8	57.0
Dyna-Gro D55VC80	237.1	14.1	60.0
DeKalb DKC66-06 TRE	230.9	15.5	61.0
BURRUS X6K13	230.0	15.0	59.0
BURRUS 7T27 SSP	225.7	14.4	61.0
POWER PLUS 6B86 Q	222.8	13.7	58.5
DeKalb DKC62-70RIB	217.7	14.3	60.5
POWER PLUS 5F17 Q	214.4	13.7	57.0
POWER PLUS 5U63AM	213.0	12.3	57.0
BURRUS 8A12 VT2P	211.5	15.2	59.0
DeKalb DKC111-35RIB	208.7	16.0	58.5
DeKalb DKC67-94RIB	208.3	17.1	59.8
DeKalb DKC64-22BIB	199.7	14.9	60.0
Dyna-Gro D53SS13BIB	1917	12.1	61 (
RUBBUS 5484 VT2P	169 9	13.9	55.5
Δνετασε	224 3	13.0	50 1
	LLT.U	10.0	00.1

OGLE

Power Plus® 2J67 $Q^{\text{TM}*}$ was walking tall and carrying a big stick!

Jerry King Leaf River, IL



Planted: May 2 in 30" rows at 34,500. **Harvested:** Sept. 30. **Previous Crop:** Corn.

BRAND/PRODUCT	BU/A	MOISTURE
POWER PLUS 2J67 Q	270.0	27.0
Pioneer P0529Q	261.8	26.2
Wyffels W5019RIB	261.3	25.4
POWER PLUS 1U41AM	261.2	23.9
DeKalb DKC105-33RIB	255.9	23.8
Wyffels W5778RIB	255.0	25.7
Pioneer P0487Q	252.9	26.5
DeKalb DKC107-33RIB	252.0	26.5
Brevant B04R11Q	251.2	24.3
Wyffels W3309RIB	247.5	25.7
POWER PLUS 2W400 Q	243.2	23.5
Pioneer P0035Q	239.2	24.3
POWER PLUS 2Y06AM	238.5	23.1
Dyna-Gro D45SP33RIB	236.8	24.1
POWER PLUS 4C16 Q	227.4	24.5
Pioneer P0487Q	226.0	24.0
Pioneer P9955Q	214.4	22.2
Average	246.7	24.7



Chuck Schafer of Peoria Co. found the top three spots occupied by Power $Plus^{\circledast}$ Qrome^ products.

PEORIA

Chuck Schafer Edelstein, IL

Planted: April 19 in 30" rows at 32,000. Harvested: Sept. 26. Previous Crop: Soybeans. Fertilizer: N: 120. Soil Type: Sand. Weather: May-dry, June-dry, July-dry, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	STAND (x 1000)
POWER PLUS 4C16 Q	185.3	26.0	54.5	30
POWER PLUS 4R56 Q	173.4	23.5	54.9	32
POWER PLUS 6B86 Q	170.6	28.0	58.0	31
POWER PLUS 5L44AM	163.4	22.2	57.5	35
BURRUS 7N88 SS	161.5	25.6	54.4	28
BURRUS 6A38 SS	159.4	20.5	55.2	32
POWER PLUS 5F17 Q	158.8	23.2	54.7	29
Average	167.5	24.1	55.6	31

Pete Gill Princeville, IL

Planted: April 19 in 30" rows at 34,000. Harvested: Sept. 26. Previous Crop: Soybeans. Fertilizer: N: 200, P: 100, K: 100. Soil Type: Heavy Loam. Weather: May-dry, June-dry, July-dry, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW
POWER PLUS 4C16 Q	210.3	21.4	58.3
POWER PLUS 5J21AM	208.7	22.0	58.0
BURRUS 7N88 SS	201.1	27.5	58.9
POWER PLUS 4R56 Q	197.2	22.3	57.5
POWER PLUS 5F17 Q	195.2	20.0	57.5
POWER PLUS 5L44AM	194.4	19.9	57.9
BURRUS 7F33 VT2P	177.5	26.0	58.5
BURRUS 6A38 SS	172.8	25.8	59.4
BURRUS 7T27 SSP	171.1	27.0	57.8
POWER PLUS 6J92AM	171.0	22.9	57.6
POWER PLUS 6B86 Q	162.4	25.4	57.3
POWER PLUS 2J67 Q	145.8	18.5	57.6
Average	184.0	23.2	58.0



Power Plus® 4C16 Q^{™*} led the pack with 210 bu/a for Pete Gill, Josh Bird, Kyle Bird & Charlie in Peoria Co.

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PIKE

Dave Lagemann Pearl, IL

Planted: April 14 in 30" rows at 32,000. Harvested: Oct. 2. Previous Crop: Soybeans. Fertilizer: N: 150. Soil Type: Clay Loam. Weather: May-dry, June-dry, July-dry, August-normal.

PRAND/PRODUCT	DII/A	% MOISTURE	ADJ.	%	STAND
	DU/A		50.0		(x 1000)
PUWER PLUS 4C14AM	249.2	10.8	58.0	100	30
POWER PLUS 5J21AM	242.8	11.5	58.0	100	29
BURRUS 7P71 VT2P	239.6	14.2	60.0	100	30
BURRUS 7F33 VT2P	239.0	13.9	59.0	100	29
BURRUS X6K13	236.9	12.6	59.0	100	30
BURRUS 8A12 VT2P	235.2	15.1	60.0	100	30
BURRUS 5A84 VT2P	234.5	10.8	59.0	99	31
POWER PLUS 6W81AM	233.3	12.9	60.0	100	30
BURRUS 6Y61 DG VT2P	229.9	12.4	60.0	100	29
BURRUS 6G34 VT2P	226.1	13.1	59.0	100	30
POWER PLUS 5U63AM	223.2	12.4	58.0	99	29
Average	235.4	12.7	59.1	100	30

FROST DAMAGE EFFECTS

What to expect from frost damaged cornfields.

by MELISSA GRAFTON

Much of the central corn belt experienced a mild winter followed by early warmth with drier soils making an early planting window tempting. Many considered the risk versus the reward to take advantage of such an opportunity.

Potential advantages of early planting are increased yields, higher quality pollinations by beating the summer heat and drought, and the opportunity to cover more ground in a timely manner. Some of the risks include imbibitional chilling, seedling damage from disease and pests, frost damage to tissue, and delayed, uneven emergence. All these factors can reduce yield or even lead to death.

Some growers decided to take advantage of the opportunity and were able to get a few acres planted. The warm period switched to cool with night temperatures dropping around 30 degrees, causing frost to form in low laying areas. A few weeks later, concerns of possible crop damage were confirmed.

We saw typical signs of frost damage with affected plants growing in a whorled fashion and the unifoliate and first true leaf dying. After digging a few plants, we discovered the mesocotyl and the coleoptile tissue remained white and healthy. Because the growing point was below the soil surface and there was enough healthy tissue, we decided the majority of the plants would survive and a replant would not be necessary.

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As time progressed, plants affected by early frost damage had decreased vigor and struggled to compete against healthy plants. The overall results showed decreased plant height and yield.

It's safe to say the risk had some negative effects. If early planting is a must for your operation, there are steps you can take to reduce the risk.

- 1. Ensure weather conditions are favorable for 1 to 2 days following planting.
- 2. Make sure soil and planting conditions are optimal:
 - Minimum 50°F soil temperature.
 - Adequate soil moisture; too much can lead to compaction, too little can lead to inadequate imbibition for seed germination.
 - Optimal planting depth; target depth should be just below the moisture line.
- Select products with high emergence and early vigor ratings like our Power Plus[®] 4C14AM[™]*.
- Utilize a quality seed treatment and insecticide. With early planting comes slower emergence. Everything you can do to protect the seed while it is in the ground is a must.

We cannot control the weather but following these 4 steps will help reduce the risks of early planting. Always refer to your local Burrus Representative to find the best products fit for early plant situations.



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Ears from frost damaged plants (left) were 1-point drier than ears from non-damaged plants (right).

SANGAMON

Curtis Biesenthal New Berlin, IL

Planted: April 24 in 30" rows at 36,000. Harvested: Sept. 28. Previous Crop: Soybeans. Fertilizer: N: 200, P: 92, K: 120. Soil Type: Heavy Loam. Weather: May-dry, June-dry, July-normal, August-normal. ✓CHECK Hybrid: DeKalb DKC67-94RIB. Notes: Field was affected by a June tornado and hail in July.

			%	ADJ.	
BRAND/PRODUCT	BU/A	RANK	MOISTURE	TW	
✓ CHECK	192.7		18.0	61.0	
POWER PLUS 4C14AM	203.9	1	15.5	58.0	
POWER PLUS 4C16 Q	197.6	9	15.6	59.5	
POWER PLUS 5F17 Q	180.9	21	16.6	60.5	
POWER PLUS 5J21AM	206.5	2	16.6	59.7	
POWER PLUS 5L44AM	193.9	13	16.2	60.8	
POWER PLUS 5U63AM	174.4	23	17.9	59.0	
✓ CHECK	199.1		19.0	61.5	
BURRUS X6K13	175.0	22	18.3	61.5	
BURRUS 6A38 SS	189.1	17	18.6	61.9	
BURRUS 6Y61 DG VT2P	202.6	7	17.9	62.5	
POWER PLUS 6B86 Q	197.1	8	18.0	60.8	
BURRUS 7T27 SSP	182.9	18	18.4	61.0	
BURRUS 7F33 VT2P	181.3	20	18.8	62.0	
✓ CHECK	190.6		19.2	61.7	
BURRUS 7N88 SS	185.5	15	19.2	64.2	
BURRUS 8A12 VT2P	197.4	4	20.0	63.5	
Stone DG5924RIB	186.9	12	15.6	58.0	
Stone 1132TRE	180.3	16	15.1	58.0	
Stone 6362RIB	184.0	14	17.9	58.8	
Stone 1303SP	178.2	19	16.8	61.2	
✓ CHECK	187.2		19.1	61.7	
Stone 1304TRE	189.9	11	17.6	60.4	
Stone 1403TRE	196.1	5	17.8	63.5	
Stone 6542RIB	196.7	6	19.1	62.5	
Stone 1504TRE	195.0	10	18.9	62.0	
Stone 1812DP	200.8	3	21.2	62.1	
✓ CHECK	193.5		18.9	60.2	
Average	190.7		17.9	61.0	
Check Average	192.6		18.8	61.2	



The Burrus lineup placed in Tice Farms' Shelby Co. plot averaged 243 bu/a for Tice Robinson & Burrus AM Griffin Greene.

SHELBY

Jeff Schultz Stewardson, IL

Planted: April 26 in 30" rows at 36,000. Harvested: Oct. 2. Previous Crop: Soybeans. Corn Borer Pressure: Light. Soil Type: Med. Loam. Weather: May-dry, June-dry, July-dry, August-dry. **CHECK Hybrid:** Burrus 6A38 SS.

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BRAND/PRODUCT	BU/A	RANK	% MOISTURE	% ERECT	ADJ. TW	(x 1000)
✓ CHECK	229.2		17.2	100	55.3	31
POWER PLUS 4C14AM	245.2	2	14.5	100	53.0	30
POWER PLUS 5L44AM	239.9	3	15.7	100	53.0	31
POWER PLUS 5F17 Q	245.0	6	15.9	100	54.0	28
POWER PLUS 6W81AM	271.2	1	16.5	90	54.7	30
✓ CHECK	270.3		16.2	100	55.0	30
POWER PLUS 6B86 Q	270.4	4	17.6	100	53.9	30
BURRUS 7F33 VT2P	265.2	5	17.5	100	56.4	29
BURRUS 7T27 SSP	241.6	8	17.7	100	52.9	30
BURRUS 7N88 SS	273.2	7	18.4	100	54.5	31
✓ CHECK	295.4		18.3	90	54.0	32
Average	258.8		16.9	98	54.2	30
Check Average	265.0		17.2	97	54.8	31



Burrus AM Tim Zastrow evaluated stands for his growers in McHenry Co.

Tice Farms Shelbyville, IL

Planted: April 15 in 30" rows at 34,500. **Harvested:** Sept. 15. **Previous Crop:** Soybeans. **Herbicide:** Lexar. **Soil Type:** Heavy Loam. **Weather:** May-dry, June-dry, July-normal, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	% ERECT	STAND (x 1000)
BURRUS 7F33 VT2P	257.0	18.5	59.6	100	32
Burrus 7T27 SSP	250.3	19.1	60.7	100	31
BURRUS 7P71 VT2P	246.1	18.8	59.7	100	30
Burrus 6A38 SS	245.0	19.1	59.7	100	31
POWER PLUS 6W81AM	242.3	18.6	59.1	100	31
POWER PLUS 5J21AM	241.6	18.5	59.6	100	32
BURRUS X6K13	232.4	18.3	58.5	100	33
Power Plus 6B86 Q	229.2	19.5	57.9	100	31
Average	 243.0	 18.8	5 9.4	100	31

TAZEWELL

Delayne Durdle Green Valley, IL

Planted: April 14 in 30" rows at 35,000. **Harvested:** Sept. 20. **Previous Crop:** Soybeans. **Weather:** Maydry, June-dry, July-dry, August-dry.

BRAND/PRODUCT	BU/A	MOISTURE
Beck's 6585TCV2P	224.5	21.0
Pioneer P1511AM	222.5	20.7
FS 6595 VT2PRIB	216.8	21.1
BURRUS 7F33 VT2P	215.5	19.1
LG Seeds LG63C82DGVT2RIB	203.7	17.8
Pioneer P1222AM	201.5	18.6
BURRUS 7N88 SS	200.9	20.6
Pioneer P1742Q	196.9	20.8
DeKalb DKC64-22RIB	195.9	18.3
Pioneer P1027AM	193.1	17.8
DeKalb DKC66-18RIB	192.1	21.3
DeKalb DKC66-06RIB	190.3	20.5
POWER PLUS 4C14AM	190.0	17.8
BURRUS 6A38 SS	188.1	19.2
Beck's 6374V2P	186.6	18.1
DeKalb DKC64-34RIB	184.7	18.4
LG Seeds LG66C06VT2RIB	181.0	21.7
Wyffels W7945RIB	180.4	21.4
DeKalb DKC67-94RIB	180.2	21.0
Pioneer P1136AM	169.1	18.6
Wyffels W7876RIB	164.6	20.4
Average	194.2	19.7

FOLLOW US @BURRUSSEED

Power Plus[®] 6W81AM[™]* took top honors!

Wayne Deppert Green Valley, IL

Planted: April 26 in 30" rows at 35,000. Harvested: Oct. 8. Previous Crop: Soybeans. Fertilizer: N: 200, P: 150, K: 150. Herbicide: Bicep-pre, Halex-post. Soil Type: Med. Loam. Weather: May-dry, June-dry, July-dry, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	% ERECT	STAND (x 1000)
POWER PLUS 6W81AM	253.8	16.8	61.2	98	33
BURRUS 7F33 VT2P	251.4	17.3	61.3	95	33
BURRUS 7T27 SSP	247.0	17.1	61.3	95	33
POWER PLUS 5F17 Q	246.9	15.7	60.0	96	33
POWER PLUS 5L44AM	245.1	16.0	59.0	97	33
BURRUS 7P71 VT2P	244.4	17.4	61.3	98	33
POWER PLUS 5J21AM	243.4	16.3	59.0	97	33
POWER PLUS 6B86 Q	240.5	17.6	60.9	99	33
POWER PLUS 4C14AM	237.4	15.1	58.0	84	33
BURRUS 6A38 SS	237.1	17.0	61.3	95	33
BURRUS 6Y61 DG VT2P	234.9	16.9	61.7	95	33
POWER PLUS 5U63AM	232.1	17.0	59.8	94	33
Average	242.8	16.7	60.4	95	33



Jeff Merema & Burrus AM Riley Fluegel check out some good corn yields in Whiteside Co.

WARREN

JLM, Inc. - K&M Curtis Prairie City, IL

Planted: May 5 at 35,000. Harvested: Oct. 25. Previous Crop: Soybeans.

RRAND /RRODUCT	D11/A	% MOISTURE
BRAND/PRODUCT	DU/A	MUISIUNE
Prairie 8864	240.0	17.2
BURRUS 6V90	235.3	16.1
LG Seeds LG60C86	230.5	18.3
POWER PLUS 6H80	228.7	17.2
Prairie 5883	219.0	15.4
LG Seeds LG66C28-3220	217.6	16.2
Prairie 7583	217.2	15.9
LG Seeds LG64C20-3220	217.0	16.7
LG Seeds LG60C86-5222	215.2	16.0
Golden Harvest G0723-3111	210.4	15.1
POWER PLUS 4R40	210.1	14.9
LG Seeds LG59C72VT2PRIB	207.5	15.0
Prairie 4273	205.7	16.1
LG Seeds LG57C97VT2PRO	205.3	14.9
Golden Harvest G0723-3111	204.5	15.6
Average	217.6	16.0



Burrus summer intern Sam Hensley erects a Burrus field sign, helping us showcase a cornfield.

WHITESIDE

Jeff Merema Fulton, IL

Planted: May 5 in 30" rows at 34,000. **Harvested:** Oct. 20. **Previous Crop:** Soybeans. **Soil Type:** Heavy Loam. **Weather:** May-normal, June-dry, July-normal, August-dry.

ADJ. TW

59.1

61.1

64.6 60.8

61.2

62.9

64.2

63.3

62.0

61.9

62.0

63.0

59.9

63.1

59.1

61.2

61.5

58.4

60.9

58.7

60.8

61.7

60.8

62.0

61.3

61.1

58.5

62.3

62.4

60.5

59.7

61.6

60.0

60.5

61.6

62.6

61.3

BRAND/PRODUCT	BU/A	% MOISTURE
Pioneer P1742Q	281.7	20.9
POWER PLUS 6B86 Q	262.8	19.3
DeKalb DKC64-22RIB	262.6	18.5
Pioneer P12065Q	259.8	19.3
Pioneer P14830Q	259.5	19.3
LG Seeds LG66C44SSRIB	258.6	19.0
POWER PLUS 6M89 Q	258.1	18.8
BURRUS 7N88 SS	258.0	20.3
BURRUS 7P71 VT2P	256.7	19.3
DeKalb DKC110-10	256.6	18.2
Pioneer P0924Q	253.8	18.8
BURRUS 7127 SSP	253.2	18.9
DeKalb DKC59-82RIB	252.4	18.1
POWER PLUS 6W81AM	251.7	18./
Pioneer P10477Q	251.5	19.6
POWER PLUS 3G31AM	251.1	18.2
PUWER PLUS 5F1/ U	248.7	18.9
Golden Harvest G 15J91-V	247.6	20.1
Colden Llagreet C14D20 DV	240.0	10.4
DOWED DI US 2167 O	240.9	19.0
POWER PLUS 2J07 Q	240.0	10.0
Wuffold W7526DCDIR	24J.1 245 /	18.6
POWER PI IIS 3W97 0	24J.4 241.2	18.5
RIIRRIIS 7F33 VT2P	244.2	18.5
Pioneer P080750	240.0	18.6
DeKalb DKC56-26BIB	242.0	17.5
POWER PLUS 4856 0	236.8	18.2
I G Seeds I G63C77SSBIB	235.2	18.5
Golden Harvest G10B61-AA	235.0	18.3
LG Seeds LG60C47SSRIB	231.4	17.8
POWER PLUS 5L44AM	230.2	18.5
Golden Harvest G11V76-D	229.0	18.0
POWER PLUS 4C16 Q	227.5	18.0
Wyffels W7208RIB	226.7	18.9
BURRUS 6A38 SS	225.4	18.5
Average	247.3	18.8

WILL

Synergy Seeds Wilmington, IL

Planted: May 5. Harvested: Oct. 4.

		%
BRAND/PRODUCT	BU/A	MOISTURE
DeKalb DKC66-06 TRE	260.7	23.2
ProHarvest 84P78TRERIB	256.9	23.1
POWER PLUS 5F17 Q	255.8	20.6
ProHarvest 79P87SSRIB	255.3	20.7
POWER PLUS 3G31AM	254.4	18.8
Wyffels W8936DGRIB	252.2	22.8
ProHarvest X23720	250.9	22.3
DeKalb DKC67-37RIB	250.8	24.1
Wyffels W7945RIB	250.2	22.3
Wyffels W7876RIB	249.5	23.1
DeKalb DKC66-18RIB	248.5	22.9

ProHarvest 83P66VT2PRIB	248.4	22.7
ProHarvest 84P47SSBIB	247.8	22.9
AgriGold A640-12STXRIB	247.2	21.4
POWER PLUS 5.121AM	246 7	20.2
AgriGold A643-52VT2PRO	246.6	22.7
Wyffels W8086BIB	246.3	22.6
AgriGold A636-16VT2BIB	245.0	20.3
	245.5	17.0
AgriGold A630-031/T2BIB	243.2	10.6
AgriGold A644-64VT2RIB	244.5	23.0
Diopoor D00240	244.0	20.0
Wuffale W7048PIR	244.0	21.1
Diopoor D11020	244.0	22.0
Wuffale W7750DIR	243.7	21.0
Wyffolc W6215DIR	240.0	10.2
Wylicis W02 IJRID DroHarwoot 02070//T20DID	243.3	19.0
AgriCold AG42 01WV	242.0	21.7
	242.0	20.1
PIUTAIVESL 0300V IZP	242.0	22.0
	241.9	21.3
Proharvest & IPONTRERIB	241.0	21.0
	241.6	22.6
Proharvest 82P685SPRURIB	241.6	22.1
Dekalb DKC64-22RIB	241.5	22.0
NK Brand NK1480-DV	241.0	21.3
Wyffels W5778RIB	240.2	20.0
POWER PLUS 2J67 Q	240.1	18.9
ProHarvest //P19V12PRIB	239.9	18.9
ProHarvest 75P85DGV12PRIB	238.8	15.0
ProHarvest 79P49VT2PRIB	238.5	20.8
ProHarvest 80P64CONV	238.1	19.6
DeKalb DKC66-04RIB	238.0	23.4
AgriGold A641-85STX	236.8	22.4
AgriGold A646-30VT2RIB	236.5	22.6
ProHarvest 84P32PCE	235.6	22.2
DeKalb DKC64-21	235.1	23.4
ProHarvest 83P33DGVT2PRIB	235.0	21.9
DeKalb DKC110-10	234.9	20.8
Wyffels W6886RIB	234.2	22.5
DeKalb DKC68-35RIB	234.1	23.5
Wyffels W5406RIB	233.8	20.9
Wyffels W7208RIB	233.6	22.1
DeKalb DKC111-35RIB	233.6	21.1
NK Brand NK1188-5122	232.8	22.3
Wyffels W3579RIB	230.1	18.3
Wyffels W8108RIB	229.9	23.1
POWER PLUS 5L44AM	229.3	19.9
DeKalb DKC59-82RIB	229.0	19.1
DeKalb DKC65-99	229.0	22.7
Pioneer P1563Q	229.0	23.5
NK Brand NK1040-AA	227.6	19.8
AgriGold A637-21WX	225.2	19.8
POWER PLUS 6W81AM	221.9	21.6
Wyffels W5019RIB	221.0	20.0
NK Brand NK0835-AA	218.7	20.2

Average





Burrus AM Trent Severns conducts a customer field check in Champaign Co.

WINNEBAGO

Peterson-Daly Farms LLC Pecatonica, IL

Planted: May 17 in 30" rows at 32,000. **Harvested:** Oct. 23. **Previous Crop:** Soybeans. **Soil Type:** Med. Loam. **Weather:** May-normal, June-dry, July-normal, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW
POWER PLUS 1U41AM	201.0	19.0	58.7
POWER PLUS 6M89 Q	200.9	22.6	61.5
POWER PLUS 3W97 Q	200.7	19.8	61.3
POWER PLUS 2J67 Q	200.6	18.8	60.1
POWER PLUS 2Y06AM	199.9	19.0	60.6
POWER PLUS 9L82 Q	199.6	19.2	59.8
POWER PLUS 6B86 Q	199.1	21.8	60.3
BURRUS 6Y61 DG VT2P	199.0	21.2	60.2
POWER PLUS 2W400 Q	197.8	18.7	58.9
POWER PLUS 3G31AM	196.9	20.0	59.6
POWER PLUS 1K18 Q	196.4	18.6	59.2
POWER PLUS 5L44AM	195.9	20.9	61.1
BURRUS 7F33 VT2P	191.0	22.4	60.1
POWER PLUS 5F17 Q	188.5	20.5	61.4
BURRUS 6A38 SS	184.6	20.7	61.8
BURKUS /N88 SS	182.8	24.3	62.7
BUKKUS / 12/ SSP	102.1	20.8	01.0
BURKUS /P/1 VI2P	180.4	22.2	b1.U
PUWER PLUS 46 ID U	175.0	19.7	59.0
LG Seeds LG00000-3222	170.9	23.0 10 5	00.0 57.0
LG SEEUS LG3763335NID	1701	01.0	01.0
	1/0.1 179 9	21.0 91 5	01.4 61 5
	160.0	21.J 91.1	62 A
	160 /	21.1	61 1
LG Seeds LG63C82DGVT2BIB	169.0	20.1	59.3
LG Seeds LG61C34SSBIB	162.1	20.1	60.0
LG Seeds LG58C48VT2BIB	162.1	20.3	58.9
Stone DG5942BIB	156.3	18.6	56.9
LG Seeds LG62C22VT2BIB	154.2	22.2	60.4
Stone 0603SP	147.5	19.0	60.2
Average	182.7	20.6	60.3



Scarlett Knight has great taste, something she must have learned from her favorite Burrus Dealers, dad Tyler and grandpa Rick Knight!



BOND

Brian Zeeb Greenville, IL

Planted: May 5 in 30" rows at 130,000. **Harvested:** Oct. 10. **Previous Crop:** Corn. **Soil Type:** Clay. **Weather:** May-normal, Junenormal, July-dry, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE
NuTech 34N02E	80.4	11.6
DONMARIO DM 3932E	78.3	11.8
DONMARIO DM 3756E	76.4	11.3
BURRUS 3875E	76.0	11.4
DONMARIO DM 3756E	75.4	11.3
NuTech 37N03E	74.8	11.4
DONMARIO DM 40E44	73.5	11.5
BURRUS 3693E	71.8	11.8
DONMARIO DM 34E11	71.2	11.9
NuTech 42N05E	70.7	11.5
NuTech 39N07E	69.7	11.0
NuTech 36N04E	69.6	11.4
DONMARIO DM 41E73	69.5	12.2
DONMARIO DM 42E21S	67.8	11.9
Average	73.2	11.6

Weiss Farms - Andy Greenville, IL

Planted: May 4 in 30^{°°} rows at 130,000. **Harvested:** Oct. 18. **Previous Crop:** Corn. **Soil Type:** Light Clay. **Weather:** May-normal, Junedry, July-dry, August-normal. **Notes:** Starter used on all varieties except the lower yielding DM 3756E & NuTech 34N03 entries.

BRAND/PRODUCT	BU/A	% MOISTURE
NuTech 36N04E	71.3	14.6
NuTech 34N03E	71.0	14.6
DONMARIO DM 3756E	70.4	14.4
NuTech 37N07E	69.8	14.5
NuTech 42N05E	69.6	14.0
DONMARIO DM 3932E	66.1	14.6
DONMARIO DM 34E11	65.7	14.6
NuTech 34N03E	65.6	14.8
DONMARIO DM 3756E	64.9	14.1
DONMARIO DM 40E44	64.9	14.5
BURRUS 3693E	63.5	14.5
NuTech 39N07E	62.9	13.9
DONMARIO DM 42E21S	61.4	14.7
DONMARIO DM 41E73	57.4	14.4
Average	66.0	14.4



NEW Power Plus[®] 1U41AM^{™*} cranked out 201 bu/a to top the plot in Winnebago Co. for Burrus AM Riley Fluegel and Danny Daly.

GREENE

Gilmore Grain Farms, LLC Roodhouse, IL

Planted: May 2 in 30¹¹ rows at 140,000. **Harvested:** Oct. 10. **Previous Crop:** Corn.

BRAND/PRODUCT	BU/A	% MOISTURE
DONMARIO DM 34E11 PS SDS	71.4	11.9
DONMARIO DM 3756E PS SDS	68.9	12.4
DONMARIO DM 34E11 PS	68.9	12.3
DONMARIO DM 34E11 PS	68.0	12.1
BURRUS 3875E PS SDS	67.3	13.0
DONMARIO DM 3932E PS SDS	66.4	11.5
BURRUS 3693E PS SDS	60.9	11.7
Average	67.4	12.1



Joel & Jeff Schultz with Burrus AM Griffin Greene saw Burrus 6A38 SS hit 295.4 bu/a as the check in their Shelby Co. plot.

David & Brad Schutz Hillview, IL

Planted: April 28 in 30¹¹ rows at 145,000. **Harvested:** Oct. 9. **Previous Crop:** Corn.

BRAND/PRODUCT	BU/A	% MOISTURE
BURRUS 3886F	78.1	12.4
BURRUS 4292F	75.2	13.3
DONMARIO DM 36F84S	73.1	13.2
BURRUS 3464F	72.3	12.5
DONMARIO DM 41F33S	72.0	12.9
Average	74.1	12.9

IROQUOIS

NEW Burrus 3159E cranks out 93 bu/a battling for top spot!

Synergy Seeds - Onarga Onarga, IL

Planted: May 17 in 30". Harvested: Oct. 22. Previous Crop: Corn.

BRAND/PRODUCT	BU/A	% MOISTURE
Apex AE2940S	94.1	12.5
BURRUS 3159E	93.6	12.6
Merschman Cherokee 2429E	93.2	12.5
Apex AE3131S	92.8	12.5
NK Brand NK33-W2E3S	92.2	12.7
DONMABIO DM 27F34	91 6	12.6
ProHarvest 39F40S	90.6	12.5
Asgrow AG29XFA	89.5	12.0
Δηργ ΔΕ33/10	89.2	12.0
Marechman Kannady 1036F	88 Q	12.0
Diopoor D21A72E	00.3 99.7	12.4
Diopoor D27/19E	22 G	12.5
Acarow AC27YE1	00.0 00.1	12.0
	00.1 97 7	12.0 19 7
AgriCold C2640E2	07.6	10.7
Agridulu 03049E3	07.0 87.5	12.7
ASYIUW AGSSAFT Marcohman V2522	07.0	12.0
Mersehman Apacha 1026E	0/.I 07.0	12.4
	07.0	12.4
	01.0	10.0
	00.9	12.0
Apex AE2630	0.00	12.4
ProHarvest 27010	00.0 00.7	12.5
Apex AE3/205	80.7	12.4
Asgrow A3754	80.7	12.5
Asgrow AG33XF3	86.4	12.6
ProHarvest 37013S	86.4	12.6
AgriGold G3577E3	86.2	12.6
Merschman McKinley 2132E	86.0	12.6
ProHarvest 31E37	85.9	12.7
Merschman Lincoln 2431E	85.5	12.5
Apex AE2740	85.4	12.6
AgriGold G2951E3	85.0	12.6
ProHarvest 31C30	85.0	12.6
Apex AE3541	84.4	12.4
DONMARIO DM 28E52	84.2	12.5
NK Brand NK28-B9E3S	84.2	12.5
AgriGold G3279E3	84.1	12.4
Asgrow A3254	83.9	12.5
ProHarvest 37E41S	83.8	12.8
ProHarvest 38F46	83.6	12.6
ProHarvest 34C39S	83.3	12.5
NK Brand NK30-B2E3	82.8	12.6
ProHarvest 27E44	82.7	12.5
AgriGold G2549E3	82.6	12.6
ProHarvest 29E49	81.7	12.6
NK Brand NK37-C1E3	81.7	12.6
Asgrow A2954	80.0	12.6
Apex AE2600	79.7	12.5
Apex AE2930	79.6	12.7
ProHarvest 29C24	78.6	12.6
Asgrow AG26XF3	78.6	12.7
Legend LS 2580N HP	72.1	12.8
Average	85.8	12.6



Burrus Field Agronomist Chris Brown answers questions from the sales team on the 2024 hybrid lineup during infield training.

Synergy Seeds - L'Erable Clifton, IL

Planted: May 5 in 30" rows at 140,000. Harvested: Oct. 10. Previous Crop: Corn. Soil Type: Silty Clay Loam.

BRAND/PRODUCT	BU/A	% MOISTURE
ProHarvest 25E35	90.8	13.1
Apex AE3131S	83.3	12.7
BURRUS 3159E	82.5	13.3
Merschman Lincoln 2431E	81.7	12.6
Apex AE2930	81.2	14.6
Merschman McKinley 2132E	80.2	13.0
ProHarvest 31E37	80.2	13.0
Pioneer P31A73E	79.8	13.1
DONMARIO DM 28E52	79.0	13.0
Apex AE2740	78.2	12.9
Apex AE3340	78.0	12.5
Apex AE2940S	77.8	13.7
ProHarvest 29E49	77.5	13.0
Merschman Cherokee 2429E	75.6	12.9
Apex AE3330S	75.5	12.3
ProHarvest 37E41S	74.7	12.6
AgriGold G3279E3	74.1	12.6
Apex AE3720S	73.0	12.9
Apex AE2600	72.6	13.4
DONMARIO DM 27E34	72.2	13.1
Apex AE2630	72.1	13.6
AgriGold G2951E3	71.9	13.1
Pioneer P37A18E	71.6	12.5
ProHarvest 27E44	71.6	13.2
Apex AE3541	69.2	12.9
Merschman X2532	64.8	13.3
AgriGold G2549E3	62.9	13.2
AgriGold G3577E3	62.4	12.4
AgriGold G3649E3	61.5	12.2
Apex AE2530S	60.0	13.1
BURRUS 3693E	56.0	13.0
Average	73.9	13.0

KANKAKEE

Synergy Seeds Herscher, IL

Planted: May 5 in 30" rows at 142,000. Harvested: Oct. 11. Previous Crop: Corn. Soil Type: Silty Clay Loam.

BRAND/PRODUCT	BU/A	% MOISTURE
ProHarvest 25E35	80.1	11.7
DONMARIO DM 28E52	72.1	11.8
Apex AE2930	72.1	12.0
ProHarvest 27E44	71.5	12.4
Apex AE3340	70.8	12.4
Apex AE2740	70.5	11.8
Pioneer P31A73E	69.2	12.1
Apex AE2940S	69.1	11.6
ProHarvest 31E37	69.0	12.0
Pioneer P37A18E	68.3	12.7
ProHarvest 29E49	68.1	11.8
DONMARIO DM 27E34	67.4	11.7
Apex AE2630	67.1	11.9
Merschman Cherokee 2429E	66.3	12.5
Apex AE3720S	65.7	12.4
BURRUS 3159E	65.6	12.1
Apex AE2600	65.5	12.3
Merschman Lincoln 2431E	65.4	12.1
Apex AE3131S	65.1	12.3
Apex AE2530S	64.7	12.2
AgriGold G3577E3	63.6	12.6
Merschman X2532	63.6	11.9
AgriGold G2951E3	62.7	12.0
Merschman McKinley 2132E	62.6	12.1
AgriGold G3104	62.4	12.2
AgriGold G3649E3	62.2	12.3
AgriGold G3279E3	61.8	12.1
AgriGold G2549E3	61.2	11.8
ProHarvest 37E41S	61.0	12.2
Apex AE3330S	60.1	12.6
Apex AE3541	58.7	12.1
BURRUS 3693E	54.0	12.7
Average	65.9	12.1

BURRUSSEED.COM

MACOUPIN

Mike Cole Palmyra, IL

Planted: April 25 at 125,000. Harvested: Sept. 29. Previous Crop: Corn. Herbicide: Valor, Enlist, Roundup.

BRAND/PRODUCT	BU/A	% MOISTURE
BURRUS 3875E	84.5	12.5
DONMARIO DM 3756E	82.8	11.0
DONMARIO DM 37E43S	81.0	11.0
BURRUS 3642E	79.9	10.0
Average	82.1	11.1



Jay and Noreen Frye's grandson Everett watches with pride as they harvest their Mason Co. plot.

MASON

Jay Frye Easton, IL

Planted: April 26 in 30'' rows. **Harvested:** Oct. 12. **Previous Crop:** Corn. **Herbicide:** Enlist control system. **Soil Type:** Sand. **Weather:** Maydry, June-dry, July-normal, August-dry. **Notes:** Noticeable lodging in Burrus 3159E.

BRAND/PRODUCT	BU/A	% MOISTURE
BURRUS 3693E PS SDS	74.8	9.8
BURRUS 3875E PS SDS	74.1	9.8
BURRUS 3159E PS SDS	73.6	10.2
DONMARIO DM 34E11 PS SDS	72.7	9.8
BURRUS 3398E PS	69.6	10.0
Average	73.0	9.9



Burrus AM Glen Barber covers 2024 soybean variety highlights with growers attending a plot tour at our production plant in Arenzville.

OGLE

DONMARIO DM 28E52 and DM 27E34 go 1st and 2nd!

Jerry King Leaf River, IL

Planted: May 17 in 30" rows at 135,000. **Harvested:** Oct. 2. **Previous Crop:** Corn.

BRAND/PRODUCT	BU/A	% MOISTURE
DONMARIO DM 28E52	80.7	10.5
DONMARIO DM 27E34	78.9	10.6
Pioneer P22A67E	78.2	10.6
NK Brand NK26-M6E3	78.0	10.8
Dyna-Gro S29EN62	77.8	10.5
Pioneer P28A39E	77.5	10.6
BURRUS 2681E	76.9	10.7
Dyna-Gro S25EN74	76.8	10.6
BURRUS 2335E	76.2	10.7
Pioneer P25A16E	76.1	10.5
Pioneer P23A40E	75.1	10.6
Dyna-Gro S26EN53	74.7	10.8
NK Brand NK21-C2E3	74.6	10.6
Pioneer P29A19E	73.9	10.6
Pioneer P28A65E	73.4	10.9
Dyna-Gro S20EN84	73.1	11.0
DONMARIO DM 24E23	72.3	10.5
Average	76.1	10.7

SANGAMON

Curtis Biesenthal New Berlin, IL

BRAND/PRODUCT	BU/A	RANK	% MOISTURE
✓ CHECK	78.0		12.1
DONMARIO DM 28E52	68.0	13	12.2
BURRUS 3159E	74.6	9	12.1
Connect CT3223E	75.3	7	12.0
NK Brand S35-E3	75.6	6	12.4
DONMARIO DM 34E11	77.6	4	12.3
Connect CT3623E	80.6	1	12.0
✓ CHECK	78.0		12.4
BURRUS 3693E	74.3	10	12.6
DONMARIO DM 3756E	78.5	5	12.4
BURRUS 3875E	79.7	2	12.5
DONMARIO DM 3932E	77.3	8	12.5
Connect CT3923E	73.8	11	12.8
DONMARIO DM 42E21S	72.8	12	12.7
BURRUS 4365E	81.5	3	12.4
✓ CHECK	82.2		12.6
Average	76.7		12.4
Check Average	79.4		12.4

@BURRUSSEED

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SAINT CLAIR

Greg Guenther Belleville, IL

Planted: April 29 in 30" rows at 140,000. **Harvested:** Oct. 12. **Previous Crop:** Corn. **Soil Type:** Med. Clay. **Weather:** May-normal, Junewet, July-normal, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE
Channel 3924RXF/SR	62.8	11.6
Channel 4223RXF/SR	62.8	11.8
Channel 4023RXF/SR	61.7	11.3
AgVenture AV42A1E	61.4	11.5
BURRUS 4365E	61.0	11.3
LG Seeds LGS4066E3	59.7	11.6
AgVenture AV39Y3E	59.3	11.2
Channel 3823RXF	58.6	11.5
NuTech 42N05E	57.9	11.6
AgVenture AV41Y5E	57.6	11.5
DONMARIO DM 3756E	56.8	11.5
NuTech 39N04E	53.7	11.4
BURRUS 3875E	52.9	12.0
AgVenture AV38A1E	51.4	11.4
LG Seeds LG3S830E3	51.2	11.8
Average	57.9	11.5



Mark Parks is a team member who can do it all. This year, Mark helped bring in his 42nd crop with Burrus Seed! Mark manages a crew who unloads the bins and runs the shelling room where the seed is shelled from the ear before going into storage.

SHELBY

Two new Burrus varieties surge to the top!

Tice Farms Shelbyville, IL

Planted: April 15 in 15" rows at 150,000. **Harvested:** Sept. 25. **Previous Crop:** Corn. **Herbicide:** Enlist One. **Soil Type:** Heavy Loam. **Weather:** May-dry, June-dry, July-normal, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE
BURRUS 4365E	86.9	9.5
BURRUS 3159E	85.1	9.1
DONMARIO DM 3932E	84.8	9.2
DONMARIO DM 3756E	83.7	9.0
BURRUS 3875E	82.5	9.4
DONMARIO DM 42E21S	82.1	9.7
DONMARIO DM 34E11	81.6	9.1
BURRUS 3693E	81.2	9.4
Average	83.5	9.3



Burrus Service Advisor Tracy Waddington shares a quick pat with Nelson Burrus.

Jeff Schultz Stewardson, IL

Planted: April 26 in 15" rows at 140,000. Harvested: Oct. 2. Previous Crop: Corn. Herbicide: Liberty. Soil Type: Light Loam. Weather: May-dry, June-dry, July-dry, Augustdry. **CHECK Variety:** DONMARIO DM 34E11.

BRAND/PRODUCT	BU/A	RANK	% MOISTURE
✓ CHECK	59.5		13.8
BURRUS 3159E	71.8	1	13.2
✓ CHECK	68.1		13.7
BURRUS 3693E	69.8	3	13.2
DONMARIO DM 3756E	67.4	4	12.9
BURRUS 3875E	65.6	5	12.7
DONMARIO DM 3932E	70.0	2	12.9
DONMARIO DM 42E21S	62.1	6	13.8
BURRUS 4365E	58.8	7	13.9
✓ CHECK	62.0		13.1
Average	65.5		13.3
Check Average	63.2		13.5

WHITESIDE

Jeff Merema Fulton, IL

Planted: May 1 in 15¹¹ rows at 120,000. **Harvested:** Oct. 11. **Previous Crop:** Corn. **Soil Type:** Med. Loam. **Weather:** June-dry, Julynormal, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE
LG Seeds LGS2929E3	93.4	12.1
BURRUS 2681E	91.0	11.1
DONMARIO DM 27E34	90.9	11.3
DONMARIO DM 28E52	90.8	11.4
LG Seeds LGS2505E3	89.9	11.9
DONMARIO DM 24E23	88.8	11.0
Pioneer P28A65E	88.6	11.3
BURRUS 2335E	88.4	11.1
Pioneer P25A16E	88.3	11.4
BURRUS 3159E	88.3	11.5
Merschman Apache 1926E	87.2	11.8
Merschman Osage 2025E	86.4	12.0
BURRUS 2565E	86.0	12.6
BURRUS 2565E	85.8	11.1
Average	88.8	11.5

WINNEBAGO

Peterson-Daly Farms LLC Pecatonica, IL

Planted: May 22 in 30" rows at 140,000. **Harvested:** Oct. 10. **Previous Crop:** Corn. **Soil Type:** Clay. **Weather:** May-normal, June-dry, July-normal, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE
DONMARIO DM 27E34	60.3	12.6
DONMARIO DM 28E52	60.2	13.2
BURRUS 2681E	59.7	13.1
BURRUS 2096E	59.7	13.2
LG Seeds LGS2505E3	59.4	13.3
DONMARIO DM 24E23	58.9	12.7
LG Seeds LGS2348E3	58.3	12.8
Average	59.5	13.0

FOLLOW US @BURRUSSEED

RED CROWN ROT

This disease moving into the Midwest should have your attention.

by CHRIS BROWN, CCA

Over the last couple seasons, soybean pathologists across our footprint have identified red crown rot (RCR) moving into the Midwest. Red crown rot is a fungal disease common throughout the Southeast. Red crown rot can cause severe yield loss in areas with intense infection. This article will cover the life cycle, symptoms, and management of RCR.

Life Cycle: The disease survives in the soil as microsclerotia which are small fungal bodies that overwinter in the soil. These fungal seeds can survive without a suitable host for several years. Once they germinate, they colonize the roots of the host within 24 hrs. As the disease depletes resources in the roots, it will produce more microsclerotia. These fungal bodies can become wind or mechanically dispersed leading to spread of the disease. The red fungal bodies can spread along the stem if adequate moisture is present. Poorly drained and clay soil types with moderate soil temperatures favor disease development.

Symptoms: The first symptoms are typically found between R3 and R7 growth stages. First noticed symptoms are usually interveinal necrosis that can be easily confused with the foliar symptoms of sudden death syndrome, brown stem rot and stem canker among others. These symptoms are accompanied by reddish fungal bodies near the soil line. The fungal bodies develop after periods of high moisture when the

plant is near maturity. Below the soil line, later in the season, you can find deteriorated and rotten roots.

Management: Fungicides are not normally effective in controlling red crown rot. To reduce RCR pressure it is recommended to rotate away from soybeans for multiple years in problem fields. Also, improve drainage in areas of fields with high pressure and manage nematodes and root feeding insects that allow for sites of infection of the disease. You can limit spread of the disease by cleaning tillage equipment prior to operating in unaffected fields.

Being aware of this disease and methods to identify and control its spread will become more important as the disease spreads throughout the Midwest. Identifying disease in the field and taking precautions if you find the disease will be imperative. If you believe you have red crown rot, I recommend submitting a sample to the Illinois Plant Clinic for identification.



Red crown rot microsclerotia.

ATCHISON

NEW Burrus 7P71 VT2P shined!

Miles Smith Fairfax, MO

Planted: April 24 in 30" rows at 34,000. Harvested: Oct. 17. Previous Crop: Soybeans. Fertilizer: N: 225, P: VRT, K: VRT. Soil Type: Med. Loam. Weather: May-wet, June-normal, July-dry, Augustdry.

BRAND/PRODUCT	BU/A	% MOISTURE
BURRUS 7P71 VT2P	255.7	14.5
POWER PLUS 6W81AM	253.1	14.6
BURRUS 7F33 VT2P	251.8	14.7
BURRUS 8A12 VT2P	250.0	14.3
POWER PLUS 4C14AM	249.8	13.8
BURRUS 6Y61 DG VT2P	245.0	14.3
POWER PLUS 5U63AM	240.0	14.7
POWER PLUS 5J21AM	239.2	14.2
BURRUS X6K13	237.8	15.2
BURRUS 5A84 VT2P	220.9	13.9
BURRUS 7G44 V	219.7	14.3
Average	242.1	14.4



Even in the heat, product training goes on with the Burrus western sales team.

AUDRAIN

Tony Hoyt Laddonia, MO

Planted: May 2 in 30" rows at 32,500. Harvested: Sept. 23. Previous Crop: Soybeans. Fertilizer: N: 140. Soil Type: Med. Loam. Weather: May-wet, June-normal, July-dry, August-dry. Notes: 13 inches below normal rainfall from planting date.

BRAND/PRODUCT	BU/A	% MOISTURE	% ERECT	STAND (x 1000)
BURRUS 7G44 V	221.7	20.4	100	31
BURRUS 7F33 VT2P	198.4	20.5	100	31
POWER PLUS 5U63AM	197.8	19.1	100	31
BURRUS 7P71 VT2P	180.2	20.2	100	30
BURRUS 6Y61 DG VT2P	173.0	20.3	100	30
POWER PLUS 6W81AM	169.4	19.3	100	30
POWER PLUS 5J21AM	166.8	18.0	100	30
POWER PLUS 4C14AM	163.5	18.0	100	30
POWER PLUS 4C14AM	162.0	18.1	100	31
POWER PLUS 5J21AM	162.0	18.9	100	30
BURRUS X6K13	159.7	20.4	100	29
Average	177.7	19.4	100	30

BOONE

John Lorentzen III Sturgeon, MO

Planted: April 19 in 30" rows at 30,000. Harvested: Oct. 3. Previous Crop: Soybeans. Fertilizer: N: 245. Herbicide: Lexar. Soil Type: Med. Loam. Weather: May-normal, June-dry, July-dry. Notes: 6+ inches weather event with wind and hail in late July.

BRAND/PRODUCT	BU/A	% MOISTURE	% ERECT	STAND (x 1000)
BURRUS 7P71 VT2P	212.4	19.0	98	29
BURRUS 8A12 VT2P	211.4	19.1	95	29
BURRUS 7G44 V	210.8	18.0	90	29
BURRUS 7F33 VT2P	207.1	17.0	97	28
POWER PLUS 5J21AM	201.6	14.1	95	27
POWER PLUS 6W81AM	198.3	16.0	98	28
BURRUS 6Y61 DG VT2P	196.1	15.7	97	29
BURRUS X6K13	193.5	16.3	97	29
POWER PLUS 5U63AM	188.9	15.4	90	27
POWER PLUS 5L44AM	183.7	14.6	85	28
BURRUS 5A84 VT2P	166.1	15.4	95	26
POWER PLUS 4C14AM	158.4	14.7	98	28
Average	194.0	16.3	95	28

CHARITON

Big Red Farms Salisbury, MO

Planted: April 13 in 30" rows at 32,000. Harvested: September 26. Previous Crop: Soybeans. Fertilizer: N: 170-NH3, P: 70, K: 70. Herbicide: Atrazine, Dual. Soil Type: Med. Loam. Weather: May-dry, June-dry, July-dry, Augustdry. ✓CHECK Hybrid: Burrus 6V90.

			%	ADJ.	%	STAND (x
BRAND/PRODUCT	BU/A	RANK	MOISTURE	TW	ERECT	1000)
✓ CHECK	215.2		17.7	61.4	100	32
POWER PLUS 4C14AM	202.1	14	18.9	61.2	100	32
POWER PLUS 4R40	202.7	12	19.0	61.7	100	31
POWER PLUS 5L44AM	211.3	5	19.5	60.9	100	31
BURRUS 5A84 VT2P	207.2	7	17.2	60.3	100	32
POWER PLUS 5J21AM	206.1	9	16.6	62.2	100	32
POWER PLUS 5U63AM	210.2	6	17.0	62.3	100	32
POWER PLUS 5F17 Q	195.3	17	16.5	61.2	100	31
✓ CHECK	215.7		17.5	60.4	100	32
BURRUS X6K13	197.2	17	18.2	58.5	100	31
POWER PLUS 6W81AM	214.0	4	17.5	61.4	100	32
POWER PLUS 6H80	218.4	1	19.3	59.7	100	31
BURRUS 6Y61 DG VT2P	215.1	3	19.3	60.7	100	32
POWER PLUS 6J92AM	205.3	11	18.6	62.6	100	32
BURRUS 6A38 SS	204.6	15	20.2	60.0	100	31
POWER PLUS 6B86 Q	211.8	8	19.3	60.7	100	32
BURRUS 7G44 V	201.0	16	20.0	60.0	100	32
BURRUS 7F33 VT2P	211.4	10	18.2	61.5	100	32
BURRUS 7P71 VT2P	208.4	12	18.7	61.6	100	31
BURRUS 8A12 VT2P	221.2	2	20.1	63.0	100	31
✓ CHECK	222.8		17.7	61.4	100	32
Average	209.4		18.4	61.1	100	32
A						
Check Average	217.9		17.6	61.1	100	32



Tony and Nick Hoyt have planted Burrus Seed products on their Audrain Co., MO farm since 1985, and they're still impressed in 2023!

LAFAYETTE

Burrus 6Y61 DG VT2P averaged 270 bu/a!

David Dobson Lexington, MO

Planted: April 13 in 30" rows at 34,000. Harvested: September 26. Previous Crop: Soybeans. Fertilizer: N: 220-NH3, P: VRT, K: VRT. Herbicide: Roundup Ready, Atrazine, Laudis. Soil Type: Med. Loam. Weather: Maydry, June-dry, July-dry, August-dry. Notes: N: 40 Ibs. ammonium. ✓ CHECK Hybrid: Burrus 6Y61 DG VT2P.

					STAND
BU/A	RANK	% MOISTURE	ADJ. TW	% ERECT	(x 1000)
258.7		18.0	61.5	100	33
252.5	4	16.5	61.2	100	32
241.7	7	17.9	60.5	100	33
259.2	2	17.5	61.4	100	33
245.2	8	17.5	60.4	100	33
264.5	1	19.2	61.7	100	32
276.0		18.3	60.5	100	32
262.7	5	19.4	61.7	100	33
267.1	3	20.0	61.0	100	33
262.2	6	19.9	62.9	100	33
276.1		18.9	61.7	100	33
260.5		18.5	61.3	100	33
270.2		18.4	61.2	100	33
	ви/а 258.7 252.5 241.7 259.2 245.2 264.5 276.0 262.7 267.1 262.2 276.1 260.5 270.2	BU/A RANK 258.7 252.5 4 241.7 7 259.2 2 245.2 8 264.5 1 276.0 2 2 2 262.7 5 2 6 276.1 2 2 260.5 2 70.2	вила жакк моізтиле 258.7 18.0 252.5 4 16.5 241.7 7 17.9 259.2 2 17.5 245.2 8 17.5 264.5 1 19.2 276.0 18.3 262.7 5 19.4 267.1 3 20.0 262.2 6 19.9 276.1 18.9 260.5 18.5 260.5 18.5 270.2 18.4	BU/A RANK MOISTURE ADJ. TW 258.7 18.0 61.5 252.5 4 16.5 61.2 241.7 7 17.9 60.5 259.2 2 17.5 61.4 245.2 8 17.5 60.4 264.5 1 19.2 61.7 276.0 18.3 60.5 262.7 5 19.4 61.7 267.1 3 20.0 61.0 262.2 6 19.9 62.9 276.1 18.9 61.7 262.2 6 19.9 62.9 276.1 18.9 61.7 262.2 6 19.9 62.9 276.1 18.5 61.3 260.5 18.5 61.3 18.4 61.2	ви/а % аник моїзтике Ар. тур ейст 258.7 18.0 61.5 100 252.5 4 16.5 61.2 100 252.5 4 16.5 61.2 100 241.7 7 17.9 60.5 100 245.2 8 17.5 61.4 100 245.2 8 17.5 60.4 100 264.5 1 19.2 61.7 100 276.0 18.3 60.5 100 262.7 5 19.4 61.7 100 262.7 5 19.4 61.7 100 262.7 5 19.4 61.7 100 262.7 6 19.9 62.9 100 276.1 18.9 61.7 100 276.1 18.9 61.7 100 276.1 18.9 61.7 100 276.5 18.5 61.3 100 <td< td=""></td<>



When asked about this year's season, John Lorentzen of Boone Co., MO said, "For over 30 years Burrus Seed has impressed me, and this year is no different!"

TAR SPOT

Tar spot continues its march across the corn belt, how to manage it in 2024.

by DANA HARDER, CCA

Overall disease pressure in 2023 was relatively low. One disease that reared its head was tar spot. While it has been present in some areas for a while now, it will garner attention for those of you experiencing it for the first time. It showed up prior to tasseling in the southern and western parts of the Burrus footprint. Many growers are thinking about what tools and approaches to consider for managing tar spot in 2024. This article will answer common questions and provide resources to make informed management decisions next year.

Tar Spot History: Tar spot is caused by the pathogen Phyllachora maydis and is native to Latin America but made its way to the Midwest in 2015. Tar spot produces dark structures called ascomata that develop on corn leaves. These fruiting structures are impregnated into the leaf and cannot be rubbed or scraped off without damaging the plant. Each ascomatum produces spores that can be windblown up to a mile away. Ascomata are very hardy and can overwinter on corn residue. Environmental conditions are the biggest driver for tar spot development. Sufficient moisture from rainfall, irrigation, humidity, or having wet leaves for more than seven hours every day encourages tar spot development. This can contribute to the disease being more problematic under irrigated conditions. Moderate daily temperatures in the 60s and 70s also favor development.

Differing Hybrid Susceptibility: While differences in hybrid susceptibility to tar spot exist, there is currently no known commercially available germplasm that is completely resistant. Fields that experienced severe tar spot historically, are at greater risk for future development, making the selection of hybrids with higher ratings prudent. Burrus provides hybrid ratings for tar spot. We compiled our ratings through opportunistic observation over multiple years



Tar spot map showing positive tar spot counties in gold and counties with tar spot found in previous years in grey.corn. ipmpipe.org/tarspot/

and environments. This allows for a fairly accurate assessment of tar spot susceptibility in our lineup. Ratings for tar spot may fluctuate over time as we continue to monitor hybrid susceptibility in the future.

Management:

- Understanding conditions favorable for the development of tar spot and scouting for its development can prevent issues at harvest. Managing irrigation to minimize leaf wetness can reduce the severity of disease development. Notably, the Tarspotter app developed by the University of Wisconsin can help indicate when conditions are favorable for tar spot development for specified fields.
- Fungicides have proven to be effective in limiting the effects of tar spot on yield and plant standability. Fungicide applications with two or more modes of action are more effective in suppressing tar spot. Regarding timing, VT-R2 has reliably been the most effective in protecting yield and standability. However, an additional fungicide application may be warranted if environmental conditions are conducive for continued development. The disease is polycyclic, meaning it can continue to develop within the crop canopy under sustained conditions. The most consistent response with a second fungicide pass is a slight improvement in stalk strength and standability. A great independent resource regarding fungicide efficacy against tar spot and other diseases is published by the Crop Protection Network.
- Scouting hybrids for late season standability issues is recommended to prioritize fields that tar spot has detrimentally affected for early harvest.
- Crop rotation and residue management can help reduce overwintering ascomatum and lower tar spot severity the following season.





Use the QR codes above to access additional tar spot resources. Download the Tarspotter app developed by the University of WI using the QR code at left.

Use the QR code at right to access Crop Protection Network's fungicide efficacy against corn diseases resource.





John Cramer watched Burrus 7F33 VT2P churn out 237 bu/a in his Livingston Co., MO plot.

BURRUSSEED.COM

LAFAYETTE

Santa Fe Ag Leaders Alma, MO

Planted: April 24 at 32,000. Harvested: Oct. 10.

		%
BRAND/PRODUCT	BU/A	MOISTURE
Pioneer P1608AM	250.1	15.8
MorCorn MC4457VT2PRIB	236.9	15.2
Channel 214-78DGVT2P	233.5	15.1
DeKalb DKC64-22RIB	231.1	15.4
Frontiersmen 111-C3 PCE	230.9	15.2
LG Seeds LG63C82DGVT2RIB	229.5	14.9
BURRUS 7F33 VT2P	228.4	15.3
Dyna-Gro D54VC34	227.1	15.5
Frontier FS111	223.9	15.3
Beck's 6414V2P	223.4	15.5
Master Farm MRZ-C152-D	221.2	15.5
ProHarvest 8360VT2P	220.7	15.4
Average	229.7	15.3

Santa Fe Ag Leaders Alma, MO

Planted: April 24 at 32,000. Harvested: Oct. 10.

BRAND/PRODUCT	BU/A	MOISTURE
MorCorn MC 4652 VT2P RIB	249.6	14.7
Pioneer P1718AML	242.0	15.0
Dyna-Gro D58VC74	237.7	15.2
ProHarvest 84P32PCE	233.2	15.2
Frontier FS114	229.0	15.1
LG SeedsLG65C14TRCRIB	226.7	14.8
Beck's 6585TCV2P	225.4	15.3
Master Farm MB-E172-3110	223.5	14.9
Frontiersmen 114-TA3 PCE	223.2	15.3
BURRUS 7P71 VT2P	216.4	15.3
DeKalb DKC66-06 TRE	214.9	15.3
Channel 218-55TRERIB	212.7	15.0
Average	227.9	15.1

PLANT BX3 WITH CONFIDENCE

Tips for successfully planting smaller seed sizes.

by TODD BURRUS

This year's seed corn crop has more BX3s due to high temperatures as the crop approached black layer stage. The good news is these seeds are high quality with strong germination, according to Kevin Burrus.

To maximize yield potential, both uniform spacing and stand establishment are important. At Burrus, we call this net effective stand or NES. Vacuum planters have the capability to plant BX3s accurately with good spacing and uniform emergence. *Figure 1.* illustrates the effectiveness of vacuum-style planters. Keys to success planting BX3s with a vacuum-style planter include:

- 1. Follow manufacturer recommendations.
- 2. Select the proper seed meter disc that is designed to operate within the weight range or seed count per pound.
- 3. Slight adjustments in vacuum pressure can significantly improve proper singulation.

Size Range (seeds/Lb)	BX3	BX4	BX5
2900 - 2999			
2800 - 2899			
2700 - 2799			
2600 - 2699	15		
2500 - 2599	15		
2400 - 2499	15		
2300 - 2399	15	18	
2200 - 2299	15	18	
2100 - 2199	15	18	
2000 - 2099	15	18	
1900 - 1999	18	18	
1800 - 1899	18	18	
1700 - 1799	18	18	
1600 - 1699	18	18	18
1500 - 1599	18	18	22
1400 - 1499		18	22
1300 - 1399			22
1200 - 1299			22
1100 - 1199			
1000 - 1099			
900 - 999	100 C		

Figure 1.

Proper adjustment will avoid both skips and doubles. Vacuum pressure holds seed on the



Tanner Cartee couldn't wait to open up his Burrus 7F33 VT2P in DeKalb Co., MO

disk; therefore, smaller seed performs better with lower pressure and larger seed performs better with higher pressure. Too much pressure can cause the disc to pick up double seeds. This adjustment is made from the tractor cab. Most monitors are able to identify planting accuracy and can assist in fine-tuning the pressure. *Figure* 2. illustrates the relationship between vacuum pressure and seed size.



Figure 2. Percent singulation of Case IH ASM, John Deere Pro-Series XP with ProMAX 40 Flat Disk, John Deere MaxEmerge with cell disk, Kinze EdgeVac with cell disk, and Precision Planting eSet flat disk.

Kinze vacuum planters have a singulation setting on each row unit. These adjust the knock off brushes to minimize doubles. Scott Young of Beard Implement ran Burrus BX3s through a Kinze check stand. He found the best setting was 18" vacuum pressure and singulation setting of 2.3, so this might be a good initial setting.

Finger pickup planters will also plant BX3s. The challenges are seed spacing and singulation. Keys to success with finger pickup planters include:

- 1. Ensure planting meter is in like new condition.
- 2. Moderate population with slower tractor ground speed to minimize over-planting.

In summary, Burrus BX3s can be planted accurately. Burrus quality seed and careful management can indeed lead to improved yields.



Jackie, daughter of Trent and Brittany Grimes, and granddaughter of Jerald and Karen Grimes helped at their annual plot tour in DeKalb Co., MO.



GREG SCHONE 2023 harvest marked Greg's 41st crop with

Burrus Seed. Greg is our Logistics Coordinator but still loves running one of the pickers during the fall harvest season.

LAFAYETTE

Greg Bertz Mayview, MO

Planted: April 11 in 30" rows at 31,000. Harvested: September 26. Previous Crop: Soybeans. Fertilizer: N: 225 total, 185-NH3, P: 105, K: 100. Herbicide: Armazon Pro. Soil Type: Med. Loam. Weather: May-dry, June-dry, July-dry, August-dry. ✓ CHECK Hybrid: Lewis 16DP850.

			%	ADJ.	%	STAND (x
BRAND/PRODUCT	BU/A	RANK	MOISTURE	TW	ERECT	1000)
✓ CHECK	204.3		17.9	63.0	100	31
POWER PLUS 5J21AM	209.0	4	16.0	61.0	100	31
POWER PLUS 5U63AM	203.2	10	16.2	61.0	100	31
BURRUS 5A84 VT2P	208.3	6	17.0	61.8	100	31
Lewis 11DT912	211.8	3	17.0	61.3	100	31
BURRUS 6Y61 DG VT2P	221.2	7	17.4	61.3	100	31
Lewis 12DT371	208.0	14	16.4	61.5	100	31
Lewis 13DT644	218.2	9	18.5	60.6	100	31
Lewis 14DT603	225.4	2	18.4	62.5	100	31
✓ CHECK	230.8		17.7	62.9	100	31
BURRUS 7F33 VT2P	211.6	13	18.4	61.5	100	31
BURRUS 7P71 VT2P	205.8	15	17.3	62.3	100	31
Lewis 15DT512	200.6	16	18.7	62.6	100	31
Lewis 15DT624	222.3	4	18.9	60.7	100	31
Lewis 15DP899	220.0	1	18.5	61.6	100	31
Lewis 16DP887	202.8	11	18.5	61.6	100	31
BURRUS 8A12 VT2P	201.8	12	18.9	62.7	100	31
Lewis 16DP850	207.5	8	18.0	62.5	100	31
✓ CHECK	204.5		17.8	62.5	100	31
Average	211.4		17.8	61.8	100	31
Check Average	213.2		17.8	62.8	100	31

Santa Fe Ag Leaders Alma, MO

Planted: April 24 at 32,000. Harvested: Oct. 10.

BRAND/PRODUCT	BU/A	% MOISTURE
Frontiersmen 110-T3 PCE	233.1	15.5
Pioneer P1222AM	231.2	16.2
Masters Choi MRZ-P112-D	226.5	14.9
MorCorn MC431TRE	226.3	15.8
POWER PLUS 5J21AM	223.8	16.2
LG Seeds LG62C22VT2RIB	223.8	15.9
ProHarvest 84P78TRERIB	220.8	16.2
Frontiersmen 108-STCRIB	215.4	16.0
Dyna-Gro D50VC09RIB	211.2	14.7
Channel 211-11VT2P	208.0	16.0
XL Brand 6064AM	200.8	16.2
DeKalb DKC62-70RIB	199.8	16.0
Average	218.4	15.8



Darin Munzlinger and Burrus AM Jake Sattler saw Power Plus® 3G31AM™* lead in Lewis Co., MO.



New Power Plus[®] 5J21AM[™]* topped the plot with 150.6 bu/a in Lincoln Co., MO for Chuck Bockhorst.

LEWIS

Darin Munzlinger Williamstown, MO

Planted: June 7 in 30" rows at 30,000. **Harvested:** Oct. 23. **Previous Crop:** Soybeans. **Weather:** Junedry, July-dry, August-dry. **Notes:** Burrus 7P71 VT2P omitted from results due to erratic stand.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW
POWER PLUS 3G31AM Burbus 6y61 DG VT2P	223.4 196 4	19.1 26 0	57.5 56 2
BURRUS 7F33 VT2P	192.7	28.3	56.5
POWER PLUS 5J21AM	192.5	24.7	56.5
POWER PLUS 5U63AM	178.4	26.0	57.4
BURRUS 8A12 VT2P	173.3	28.0	57.7
BURRUS 5A84 VT2P	167.8	26.8	56.4
Average	189.2	25.6	56.9



Tony Hoyt and Kevin Gregory celebrate Kevin's 50th crop with 238 bu/a from Burrus 7F33 VT2P in Montgomery Co., MO!

LINCOLN

Chuck Bockhorst Foley, MO

Planted: May 5 in 30" rows at 30,000. **Harvested:** Oct. 18. **Previous Crop:** Soybeans. **Fertilizer:** N: 175. **Soil Type:** Med. Clay. **Weather:** May-dry, June-dry, August-dry. **Notes:** 7"+ behind annual average rainfall during season.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW
POWER PLUS 5J21AM	150.6	15.0	56.5
Pioneer P0995AM	147.8	14.8	57.5
BURRUS 6Y61 DG VT2P	147.1	15.8	58.8
Pioneer P1170AM	142.1	15.1	58.5
BURRUS 7G44 V	141.6	17.1	55.5
Pioneer P1164AM	140.7	14.9	57.7
Pioneer P13050AM	139.4	15.1	57.8
Pioneer P1222AM	138.0	15.1	57.9
BURRUS 5A84 VT2P	136.7	15.5	58.0
POWER PLUS 5U63AM	133.7	15.1	56.8
POWER PLUS 6W81AM	133.3	15.2	59.5
Pioneer P1548AM	129.0	16.8	57.8
Pioneer P1413AM	127.8	16.9	56.3
Pioneer P1548AM	121.1	16.8	58.0
Average	137.8	15.7	57.6

LIVINGSTON

Kerr Farms Inc. Chula, MO

Planted: April 24 in 20" rows. **Harvested:** Sept. 29. **Previous Crop:** Soybeans.

BRAND/PRODUCT	BU/A	MOISTURE
AgriGold A643-52VT2PRO	203.1	15.2
DeKalb DKC67-44RIB	196.1	16.1
Channel 212-02VT2PRIB	195.2	17.9
DeKalb DKC64-22RIB	194.4	18.6
DeKalb DKC65-95RIB	194.0	17.9
Channel 215-60TRERIB	193.9	18.7
Wyffels W7876RIB	193.0	17.8
Channel 214-78DGVT2P	192.5	15.9
DeKalb DKC62-53RIB	191.1	16.0
AgriGold A645-16VT2PRO	189.7	18.1
Channel 215-70TRERIB	189.7	20.6
DeKalb DKC61-98RIB	189.4	15.0
BURRUS 7F33 VT2P	187.7	19.6
Channel 213-19STXRIB	187.3	17.3
BURRUS 6Y61 DG VT2P	187.2	17.4
Channel 211-11VT2P	186.8	16.2
Channel 216-82VT2PRIB	186.0	19.1
Channel 210-79STXRIB	185.5	16.4
DeKalb DKC62-70RIB	183.9	16.6
Wyffels W7456RIB	182.7	14.5
BURRUS 8A12 VT2P	182.0	21.2
Channel 210-46VT2P	181.1	18.5
Wyffels W7452	178.5	17.6
Channel 207-87VT2PRIB	178.0	16.6
Golden Harvest G14R38-30000GT	171.5	20.6
Wyffels W6826RIB	154.8	16.5
Average	186.7	17.5

ABOVE GROUND TRAITS

Deciphering above ground insect traits for your next hybrid portfolio selection.

by DANA HARDER, CCA

The world of corn traits continues to grow with new technologies coming to the market. You will notice some new ones in the Burrus lineup. There has been a steady push for all refuge in the bag products to contain 2 or more modes of action for above and below ground products. The principal aim is to be good stewards of technology, reduce refuge requirements, and increase crop yield by fighting insect pests. Many are familiar with Optimum[®] AcreMax[®] and VT Double PRO[®] traits in our above ground lineup. We'll cover some of these newer traits, how they stack up against each other, and the benefits they convey out in the field.

Trecepta® (**TRE**) - The newest addition to the Burrus lineup is the Trecepta trait in Burrus 9Q22 TRE. Trecepta includes Viptera[™] to provide protection against black cutworm and western bean cutworm that was not provided in VT Double PRO. Additionally, corn earworm and fall armyworm protection is enhanced with 3 modes of action, with the most dominant earworm protection coming from Vip3A. Frequently, earworm feeding can rob yield and introduce ear rots, ultimately reducing grain quality. (*Cry1A.105 - Cry2Ab2 - Vip3A*)

Viptera (V) – There has been rebranding with some Agrisure traits. This trait was formerly known as 3220. Burrus 6K13 V and Burrus 7G44 V have this designation. The key advantage is robust insect protection in the above ground lineup. Except for western bean cutworm and corn earworm, there are two modes of action against all problematic above ground insect pests. (*Cry1Ab* - *Cry1F* - *Vip3A*)

Viptera™ Z3 (VZ) – This trait was formerly known as Agrisure 3330 and now has the VZ designation. This trait provides 3 modes of action against corn earworm, corn borer, and fall armyworm delivering amongst the most robust insect protection in the entire above ground lineup. (*Cry1Ab* - *Cry1A.105* - *Cry2Ab2* - *Vip3A*)

Optimum® AcreMax® Leptra® – This trait provides improved protection against earworm,

fall armyworm, and black cutworm. Optimum AcreMax Leptra also introduces protection against western bean cutworm. This trait provides a similar number of modes of action and protection as Viptera. (*Cry1Ab* - *Cry1F* - *Vip3A*)

PowerCore® Enlist® – This is a newer trait to come to market. It provides 3 modes of action against European borer and fall armyworm. Uniquely, it conveys tolerance to 2,4-D choline and FOP (Assure II) herbicides in corn. Unlike 2,4-D, Enlist® has the ability to control late season emerged broadleaves and can be applied to corn even after it reaches 8 inches. (*Cry1A.105* -*Cry2Ab2* - *Cry1F*)

Our goal at Burrus is to bring excellent performing hybrids to you in the trait platforms needed. Being an independent company, Burrus has access to all traits available on the market to fit your operation. If you have questions regarding above ground corn traits, please contact your Burrus Representative.

Technology	H	lerbicio	ie	Insects controlled by technology (by modes of action)							
	RR	ш	FOP	Refuge Requirement	European Corn Borer	Corn Rootworm	Black Cutworm	Fall Armyworm	Corn Earworm	Western Bean Cutworm	Common Stalk Borer
Qrome® (Q)	х	х		5% IR	2	2	1	1	0	0	2
Optimum [®] AcreMax [®] XTreme	х	x		5% IR	2	2	1	1	0	0	2
Optimum® AcreMax® (AM)	х	х		5% IR	2	0	1	1	0	0	2
Optimum® AcreMax® Leptra®	х	х		5% IR	2	0	2	3	1	1	3
DuracadeViptera™	х	х		5% IR	2	2	2	2	1	1	3
Duracade®	х	х		5% IR	2	2	1	1	0	0	2
Agrisure® Total	х	х		5% IR	2	2	1	1	0	0	2
Viptera® (V)	х	x		5% IR	2	0	2	3	1	1	3
Refuge Advanced $^{\otimes}$ Powered by SmartStax $^{\otimes}$	х	x		5% IR	3	3	1	2	2	0	2
SmartStax® PRO (SSP)	х	х		5% IR	3	3	1	3	2	0	3
SmartStax® RIB Complete® (SS)	х	х		5% IR	3	2	1	3	2	0	3
VT Double PRO® RIB Complete® (VT2P)	х			5% IR	2	0	0	2	2	0	2
Trecepta [®] RIB Complete [®] (TRE)	х			5% IR	2	0	1	3	3	1	3
PowerCore [®] Enlist ^{®**}	х	х	х	5% IR	3	0	1	3	2	0	3
Viptera™Z3	х	х		5% IR	3	0	1	3	3	1	3

x - Includes herbicide tolerance

RR - Roundup Ready[®] (glyphosate) LL - LibertyLink[®] (glufosinate)

lufosinate) FOP - Ary

FOP - Aryloxyphenoxypropionate

IR - Integrated Refuge





A much needed summer storm system moved through Arenzville, north of our Production Plant; we were grateful for the rain and the view wasn't half bad either!

LIVINGSTON

John W. Cramer Ludlow, MO

Planted: April 27 in 30" rows at 33,000. **Harvested:** Oct. 5. **Previous Crop:** Soybeans. **Fertilizer:** N: 220, P: 50, K: 80. **Herbicide:** Bicep, Callisto, Atrazine, Roundup, Permethrin. **Weather:** May-normal, June-dry, July-dry, August-wet. **Notes:** 24 lbs. sulfur added when top dressed.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	STAND (x 1000)
Lewis 15DP899	242.4	18.7	60.6	31
BURRUS 7F33 VT2P	237.6	18.3	60.5	31
BURRUS 8A12 VT2P	233.5	18.5	60.6	31
BURRUS 7F33 VT2P	229.2	19.7	60.4	32
Lewis 16DP887	218.2	21.5	60.9	31
Lewis 16DP887	203.9	20.6	60.7	32
Average	227.5	19.6	60.6	31



Brock Watson loves helping dad Jordan Watson and grandpa Kenny Rutter on the farm in Shelby Co., MO.

MACON

Jeff Bixenman New Cambria, MO

Planted: April 11 in 30" rows at 30,000. **Harvested:** Sept. 28. **Fertilizer:** N: 185, P: 60, K: 90. **Herbicide:** Corvus, Atrazine. **Weather:** May-normal, June-dry, July-dry, August-normal.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	STAND (x 1000)
BURRUS 7P71 VT2P	216.0	18.8	60.2	29
BURRUS 7F33 VT2P	208.7	19.2	59.7	28
BURRUS 8A12 VT2P	206.9	19.5	59.9	28
POWER PLUS 5J21AM	198.4	17.0	57.3	29
POWER PLUS 6W81AM	198.4	18.2	59.0	27
BURRUS 6Y61 DG VT2P	197.3	18.5	61.1	29
BURRUS X6K13	190.6	18.3	59.5	30
BURRUS 5A84 VT2P	173.4	17.4	58.3	28
POWER PLUS 4C14AM	169.5	16.2	58.5	29
Average	195.5	18.1	59.3	29

SAINT CHARLES

Scott Boschert Wentzville, MO

Planted: April 13 in 30" rows at 34,500. **Harvested:** Sept. 19. **Previous Crop:** Soybeans. **Notes:** Tops broken out of everything but zero lodging.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW
Lewis 12DT371	269.9	12.6	58.5
Lewis 09DD740	266.4	17.9	58.5
Lewis 15DT624	258.5	18.6	61.1
Lewis 11DT912	255.6	17.5	59.0
Lewis 18DP852	252.4	18.5	60.1
BURRUS 7F33 VT2P	250.9	18.1	63.0
Lewis 15DT512	250.3	17.6	55.9
BURRUS 6Y61 DG VT2P	250.2	17.1	59.8
Lewis 15DP899	248.4	19.4	61.2
Lewis 14DT603	245.6	18.9	61.2
Pioneer P0953AM	245.6	18.2	59.1
Lewis 12DT302	242.4	17.5	60.8
Lewis 16DP850	241.2	19.2	60.2
Lewis 17DP651	240.4	18.4	60.0
Lewis 13DT644	237.3	19.3	59.7
Pioneer P1608AM	237.2	18.6	64.6
Lewis 16DP887	236.6	18.3	60.0
Average	248.8	18.0	60.2

FOLLOW US @BURRUSSEED

SALINE

NEW Power Plus[®] 5J21AM[™]* romps to 274 bu/a!

Tieman Farm Blackburn, MO

Planted: April 13 in 30" rows at 34,500. Harvested: Sept. 25. Previous Crop: Soybeans. Fertilizer: N: 200 NH3, P: VRT, K: VRT. Herbicide: Status, Roundup, Atrazine. Soil Type: Med. Loam. Weather: May-dry, June-dry, Julydry, August-dry. ✓CHECK Hybrid: Burrus 6Y61 DG VT2P.

						STAND
BRAND/PRODUCT	BU/A	RANK	% MOISTURE	ADJ. TW	% ERECT	(x 1000)
✓ CHECK	273.0		20.0	62.0	100	33
POWER PLUS 4C14AM	260.3	6	18.3	61.5	100	32
BURRUS 5A84 VT2P	244.0	8	20.0	61.0	100	33
POWER PLUS 5J21AM	274.5	1	19.2	61.7	100	33
POWER PLUS 5U63AM	261.8	7	19.0	60.7	100	33
POWER PLUS 6W81AM	269.5	3	19.6	61.9	100	32
✓ CHECK	282.2		19.8	60.9	100	32
BURRUS 7F33 VT2P	265.5	4	20.8	62.2	100	33
BURRUS 7P71 VT2P	258.9	5	19.5	60.9	100	33
BURRUS 8A12 VT2P	264.8	2	21.0	63.3	100	33
✓ CHECK	204.5		17.8	62.5	100	31
Average	265.4		19.8	61.7	100	33
Check Average	273.4		20.1	61.7	100	33



Power Plus[®] 5L44AM^{™*} surpassed Research Coordinator Jacob Perry by mid-Jun in Saline Co., MO.

SALINE

Marshall & Fenner Farms Malta Bend, MO

Planted: April 19 in 30" rows at 33,000. **Harvested:** Oct. 12. **Previous Crop:** Soybeans.

BRAND/PRODUCT	BU/A	% MOISTURE
Pioneer P1222AM	276.0	13.4
Brevant B13A10AM	272.4	14.0
Pioneer P2042AML	272.3	18.3
Lewis 15DP899	266.9	16.2
Pioneer P0953AM	262.6	13.9
Pioneer P1359AM	261.9	14.4
Pioneer P2042AML	261.9	18.6
Pioneer P1108Q	261.8	14.5
Pioneer P1197AM	260.4	13.4
XL Brand 6381AM	259.5	15.0
POWER PLUS 5J21AM	258.0	14.0
BURRUS 7F33 VT2P	257.8	15.6
Pioneer P1608AM	256.9	16.5
LG Seeds LG66C44VT2RIB	255.6	16.8
Beck's 6585TCV2P	253.5	16.2
Beck's 6374V2P	251.8	15.1
Beck's 6414V2P	251.2	14.3
DeKalb DKC65-95RIB	250.2	16.3
BURRUS 6Y61 DG VT2P	250.0	15.3
Pioneer P158/Q	246.2	14./
MorCorn MC445/V12PRIB	245.2	13.9
LG Seeds LG62022V12RIB	244.0	14.6
LG Seeds LG640905SRIB	243.4	14.3
	241.0	15.8
	241.2	1/./
LG Seeds LG67607V12P	238.8	15.0
LG Seeds LG62635V12RIB	237.1	14.5
Average		15.0
Average	254.7	15.3

DIE DOWN VS. DRY DOWN

Paying attention to your cornfield top dieback.

by DANA HARDER, CCA

Much of the Burrus footprint was chronically on the drought monitor in 2023. As a result, many areas experienced top dieback in corn. The natural dry down we like to see moves from the lower canopy upward. This year, we burned the candle at both ends by drying from the top down and bottom up. There are different causes for this and a few things we should be on the lookout for at harvest.

Drought Stress: Top dieback due to drought stress tends to be uniform across the field. It shows more in areas with limited soil water availability, like compacted or high clay content areas. Yield losses can be realized when premature senescence occurs before black layer because of reduced grain fill.

Anthracnose Stalk Rot: Anthracnose can also cause dieback in corn. Affected plants appear randomly throughout the field and fewer in number compared to drought stress dieback. Black lesions on the outer stalk are apparent at maturity, while early developing lesions will be pink. This stalk rot disrupts the flow of water to the upper canopy, resulting in



Early developing pink anthracnose stalk rot lesions. Photo credit: ISU.

premature senescence and top dieback.

When plants face stress due to competition, disease, root growth, or nutrient deficiency they become vulnerable to stalk rots. Tying in with drought stress, potassium uptake becomes limited because of being trapped in clay soils. As a result, it cannot move into the roots because of insufficient soil moisture. Potassium deficiency can especially reduce stalk strength and quality since it gives rigidity to cell walls.

If you notice top dieback in your fields, it is important to scout fields for standabilty. Conduct pinch and push tests to determine if stalk rots are present. Push stalks to a 30-degree angle, then release. If the plant does not return upright, there is likely a stalk rot present. Pinch stalks as well because they will not necessarily give way when pushed. An unhealthy stalk will feel spongy when squeezed. If over 10% of the plants are compromised, that field should be a harvest priority.

Often, cobs will be soft and spongy with premature death. This is due to the plant removing sugars from the stalk and cob to wrap up grainfill. Combine concaves and rotor speeds will need to be adjusted to remove kernels from the cob. It's important to adjust the sieves and monitor the grain samples because spongy cobs can break easily. For help evaluating standability or to address any concerns about top dieback, contact your Burrus Representative.



Black anthracnose stalk rot lesions on outer stalk

SALINE

Power Plus[®] 5U63AM[™]* and Burrus 6Y61 DG VT2P take 2 of the 3 spots!

Rick Kiehl Malta Bend, MO

Planted: April 10 in 30" rows at 34,000. **Harvested:** Sept. 14. **Previous Crop:** Soybeans. **Fertilizer:** N: 220 NH3, P: VRT, K: VRT. **Herbicide:** Status, Roundup Atrazine. **Soil Type:** Med. Loam. **Weather:** May-dry, June-dry, July-dry, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	% ERECT	STAND (x 1000)
Wyffels W7876RIB	242.2	20.0	63.0	100	33
PÓWER PLUS 5U63AM	239.9	18.9	60.7	100	33
BURRUS 6Y61 DG VT2P	235.6	19.4	61.7	100	32
Beck's 6585TCV2P	233.3	23.8	60.9	100	32
Pioneer P0953AM	232.7	17.8	62.0	100	33
Pioneer P1222AM	231.9	18.4	62.0	100	33
POWER PLUS 5J21AM	229.5	18.6	61.6	90	32
Beck's 6374V2P	229.1	19.4	61.7	100	33
Beck's 6557V2P	226.8	21.5	61.4	100	32
BURRUS 7F33 VT2P	226.8	21.5	63.4	100	33
Pioneer P0953AM	221.7	18.0	62.5	85	33
Average	231.8	19.8	61.9	98	33



Burrus Field Agronomist Dana Harder was awarded the prestigious Tom Burrus Award at our annual summer sales kickoff meeting. Dana is proudly pictured with his wife Candi and their three children.





BYRON NOBIS

2023 marked Byron's 4th year involved with seed harvest. Byron is in charge of managing the shuck building where he skillfully and strategically keeps the season's massive shuck volume moving to their desired locations.

Heath & Jarred Meyer Gilliam, MO

Planted: April 13 in 30" rows at 33,000. Harvested: Sept. 30. Previous Crop: Soybeans. Fertilizer: N: 170-NH3, P: 70, K: 70. Herbicide: Accuron. Soil Type: Med. Loam. Weather: May-dry, June-dry, July-dry, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	% ERECT	STAND (x 1000)
POWER PLUS 5J21AM	207.6	15.0	60.0	100	33
BURRUS 6Y61 DG VT2P	203.6	17.0	63.3	100	33
BURRUS 8A12 VT2P	203.4	18.1	63.5	100	32
POWER PLUS 5U63AM	201.3	15.0	60.0	100	32
POWER PLUS 6W81AM	192.6	15.0	62.0	100	33
BURRUS 5A84 VT2P	191.1	17.3	61.3	100	32
Average	199.9	16.2	61.7	100	33



Burrus AM Kaleb Shiflett and his daughters saw Burrus 8A12 VT2P and Burrus 7P71 VT2P vie for the top spot in Sullivan Co., MO.

SULLIVAN

Kaleb Shiflett Humphreys, MO

Planted: April 25 in 30" rows at 29,000. **Harvested:** Oct. 17. **Previous Crop:** Soybeans. **Fertilizer:** N: 200, P: 50, K: 70. **Herbicide:** Trizmet, Atrazine, Roundup. **Weather:** May-normal, June-dry, July-dry, August-wet.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	STAND (x 1000)
BURRUS 8A12 VT2P	210.8	21.1	58.8	28
BURRUS 7P71 VT2P	210.3	20.2	58.5	29
BURRUS 7F33 VT2P	208.9	21.3	58.8	28
BURRUS 6Y61 DG VT2P	198.2	19.2	58.7	28
POWER PLUS 5U63AM	178.0	17.6	59.4	29
POWER PLUS 6W81AM	172.3	17.4	61.8	29
BURRUS 5A84 VT2P	154.0	18.3	60.0	29
POWER PLUS 5J21AM	152.3	17.6	59.9	29
POWER PLUS 3G31AM	150.8	15.9	58.0	32
POWER PLUS 4C14AM	145.0	16.6	58.7	28
Average	178.1	18.5	59.3	29



Found tucked away in the storeroom, this guy was fixture on the farm show tour 20 years ago promoting our 100% Free Replant Guarantee.

WARREN

Burrus 6Y61 DG VT2P scores first rank with 207 bu/a!

Scott Frankenberg Marthasville, MO

Planted: April 27 in 30" rows at 32,000. **Harvested:** Oct. 14. **Previous Crop:** Soybeans. **Soil Type:** Med. Loam. **Weather:** May-normal, June-dry, July-dry, August-dry.

		%	ADJ.	
BRAND/PRODUCT	BU/A	MOISTURE	TW	
BURRUS 6Y61 DG VT2P	207.8	15.2	57.1	
AgriGold A645-16VT2RIB	205.0	15.0	58.8	
AgriGold A6572VT2RIB	204.0	14.2	58.4	
POWER PLUS 5L44AM	199.1	15.2	58.0	
POWER PLUS 6J92AM	198.2	14.9	57.4	
POWER PLUS 4C14AM	190.0	14.3	56.4	
POWER PLUS 5U63AM	179.5	14.8	56.5	
BURRUS 5A84 VT2P	139.3	14.6	55.7	
POWER PLUS 6W81AM	127.8	14.3	57.8	
Average	183.4	14.7	57.3	



Burrus CSR Brenda Schuster unlocked an unknown talent throwing axes at our Winter Sales Seminar.

Brian Kurz Vandalia, MO

Planted: April 19 in 30" rows at 30,000. Harvested: Oct. 6. Previous Crop: Soybeans. Soil Type: Med. Loam. Weather: May-dry, June-dry, July-dry, August-dry.

BRAND/PRODUCT	BU/A	MOISTURE	ADJ. TW
BURRUS X6K13	134.6	18.2	61.9
BURRUS 7G44 V	133.6	19.0	59.5
BURRUS 8A12 VT2P	128.8	20.9	59.3
BURRUS 6Y61 DG VT2P	123.8	17.8	62.3
POWER PLUS 6J92AM	121.8	17.0	62.3
POWER PLUS 5J21AM	120.8	16.2	62.7
POWER PLUS 6W81AM	114.6	16.7	63.6
BURRUS 7F33 VT2P	114.0	17.8	61.5
POWER PLUS 5U63AM	109.9	18.1	63.1
BURRUS 5A84 VT2P	96.9	17.9	61.3
Average	119.9	18.0	61.8

BURRUSSEED.COM



Burrus Product Lead Melissa Grafton conducts one of her many visual inspections to advance promising new hybrids.

ATCHISON

Miles Smith Fairfax, MO

Planted: April 28 in 30" rows at 120,000. Harvested: Oct. 24. Previous Crop: Corn.

BRAND/PRODUCT	BU/A	% MOISTURE
DONMARIO DM 40E44	82.7	13.9
BURRUS 3693E	71.7	13.5
DONMARIO DM 3756E	71.3	13.0
DONMARIO DM 3932E	70.7	12.4
DONMARIO DM 34E11	67.8	12.5
BURRUS 3875E	66.8	11.9
Average	71.8	12.9



40 years is how long Steve has been helping

make harvest season go behind the scenes at our production facility in Arenzville. Steve is our Plant Manager and another key contributor to our success as a team and a company.

AUDRAIN

Tony Hoyt Laddonia, MO

Planted: May 2 in 30" rows at 154,000. Harvested: Oct. 9. Previous Crop: Corn. Soil Type: Light Clay. Weather: May-normal, Junedry, July-dry, August-dry. Notes: 9" behind 10-year average for rainfall from planting date.

BRAND/PRODUCT	BU/A	% MOISTURI
BURRUS 3693E PS SDS	47.0	10.5
DONMARIO DM 3932E PS SDS	43.1	10.7
BURRUS 3875E PS SDS	42.0	10.2
DONMARIO DM 42E21S PS SDS	40.8	10.9
BURRUS 4365E PS SDS	40.8	10.9
DONMARIO DM 3756E	39.2	10.2
Average	42.1	10.6



Dave Hughes gets hands on with the 2024 soybean lineup at our show plot in Arenzville.

BOONE

NEW DONMARIO DM 40E44 takes top honors at 85.6 bu/a!

John Lorentzen III Sturgeon, MO

Planted: May 12 in 15" rows at 140,000. Harvested: Oct. 9. Previous Crop: Corn. Soil Type: Med. Clay. Weather: May-wet, June-dry, July-dry, August-dry. Notes: 9.5" behind on yearly rainfall averages.

BRAND/PRODUCT	BU/A	% MOISTURE
DONMARIO DM 40E44 PS SDS	85.6	8.8
BURRUS 4365E PS SDS	82.2	8.9
DONMARIO DM 3756E PS SDS	76.5	8.7
DONMARIO DM 42E21S PS SDS	74.4	9.1
BURRUS 3693E PS SDS	73.2	9.1
DONMARIO DM 3932E PS SDS	73.1	8.8
BURRUS 3875E PS SDS	72.7	8.9
Average	76.9	8.9

Average



Power Plus[®] 2Y06AM^{™*} looked strong right from the start in Richland Co., WI

LAFAYETTE

David Dobson Lexington, MO

Planted: May 3 in 15" rows at 140,000. Harvested: Oct. 17. Previous Crop: Corn. Herbicide: Enlist, Liberty. Fertilizer: N: 0, P: VRT, K: VRT. Soil Type: Med. Loam. Weather: May-dry, June-dry, July-dry, August-dry. ✓ CHECK Variety: Burrus 3875E.

BRAND/PRODUCT	BU/A	RANK	% MOISTURE
✓ CHECK	79.2		13.4
DONMARIO DM 34E11	81.1	5	13.6
BURRUS 3693E	72.8	7	13.8
DONMARIO DM 3756E	77.2	4	13.4
✓ CHECK	63.2		13.0
DONMARIO DM 3932E	75.0	2	13.4
DONMARIO DM 40E44	67.7	6	13.2
DONMARIO DM 42E21S	74.0	3	13.4
BURRUS 4365E	78.5	1	13.3
✓ CHECK	62.7		12.4
Average	73.1		13.3
Check Average	68.4		12.9



Burrus AM Holden Bargfrede has a new friend to share harvest success stories with in his puppy Maggie.

LEWIS

Darin Munzlinger Williamstown, MO

Planted: June 7 in 30" rows at 125,000. Harvested: Oct. 23. Previous Crop: Corn. Weather: June-dry, July-dry, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE
DONMARIO DM 40E44 PS SDS	64.9	11.3
DONMARIO DM 3932E PS SDS	63.6	11.4
BURRUS 4365E PS SDS	62.3	11.4
DONMARIO DM 3756E PS SDS	61.0	11.4
BURRUS 3875E PS SDS	60.8	11.6
DONMARIO DM 42E21S PS SDS	59.5	11.7
BURRUS 3693E PS SDS	57.0	11.5
DONMARIO DM 34E11 PS SDS	56.9	11.6
Average	60.8	11.5

LATE-SEASON SOYBEAN DISEASES

Deciphering diseases that can easily be confused for another in soybeans.

by DANA HARDER, CCA

Many soybean diseases were prevalent in 2023. June was dry, leading to soybean stress during early growth. Rain arrived during the last week of June and was frequent during July. Some areas received overly abundant precipitation in August. Sudden death syndrome is often the main disease that comes to mind, but in this article we'll look at others that can cause issues.

Phytophthora: This pathogen causes root and stem rot in soybeans and is often observed in areas with poor drainage or high clay content. It belongs to a group of organisms called Oomycetes, commonly referred to as water molds. Warm soils followed by frequent rainfall create conditions conducive for infection, especially when soils are saturated 7-14 days. There are different phases for infection. Damping off can occur early in the growing season and can best be prevented with seed treatment.

Burrus PowerShield[®] seed treatment has two modes of action to protect against phytophthora. Stem rot infections appear as chocolate brown lesions working from the base upwards. Plants wilt and eventually turn yellow with leaves remaining attached. Variety



Phytophthora in soybeans.

selection can play a crucial role in limiting infections. Notably, selecting a variety with a good field tolerance score is important. Secondly, selecting a variety with a Rps (resistance to phytophthora sojae) gene or stacked Rps genes can convey tolerance.

Root rot infections can be difficult to detect in the field. Reduced upper plant growth is the most telling symptom. Digging plants and examining roots will reveal reduced root growth with fewer hairs and nitrogen fixing nodules. Crop rotation and improving drainage can reduce the risk for infection as well.

Stem Canker: Multiple fungi in the Diaporthe genus are responsible for causing stem canker in soybeans. If noticed late, this pathogen often gets confused with other diseases like phytophthora, SDS, brown stem rot, and white mold. Symptoms appear during reproductive stages, going from flowering into pod fill. Lesions appear around lower branch nodes and coalesce together, which can look like phytophthora. It can transport toxins to leaves, causing interveinal necrosis looking like SDS or brown stem rot. Green tissue will often remain above and below the canker area. Tillage can help reduce the inoculum for succeeding



Stem canker in soybeans.

years. Rotation to a grass crop like corn, wheat, or sorghum can also help. Planting varieties with good stem canker tolerance and high quality seed is recommended, as it can be seed borne.

Charcoal Rot: There were areas of the Burrus footprint that received well below normal precipitation during pod fill. Charcoal rot can occur under dry, warm conditions during reproductive stages. It appears in dry areas of the field and may appear as natural senescence. Pods will be unfilled at the top of the plant. Brown streaking can appear in roots and microsclerotia can be easily seen on the outer stem. Planting fuller maturity varieties can help since vegetative stages will occur during the hottest part of the growing season. Incorporation of no-till, strip till, or reduced till systems can conserve moisture. Rotation to cereal crops can help reduce inoculum in the soil. Reducing plant populations can reduce in season stress as well.

In-season fungicide applications will not help with the diseases mentioned. Each season presents its own set of unique challenges and 2023 was no exception. If you need assistance with choosing varieties or managing disease, please contact your Burrus Representative.



Charcoal rot microsclerotia in soybeans.



Burrus AMs Marcus Horan and Jon Zeeb show off their championship sales belts and trophies earned at the 2023 sales kickoff.



Todd Burrus leads a sales team training on the Burrus dedication to quality seed production in Arenzville.



Cool weather can test a man's patience and seed treatment. Burrus PowerShield® was made for such a time as this!

SAINT CHARLES

Wayne Boschert Saint Charles, MO

Planted: May 10 in 15" rows at 140,000. Harvested: Oct. 17. Previous Crop: Corn. Soil Type: Heavy Loam. Weather: June-dry, Julynormal, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE
Lewis 3513XF	83.2	11.9
Pioneer P37A18E	82.2	15.7
Lewis 3834XF	80.4	15.4
BURRUS 3875E	80.1	13.9
DONMARIO DM 36F84S	79.9	14.5
Lewis 4335XF	74.2	12.5
Lewis 3932XF	74.0	13.8
Lewis 3623XF	71.0	12.7
Lewis 4035XF	70.7	12.7
Lewis 4211XF	69.3	12.6
DONMARIO DM 3932E	66.5	12.7
Average	75.6	13.5

Average



Wayne & Scott Boschert saw their bean plots average 75 bu/a and 70 bu/a respectively in Saint Charles Co., MO.

Scott Boschert Wentzville, MO

Planted: May 10 in 15" rows. Harvested: Oct. 17. Previous Crop: Corn. Soil Type: Heavy Loam. Weather: June-dry, July-dry, August-dry. Notes: 6"+ behind on average annual rainfall.

BRAND/PRODUCT	BU/A	% MOISTURE
BURRUS 4365E	79.1	13.3
DONMARIO DM 36F84S	75.6	13.1
BURRUS 3886F	73.3	11.4
DONMARIO DM 41F33S	70.8	11.7
BURRUS 3875E	70.6	12.0
Lewis 3834XF	70.1	12.6
DONMARIO DM 3932E	65.3	12.1
Lewis 4211XF	62.2	13.3
Average	70.9	12.4

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Burrus AM Mike Dicken and wife Lisa enjoy their President's Club trip to Cancun.

SULLIVAN

Kaleb Shiflett Humphreys, MO

Planted: May 19 in 30" rows at 155,000. Harvested: Oct. 17. Previous Crop: Corn. Fertilizer: N: 11, P: 42, K: 65. Herbicide: Roundup, Enlist, Liberty, Dual. Soil Type: Light Clay. Weather: June-dry, July-normal, Augustwet.

BRAND/PRODUCT	BU/A	% MOISTURE
BURRUS 4365E PS SDS	62.0	13.3
BURRUS 3642E PS	61.6	13.9
BURRUS 3875E PS SDS	59.5	13.9
DONMARIO DM 3932E PS SDS	57.6	13.7
DONMARIO DM 40E44 PS SDS	55.4	13.9
BURRUS 3159E PS SDS	55.2	14.2
DONMARIO DM 34E11 PS SDS	55.2	14.2
BURRUS 3642E PS	55.1	14.4
DONMARIO DM 42E21S PS SDS	53.5	13.7
DONMARIO DM 3756E PS SDS	51.3	14.0
BURRUS 3693E PS SDS	51.0	14.4
DONMARIO DM 27E34 PS SDS	42.9	14.4
DONMARIO DM 28E52 PS SDS	42.9	14.4

54.1

14.0

Average



Check out the pods on David Dobson's Burrus 4365E in Lafayette Co., MO!



Kevin started helping with harvest in 1999 so, the 2023 crop represents his 24th on staff with Burrus. Kevin manages the lab and quality control efforts with our sampling processes.

WARREN

Scott Frankenberg Marthasville, MO

Planted: May 5 in 30" rows at 110,000. Harvested: Oct. 14. Previous Crop: Corn. Soil Type: Med. Loam. Weather: May-normal, June-dry, July-dry, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE
BURRUS 3886F	67.9	13.7
BURRUS 4292F	66.1	14.1
DONMARIO DM 36F84S	59.8	14.0
Lewis 4211XF	54.5	13.5
DONMARIO DM 41F33S	54.3	14.0
Average	60.5	13.9

Brian Kurz Vandalia, MO

Planted: May 10 in 30" rows. Harvested: Oct. 12. Previous Crop: Corn. Soil Type: Med. Loam. Weather: May-dry, June-dry, July-dry, August-dry.

BBAND/PBODUCT	BII/A	% MOISTURE
	10,10	• • • •
BURKUS 4305E	43.3	9.9
DONMARIO DM 42E21S	43.0	10.6
DONMARIO DM 3932E	41.9	9.7
DONMARIO DM 3756E	41.3	9.3
BURRUS 3875E	40.0	10.4
Average	41.9	10.0

GRANT

Austin Williamson Muscoda, WI

Planted: May 5 in 30" rows at 32,500. **Harvested:** Oct. 9. **Previous Crop:** Wheat. **Herbicide:** Acuron Flex. **Weather:** May-dry, June-dry, July-dry, August-dry.

BRAND/PRODUCT	BU/A	% MOISTURE	ADJ. TW	
POWER PLUS 4C14AM	276.1	20.5	58.7	
POWER PLUS 3G31AM	270.5	21.1	60.4	
	255.2	20.9	60.2	
BURRUS 9022 TRE	229.8	18.8	61.3	
Average	253.3	20.4	59.7	



FREMONT

Jeremy Lee Walter Farragut, IA

Planted: May 22 in 30" rows at 150,000. Harvested: Oct. 21. Previous Crop: Corn.

BRAND/PRODUCT	BU/A	% MOISTURE
Kruger K3305XF	65.8	10.9
BURRUS 3464F	65.8	11.0
BURRUS 3159E	65.5	11.2
Kruger K3593XF	63.1	11.3
Kruger K3625XF	62.2	11.5
DONMARIO DM 36F84S	59.0	11.2
Average	63.6	11.2

Jeremy Lee Walter Farragut, IA

Planted: May 21 in 30^{''} rows at 150,000. **Harvested:** Oct. 2. **Previous Crop:** Corn.

BRAND/PRODUCT	BU/A	% MOISTURE
BURRUS 3159E	76.7	8.0
Connect CT3423E	75.9	9.8
Pioneer P35T15E	75.4	10.8
Brevant B313EE	71.8	7.9
Connect CT3223E	71.8	8.4
Connect CT3324E	71.6	9.4
Connect CT3023E	71.3	7.9
Connect CT2923E	70.9	8.2
Connect CT3623E	69.1	10.2
Average	72.7	9.0



Burrus AM Marcus Horan proudly erects a DONMARIO soybean sign in Peoria Co. to highlight some great soybeans.

Jeremy Lee Walter Farragut, IA

Planted: May 22 in 30" rows at 150,000. **Harvested:** Oct. 21. **Previous Crop:** Corn.

BRAND/PRODUCT	BU/A	% MOISTURE
DONMARIO DM 34E11	64.2	10.6
Connect CT3423E	62.9	10.4
BURRUS 3693E	60.9	10.6
DONMARIO DM 3756E	60.1	10.4
Connect CT3623E	58.2	10.5
Brevant B363EE	57.1	10.4
BURRUS 3875E	52.6	11.0
Average	59.4	10.6

WEED CONTROL IN A DROUGHT

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Steps to improve weed control in seasons with drought and seasons without.

by CHRIS BROWN, CCA

This season saw drought conditions in most of our footprint at one time or another. These conditions not only stressed the crop and led to reduced production, but also led to poor performance of herbicides and poor weed control. Let's discuss how to enhance weed control in adverse conditions.

Weed Pressure: First, you need to understand how dry conditions affect weed pressures. Although many weeds will remain dormant and you may have less overall, weeds that do germinate will likely out-compete the crop as they are more adept to surviving dry conditions. Weeds also undergo physical changes to combat hot, dry conditions. Natural defenses such as upright leaves and thick cuticles aid in maintaining moisture in the weeds. These same adaptations make it difficult to control the weeds. Combine these attributes with many weeds continually germinating throughout the season and we have increased pressure with additional flushes during the season.

Herbicide Performance: Multiple factors will affect the performance of herbicides in dry conditions. As stated above, the physical changes the weeds undergo is one factor but there are several others that will affect this performance. Stressed weeds are more difficult to kill. For systemic herbicides to control weeds, they need to be actively growing to allow for trans-location of the herbicide and perform correctly. This process is slow and may negatively affect the performance of the herbicide. On the other hand, contact herbicides will be more effective but also cause more crop damage. You can expect rapid evaporation of the spray

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droplets at application either prior to deposition on the plant or shortly after landing on the leaves. This evaporation allows a shorter period for the herbicide to be absorbed by the weeds. Residual herbicides require rain to help activate them; after a period, herbicides that haven't been rained into the soil profile will undergo degradation and become less effective.

Adjust: Combating these challenges requires action and adjustments to your spray programs to ensure the best performance.

- Apply the correct rates. For systemic herbicides, apply full label rates to ensure the most effective control. For contact herbicides, consider applying reduced label rates to prevent crop injury.
- Consider adjuvants to help deposition and absorption of systemic herbicides. Adding oils helps with depositions and cutting through thicker cuticles. Cut back on them in combination with contact herbicides to limit crop damage.
- Spraying earlier in the day will help limit evaporation and allow for better absorption and prevents excessive crop injury with contact herbicides.
- Increasing spray volume and droplet size will help prevent evaporation and aid with coverage in dry conditions.
- Adjust timing of application so you are spraying target weeds early. The larger the weeds get, the more difficult effective control will be.

These steps will not only help in drought conditions but also in "normal" conditions. Using the correct rates and adjuvants adjusted for current conditions will ensure you achieve the best results possible.

POWERSHIELD® SEED TREATMENTS

by MELISSA GRAFTON

Introduction of soybean seed treatments was a game changer for the industry and offered growers a way to protect their investment. With a small additional cost, growers can protect their soybeans from yield robbing factors like insects, nematodes, and diseases; which in turn leads to better uniformity, vigor, and yield. Here at Burrus Seed, we think of our seed treatments as an insurance policy for your investment.

Our PowerShield[®] custom blended seed treatment combines the right amount of insecticide and 4 fungicides to protect your seed from: Common underground pest, Pythium, Phytophthora, Fusarium, Rhizoctonia, Phomopsis

PowerShield® SDS: When you purchase PowerShield SDS (PS SDS) you get additional protection against sudden death syndrome (SDS) and soybean cyst nematode (SCN). Soybean cyst nematodes are the #1 yield robbing issue in Illinois and Missouri, with SDS coming in second. SDS can consume as much as 10-15% of your yield potential and SCN presence compounds the issue leaving a devastating path of destruction. Signs of the disease can start around the R1 stage, but this pesky fungus feeds on plants as early as emergence. The fungus feeds off the root system and creates a toxin that spreads through the plant causing foliar symptoms. By the time you see these foliar symptoms, yield loss is inevitable.

Cool, wet soils favor SDS. Situations that increase the risk of infection include early planting, planting into low lying areas of a field or areas with poor drainage, and a consistent cool, wet spring. If you know you are putting your seed at risk, we recommend two methods of protection.

First, select varieties that have natural resistance to the pathogen. In our portfolio, we score products with strong resistance a 9 to less resistance with a 5. When selecting products for fields that have been an issue in the past, we recommend a product with a higher score and the additional protection of PS SDS treatment.

In 2022, we completed a study exploring the return on investment of our PowerShield SDS seed treatment. When applied to products with lower resistance, we saw a 4.4 bu/a advantage over the same product with standard PowerShield treatment. (*Figure 1.*) When PS SDS was added to a product with mid-level tolerance, a 1.5 bu/a advantage was noted. (*Figure 2.*) When PS SDS was added to a highly resistant product, we saw a 1 bu/a advantage. (*Figure 3.*)

The more time the soybean spends fighting to protect itself, the less time it spends making yield. Seed is the foundation for every grower's success. Everything we do to reduce that risk increases the potential return on your investment. Please consider our PowerShield and PowerShield SDS treatments to protect your investment.



Figure 1. Testing experimental A with a SDS score of 5; an average 4.4 bu/a advantage was recorded.





Figure 3. Testing experimental C with a SDS score of 9; an average 1.0 bu/a advantage was recorded.

2023 CORN BIG WINS

RANK	PRODUCT	YIELD BU/A	ENTRIES	SPONSOR	MATURITY Range	COOPERATOR	COUNTY, STATE
1st	Burrus 7F33 VT2P	277.2	63	FIRST ILWC	112 - 116	Roger Ladage	Macoupin, IL
1st	Power Plus 5J21AM	263.7	45	FIRST ILEC	105 - 111	John Adcock	Macon, IL
1st	Burrus 7T27 SSP	297.7	24	Independent	any	Marty Turner	Cass, IL
1st	Power Plus 2J67 Q	270.0	17	Independent	any	Jerry King	Ogle, IL
1st	Power Plus 4C14AM	203.9	23	Independent	any	Curtis Biesenthal	Sangamon, IL
1st	Power Plus 5J21AM	150.6	14	Independent	any	Chuck Bockhorst	Lincoln, MO
1st	Power Plus 5J21AM	259.4	45	FIRST ILEC	105 - 111	Curt Clapper	Douglas, IL
1st	Burrus 7F33 VT2P	216.5	16	Independent	any	Brian Zeeb	Bond, IL
1st	Power Plus 6B86 Q	255.2	17	Independent	any	Mark Monier	Marshall, IL
1st	Power Plus 5J21AM	279.2	45	FIRST ILEC	105 - 111	Jeff & Evan Suits	Champaign, IL
2nd	Power Plus 5J21AM	277.3	44	FIRST MONO	107 - 112	Jeff Gaskill	Buchanan, MO
2nd	Power Plus 5F17 Q	308.6	45	FIRST NCTS	108 - 111	Tom Fink	Carroll , IL
2nd	Power Plus 5U63AM	239.9	11	Independent	any	Rick Kiehl	Saline, MO
2nd	Power Plus 5J21AM	206.5	23	Independent	any	Curtis Biesenthal	Sangamon, IL
2nd	Power Plus 5J21AM	268.2	45	FIRST ILWC	105 - 111	Joel Lewis	McDonough, IL
2nd	Power Plus 6B86 Q	262.8	36	Independent	any	Jeff Merema	Whiteside, IL
2nd	Power Plus 5J21AM	287.4	65	Independent	any	Synergy Seeds - Onarga	Iroquois, IL
3rd	Power Plus 5F17 Q	297.6	54	FIRST ILNO	107 - 110	Darren Walter	LaSalle, IL
3rd	Power Plus 5L44AM	344.6	45	FIRST NCTS	108 - 111	Glenn Griffin	Winneshiek, IA
3rd	Power Plus 1U41AM	300.2	53	FIRST WISO	99 - 104	Joshua Tracy	Rock, WI
3rd	Burrus 7F33 VT2P	265.5	63	FIRST ILWC	112 - 116	Zach Virgin	Cass, IL
3rd	Burrus 6Y61 DG VT2P	235.6	11	Independent	any	Rick Kiehl	Saline, MO
3rd	Burrus 6Y61 DG VT2P	147.1	14	Independent	any	Chuck Bockhorst	Lincoln, MO
3rd	Power Plus 5F17 Q	255.8	39	Independent	any	Synergy Seeds - Wilmington	Will, IL

2023 SOYBEAN BIG WINS

RANK	PRODUCT	YIELD BU/A	ENTRIES	SPONSOR	MATURITY Range	COOPERATOR	COUNTY, STATE		
1st	DONMARIO DM 28E52	80.7	17	Independent	any	Jerry King	Ogle, IL		
1st	Burrus 3159E	76.7	9	Independent	any	Jeremy Lee Walter	Fremont, IA		
2nd	Burrus 2681E	91.0	14	Independent	any	Jeff Merema	Whiteside, IL		
2nd	Burrus 3966E	78.9	17	Independent	any	Jerry King	Ogle, IL		
2nd	DONMARIO DM 28E52	72.1	32	Independent	any	Synergy Seeds - Herscher	Kankakee, IL		
2nd	Burrus 3966E	70.9	63	FIRST MONO	3.2 - 4.3	Regional Summary			
2nd	Burrus 3159E	93.6	52	Independent	any	Synergy Seeds - Onarga	Iroquois, IL		
3rd	Burrus 3966E	70.4	63	FIRST MONO	3.2 - 4.3	Jeff Gaskill	Buchanan, MO		
3rd	DONMARIO DM 27E34	90.9	14	Independent	any	Jeff Merema	Whiteside, IL		
3rd	Burrus 3159E	82.5	31	Independent	any	Synergy Seeds - L'Earable	Iroquois, IL		
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MORE 2023 PLOT DATA



2024 HYBRID LINEUP



2024 VARIETY LINEUP

2024 BURRUS HYBRID COMPARISON

GENERAL CHARACTERISTICS						PLANTING	LANTING INFORMATION		RESPONSE TO ENVIRONMENT		ADAPTABILITY					
Brand	Days to maturity	Glyphosate	Glufosinate	Plant height	Ear height	Ear type	Corn on corn	Speed of emergence	Early vigor	Drought tolerance	Greensnap	High organic soils	Timber soils	Clay & varied soils	Wet soils	
ABOVE / BELOW GROUN			DL													
Power Plus [®] 9L82 Q [™]	99	Yes	Yes	9	8	Flex	Excellent	7	Good	8	7	8	10	10	8	
Power Plus® 1K18 Q™	100	Yes	Yes	8	8	Intermediate	Excellent	8	Excellent	9	7	10	10	10	9	
Power Plus [®] 2W400 Q™	102	Yes	Yes	8	8	Flex	Good	6	Good	8	9	9	10	10	9	
Power Plus [®] 2J67 Q™	105	Yes	Yes	8	7	Intermediate	Excellent	7	Good	10	6	10	10	10	8	
Power Plus® 3W97 Q™	107	Yes	Yes	8	8	Intermediate	Excellent	7	Good	8	8	10	10	10	10	
Power Plus [®] 4C16 Q [™]	108	Yes	Yes	6	7	Intermediate	Good	8	Excellent	7	6	10	8	7	8	
Power Plus [®] 4R56 Q [™]	109	Yes	Yes	8	8	Flex	Excellent	8	Excellent	7	8	10	9	8	9	
Power Plus [®] 5F17 Q [™]	110	Yes	Yes	7	7	Intermediate	Excellent	7	Good	8	8	10	10	8	8	
Burrus 6A38 SS	112	Yes	Yes	7	7	Intermediate	Good	6	Good	7	8	10	9	7	6	
Power Plus [®] 6B86 Q™	113	Yes	Yes	7	8	Intermediate	Excellent	7	Good	6	8	10	8	8	8	
Power Plus® 6M89 Q™	113	Yes	Yes	7	8	Intermediate	Good	8	Good	10	9	9	10	9	8	
Burrus 7T27 SSP	114	Yes	Yes	7	7	Intermediate	Excellent	7	Good	8	8	10	9	8	8	
Burrus 7N88 SS	115	Yes	Yes	8	8	Flex	Excellent	7	Good	8	6	10	9	8	8	
ABOVE GROUND INSEC		ROL	°	· · · · ·		-	1		•	ſ						
Burrus 9Q22 TRE	98	Yes	No	8	8	Flex	Good	7	Excellent	8	8	10	9	9	8	
Power Plus [®] 1K12AM [™]	100	Yes	Yes	8	8	Intermediate	Exc + SAI	8	Excellent	9	6	10	10	10	9	
Power Plus® 1U41AM™	102	Yes	Yes	7	7	Intermediate	Good	8	Excellent	10	9	9	10	10	8	
Power Plus [®] 2Y06AM [™]	104	Yes	Yes	8	8	Intermediate	Good	7	Excellent	8	6	9	9	9	8	
Power Plus® 3G31AM™	106	Yes	Yes	8	8	Flex	Suitable	8	Good	7	9	10	8	8	9	
Power Plus [®] 3V14AM™	106	Yes	Yes	7	8	Intermediate	Good	7	Excellent	9	8	10	10	10	8	
Power Plus® 4C14AM™	108	Yes	Yes	7	7	Intermediate	Good	8	Excellent	7	6	10	8	7	8	
Power Plus [®] 5L44AM™	110	Yes	Yes	6	7	Intermediate	Good	7	Good	7	7	10	8	7	6	
Power Plus® 5J21AM™	110	Yes	Yes	8	6	Flex	Good	8	Good	7	8	9	10	9	10	
Burrus 5A84 VT2P	111	Yes	No	7	7	Intermediate	Good	7	Good	8	8	10	10	9	8	
Power Plus [®] 5U63AM ^{™°}	111	Yes	Yes	8	9	Intermediate	Suitable	7	Good	9	8	10	10	10	8	
Burrus 6K13 V	112	Yes	Yes	8	7	Intermediate	Suitable	7	Excellent	8	7	10	9	8	8	
Power Plus® 6J92AM™	113	Yes	Yes	8	8	Flex	Suitable	8	Good	7	7	10	8	7	8	
Power Plus® 6W81AM ^{™·}	113	Yes	Yes	7	7	Flex	Suitable	8	Excellent	7	7	10	8	7	8	
Burrus 6Y61 DG VT2P	113	Yes	No	8	8	Intermediate	Exc + SAI	7	Excellent	9	7	10	9	9	8	
Burrus 7G44 V	114	Yes	Yes	7	6	Intermediate	Exc + SAI	7	Good	8	8	10	9	9	8	
Burrus 7F33 VT2P	114	Yes	No	8	9	Intermediate	Suitable	7	Good	8	8	10	9	8	8	
Burrus 7P71 VT2P	115	Yes	No	8	8	Intermediate	Good	7	Suitable	9	8	10	10	10	9	
Burrus 8A12 VT2P	116	Yes	No	7	8	Flex	Exc + SAI	7	Good	9	7	9	10	10	9	
CONVENTIONAL																
Power Plus® 2Y10™	104	No	No	8	8	Intermediate	Good	7	Excellent	8	6	9	9	9	8	
Power Plus® 4R40 [™]	108	No	No	8	8	Flex	Exc + SAI	8	Excellent	7	8	10	9	8	9	
Power Plus® 6H80 ^{™*}	113	No	No	9	9	Intermediate	Good	7	Good	8	8	10	9	8	8	
Burrus 6V90	113	No	No	8	7	Intermediate	Good	6	Excellent	8	7	10	8	8	9	
		C				Kaberan Tabum		21 7159	Sect. Start.	17				and the second	No Maria	

General rating scale: 10 = Outstanding; 5 = Average; 1 = Poor

GROWER RESOURCE

Ear Height : 9 = High; 1 = Low

Plant Height: 9 = Tall; 1 = Short

Exc + SAI = Excellent corn on corn option with soil insecticide

The information and recommendations contained in this chart are produced for comparison purposes only and are not guarantees as to the results, since those results may vary. They are provided to assist in the selection of the hybrid which will best suit your needs. No warranties either expressed or implied are intended by this chart.

			PROTECT	ION FROM	I DISEASE	s			HARVEST DESCRIPTION									
	Sand irrigated	Sand dryland	Diplodia ear rot	Goss' wilt	Gray leaf spot	Northern leaf blight	Southern rust	Tar spot	Roots	Stalks	Drydown	Fall appearance	Test weight	High tonnage silage	Silage quality	Harvest residue	Brand	
															ABOVE / E	ELOW GR	OUND INSECT CONTROL	
	8	9	NR	9	6	8	NR	7	7	7	7	9	8	9	7	8	Power Plus [®] 9L82 Q ^{™*}	
	10	9	NR	9	7	8	NR	7	8	8	9	9	6	8	6	8	Power Plus [®] 1K18 Q™⁺	泽
	10	9	NR	9	6	7	NR	7	8	7	7	8	7	7	7	8	Power Plus [®] 2W400 Q™⁺	L
	9	10	7	9	6	7	NR	6	7	8	8	8	7	9	7	8	Power Plus [®] 2J67 Q [™]	
	10	7	7	7	7	7	NR	6	8	8	6	9	9	8	7	8	Power Plus [®] 3W97 Q™	E
	9	6	7	8	7	6	6	6	8	7	8	7	8	8	7	7	Power Plus [®] 4C16 Q [™]	Y
	9	7	8	9	8	7	7	7	9	8	7	9	9	8	7	8	Power Plus [®] 4R56 Q [™]	
	9	8	7	8	7	8	7	6	8	7	7	7	8	8	8	7	Power Plus [®] 5F17 Q [™]	
	9	6	NR	8	8	8	6	5	8	8	7	6	8	7	6	8	Burrus 6A38 SS	and a
	9	6	7	8	7	7	7	6	8	8	7	9	8	7	7	8	Power Plus [®] 6B86 Q [™]	
	9	10	6	8	6	7	6	6	8	8	6	7	9	8	8	8	Power Plus [®] 6M89 Q™	10. ×
	9	7	6	9	8	8	6	5	9	8	7	8	9	8	7	8	Burrus 7T27 SSP	
	10	8	NR	8	8	8	7	4	9	9	7	9	9	9	8	9	Burrus 7N88 SS	ACT.
				Y						r.	2			2	ļ	ABOVE GR	OUND INSECT CONTROL	14
	9	8	NR	9	7	7	NR	5	8	8	9	8	7	9	9	8	Burrus 9Q22 TRE	
	10	9	NR	9	7	8	NR	7	9	8	9	9	6	8	6	8	Power Plus [®] 1K12AM [™]	
	10	10	NR	9	6	7	NR	8	7	10	8	10	6	8	7	9	Power Plus [®] 1U41AM™	1
	9	7	8	8	7	7	6	7	8	8	8	8	7	9	7	8	Power Plus [®] 2Y06AM™	奏を
	9	6	7	9	7	7	6	6	8	8	8	8	8	8	7	8	Power Plus® 3G31AM [™]	N/N
	10	10	7	9	6	6	NR	6	8	8	7	8	8	8	7	7	Power Plus [®] 3V14AM™	
	9	6	7	8	7	6	6	6	8	7	8	7	8	8	7	7	Power Plus [®] 4C14AM™	
	9	6	6	7	6	7	6	5	9	8	6	8	9	8	8	7	Power Plus [®] 5L44AM™	
	10	8	6	8	7	8	6	7	8	8	8	9	8	8	8	8	Power Plus [®] 5J21AM™	
	9	8	NR	8	7	7	9	4	8	9	7	7	8	8	6	7	Burrus 5A84 VT2P	
	9	9	8	9	8	6	7	5	8	8	8	8	8	8	8	8	Power Plus [®] 5U63AM™	
	9	7	8	7	8	8	7	7	8	9	7	8	9	8	7	9	Burrus 6K13 V	100
	9	6	7	8	7	7	7	7	9	7	7	7	9	8	7	7	Power Plus [®] 6J92AM [™]	N.L.
	9	7	7	8	7	7	7	6	8	9	7	8	9	8	7	8	Power Plus [®] 6W81AM [™]	
	9	8	8	7	8	8	NR	4	8	9	7	8	9	7	6	8	Burrus 6Y61 DG VT2P	
	9	8	NR	9	8	8	NR	7	9	8	7	8	6	9	8	8	Burrus 7G44 V	\$
	9	8	6	8	8	8	6	5	8	8	8	8	9	7	6	8	Burrus 7F33 VT2P	官
	10	8	NR	8	8	8	7	5	8	9	7	9	9	7	7	9	Burrus 7P71 VT2P	1
	9	9	8	8	9	9	8	5	10	10	7	9	9	8	6	8	Burrus 8A12 VT2P	110
																	CONVENTIONAL	
	9	7	8	8	7	7	6	7	8	8	9	8	7	9	7	8	Power Plus [®] 2Y10 ^{™*}	1th
	9	7	8	9	8	7	7	7	9	8	7	8	9	8	7	8	Power Plus [®] 4R40 ^{™*}	10
	9	7	8	9	7	7	7	5	7	8	7	8	8	8	7	8	Power Plus [®] 6H80 ^{™⁺}	X
	10	7	8	8	8	9	6	5	8	8	7	9	9	8	6	8	Burrus 6V90	語
2			968 - S	NA TO	SNS H	L.						835 N 73	15- F.X.	- 200				
	ALL YOUNG	27 BERL	A POR A	Allender				ALC: NE					AND ADD DO DO DO					39

AM = Optimum[®] AcreMax[®] DG VT2P = DroughtGard[®] VT DoublePRO[®] RIB Complete[®]

Q = Qrome® SS = SmartStax® RIB Complete®

SSP = SmartStax[®] PRO TRE = Trecepta[®] RIB Complete[®]

V = Viptera™ VT2P = VT DoublePRO[®] RIB Complete[®]

CORN PLANTING RATES + FUNGICIDE RESPONSE

PRODUCT	PLANTIN	FUNGICIDE						
PRUDUCI	< 18	0	180 - 2	240	> 24	0	USE	100
Power Plus [®] 9L82 Q ^{™*}	26 - 29	0.35	29 - 36	0.37	34 - 38	0.40		
Power Plus [®] 1K18 Q ^{™*}	26 - 30	0.34	30 - 37	0.36	35 - 39	0.38		
Power Plus [®] 2W400 Q ^{™∗}	26 - 29	0.35	28 - 35	0.38	34 - 38	0.40		
Power Plus [®] 2J67 Q ^{™*}	26 - 30	0.34	30 - 37	0.36	34 - 39	0.39		
Power Plus [®] 3W97 Q ^{™*}	26 - 30	0.34	30 - 37	0.36	36 - 39	0.37		
Power Plus [®] 4C16 Q ^{™*}	26 - 28	0.36	27 - 34	0.39	33 - 37	0.41		
Power Plus [®] 4R56 Q ^{™*}	26 - 27	0.38	27 - 34	0.39	33 - 37	0.41		
Power Plus [®] 5F17 Q ^{™*}	26 - 29	0.35	28 - 35	0.38	34 - 38	0.40		-
Burrus 6A38 SS	Not Adv	vised	29 - 36	0.37	34 - 39	0.39		
Power Plus [®] 6B86 Q ^{™*}	26 - 27	0.38	27 - 34	0.40	32 - 36	0.42		
Power Plus [®] 6M89 Q ^{™∗}	26 - 29	0.35	28 - 35	0.38	32 - 36	0.42		5
Burrus 7T27 SSP	26 - 28	0.36	27 - 34	0.39	33 - 37	0.41		153
Burrus 7N88 SS	26 - 28	0.36	28 - 35	0.38	34 - 38	0.40		
Burrus 9Q22 TRE	26 - 28	0.36	27 - 34	0.39	33 - 37	0.41		1
Power Plus [®] 1K12AM ^{™*}	26 - 30	0.34	30 - 37	0.36	35 - 39	0.38		41
Power Plus [®] 1U41AM ^{™⁺}	26 - 30	0.34	30 - 37	0.36	35 - 39	0.38		No.
Power Plus [®] 2Y06AM ^{™*}	26 - 27	0.38	28 - 35	0.38	34 - 38	0.40		
Power Plus [®] 3G31AM ^{™*}	26 - 27	0.38	27 - 34	0.39	32 - 36	0.42		
Power Plus [®] 3V14AM ^{™*}	26 - 29	0.35	28 - 35	0.38	34 - 38	0.40		N/s
Power Plus [®] 4C14AM ^{™*}	26 - 28	0.36	27 - 34	0.39	33 - 37	0.41		SIL
Power Plus [®] 5L44AM ^{™*}	26 - 27	0.38	28 - 35	0.38	34 - 39	0.39		-
Power Plus [®] 5J21AM ^{™*}	26 - 29	0.35	28 - 35	0.38	34 - 38	0.40		Sec.
Burrus 5A84 VT2P	26 - 29	0.35	28 - 35	0.38	34 - 38	0.40		
Power Plus [®] 5U63AM ^{™*}	26 - 29	0.35	29 - 36	0.37	35 - 39	0.38		-1
Burrus 6K13 V	26 - 27	0.38	27 - 34	0.39	33 - 37	0.41		-
Power Plus [®] 6J92AM ^{™*}	Not Adv	vised	27 - 34	0.40	31 - 34	0.44		
Power Plus [®] 6W81AM ^{™*}	26 - 27	0.38	27 - 34	0.40	31 - 34	0.44		1
Burrus 6Y61 DG VT2P	26 - 29	0.35	29 - 36	0.37	35 - 39	0.38		100
Burrus 7G44 V	26 - 28	0.36	28 - 35	0.38	33 - 37	0.41		
Burrus 7F33 VT2P	26 - 29	0.35	29 - 36	0.37	34 - 39	0.39		
Burrus 7P71 VT2P	26 - 29	0.35	29 - 36	0.37	34 - 39	0.39		
Burrus 8A12 VT2P	26 - 29	0.35	27 - 34	0.39	32 - 36	0.42		
Power Plus [®] 2Y10 ^{™*}	26 - 28	0.36	28 - 35	0.38	34 - 38	0.40		
Power Plus [®] 4R40 ^{™*}	26 - 27	0.38	27 - 34	0.39	33 - 37	0.41		
Power Plus [®] 6H80 ^{™*}	26 - 29	0.35	27 - 34	0.39	34 - 38	0.40		
Burrus 6V90	26 - 29	0.35	27 - 34	0.39	33 - 37	0.41		

= Not Suitable

= Suitable

2024 BURRUS VARIETY COMPARISON

Brand	Matu- rity	SCN Source	Emer- gence	Stand- ability	Phytophthora Gene	Phytoph- thora	Brown Stem Rot	Sudden Death Syn- drome	Frogeye Leaf Spot	White Mold	Iron Chlorosis	Canopy Width	Plant Height	Light Soils	Pubescence
ENLIST E3®															
Burrus 1876E	1.8	PI88788	8	8	Rps1k	8	NR	7	NR	8	7	8	7	NR	Gray
Burrus 2096E	2.0	PI88788	9	7	Rps1k	8	9	9	NR	7	7	7	8	8	L. Tawny
Burrus 2335E	2.3	PI88788	9	8	Rps1a+3a	8	9	7	9	7	8	7	7	NR	L. Tawny
DONMARIO DM 24E23	2.4	PI88788	9	8	Rps1k	7	NR	8	7	7	7	7	7	NR	L. Tawny
Burrus 2681E	2.6	Peking	8	8	Rps1k	7	8	8	9	7	8	8	7	NR	L. Tawny
DONMARIO DM 27E34	2.7	PI88788	8	8	Rps1c	7	8	6	8	7	7	7	7	NR	L. Tawny
DONMARIO DM 28E52	2.8	PI88788	8	7	Rps1k	8	NR	5	NR	6	6	8	7	8	Gray
Burrus 3159E	3.1	PI88788	8	8	none	7	9	6	6	NR	6	7	8	NR	Gray
DONMARIO DM 34E11	3.4	PI88788	9	8	none	7	9	7	6	NR	7	7	8	7	Gray
Burrus 3693E	3.6	PI88788	8	8	Rps1c+3a	7	7	7	8	NR	6	7	7	NR	Gray
DONMARIO DM 3756E	3.7	PI88788	8	7	none	8	NR	8	8	NR	7	7	7	8	Gray
Burrus 3875E	3.8	PI88788	8	6	Rps1c	7	NR	7	7	6	6	8	8	8	L. Tawny
Burrus 3966E	3.9	PI88788	9	7	Rps1k	7	NR	6	6	NR	6	8	8	NR	L. Tawny
DONMARIO DM 3932E	3.9	PI88788	8	7	none	8	NR	8	9	NR	7	7	8	8	Gray
DONMARIO DM 40E44	4.0	PI88788	8	6	Rps1c	7	NR	6	8	NR	NR	6	9	NR	L. Tawny
DONMARIO DM 42E21S	4.2	PI88788	8	7	none	8	NR	7	7	NR	7	8	7	8	Gray
Burrus 4365E	4.3	PI88788	8	7	Rps1k	7	9	7	7	NR	NR	8	8	NR	L. Tawny
XTENDFLEX®				_											_
Burrus 3464F	3.4	PI88788	8	7	Rps1c	6	9	6	NR	6	7	7	8	NR	Gray
DONMARIO DM 36F84S	3.6	PI88788	8	7	none	7	NR	7	9	NR	NR	8	8	NR	Gray
Burrus 3886F	3.8	PI88788	8	8	Rps1c	6	NR	7	6	6	5	6	9	8	Gray
DONMARIO DM 41F33S	4.1	PI88788	9	7	Rps1c	8	NR	8	9	NR	NR	7	8	NR	Tawny
Burrus 4292F	4.2	PI88788	8	7	Rps1c	5	NR	7	NR	NR	6	7	9	NR	L. Tawny
CONVENTIONAL															
DONMARIO DM 32C52	3.2	PI88788	8	8	none	NR	NR	8	7	NR	NR	7	7	NR	Tawny
DONMARIO DM 37C44S	3.7	PI88788	8	7	Rps1k	8	NR	7	8	NR	NR	7	8	NR	L. Tawny
DONMARIO DM 41C51S	4.1	None	8	8	Rps1k	8	NR	8	9	NR	NR	8	7	NR	L. Tawny

RATINGS: 10 = BEST, 1 = POOREST, NR = NOT RATED

IMPORTANT: Characteristic scores provide key information useful in selecting and managing products in your area. Information and ratings are based on comparisons with other products sold by Burrus. Information and scores are assigned by Burrus and are based on period-of-years testing through 2022 harvest and were the latest available at time of printing. Some scores may change after 2023 harvest. Scores represent an average of performance data across areas of adaptation, multiple growing conditions, and a wide range of both climate and soil types, and may not predict future results. Individual product responses are variable and subject to a variety of environmental, disease and pest pressures. Please use this information as only one component of your product positioning decision.

DONMARIO™ is a trademark used by B&B Seeds, LLC under license from GDM Seeds, Inc. Burrus is a distributor of DONMARIO™ products for B&B Seeds, LLC.

SOYBEAN PLANTING RATES

Row width	7.5 inch	15 inch	30 inch
Untreated	180 - 190	160 - 170	140 - 150
PowerShield® (fully treated)	165 - 175	145 - 155	125 - 135
PowerShield [®] SDS	165 - 175	145 - 155	125 - 135

1,000 SEEDS PER ACRE

Use higher end of range in less than ideal conditions. Great Plains Fluted-Feed Drills: to get the most accurate seed spacing, lower the gate setting and increase the drive speed.

SEED STEWARDSHIP

When a grower purchases any variety or trait, they do so under contract and agree to limitations. Those limitations are spelled out in the Technology Use Agreement (TUA). As new technologies are introduced, growers are required to sign new TUAs. Just like a herbicide label, these guideliness must be followed by the growers utilizing the specific product. Growers agree to all the terms associated with labels when they break the seal on the herbicide jug, seed bag or EZ Load box – whether they have signed the TUA or not. It is always best practice to have signed a current technology use agreement.

VALUE OF NEW BRANDED SOYBEAN 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 US Federal Seed Act requirements
- Free of seed-borne diseases
- Properly stored and conditioned

ON FARM ASSESSMENTS

To assess insect resistance management (IRM) compliance, Burrus will use a third-party to conduct assessments for a randomly selected set of customers who purchased technology-based hybrids as well as soybeans with Roundup Ready 2 Xtend technology.

Following each on-farm assessment, it will be determined if the grower is in compliance. If a grower is found to be out of compliance, Burrus will contact the grower prior to the next growing season to provide compliance assistance. Anyone found to be out of compliance will be checked the following two years. Repeated noncompliance can result in loss of access to these technologies.

PROTECTION OF INTELLECTUAL PROPERTY: PVPA AND PATENTS

Growers must recognize they are purchasing seed solely for the purpose of producing a grain crop, and seed, and any product from the seed, cannot be resold or used as seed. Purchase of seed does not transfer ownership of any Plant Variety Protection Act rights, patent rights or other intellectual property rights associated with a soybean product. Burrus takes all measures requested by our suppliers (e.g., labeling, requiring contractual agreements with our customers) to protect the PVP and/or intellectual property rights related to our seed products. We print on all bags, tags and order forms for each soybean product subject to protection under the PVPA and/or Patent Act as applicable:

Soybean products for which a PVP certificate has been issued or for which a certificate has been applied will be labeled as such. Unauthorized sales for reproductive purposes prohibited.

For soybean product on which a U.S. patent has been issued, or for which a patent has been applied will be labeled as such.

Seed containing a patented trait can only be used to plant a <u>single</u> commercial crop from which seed cannot be saved and replanted.

Seed containing the XtendFlex[®] traits can only be used to plant a single commercial crop. It is unlawful to save and replant XtendFlex[®] soybeans. Additional information and limitations on the use of this product are provided in the Technology Stewardship Agreement and the Bayer Technology Use Guide: tug.bayer.com. U.S. patents for Bayer technologies can be found at the following webpage: cs.bayerpatents.bayer. com.



TRAIT TRADEMARK & LEGAL

Burrus and Hughes are registered trademarks of Burrus. @ 2023, Colex-D technology are not authorized for use in conjunction with Burrus.

Bayer is a member of Excellence Through Stewardship® (ETS). Bayer products are commercialized in accordance with ETS Product Launch Stewardship Guidance, and in compliance with Bayer's Policy for Commercialization of Biotechnology-Derived Plant Products in Commodity Crops. Commercialized products have 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 Excellence Through Stewardship.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. It is a violation of federal and state law to use any pesticide product other than in accordance with its labeling. NOT ALL formulations of dicamba or glyphosate are approved for in-crop use with Roundup Ready 2 Xtend® soybeans. NOT ALL formulations of dicamba, glyphosate or glufosinate are approved for in-crop use with products with XtendFlex® Technology, ONLY USE FORMULATIONS THAT ARE SPECIFICALLY LABELED FOR SUCH USES AND APPROVED FOR SUCH USE IN THE STATE OF APPLICATION. Contact the U.S. EPA and your state pesticide regulatory agency with any questions about the approval status of dicamba herbicide products for in-crop use with Roundup Ready 2 Xtend® soybeans or products with XtendFlex® Technology.

seed representative for the registration status in your state.

Refuge seed may not always contain the DroughtGard® trait. IMPORTANT IRM INFORMATION: Certain products are sold as RIB Complete[®] corn blend products, and do not require the planting of a structured refuge except in the Cotton-Growing Area where corn earworm is a significant pest. Products sold without refuge in the bag (non-RIB Complete) require the planting of a structured refuge. See the IRM/Grower Guide for additional information. Always read and follow IRM requirements.

Roundup Ready® 2 Technology contains genes that confer tolerance to glyphosate. Roundup Ready 2 Xtend® soybeans contain genes that confer tolerance to glyphosate and dicamba. Products with XtendFlex® Technology contains genes that confer tolerance to glyphosate, glufosinate and dicamba. Glyphosate will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba. Glufosinate will kill crops that are not tolerant to glufosinate. Contact your seed brand dealer or refer to the Bayer Technology Use Guide for recommended weed control programs.

Insect control technology provided by Vip3A is utilized under license from Syngenta Crop Protection AG. Herculex® is a registered trademark of Dow AgroSciences LLC. Agrisure Viptera® is a registered trademark of a Syngenta group company. LibertyLink® and the Water Droplet Design® is a trademark of BASF Corporation. Respect the Refuge and Corn Design® and Respect the Refuge® are registered trademarks of National Corn Growers Association. DroughtGard®, RIB Complete®, Roundup Ready 2 Technology and Design™, Roundup Ready 2 Xtend[®], Roundup Ready 2 Yield[®], Roundup Ready[®], SmartStax[®], Trecepta®, VT Double PRO® and XtendFlex® are trademarks of Bayer Group

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 counties, a 20% separate corn borer refuge must be planted with 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

Enlist products

Enlist E3® soybean seeds containing the Enlist® trait can only be used to plant a single commercial crop. It is unlawful to save and replant Enlist E3® soybeans. Additional information and limitations on the use of these products are provided in the Corteva Agriscience Technology Use Agreement and Enlist® Soybean Product Use Guide. U.S. patents for Dow AgroSciences technologies can be found at the following webpage: www.corteva.us/Resources/trait-stewardship.html.

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) To plant Enlist, Herculex and PowerCore seed, you must have a limited license from Corteva Agriscience (or other appropriate affiliates). In consideration of the foregoing, Corteva Agriscience 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 B.t. products may not yet be registered in all states. Check with your 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.

> Corteva Agriscience is a member of Excellence Through Stewardship® (ETS). Corteva Agriscience products are commercialized in accordance with ETS Product Launch Stewardship Guidance and in compliance with the Corteva Agriscience policies regarding stewardship of those products. In line with these guidelines, our product launch process for responsible launches of new products includes a longstanding process to evaluate export market information, value chain consultations, and regulatory functionality. Growers and end users must take all steps within their control to follow appropriate stewardship requirements and confirm their buyer's acceptance of the grain or other material being purchased. For more detailed information on the status of a trait or . stack, please visit www.biotradestatus.com.

> Enlist E3[®] soybeans were jointly developed by Corteva Agriscience and M.S. Technologies, L.L.C. ®™ Enlist, Enlist E3, the Enlist E3 logo, and Colex-D are trademarks of Corteva Agriscience. PowerCore® multi-event technology was developed by Corteva Agriscience and Monsanto. Roundup®, Roundup Ready®, Roundup Ready 2 Technology and Design, and PowerCore® are registered trademarks of Monsanto Technology LLC.

> Power Plus® brand seed is distributed by Burrus. Power Plus®, Optimum®, AcreMax®, and AQUAmax® are trademarks of Pioneer. AM - Optimum® AcreMax® Insect Protection system with YGCB, HX1, LL, RR2. Contains a single-bag integrated refuge solution for aboveground insects. In EPA-designated cotton growing counties, a 20% separate corn borer refuge must be planted with Optimum AcreMax products. AMXT (Optimum[®] AcreMax[®] XTreme) – Contains a singlebag integrated refuge solution for above and below ground insects. The major component contains the Agrisure® RW trait, a Bt trait, and the Herculex® XTRA genes. In EPA designated cotton growing Optimum AcreMax XTreme products.

> Important: Always read and follow label and bag tag instructions; only those labeled as tolerant to glufosinate may be sprayed with glufosinate ammonium based herbicides.

Optimum AQUAmax[®] product performance in water-limited environments is variable and depends on many factors such as the severity and timing of moisture deficiency, heat stress, soil type, management practices and environmental stress as well as disease and pest pressures. All hybrids may exhibit reduced yield under water and heat stress. Individual results may vary.

Corn trait Technology incorporated into these seeds is commercialized under license from Syngenta Seeds, LLC. Herculex® Technology incorporated into these seeds is commercialized under license from Dow AgroSciences, LLC. HERCULEX® and the HERCULEX Shield are trademarks of Dow AgroSciences, LLC. Agrisure® Total, Duracade®, DuracadeViptera™, Viptera®, Viptera™ Z3 and E-Z Refuge® are trademarks of a Syngenta Group Company.

More information about Duracade® is available at http://www. biotradestatus.com/.

YieldGard VT Pro is a registered trademark used under license from the Baver Group.

Seed products with the LibertyLink® (LL) trait are resistant to the herbicide glufosinate ammonium, an alternative to glyphosate in corn, and combine high-yielding genetics with the powerful, non-selective, postemergent weed control of Liberty® herbicide for optimum yield and excellent weed control. LibertyLink®, Liberty® and the Water Droplet logo are registered trademarks of BASF.

Varieties with the DuPont[™] STS[™] soybean technology are tolerant to certain SU (sulfonylurea) herbicides. YieldGard VT Pro® is a registered trademark used under license from the Bayer Group. NOTE: A soybean variety with a herbicide tolerant trait does not confer tolerance to all herbicides. Spraying herbicides not labeled for a specific soybean variety will result in severe plant injury or plant death. Always read and follow herbicide label directions and precautions for use.

The GDM soybean products (including any conventional (non-GMO) soybean products) have been developed by GDM through decades of elite soybean breeding, with the sole intent to create elite oybean germplasm and produce high-yielding varieties. Bringing about these seed products has taken - and will continue to take - time. effort and investment by GDM and its suppliers. Such products are covered by intellectual property, including trademarks, pending plant variety certificates, confidential information, trade secrets, and pending patents. Grower shall not retain, hold back, clean, condition, sell (except as grain for feed or processing), transfer, or use any unused seed or its progeny (colloquially known as "saved seed" or "bin run") during any subsequent planting seasons beyond the planting season in which the applicable unit(s) of seed product(s) was acquired. In addition, research and breeding with the products and its progeny is strictly prohibited.

Growers must sign a GDM™ SEEDS USE AGREEMENT for the purchase of any DONMARIO soybean product not covered by a third party trait provider's use agreement. Even if some products do not contain biotech traits, the GDM™ SEEDS USE AGREEMENT protects the intellectual property associated with non-biotech products such as germplasm and other intellectual know-how. Remember that the agreements you need to sign are dependent on what seed you purchased. For more information, visit www.AgCelerate.com or contact your Burrus Seed Representative.

Performance may vary from location to location and from year to year, as local growing, soil and weather conditions may vary. These are general recommendations based on data taken from company trials and field observations and do not constitute a warranty of fitness or guarantee of performance for a particular use. Growers should evaluate data from multiple locations and years whenever possible.

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