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TRUST your LEGACY to BURRUS.

PROFIT from ALL ACRES.

Think BURRUS®

2016 HARVEST REPORT

WITH CONSTANT CONSOLIDATION IN THE SEED INDUSTRY, SOME INDEPENDENTS STILL THRIVE. PLANT BURRUS, PLANT YOUR LEGACY.

DEAR GROWER,

At Burrus, we strive to meet the needs of our growers, being farmers ourselves, we are able to understand those needs better than most. As a multi-generational, independently owned business in an industry of multi-national giants, we are in business for the sole purpose of helping growers be more profitable. We take it as a personal thrill to get a call from a grower combining corn reporting, "This is the best corn I have ever raised."

We don't just sell sacks of seed, we sell success. Our multi-brand strategy puts us a step ahead of the game. Providing growers with choice is a big deal. With Burrus, this means you can rotate corn rootworm traits from field to field supporting the long-term durability of CRW Bt. Our single bag refuge products ensure compliance in one step — fill the planter and go!

In soybeans, our strategy provides the option of rotating herbicide trait systems from glyphosate tolerant to LibertyLink® and Roundup Ready 2 Xtend™ technologies, reducing the chance of weed resistance while getting the same high quality products and service you expect from Burrus. In the near future, we will be offering additional stacked trait beans with two or more modes of action for greater durability, too. Use of these options can mitigate future weed resistance by limiting repetition of the same modes of action on any farm. As an independent, we can offer more choice; use it to your advantage.

Bigger isn't always better, especially when it comes to seed production! After four decades of interplant seed corn production, we are now developing an even more advanced method using a unique 2 and 1 wide row system. It allows more sunlight for the highly productive but weak pollinators to produce adequate pollen for maximizing seed yields. We are old fashioned in that we own much of the land where we produce our seed. This gives us the freedom to implement a more effective seed corn production system. Higher seed yields and better quality equals more bushels in your bin. This is why Burrus is winning more acres every year.

Our seed gets the best treatment to protect each kernel from disease, insects and nematodes. Our biologicals stimulate root growth and fast grow-off, even in cold, wet conditions. For 2017, we have added another component to our seed corn treatment package that protects the plant from some resistant strains of Pythium that have caused damping off as the plant transitions to its permanent root system.

The extra attention Burrus spends on many small details means extra profitability for you. Things like hooded spraying to improve purity, four-color color sorting, double gravitying, and pre-harvest methods to control seed size and improve cold germination are just a few on the list. We have furnished 100% free replant for 82 years because we are just as invested in you getting a stand as you are.

Our ancestors taught us traditional values that we still live by today. These core values have been critical in our success year after year. In this Harvest Report, you can easily see real-time yields from across our footprint, as well as updates on cutting-edge technologies and information to protect your farm from insect, weed, and disease resistance. Information that is vitally important to those of us working to leave the farm to the next generation in better condition than when we acquired it.

To our loyal growers who have established a legacy with our company, we thank you for entrusting your livelihood with our family business. If you haven't tried Burrus, we urge you to take advantage of our Test Drive offer. Plant any of our corn hybrids head-to-head with a competitor's hybrid of comparable maturity, and trait. See how we establish stand and rapidly grow off, then see who wins the yield race at harvest. It it's not us, you get $1,000. Join the growing number of growers who better understand our value.

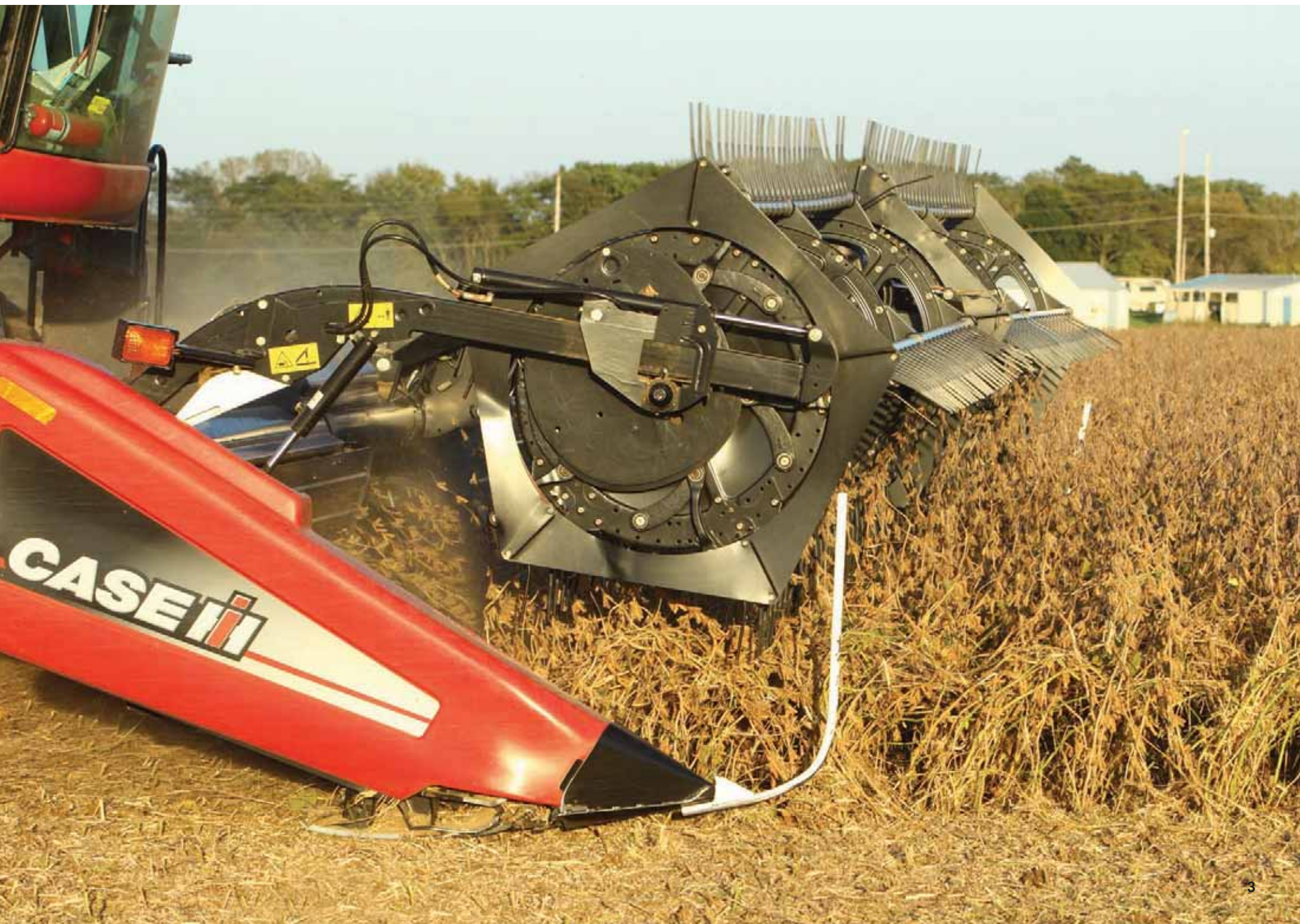
Yes, we are confident that Burrus is the best choice. We have corn in our blood and serving you is a privilege, not a job. While the seed industry is in consolidation mode, we are holding to the same company values we have had since 1935. Rest assured we will be here to do business with for decades ahead.

SUCCESSFULLY,

Tom Burrus Dave Hyde

Tom and Dave

Cover Image: Tony Bangert and his grandson Ben Bangert, Scott Co., IL



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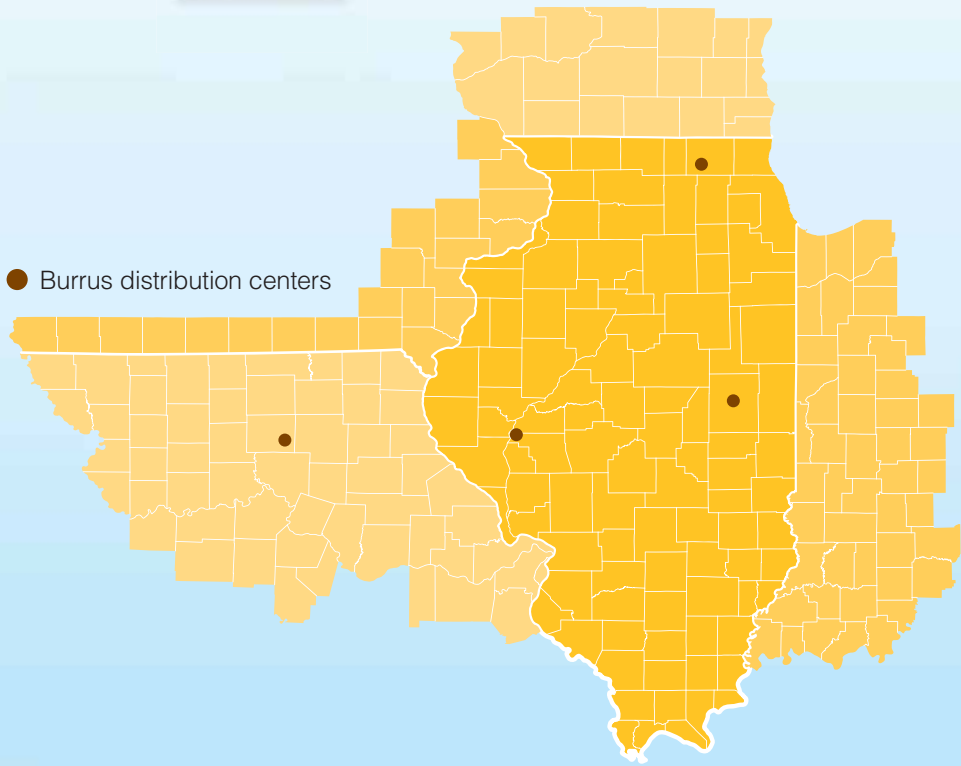
WE GO WHERE YOU GROW.

Our specialty is high-yielding corn and soybeans on your soil types. Burrus Account Managers help growers select the right products for maximum profit across all acres.

Our newly redesigned and device-responsive website utilizes geolocation to provide customized information to each user. Your local weather radar, commodity markets and Account Manager's contact information are available as soon as you open the page.

FIND YOUR ACCOUNT MANAGER AT
BURRUSSEED.COM



Guests were divided into groups of 25 to see the many demonstrations. Dow's Andy Asbury showed droplet size and drift with nozzle demonstrations. Sydonia Bogner directed guests to their choice of tour. Wally Thingelstad of Dow and Donny Marnin compare notes. Ted Ballard shared the advantages of PowerShield® SDS with ILeVO®. Ross Brockhouse demonstrated how far pollen travels using purple pollen on yellow corn. Clayton Cook covered the soon to be released Agrisure Duracade™. Matt Montgomery helped growers get the right Nitrogen rate. Bayer's Jeff Perry introduced Balance™ GT soybeans.

ALWAYS GREAT CHEMISTRY WITH GROWERS.

On August 17, Burrus Seed welcomed growers from across our selling footprint to our production facilities in Arenzville to attend New Technology Day. A new spin on the traditional field day, guests traveled in air-conditioned motor coaches to the farm, field, or facility tour of their choice. Granted unparalleled access to our company's products, practices, and people, growers were able to get a firsthand look at how we continue to grow and thrive as a family owned, independent seed company.

Knowledgeable presenters from our suppliers and staff demonstrated cutting edge technologies and addressed both current and future challenges of the industry. Burrus family members shared the history of the company and offered insight on where the company is headed in the future.

Blessed with beautiful weather and great company, we had over 500 people join us for a day of information, conversation, and education. We even cleared out and air conditioned our warehouse to host lunch, complete with our famous Coon's Choice sweet corn!

For over 81 years, Burrus Seed has taken pride in providing the highest quality products, services, and agronomic knowledge to the independent Midwest grower. New Technology Day was the perfect platform to introduce and demonstrate the latest products, technologies, and innovations in the seed business.

TOPICS COVERED AT NEW TECHNOLOGY DAY:

- Balance™ GT soybeans
- Enlist™ E3 soybeans
- LibertyLink® soybeans
- Enlist Duo® herbicide spray table
- Agrisure Duracade™ corn rootworm control
- PowerShield® SDS seed treatment with ILeVO®
- PowerShield® seed treatment value
- MyFarms℠ Burrus COP
- Optimum® AQUAmax® drought tolerant hybrids
- Agrisure Artesian® corn hybrids
- Sulfur and nitrogen application
- Growing non-GMO seed corn for a grain premium
- Weed resistance
- Rootworm resistance
- Qrome™ technology
- SuperFLOW℠ planter lubricant
- Soybean cyst nematodes

Think BURRUS®

Local research where YOU grow with Burrus!

To maximize profit and efficiency of scale, national companies must select products that perform across a wide geography rather than those more regional specific. We strive to bring whole farm performance to our growers by maximizing the yield on every acre you farm.

Burrus has an extensive testing program designed to identify the best products for our footprint. While many competitors focus testing on black soils, we test on the soil types you intend to plant. We have areas with high organic soils, stress prone soils, and everything in between in our test locations. Testing on all types of soil enables us to understand what products will work best on each farm.

Predicting the future. We have sophisticated computer software that runs regression curves to predict future performance in many environments. We routinely utilize the best techniques to analyze data and are expanding our plant density studies to fine tune our Crop Optimization Planner.

Sometimes you will hear the national companies say, "independents get our seconds." In actuality, it is whole farm yield that makes the difference in your profitability. Not only are the Burrus testing methods better, our attention to detail during production creates a performance edge also.

We don't cut corners. You'll find, too, that Burrus production techniques are more meticulous than those of the competitors. In fact, performance studies show up to 18 bu/a greater performance with the highest quality seed compared to poor quality seed. Whether it is spraying Liberty® or Roundup® with our hooded sprayer to remove any plants not carrying the desired trait, or double gravity and color sorting every unit, we cut no corners. Focusing on hybrids that provide superior performance in our footprint enables Burrus to provide exceptional products in areas where national companies can only offer limited choices.

ADAMS

Power Plus® 6P75AMX™* brand above 230 bu/a

Kent Shriver
Quincy, IL

Planted: April 13 in 30" rows. **Planting Population:** 34,000. **Harvested:** September 21. **Previous Crop:** Soybeans. **Fertilizer:** N: 180, P: 60 , K: 90. **Herbicide:** Degree Extra. **Insecticide:** Tombstone. **Corn Borer Rating:** Light. **Soil Type:** Loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6P75AMX™*	**231.0**	**21.5**	**100**	**60.9**	**29**
BURRUS 6T54 3000GT	**228.7**	**20.2**	**100**	**59.0**	**29**
POWER PLUS 7H23 S™*	**228.5**	**20.9**	**100**	**60.2**	**29**
POWER PLUS 6N83AM™*	**226.2**	**21.1**	**100**	**58.3**	**31**
POWER PLUS 6C41 S™*	**225.9**	**20.9**	**100**	**60.2**	**30**
POWER PLUS 6P73AM™*	**224.7**	**21.0**	**100**	**57.3**	**31**
POWER PLUS 6F74AMX™*	**222.4**	**20.0**	**100**	**63.0**	**30**
POWER PLUS 4J90™*	**219.4**	**20.6**	**100**	**61.2**	**29**
POWER PLUS 6L45AMT™*	**217.7**	**22.0**	**99**	**59.5**	**31**
BURRUS 6Q60	**213.8**	**20.3**	**100**	**59.0**	**31**
POWER PLUS 5C17AMXT™*	**213.8**	**19.0**	**100**	**57.7**	**32**
POWER PLUS 4J93AM™*	**212.6**	**18.8**	**100**	**58.2**	**29**
POWER PLUS 6C40™*	**211.2**	**24.6**	**100**	**60.2**	**30**
POWER PLUS 5K33AM™*	**211.1**	**20.0**	**98**	**59.0**	**30**
POWER PLUS 5K35AMX™*	**208.6**	**20.3**	**99**	**58.0**	**30**
POWER PLUS 7H20™*	**200.3**	**23.8**	**100**	**60.9**	**29**
Average	218.5	20.9	100	59.5	30

BOONE

Jim Marrs
Garden Prairie, IL

Planted: May 14 in 30" rows. **Planting Population:** 33,500. **Harvested:** October 18. **Previous Crop:** Soybeans. **Herbicide:** Corvis. **Corn Borer Rating:** Moderate. **Soil Type:** Medium loam. **✓Check Hybrid:** DeKalb DKC58-06RIB

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.
✓CHECK	260.6		20.0	58.0
Stone 4938	227.7	24	17.9	59.5
Stone 5118	248.3	14	17.7	59.4
Great Lakes 5283	244.6	19	18.9	57.7
Stone 5218	247.5	15	18.9	58.7
POWER PLUS 1G48AMXT™*	**233.2**	**23**	**19.2**	**59.7**
✓CHECK	266.1		20.4	58.0
Dekalb 5356	232.4	22	19.1	58.7
POWER PLUS 2F91AMXT™*	**240.3**	**21**	**19.2**	**59.7**
Dekalb 5438	241.4	20	18.9	58.7
Stone 5428	243.5	18	19.5	59.9
Stone 5438	244.5	16	18.8	58.7
✓CHECK	256.4		20.9	59.2
POWER PLUS 2B77AMXT™*	**247.2**	**8**	**20.1**	**59.0**
Stone 5518	237.6	13	19.0	59.7
Pioneer P0636	246.1	9	19.7	58.9
Beck 5665	233.9	17	19.9	58.9
Stone 5628	243.0	10	18.8	58.2
✓CHECK	246.9		20.2	59.0
POWER PLUS 3H85AMX™*	**252.8**	**3**	**20.3**	**58.0**
Great Lakes 5824	236.7	12	20.7	59.2
Stone 5828	251.0	5	19.9	57.9
Stone 5828	248.9	7	19.5	58.4
Great Lakes 5918	256.3	1	21.0	58.3
✓CHECK	253.6		20.1	58.0
Dekalb 5806 No Insecticide	255.4	2	20.2	**58.0**
Dekalb 5806 with Insecticide	253.5	4	20.2	58.0
POWER PLUS 4J95AMX™*	**250.7**	**6**	**21.1**	**56.3**
Stone 6068	239.3	11	20.8	58.2
✓CHECK	249.7		19.5	58.4
Average	246.3		19.7	58.6
Check Average	255.6		20.2	58.4

CASS

Power Plus® 6L45AMT™* brand & Power Plus® 6P75AMX™* brand win plot

Ron Kuhlmann
Beardstown, IL

Planted: April 15 in 30" rows. **Planting Population:** 36,000. **Harvested:** September 19. **Previous Crop:** Soybeans. **Corn Borer Rating:** Heavy. **Soil Type:** Loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **Remarks:** Corn Borer rating only on Power Plus 4J99 R™*, Fungicide was applied to plot.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6L45AMT™*	**247.9**	**18.3**	**58.0**	**33**
POWER PLUS 6P75AMX™*	**244.9**	**18.4**	**58.0**	**33**
POWER PLUS 7H23 S™*	**240.6**	**17.4**	**59.3**	**33**
POWER PLUS 5C17AMXT™*	**239.3**	**18.5**	**61.1**	**33**
CATALYST 7577 3010	**237.5**	**18.4**	**59.5**	**33**
POWER PLUS 5K35AMX™*	**232.9**	**16.5**	**59.2**	**33**
POWER PLUS 6N83AM™*	**226.1**	**18.0**	**57.5**	**33**
POWER PLUS 6F74AMX™*	**225.3**	**17.8**	**62.0**	**33**
CATALYST 6216 3111A	**218.2**	**16.9**	**56.2**	**33**
POWER PLUS 4J95AMX™*	**217.1**	**16.3**	**59.5**	**33**
POWER PLUS 4J99 R™*	**216.9**	**16.9**	**58.7**	**33**
BURRUS 6T54 3000GT	**213.8**	**19.6**	**57.4**	**33**
Average	230.0	17.8	58.9	33

Power Plus® 4J99 R™* brand, Power Plus® 4J95AMX™* brand & new Catalyst 7577 3010 are tops

Brian Burrus
Arenzville, IL

Planted: April 13 in 30" rows. **Planting Population:** 35,500. **Harvested:** September 14. **Previous Crop:** Soybeans. **Corn Borer Rating:** Heavy. **Soil Type:** Loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **Remarks:** Corn Borer rating only on Power Plus 4J99 R™*.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 4J99 R™*	**224.8**	**20.0**	**58.5**	**34**
POWER PLUS 4J95AMX™*	**217.6**	**18.4**	**58.0**	**34**
CATALYST 7577 3010	**217.3**	**22.1**	**56.0**	**34**
BURRUS 6T54 3000GT	**213.0**	**22.2**	**55.5**	**34**
POWER PLUS 6N83AM™*	**208.5**	**21.1**	**56.3**	**33**
POWER PLUS 6L45AMT™*	**208.2**	**21.9**	**56.4**	**34**
POWER PLUS 5K35AMX™*	**206.6**	**20.0**	**59.0**	**34**
POWER PLUS 7H23 S™*	**201.6**	**20.7**	**58.7**	**34**
CATALYST 6216 3111A	**200.4**	**21.3**	**54.3**	**33**
POWER PLUS 6F74AMX™*	**199.1**	**19.2**	**60.2**	**35**
POWER PLUS 6P75AMX™*	**188.2**	**22.8**	**57.6**	**35**
POWER PLUS 5C17AMXT™*	**185.9**	**19.8**	**59.9**	**35**
Average	205.9	20.8	57.5	34

Ron Brockhouse
Virginia, IL

Planted: April 15 in 30" rows. **Planting Population:** 36,000. **Harvested:** September 19. **Previous Crop:** Soybeans. **Corn Borer Rating:** Heavy. **Soil Type:** Loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **Remarks:** Corn Borer rating only on Power Plus 4J99 R™*, Fungicide was applied to plot.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6P75AMX™*	**242.3**	**20.1**	**58.5**	**34**
BURRUS 6T54 3000GT	**240.4**	**20.7**	**58.2**	**34**
POWER PLUS 5K35AMX™*	**238.8**	**18.8**	**58.7**	**35**
POWER PLUS 6N83AM™*	**238.6**	**19.7**	**58.9**	**35**
POWER PLUS 6L45AMT™*	**238.5**	**20.3**	**59.5**	**34**
POWER PLUS 5C17AMXT™*	**236.9**	**19.1**	**61.2**	**34**
CATALYST 7577 3010	**236.2**	**20.5**	**57.2**	**34**
POWER PLUS 7H23 S™*	**234.6**	**18.7**	**60.6**	**34**
POWER PLUS 4J95AMX™*	**232.7**	**18.4**	**59.5**	**35**
POWER PLUS 4J99 R™*	**226.1**	**18.5**	**59.6**	**35**
CATALYST 6216 3111A	**223.8**	**20.8**	**54.2**	**35**
POWER PLUS 6F74AMX™*	**223.5**	**19.5**	**61.4**	**35**
Average	234.4	19.6	59.0	34

CHAMPAIGN

Gifford State Bank
Gifford, IL

Planted: April 25 in 30" rows. **Planting Population:** 35,700. **Harvested:** October 7. **Previous Crop:** Soybeans. **✓Check Hybrid:** Agrigold A6499STX **Remarks:** Heckerson corn plot.

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK	213.8		15.9
Pioneer 1751AMT	242.6	1	18.7
Pioneer 1197AMXT	214.4	13	16.8
Dekalb 61-54	215.7	12	15.6
Dekalb 64-87	209.1	16	15.6
Great Lakes 6462STX	212.2	14	15.8
Great Lakes 6399STX	215.8	11	16.3
✓CHECK	217.4		15.9
FS 61SX1	205.2	21	16.0
FS 64SX1	229.9	4	17.6
Stone 6368RIB	226.7	6	17.1
Stone 6448RIB	223.3	8	17.2
AgriGold 6462STXRIB	214.2	17	15.1
AgriGold 6499STX	227.2	5	15.9
✓CHECK	224.6		15.9
Golden Harvest 09E98	206.3	22	16.0
Golden Harvest 12J11	200.1	24	16.2
Becks 6076SX	207.9	20	15.7
Becks 6365AMX	227.1	7	17.4
POWER PLUS 5C17AMXT™*	**214.7**	**18**	**16.5**
POWER PLUS 6P75AMX™*	**217.2**	**15**	**17.4**
✓CHECK	221.5		16.3
Wyffels 7888RIB	221.9	10	16.4
Wyffels 7508RIB	241.6	2	17.1
LG 5618	222.1	9	16.1
LG 5548	211.7	19	15.7
Channel 211-35STXRIB	231.9	3	15.8
Channel 207-27STXRIB	198.2	25	15.2
✓CHECK	221.8		16.5
Pfister 74B1	166.9	26	17.9
Pfister 3366	206.6	23	16.1
✓CHECK	230.9		16.1
Average	216.9		16.4
Check Average	221.7		16.1

CLAY

Power Plus® 6C41 S™* brand rolls out 195 bu/a

Brian & Levi Garrison
Louisville, IL

Planted: May 21 in 30" rows. **Planting Population:** 30,800. **Harvested:** September 28. **Previous Crop:** Soybeans. **Herbicide:** Acuron, Atrazine. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–normal, August–wet. **Remarks:** Hog manure applied to plot field.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6C41 S™*	**195.6**	**19.6**	**100**	**60.9**	**31**
POWER PLUS 4J99 R™*	**189.6**	**18.2**	**100**	**58.5**	**29**
POWER PLUS 6P73AM™*	**189.0**	**19.5**	**90**	**57.9**	**27**
BURRUS 6T54 3000GT	**187.0**	**20.9**	**100**	**57.2**	**32**
POWER PLUS 7H23 S™*	**186.1**	**17.5**	**80**	**59.4**	**27**
POWER PLUS 4J93AM™*	**186.1**	**17.5**	**100**	**59.4**	**28**
POWER PLUS 6F74AMX™*	**184.0**	**17.9**	**100**	**60.5**	**31**
CATALYST 7577 3010	**182.2**	**19.5**	**100**	**57.9**	**31**
POWER PLUS 4J95AMX™*	**182.1**	**17.3**	**100**	**60.3**	**28**
POWER PLUS 5K33AM™*	**180.8**	**17.9**	**100**	**58.5**	**30**
POWER PLUS 6N83AM™*	**175.7**	**18.8**	**100**	**58.7**	**29**
CATALYST 6216 3111A	**173.7**	**18.0**	**100**	**54.5**	**31**
CATALYST 5009 3220	**166.1**	**17.4**	**100**	**59.3**	**31**
Average	182.9	18.5	98	58.7	30

Ideal conditions for diplodia in 2016

by Josh Gunther
Product Lead

A very common concern on growers minds this year as we geared up for harvest was Diplodia ear rot or *Stenocarpella maydis.* Diplodia ear rot is a disease that leaves the ear with a white fungus on the cob and kernels giving it a white mummified look. These mummified ears will sometimes form black spore producing structures on the outside of the husks called pycnidia. This disease can lower yields by decreasing kernel size and test weight, not to mention increasing the possibility of discounts on your grain at the elevator.

This year we weighed the yield loss due to test weight reduction in Diplodia infected ears. We found that infected ears on average weighed 32% less between six different hybrids. Growers across the Midwest noted some high Diplodia ear rot levels. This is due to the weather conditions that we experienced this growing season. The ideal conditions for Diplodia are a dry early season followed by excessive moisture after pollination. Many areas in our footprint experienced these exact conditions. The greatest incidence of Doplodia was found where heavy corn residue was present from past crops. Minimum tillage corn-on-corn was the worst with conventional tillage following soybeans having the least issues. While any hybrid can get Diplodia ear rot some have a tendency to get it worse than others. This is due to two different reasons. The first being genetics. Some genetics are more susceptible to this disease than others. You can find this disease score and others in this Harvest Report on the product cards. The second reason is the plant architecture. You will tend to notice more Diplodia in hybrids that have an upright ear structure. This allows both the inoculant and moisture to enter the ear causing the disease. There is good news and bad news when it comes to treatment for Diplodia. There is no evidence that the application of a fungicide will have any benefit in preventing this ear rot. However, unlike other ear rots, Diplodia does not have any mycotoxins associated with it so it is safe for human and animal consumption.

Another factor that greatly affects the severity of Diplodia ear rot is silking timing. The prime time for infection to occur is when the plant is pushing out its silks. By spreading out the silking window, there is less of a chance that all of your planting dates and hybrids will be affected. This year in Arenzville we noted one hybrid that was planted side-by-side in the same field on five different dates to see the window that Diplodia ear rot could infect the plants.

PLANTING DATE	PERCENT INFECTED
March 18, 2016	46%
April 5, 2016	31%
April 19, 2016	71%
May 7, 2016	0%
May 31, 2016	6%

2016 Burrus Research Study

Here is a list of actions that you can take to lower your chances of Diplodia ear rot in your fields:

- Rotate to soybeans next year on the most severely infected fields
- Choose hybrids that have a higher tolerance to Diplodia ear rot for corn-on-corn ground
- Use tillage where applicable
- Reduce stress in your plants with adequate fertilizers and population
- Most importantly, spread your risk by using different planting dates and maturities to spread silking into different environmental conditions

If you have experienced Diplodia ear rot this year there are a few steps you can take at harvest time to reduce the amount of discounts at the elevator:

- Adjust combine settings to reduce the number of fines and other debris that will make its way to the grain tank
- If you will be storing infected corn for short term storage it is recommended to dry to at least 15% moisture to reduce the spread of the disease in the bin
- If you will be storing for long term, it is recommended to dry down to at least 13%.
- For more information on Diplodia ear rot please use this link http://burrusseed.com/docs/bb/Burrus_Buzz_083016.pdf to read more from the Burrus Buzz on this topic.

The top row of ears were infected with Diplodia ear rot, the bottom row was not. On average the ear rot reduced the test weight by over 25%.

Get your photo published and $50 can be yours

Would you like an extra $50? B. Leonard wore his Burrus cap with pride when he was featured in *Missouri Farmer Today*. As a result, he got a check for $50. It's that simple.

If a photo of you wearing the Burrus, Hoblit, Hughes, or Power Plus® logo on a cap, jacket, or shirt is published in a magazine, newspaper or appears on television, Burrus will send you a check. All you have to do is wear your favorite seed supplier's name proudly! Send us the clipping explaining when and where it was published and we will issue you a check for $50 as our way of saying "thank you." Sorry, if your photo appears in a Burrus or Hughes publication it does not qualify for the reward.

To make sure you never miss an opportunity, wear your favorite Burrus, Hoblit, Hughes, or Power Plus® logo every day. Remember, you can get a reward, too.

B. Leonard of Cooper Co., MO enjoyed harvest above average crops this season. Photo courtesy of *Missouri Farmer Today* by Benjamin Herrold.

Power Plus® 6P75AMX™* was above 240 bu/a in Cass Co. for Ron Brockhouse and his grandson, Jack.

Brian Garrison saw Power Plus® 6C41 S™* win at 195 bu/a in Clay Co.

Todd Burrus enjoys being Pa to his grandsons Mason & Adam Krohe. The trio task together most Saturday mornings and call themselves the "Get 'er Done gang."

Jenni & Ron Kuhlmann saw Power Plus® take the top four places in Cass Co.

Blake Grice & Kent Shriver saw his Adams Co. plot average 218 bu/a.

2016 Summer interns – front row: Brent Frump, Maggie Prather, Morgan McCormick, Nat Harder, Hayden Swanson and Burrus AM Quinn Moller; back row: Connor Klingele, Brody Carls & Kevin Freel.

NUMBERING SYSTEM FOR 2017

The Burrus numbering system indicates the maturity with the first digit. Multiply the first digit by two then add 100 for the maturity day rating. The example Power Plus® 4J95 AMX™* brand, multiply the first digit by 2 = 8 then add 100. This depicts the maturity range as 108-109 days. The second letter and last two digits are at random except for the Optimum® AcreMax® products. When the letter is the same and the digits are consecutive, it indicates a similar family e.g. Power Plus® 7H20™* and Power Plus® 7H23S™*. The last letter(s) is silent. That was added to the product number for the purpose of reminding growers of the technology included in that product. The chart below explains what each means.

Brands	Maturity	Group	Technology	Designation	RR	LL	Resistance or Control
Power Plus® 5C17AMXT™*	110	Above/Below-Ground Insect Control	Optimum® AcreMax® XTreme	AMXT	x	x	Herculex® XTRA, Agrisure® RW, YieldGard® Corn Borer
Power Plus® 6F74AMX™*	113		Optimum® AcreMax® Xtra	AMX	x	x	Herculex® XTRA, YieldGard® Corn Borer
Power Plus® 6L45AMT™*	112		Optimum® AcreMax® TRIsect	AMT	x	x	Agrisure® RW, YieldGard® Corn Borer, Herculex® I Corn Borer
Power Plus® 7A18 Q™*	114		Herculex® XTRA	Q	x	x	Herculex® XTRA, Herculex® I Corn Borer
Catalyst® 6216 3111A	111		Agrisure Viptera® 3111A	3111A	x	x	Agrisure Viptera®, Agrisure® RW, Agrisure® CB, Agrisure Artesian®
Burrus 6T54 3000GT	113		Agrisure® 3000GT	3000GT	x	x	Agrisure® RW, Agrisure® CB
Power Plus® 4J93AM™*	109	Above-Ground Insect Control	Optimum® AcreMax®	AM	x	x	Herculex® I Corn Borer, YieldGard® Corn Borer
Catalyst® 7577 3010	114		Agrisure® 3010	3010	x	x	Agrisure® CB
Power Plus® 7H23 S™*	114		Stacked, Herculex® I	S	x	x	Herculex® I Corn Borer
Power Plus® 6F71 R™*	113	Glyphosate-Resistant	Roundup Ready®	R	x		Glyphosate tolerant
Burrus 6T51 GT	113		Agrisure® GT	GT	x		Glyphosate tolerant
Hughes 2428 GTA	100		Agrisure Artesian® GTA	GTA	x		Agrisure Artesian®, Glyphosate tolerant
Burrus 6Q60	112	CONV.	Conventional	No letters			No traits

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 2016 harvest and were the latest available at time of printing. Some scores may change after 2017 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 as only one component of your product positioning decision.

CLAY

Yield increase and % erect decrease with more population

Brian & Levi Garrison
Louisville, IL

Planted: May 21 in 30" rows. **Harvested:** September 28. **Previous Crop:** Soybeans. **Herbicide:** Acuron, Atrazine. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–normal, August–wet. **Remarks:** Population study. Hog manure applied to plot field.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 5K33AM™*	**187.8**	**17.9**	**60**	**57.5**	**43**
POWER PLUS 5K33AM™*	**181.9**	**18.0**	**90**	**58.5**	**31**
POWER PLUS 5K33AM™*	**181.7**	**17.8**	**70**	**57.5**	**37**
POWER PLUS 5K33AM™*	**168.0**	**17.7**	**90**	**57.4**	**26**
CATALYST 5009 3220	**166.8**	**16.7**	**80**	**58.2**	**42**
CATALYST 5009 3220	**165.8**	**17.2**	**90**	**58.3**	**34**
CATALYST 5009 3220	**161.5**	**16.8**	**100**	**57.2**	**31**
POWER PLUS 5K33AM™*	**160.2**	**17.8**	**78**	**57.5**	**22**
CATALYST 5009 3220	**157.1**	**16.8**	**100**	**57.2**	**27**
CATALYST 5009 3220	**137.5**	**16.3**	**100**	**57.0**	**21**
Average	166.8	17.3	86	57.6	31

CLINTON

David Gerdes
Bartelso, IL

Planted: May 9 in 30" rows. **Planting Population:** 30,000. **Harvested:** September 29. **Previous Crop:** Soybeans. **Fertilizer:** N: 102, P: 115 , K: 105. **Herbicide:** Lexar. **Corn Borer Rating:** Light. **Weather:** May–wet, June–dry, July–wet, August–normal.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	1000 Plants /Acre
POWER PLUS 6C41 S™*	**205.0**	**16.4**	**96**	**22**
CATALYST 6216 3111A	**182.0**	**17.4**	**100**	**23**
BURRUS 878207	**159.6**	**16.6**	**100**	**24**
POWER PLUS 6P73AM™*	**157.1**	**17.3**	**96**	**25**
BURRUS 3802364	**155.4**	**17.6**	**100**	**26**
POWER PLUS 5K33AM™*	**150.8**	**16.3**	**97**	**25**
CATALYST 7893 3111	**150.1**	**12.1**	**100**	**29**
POWER PLUS 6L45AMT™*	**149.7**	**16.9**	**100**	**24**
BURRUS 662236	**148.6**	**17.8**	**100**	**25**
CATALYST 5009 3220	**147.5**	**17.1**	**100**	**25**
POWER PLUS 5K35AMX™*	**145.8**	**16.0**	**96**	**24**
POWER PLUS 4J99R™*	**143.8**	**12.4**	**100**	**25**
POWER PLUS 4J93AM™*	**142.4**	**17.1**	**98**	**22**
BURRUS 130796	**138.6**	**17.3**	**90**	**21**
POWER PLUS 7U15AM™*	**137.7**	**17.3**	**98**	**24**
POWER PLUS 6N83AM™*	**136.4**	**11.0**	**100**	**24**
BURRUS 6T54 3000GT	**136.3**	**14.0**	**100**	**22**
BURRUS 460220	**133.6**	**17.4**	**100**	**18**
POWER PLUS 6F74AMX™*	**130.4**	**14.7**	**94**	**23**
BURRUS 995336	**130.1**	**14.2**	**100**	**25**
CATALYST 7577 3010	**128.5**	**15.8**	**100**	**18**
BURRUS 791838	**124.4**	**13.7**	**100**	**17**
BURRUS 365207	**124.3**	**16.2**	**100**	**25**
POWER PLUS 7H23 S™*	**123.6**	**15.3**	**100**	**22**
POWER PLUS 2N82AM™*	**118.4**	**16.5**	**96**	**20**
BURRUS 644188	**117.0**	**17.2**	**96**	**18**
Average	143.0	15.8	98	23

DEKALB

Power Plus® 3H85AMX™* brand is first at 319 bu/a!

COMPARE

DeKalb Co. Corn Growers
DeKalb, IL

CORN ON CORN

Planted: April 16 in 30" rows. **Planting Population:** 35,000. **Harvested:** October 8. **Previous Crop:** Corn. **Remarks:** * Fungicide applied.

Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 3H85AMX *™*	**319.7**	**21.5**
DuPont Pioneer P1197 AMXT *	309.4	23.9
DuPont Pioneer P1311 AMXT	308.0	23.2
DuPont Pioneer P1311 AMXT *	307.2	23.8
Golden Harvest G12W66	304.0	22.7
DuPont Pioneer P1197 AMXT	303.4	22.7
Golden Harvest G10T63	302.8	23.1
DuPont Pioneer P0825 AMXT *	300.0	21.9
Becks 6418 SX *	299.8	24.3
Mycogen Seeds 2C799 *	299.4	23.4
Becks 5665 AMX *	299.4	21.4
Wyffels Hybrids W 7888 *	299.1	22.9
Axis Seeds 54A50 *	298.7	20.7
DuPont Pioneer P0825 AMXT	298.5	21.8
Great Lakes Hybrids 5944 VT2 *	298.5	23.4
InVision FS 63ZX1 *	297.9	23.6
Channel 214-45 *	294.5	23.5
Hughes Hybrids 5C17 *	293.9	22.2
POWER PLUS 3H85AMX™*	**293.8**	**22.1**
Pfister Seeds 3366 RASS *	293.8	24.0
Mycogen Seeds MY10Z28 *	293.6	22.5
Great Lakes Hybrids 6462 SS	292.4	23.4
LG 5618	292.4	23.0
Golden Harvest G10T63 *	292.0	23.5
Pfister Seeds 71C1 SSR *	291.9	24.6
Mycogen Seeds MY10Z28	291.7	22.7
Golden Harvest G12W66 *	291.4	22.9
Channel 211-53 *	291.4	23.7
DeKalb DKC 61-54	291.1	21.7
AgriGold Hybrids A 6462 *	290.5	21.6
Mycogen Seeds 2C799	289.9	23.4
Axis Seeds 60R50 RIB *	289.7	21.7
DuPont Pioneer P0589 AMXT *	289.7	20.5
DeKalb DKC 64-87	289.3	23.3
LG 5618 *	288.9	23.3
DeKalb DKC 63-60 *	288.1	23.9
Channel 209-53 *	287.5	23.7
AgriGold Hybrids A 6499	287.0	23.3
Becks 6365 AMX	286.4	24.3
Becks 5665 AMX	286.2	21.9
Axis Seeds 54A50	286.1	20.7
Becks 6365 AMX *	286.1	24.1
DeKalb DKC 63-60	285.7	23.0
Pfister Seeds 2545 RASS *	285.5	22.9
AgriGold Hybrids A 6499 *	284.2	24.0
Great Lakes Hybrids 6185 SS *	283.8	22.5
LG 5548 *	283.6	22.2
InVision FS 61SX1 *	283.5	22.0
DeKalb DKC 64-87 *	283.3	23.9
Pfister Seeds 3366 RASS	283.0	23.4
Channel 211-53	282.7	23.0
Pfister Seeds 71C1 SSR	282.5	22.4
AgriGold Hybrids A 6424 *	282.4	21.1
AgriGold Hybrids A 6424	282.1	20.8
DuPont Pioneer P0157 AMX *	281.6	19.4
AgriGold Hybrids A 6441 *	281.1	23.2
Wyffels Hybrids W 7888	281.0	22.9
Great Lakes Hybrids 6462 SS *	280.9	23.4
Pfister Seeds 68A1	280.7	22.4
DeKalb DKC 61-54 *	280.6	22.7
InVision FS 61SX1	280.5	22.3
Great Lakes Hybrids 5944 VT2	280.4	23.2
Golden Harvest G14R38 *	278.8	24.7
Channel 207-27	278.4	20.9
DeKalb DKC 58-06	278.1	21.0
DeKalb DKC 58-06 *	277.8	21.9
ProHarvest 8244 *	277.2	24.3
InVision FS 58QX1	277.1	21.0
Becks 5828 AMX	276.9	21.4
Pfister Seeds 70A1 SSR	276.9	23.5
Channel 214-45	276.7	24.4
Axis Seeds 60N56 RIB	275.2	21.5
Mycogen Seeds 2T619 *	274.3	22.5
ProHarvest 8244	274.1	23.7
Great Lakes Hybrids 6185 SS	273.5	20.8
ProHarvest 6705 *	273.3	21.1
Golden Harvest G14R38	272.6	23.5
Channel 205-19 *	272.0	21.1
Pfister Seeds 70A1 SSR *	272.0	23.5
Great Lakes Hybrids 5688 SS	271.2	22.6
Stine 9635 SS *	270.8	22.6
Axis Seeds 56Z50 RIB *	270.8	21.0
Channel 207-27 *	270.6	22.1
ProHarvest 6705	270.6	21.6
Great Lakes Hybrids 5688 SS *	270.4	21.8
Axis Seeds 60R50 RIB	270.0	21.5
Titan Pro 58-10SS *	269.7	22.8
Hughes Hybrids 5C17	269.0	21.4
Becks 5828 AMX *	268.2	22.1
Pfister Seeds 68A1 *	267.7	22.6
Becks 5939 AMXT *	267.6	22.0
Golden Harvest G11F16 *	267.3	22.8
Axis Seeds 60N56 RIB *	267.2	21.9
Mycogen Seeds MY 13M87	267.0	23.4
Axis Seeds 56Z50 RIB	266.9	21.3
InVision FS 63ZX1	266.5	23.9
DuPont Pioneer P0157 AMX	266.2	19.9
Titan Pro 2M07SS	265.7	21.1
Axis Seeds 54T54 RIB *	265.6	19.8
AgriGold Hybrids A 6462	265.6	22.4
AgriGold Hybrids A 6413	265.0	20.2
Golden Harvest G07F23 *	264.6	21.7
Hughes Hybrids 4J95 *	264.3	22.7
Wyffels Hybrids W 7108 *	264.2	22.2
Channel 209-53	264.1	25.1
Great Lakes Hybrids 5824 SS *	263.9	21.1
InVision FS 58QX1 *	263.7	22.6
LG 5548	263.0	23.5
LG 5622	262.9	22.8
Mycogen Seeds 2A627 *	262.8	22.9
Becks 6418 SX	262.6	24.6
Mycogen Seeds MY 13M87 *	262.5	25.1
LG 5622 *	262.4	24.0
Golden Harvest G07F23	262.2	20.9
DuPont Pioneer P0589 AMXT	262.1	20.3
Stine 9635 SS	261.7	21.2
AgriGold Hybrids A 6441	261.6	23.4
AgriGold Hybrids A 6413 *	260.7	20.8
Wyffels Hybrids W 7108	258.7	22.2
Stine 9425 SS *	255.6	20.5
Golden Harvest G11F16	255.2	22.4
Great Lakes Hybrids 5824 SS	255.1	20.5
Titan Pro 2M07SS *	254.7	20.9
Becks 5939 AMXT	254.5	21.2
Hughes Hybrids 4J95	254.3	21.8
Titan Pro 59-08SS	254.1	21.0
Channel 205-19	253.9	20.6
Pfister Seeds 2545 RASS	252.2	22.1
ProHarvest 8074 *	248.2	23.7
DeKalb DKC 54-38	248.0	20.1
Titan Pro 58-10SS	246.2	22.5
DeKalb DKC 54-38 *	245.8	20.9
Mycogen Seeds 2T619	244.5	21.0
Titan Pro 59-08SS *	244.2	21.4
Axis Seeds 54T54 RIB	244.0	20.4
Mycogen Seeds 2A627	242.8	22.6
ProHarvest 8074	242.0	23.7
Stine 9425 SS	235.5	20.5
Average	276.0	22.4

Rick & Tyler Knight saw Power Plus® 6L45AMT™* as the highest commercial product in Edgar Co.

DEWITT

Kevin McMath
Clinton, IL

Planted: April 24 in 30" rows. **Planting Population:** 37,000. **Harvested:** September 22. **Previous Crop:** Soybeans. Fertilizer: N: 200, P: 200 , K: 200. **Herbicide:** Extra, Roundup with Atrazen. **Corn Borer Rating:** Light. **Soil Type:** Heavy loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 5C17AMXT™*	**240.9**	**20.0**	**100**	**62.0**	**37**
ProHarvest 8244	239.4	18.5	100	51.6	37
POWER PLUS 6P75AMX™*	**229.8**	**19.8**	**100**	**57.9**	**37**
Golden Harvest G13U53	222.4	20.0	100	55.0	37
Average	233.1	19.6	100	56.6	37

DOUGLAS

Power Plus® 6I45AMT™* brand is at 253 bu/a

Bill Bozdech
Villa Grove, IL

Planted: April 17 in 30" rows. **Planting Population:** 35,000. **Harvested:** September 29. **Previous Crop:** Soybeans. **Fertilizer:** N: 180, P: 45 , K: 350. **Herbicide:** Roundup, Harness Xtra. **Soil Type:** Medium loam. **Remarks:** Fungicide at tassel - Trifexis.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6L45AMT™*	**253.1**	**17.3**	**61.3**	**35**
POWER PLUS 6P75AMX™*	**237.9**	**16.4**	**59.0**	**34**
POWER PLUS 7A18 Q™*	**236.7**	**16.8**	**61.2**	**33**
BURRUS 874551	**231.3**	**16.3**	**59.0**	**34**
Dekalb DKC64-87RIB	230.2	16.5	61.2	33
POWER PLUS 5K35AMX™*	**230.0**	**14.8**	**57.0**	**34**
POWER PLUS 4J95AMX™*	**221.5**	**15.7**	**57.0**	**34**
POWER PLUS 5C17AMXT™*	**221.4**	**14.9**	**59.0**	**33**
CATALYST 6216 3111A	**220.8**	**15.5**	**54.0**	**33**
POWER PLUS 6F74AMX™*	**216.6**	**15.0**	**63.0**	**34**
Average	230.0	15.9	59.2	34

EDGAR

Rick Knight
Brocton, IL

Planted: April 30 in 30" rows. **Planting Population:** 39,000. **Harvested:** September 25. **Previous Crop:** Soybeans. **Herbicide:** Capture, Roundup. **Insecticide:** None. **Soil Type:** Heavy loam.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.	1000 Plants /Acre
BURRUS 874551	**248.1**	**18.4**	**59.5**	**40**
POWER PLUS 6L45AMT™*	**224.5**	**19.4**	**61.7**	**40**
CATALYST 6216 3111A	**219.8**	**17.4**	**56.3**	**36**
POWER PLUS 7A18 Q™*	**215.1**	**18.5**	**62.6**	**39**
POWER PLUS 4J95AMX™*	**208.8**	**16.1**	**57.0**	**40**
POWER PLUS 6P75AMX™*	**208.3**	**17.1**	**59.3**	**37**
POWER PLUS 5C17AMXT™*	**204.9**	**16.4**	**60.0**	**37**
POWER PLUS 5K35AMX™*	**202.3**	**16.7**	**59.2**	**37**
BURRUS 878207	**193.6**	**18.2**	**59.5**	**36**
POWER PLUS 6F74AMX™*	**188.9**	**17.0**	**63.3**	**36**
Average	211.4	17.5	59.8	38

The Burrus mission is to provide quality seed, consistent performance, and exceptional value ensuring the ongoing success of our customers.

European corn borer – surveying the options

by Matt Montgomery
Sales Agronomist

Corn borer appears to be having another great year with reports of dramatic yield penalties in conventional hybrids versus corn borer traited hybrids. Producers can embrace one of four strategies to manage corn borer.

Planting a hybrid without corn borer traits and walking away (Grade: F).

We give this choice an "F" because it is the worst of all available options. It is not uncommon for yield penalties to hit a few percent when corn borer damages a crop. Add significant stress and we have seen losses of 60 to 70 bushels. To plant and then walk away is a recipe for disaster. In our 2009 Harvest Report, Don Rhoads stressed, "Your neighbor's Bt hybrids will not protect your corn." Seven years later the same holds true.

Planting a product without corn borer traits and scouting to apply rescue treatments (Grade: C).

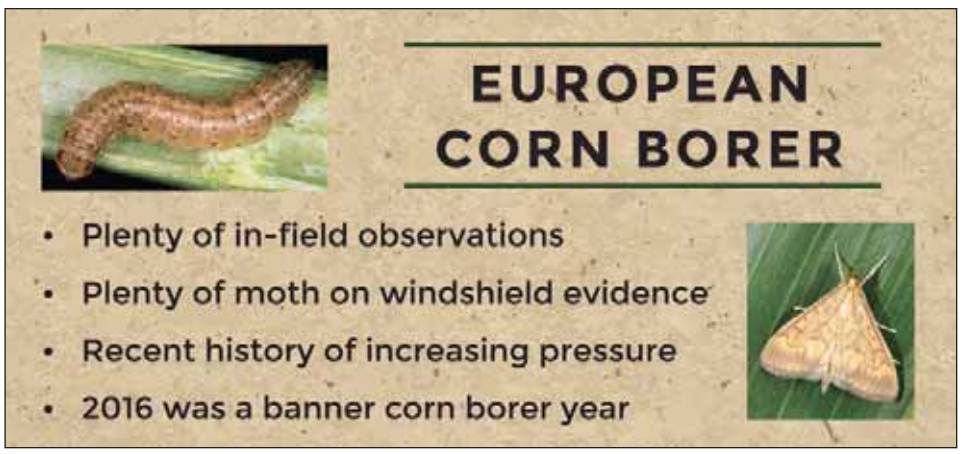
There are two to three generations of corn borer each season. The first is fairly easy to monitor. Subsequent generations are more difficult to detect. They appear in tall corn and require scouting for very small egg masses. If enough eggs masses are detected, a rescue insecticide may be applied, but that must happen before larvae burrow into the protective confines of the stalk. The best crop scouts have a hard time detecting those egg masses which means a problem can be easily missed. Additionally, subsequent generations deposit eggs from July through September which requires vigilance in scouting.

Planting a portion of the crop to traited products (Grade: B-).

Growers can plant only a portion of their crop to traited products. The first generation of corn borer is attracted to early planted corn. Subsequent generations are attracted to late planted corn. Early and late planted corn is therefore most prone to injury. We have sometimes recommended that growers at least plant their earliest and latest fields to a corn borer traited product if they are unwilling to completely invest in traits. However, we must stress that while this strategy somewhat reduces risk, it does not maximize risk reduction. It is not uncommon for growers to use this strategy, still encounter injury, and invest more heavily in traits the next season.

Planting all farms to corn borer traited products (Grade: A).

Growers can plant all their farms to Bt traited hybrids. They can use integrated refuge to do this or they can use structured refuge. Integrated products have the necessary resistance reducing refuge already mixed into the bag. The trait requirements necessary for the EPA to sign off on an integrated refuge product bring an increased price point, but where growers have encountered intense pressure – the investment has been well worth it. The requirements for a structured refuge product allow for a better price point. These products require that a refuge (a non-traited block of corn) be planted. In both cases (integrated and structured), only the refuge is vulnerable to European corn borer. Small corn borer larvae are eliminated by the trait more effectively than they are with insecticide. Traits therefore represent the premium choice when it comes to corn borer management.



Agrisure Viptera® – The solution for ear feeding larvae

by Matt Montgomery
Sales Agronomist

Ear damage caused by ear feeding insect larvae is a significant issue in the Burrus footprint and it is of increasing concern to growers. The western portion of the Burrus footprint and river bottom ground carries the most ear-feeding risk. However, once growers assess their own risk they have an important follow-up question. How do we manage the problem?

In the most extreme cases, the entire upper fifth of an ear can be lost to feeding. Tip kernels that manage to be ignored by hungry larvae are often contaminated with frass, a polite term for insect manure. The result can be broken, mealy kernels and reduced quality. That is the direct impact of feeding injury. However, such feeding also results in indirect injury. Feeding opens a pathway to secondary ear rots which grow on the rich starchy frass. Those ear rots further reduce quality and can cause significant docks at the local elevator. Growers may even encounter shank feeding which predisposes the plant to ear drop.

There are four primary culprits behind most cases of ear feeding: European corn borer, fall armyworm, western bean cutworm, and corn earworm. European corn borer, fall armyworm, and western bean cutworm can possibly be managed via insecticides if applications are made before their larvae move into the ear/plant. Insecticide applications are difficult to time correctly, but they are possible. However, insecticide applications for corn earworm are largely impractical. All four species tend to pester the ear beginning in late June or early July. All but western bean cutworm have multiple generations per season and late planted corn fields are typically most at-risk for ear feeding injury from these pests.

Only one trait is a reliable tool against all four. That trait is Agrisure Viptera®. The protein associated with Viptera damages the gut of Lepidopteran (moth) larvae. Some minor initial feeding may occur, but that feeding allows the protein to enter the insect's gut. The resulting damage starves, dehydrates, and sickens the larva, killing it. While other traits do a magnificent job at controlling some ear feeding insects, only Viptera controls all four. While resistance is always a possibility, Viptera continues to hold its own in the resistance battle. It has become an extremely valuable part of the Burrus pest management toolbox.

Lowering the cost per bushel raised is a path to more profit

With lower commodity prices, the best way to improve your bottom line is to lower the cost per bushel raised. Growers know to stick to the basics in order to increase yield on each acre by selecting the best hybrid or variety, planting at optimum population and avoiding chemicals that tend to damage or stunt.

At Burrus, we offer a host of additional options aimed at increasing profits for our growers. First, consider using structured refuge products. While it does require loading two products in the planter when using a split planter method, you can save up to $8,000 to $10,000 on a 240 unit order. Consider using high rate Poncho® 1250 as a second mode of action against corn rootworm by stacking it on single traited products as this treatment upgrade is only $10 per unit. Under heavy pressure, the control might not be as effective as two stacked traits, but the savings are considerable and CRW pressure is predicted to be lower in 2017.

Another way to save money without sacrificing performance is to capitalize on insecticide rebate opportunities. AMVAC® offers a rebate for several insecticides that can be delivered in a SmartBox® for grower safety. They also offer rebates for growers who want to add an insecticide applicator to their planter, another cost saving measure. Contact your Account Manager for complete details on these offers.

For those on the fringe area of the CRW area where heavy pressure is less likely, consider adding Poncho 1250 to an above ground only product with a structured refuge or single bag refuge. Simply pour and plant and save up to $7,000 to $8,000.

Burrus strives to improve the success and profitability of the Midwest grower. We have several programs and offers designed to achieve this goal. We encourage you to discuss available options with your Account Manager.

- **Choose a larger or smaller seed size** – Burrus offers $10 per unit discount for purchasing BX6 seed size and a $20 per unit discount for BX3 and BX7 seed sizes.
- **Early Pay Savings** – We offer discounts on the 10th of each month. You can borrow from the bank, pay their interest, and still make money with our aggressive rates.
- **Financing options** – In addition to our programs, we can also provide guidance for John Deere Financial or Rabo AgriFinance participants.
- **Growth Advantage program** – Increasing your order or committing to plant 100% Burrus qualifies you for additional saving opportunities.

EARLY PAY SAVINGS	
10.5%	November 10, 2016
10%	December 10, 2016
9%	January 10, 2017
5.5%	February 10, 2017
4%	March 10, 2017
3%	April 10, 2017
DISCOUNT*	POSTMARK DATE

*Discount rate is reduced by 2% when MasterCard or Visa is used.

Power Plus® 6C41 S™* filled to the tip for Emil Lagerhausen of Effingham Co.

FORD

Brandon Roderick
Gibson City, IL

Planted: April 18 in 30" rows. **Planting Population:** 33,500. **Harvested:** September 21. **Previous Crop:** Soybeans. **Fertilizer:** N: 150, P: 175 , K: 175. **Herbicide:** Harness Xtra Down & Roundup. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–normal, June–normal, July–wet, August–wet. **Remarks:** No fungicide applied.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
Pioneer 1417AMX	228.9	24.2	100	58.0	32
Pioneer 1197AMX	215.3	20.6	100	55.2	26
Pioneer 1257AMX	208.7	20.8	100	56.2	29
POWER PLUS 4J99 R™*	**205.6**	**20.0**	**100**	**59.0**	**29**
POWER PLUS 4J95AMX™*	**198.2**	**20.1**	**100**	**58.0**	**29**
POWER PLUS 5K35AMX™*	**195.2**	**20.9**	**100**	**57.2**	**28**
POWER PLUS 6F74AMX™*	**191.9**	**20.6**	**100**	**59.2**	**27**
POWER PLUS 6L45AMT™*	**189.4**	**21.2**	**100**	**55.3**	**32**
POWER PLUS 6P75AMX™*	**188.7**	**22.3**	**100**	**56.5**	**32**
CATALYST 6216 3111A	**188.6**	**19.8**	**100**	**53.9**	**30**
BURRUS 6T54 3000GT	**188.4**	**25.2**	**100**	**56.3**	**32**
POWER PLUS 5C17AMXT™*	**187.1**	**20.0**	**100**	**59.0**	**27**
Average	198.8	21.3	100	57.0	29

GREENE

Doug Thornton
Carrollton, IL

Planted: April 20 in 30" rows. **Planting Population:** 33,000. **Harvested:** September 25. **Previous Crop:** Soybeans. **Fertilizer:** N: 205, P: 115 , K: 150. **Weather:** May–dry, June–dry, July–wet, August–normal. **✓Check Hybrid:** Power Plus 6P75AMX™*

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.
✓CHECK	183.1		15.1	33
POWER PLUS 6P75AMX™*	**195.5**	**9**	**14.9**	**33**
POWER PLUS 6F74AMX™*	**221.5**	**6**	**17.8**	**33**
BURRUS 6T54 3000GT	**225.3**	**5**	**15.9**	**33**
✓CHECK	231.2		17.4	33
POWER PLUS 6L45AMT™*	**207.9**	**7**	**15.3**	**33**
CATALYST 6216 3111A	**227.4**	**2**	**15.1**	**33**
POWER PLUS 5K35AMX™*	**221.3**	**3**	**15.5**	**33**
✓CHECK	166.5		14.9	33
POWER PLUS 5C17AMXT™*	**195.9**	**8**	**14.7**	**33**
POWER PLUS 4J99 R™*	**214.7**	**4**	**16.3**	**33**
POWER PLUS 4J95AMX™*	**229.4**	**1**	**16.3**	**33**
✓CHECK	218.2		15.8	33
Average	210.6		15.8	33
Check Average	199.8		15.8	33

HANCOCK

Power Plus® 4J93AM™ brand* is at 248 bu/a

Tim Bolton
Nauvoo, IL

Planted: April 15 in 30" rows. **Planting Population:** 27,500. **Harvested:** October 11. **Previous Crop:** Soybeans. **Fertilizer:** N: 180, P: 90 , K: 120. **Herbicide:** Capreno, Atrazine. **Corn Borer Rating:** Moderate. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 4J93AM™*	**248.6**	**15.1**	**100**	**61.0**	**28**
POWER PLUS 7H23 S™*	**245.2**	**15.2**	**94**	**59.0**	**27**
POWER PLUS 4J90™*	**233.8**	**14.1**	**95**	**58.0**	**27**
POWER PLUS 6C40™*	**225.6**	**16.0**	**97**	**62.0**	**28**
POWER PLUS 7H20™*	**225.3**	**14.2**	**90**	**58.0**	**28**
CATALYST 5009 3220	**221.9**	**14.8**	**100**	**58.0**	**28**
POWER PLUS 6N83AM™*	**221.6**	**15.8**	**100**	**58.0**	**28**
BURRUS 6Q60	**217.8**	**14.2**	**100**	**58.0**	**28**
Average	230.0	14.9	97	59.0	27

Power Plus® 6P75AMX™ brand* goes 301.6 bu/a & wins

COMPARE

Michael McDowell
Dallas City, IL

Planted: May 5 in 30" rows. **Planting Population:** 34,000. **Harvested:** September 23. **Previous Crop:** Corn. **Fertilizer:** N: 225, P: 40 , K: 80. **Herbicide:** Corvis, Atrazine. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **✓Check Hybrid:** Agrigold A6533 **Remarks:** 4oz Stratego fungicide applied at VT.

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	**292.6**		**20.8**	**97**	**34**
Agrigold A6472	286.9	7	20.5	97	34
ProHarvest 8244 112RM	299.9	2	22.1	97	34
ProHarvest 8162 111RM	276.9	8	18.6	94	34
POWER PLUS 5K35AMX™*	**293.4**	**6**	**20.6**	**93**	**34**
POWER PLUS 6P75AMX™*	**301.6**	**1**	**22.7**	**96**	**34**
Pioneer P1197AMXT	298.2	3	21.5	96	34
Pioneer P1311AMXT	295.3	5	23.3	96	34
Golden Harvest G11F16 311A	272.6	9	23.0	76	34
Golden Harvest G18D87 3000GT	296.7	4	27.2	93	54
✓CHECK	300.1		22.4	96	34
Average	292.2		22.1	94	34
Check Average	296.4		21.6	96	34

Richard Douglas
Dallas City, IL

Planted: April 18 in 30" rows. **Planting Population:** 35,000. **Harvested:** September 21. **Previous Crop:** Soybeans. **Fertilizer:** N: 240, P: 92 , K: 120. **Insecticide:** None. **Corn Borer Rating:** Light. **Soil Type:** Loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **✓Check Hybrid:** FS 62TV1DG **Remarks:** Plot had a fungicide application.

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.	1000 Plants /Acre
✓CHECK	271.4		23.5	57.9	35
POWER PLUS 4J93AM™*	**274.0**	**5**	**22.9**	**60.6**	**35**
POWER PLUS 4J95AMX™*	**259.9**	**9**	**22.4**	**60.5**	**34**
POWER PLUS 5K35AMX™*	**272.5**	**6**	**23.0**	**61.7**	**35**
POWER PLUS 5K33AM™*	**276.5**	**4**	**23.6**	**61.9**	**35**
POWER PLUS 6P75AMX™*	**280.8**	**3**	**24.6**	**61.2**	**35**
Wyffles 7888	286.9	1	25.5	58.4	35
AGI Gold 6462	260.5	8	23.5	57.9	34
AGI Gold 6499	286.6	2	25.2	58.3	35
Dekalb 6487	263.0	7	24.0	59.0	34
✓CHECK	276.8		23.5	57.9	35
Average	273.5		23.8	59.6	35
Check Average	274.1		23.5	57.9	35

IROQUOIS

Seven out of top nine places go to Burrus

Kyle Lottinville
Sheldon, IL

Planted: April 6 in 30" rows. **Planting Population:** 32,000. **Harvested:** October 15. **Previous Crop:** Soybeans. **Fertilizer:** N: 175, P: 60.86 , K: 60.86. **Herbicide:** Harness Xtra, Balance Flex, Salvo. **Insecticide:** Chloropyriphos - Generic Lorsban. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–normal, June–normal, July–wet, August–wet. **Check Hybrid:** Channel 209-50

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	223.4		15.5	100	32
POWER PLUS 4J90™*	**220.6**	**6**	**14.9**	**100**	**32**
Pioneer P0928	208.3	16	16.0	100	31
Pioneer P0993	213.0	12	15.0	100	32
✓CHECK	225.1		15.7	100	27
Becks 6076PQ	211.6	4	14.7	100	26
POWER PLUS 6C40™*	**203.3**	**11**	**18.3**	**100**	**33**
Pioneer P1360	188.8	20	16.6	100	36
POWER PLUS 6Q60™*	**187.4**	**21**	**16.6**	**100**	**31**
Pioneer P1345	186.5	22	15.7	100	30
✓CHECK	204.0		15.7	100	25
Pioneer P1498	200.8	13	16.4	100	23
POWER PLUS 3H85AMX™*	**220.0**	**1**	**15.4**	**100**	**33**
Croplan 4895	200.8	14	15.5	100	31
POWER PLUS 5C17AMXT™*	**211.2**	**5**	**16.3**	**100**	**31**
Becks 5939	203.2	10	16.3	100	32
POWER PLUS 4J95AMX™*	**214.2**	**3**	**15.7**	**100**	**32**
✓CHECK	224.4		15.4	100	33
POWER PLUS 5K35AMX™*	**215.1**	**9**	**15.9**	**100**	**30**
CATALYST 6216 3111A	**202.0**	**19**	**15.3**	**100**	**35**
BURRUS 6T54 3000GT	**217.9**	**8**	**17.6**	**100**	**31**
Becks 6365	207.8	17	16.5	100	32
POWER PLUS 6P75AMX™*	**218.6**	**7**	**17.6**	**100**	**31**
Croplan 6594	224.6	2	15.9	100	30
POWER PLUS 6F74AMX™*	**207.8**	**17**	**16.5**	**100**	**30**
Dekalb 6487	210.8	15	17.6	100	31
✓CHECK	224.4		15.4	100	31
Average	210.2		16.1	100	31
Check Average	220.3		15.5	100	29

COMPARE

Borchers Farm
Gilman, IL

Planted: May 18 in 3" rows. **Planting Population:** 33,500. **Harvested:** September 29. **Previous Crop:** Soybeans. **Fertilizer:** N: 140, P: 150 , K: 100. **Herbicide:** Roundup, Sonic. **Corn Borer Rating:** Light. Soil Type: Medium loam. **Weather:** May–normal, June–normal, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
BURRUS 6T54 3000GT	248.6	23.7	100	56.9	34
POWER PLUS 6P75AMX™*	244.0	23.5	100	56.9	34
POWER PLUS 6F74AMX™*	226.3	25.8	100	60.4	34
POWER PLUS 4J95AMX™*	226.3	23.6	100	56.9	34
POWER PLUS 7A18 Q™*	223.7	26.0	100	60.5	34
POWER PLUS 6L45AMT™*	222.8	23.7	100	57.9	34
POWER PLUS 5K35AMX™*	221.9	23.9	100	56.9	34
POWER PLUS 5C17AMXT™*	217.2	25.8	100	58.4	34
POWER PLUS 6216 3111A™*	206.1	25.8	100	55.4	34
POWER PLUS 4J99 R™*	187.2	23.8	100	58.9	34
Average	222.4	24.6	100	57.9	34

JO DAVIESS

Power Plus® 3H85AMXT™* brand tops plot at 237 bu/a

Kyle Embry
Hanover, IL

Planted: May 7 in 30" rows. **Planting Population:** 34,300. **Harvested:** October 17. **Previous Crop:** Soybeans. **Soil Type:** Heavy Clay. **Weather:** May–wet, June–normal, July–wet, August–wet. ✓**Check Hybrid:** Power Plus 2N82AM™*

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	205.6		18.9	59.2	30
POWER PLUS 1G48AMXT™*	216.3	6	17.0	60.3	28
POWER PLUS 1S26AMXT™*	208.1	11	17.0	58.3	32
POWER PLUS 2F91AMXT™*	189.8	12	17.6	58.9	26
POWER PLUS 2Y06AM™*	219.2	4	18.8	58.7	36
POWER PLUS 2B77AMXT™*	217.3	5	19.0	60.2	32
POWER PLUS 2R63 R™*	211.1	8	18.9	59.7	34
✓CHECK	202.9		18.9	57.7	30
POWER PLUS 3H85AMX™*	237.7	1	20.0	58.0	32
POWER PLUS 4J95AMX™*	216.1	7	20.2	58.0	26
POWER PLUS 5K35AMX™*	213.9	9	20.0	57.5	30
POWER PLUS 5C17AMXT™*	232.9	3	20.3	59.5	38
POWER PLUS 6F74AMX™*	212.6	10	20.1	61.0	34
BURRUS 6T54 3000GT	235.7	2	22.4	55.5	34
✓CHECK	212.2		18.8	58.2	28
Average	215.4		19.2	58.7	31
Check Average	206.9		18.9	58.4	29

KANKAKEE

Dick Moran
Manteno, IL

Planted: May 6 in 30" rows. **Planting Population:** 32,000. **Harvested:** October 17. **Previous Crop:** Soybeans. **Fertilizer:** N: 177, P: 69 , K: 120. **Herbicide:** Lexmark, Dungo, Ahrex. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–normal, June–normal, July–wet, August–wet. ✓**Check Hybrid:** Burrus 6T54 3000GT **Remarks:** Quite a bit of lodging and stalk weakness. Major rains in July and August.

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	198.1		23.1	100	29
POWER PLUS 4J99 R™*	201.6	4	19.6	95	27
BURRUS 502792	190.7	14	19.5	100	30
CATALYST 7893 3111	178.6	21	22.7	70	30
BURRUS 543117	192.7	10	20.6	80	28
✓CHECK	201.3		24.9	90	26
POWER PLUS 5K33AM™*	201.1	6	22.3	60	29
POWER PLUS 4J95AMX™*	186.5	18	19.3	100	31
POWER PLUS 3H85AMX™*	204.3	3	18.5	90	30
POWER PLUS 5K35AMX™*	187.1	17	21.0	100	30
✓CHECK	200.6		24.2	90	29
CATALYST 7577 3010	182.8	19	21.3	90	25
BURRUS 995336	188.1	15	23.2	90	26
POWER PLUS 5C17AMXT™*	201.2	2	20.5	15	26
BURRUS 791838	190.6	9	20.7	50	30
✓CHECK	193.9		25.1	95	31
CATALYST 6216 3111A	195.3	7	24.2	100	27
POWER PLUS 6F74AMX™*	192.8	8	23.1	100	29
✓CHECK	199.4		25.6	100	26
POWER PLUS 6L45AMT™*	208.3	1	23.6	75	27
✓CHECK	199.6		24.9	100	27
POWER PLUS 6P75AMX™*	193.2	12	21.5	100	27
BURRUS 130796	189.3	16	21.6	90	30
BURRUS 779855	201.7	5	18.8	85	26
✓CHECK	202.7		23.4	100	28
✓CHECK	203.1		24.9	100	26
POWER PLUS 6P73AM™*	193.3	11	20.7	70	26
BURRUS 644188	178.9	22	21.4	10	29
POWER PLUS 7A18 Q™*	184.4	20	20.2	5	27
BURRUS 241539	192.5	13	19.5	100	27
BURRUS 406264	169.7	23	20.2	100	29
✓CHECK	198.6		24.3	90	26
Average	193.8		22.0	82	28.0
Check Average	199.7		24.5	96	27.6

Why wasn't the highest yielding hybrid ranked number one in the test plot?

For years, there has been a debate over the best way to present yield data from test plots. Throughout this publication, regular plots without a check are printed in order from highest to lowest based on number 2 yield. Check plots containing the same hybrid repeated several times throughout the plot are designated to identify field variation. At Burrus, we use a formula to adjust the yields for field variations and rank the hybrids from best to least in relation to its two nearest checks.

Some field variation is common in most plots. Differences in drainage, soil texture, soil pH, slope, etc. can make a difference in any given year. Obviously, plots with the least variability are the most uniform and produce the most repeatable data.

Using a check hybrid system and adjusting yields and rank to those checks is the key to accurate testing. It provides a means of comparing hybrid performance without the unpredictable impact of field variability. Basically, it adjusts for "good" or 'bad" spots in a field. The plot used in this year's example varies dramatically which illustrates how yield adjustment procedures works.

First, the check hybrid is adjusted to number 2 corn and then the checks are averaged (223.9 bu/a). Next, each pair of checks is averaged and their deviation from the overall check average is recorded (either +3.4 or -2.7 bu/a etc. in the example plot). By adding this figure to the number 2 yield, we can make an adjusted yield for any variation of conditions within a field.

The rank column then shows where the hybrid places after all are adjusted. The highest number 2 yield (Burrus 6T54 3000GT @ 232.9 bu/a) is only ranked second because of its relationship to its adjacent checks. The highest-ranking hybrid on the adjusted yield column was Power Plus® 4J99 R™* at 230.3 bu/a.

As you know, some companies publish a + or – the check rating for hybrid performance. Their rank column might give you the same order (largest plus yield will be ranked number 1) but we feel it's easier to follow a rank than search for plus or minus values. Other companies display their adjusted yields. At Burrus, we feel uncomfortable to list Power Plus® 4J99 R™* with an adjusted yield 230.3 bu/a when it really made 226.9 bu/a.

Consequently, we've chosen to publish the number 2 yields in the order the hybrids were planted. Then, we show the yield rank as adjusted for the check. This gives you the opportunity to look at the variability of the check and the actual yield. Additionally, you'll find the hybrids that performed best in relation to the check. But, as this plot shows, the top number 2 yield may not receive the highest ranking.

Here's how we do it:

Curtis Biesenthal
New Berlin, IL
Sangamon Co., IL

Brand Hybrid	*Check Yield*	*Avg of 2 checks*	Deviation from *check average*	*No. 2 Yield*	*Adj. Yield*	*Rank*
√ *Catalyst 4685 3111*	218.4					
Power Plus 4J95AMX™*		220.5	+ 3.4	209.2	212.6	9
Power Plus 4J99 R™*		220.5	+ 3.4	226.9	230.3	1
Power Plus 5C17AMXT™*		220.5	+ 3.4	205.5	208.9	11
Power Plus 5K35AMX™*		220.5	+ 3.4	225.7	229.1	3
√ *Catalyst 4685 3111*	222.6					
Catalyst 6216 3111A		226.7	- 2.7	220.1	217.4	8
Power Plus 6L45AMT™*		226.7	- 2.7	225.3	222.6	7
Burrus 6T51 GT		226.7	- 2.7	227.3	224.6	5
Burrus 6T54 3000GT		226.7	- 2.7	232.9	230.2	2
Power Plus 6F74 AMX™*		226.7	- 2.7	214.7	212.0	10
Power Plus 6F75 AMX™*		226.7	- 2.7	226.7	224.0	6
Power Plus 7A18 Q™*		226.7	- 2.7	229.4	226.7	4
√ *Catalyst 4685 3111*	230.7					
Plot average	**222.5**					
Check average	**223.9**					

Power Plus® 6P75AMX™* broke through 300 bu/a to win in Hancock Co. for Molly & Michael McDowell.

Kyle Lottinville saw Power Plus® 3H85AMX™* take the number one rank in Iroquois Co.

Kevin McMath saw Power Plus® handle ProHarvest & Golden Harvest in DeWitt Co.

KANKAKEE

Power Plus® 5C17AMXT™* brand wins at 256 bu/a

Jason Zimmer
Reddick, IL

Planted: April 18 in 30" rows. **Planting Population:** 35,000. **Harvested:** October 4. **Previous Crop:** Soybeans. **Fertilizer:** N: 240, P: 150 , K: 100. **Herbicide:** Volley ATZ, Status, Roundup. **Insecticide:** 20g Counter. **Corn Borer Rating:** Light. **Soil Type:** Heavy loam. **Weather:** May–normal, June–normal, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 5C17AMXT™*	**256.1**	**20.0**	**90**	**58.0**	**33**
POWER PLUS 4J95AMX™*	**249.7**	**20.0**	**90**	**57.0**	**34**
POWER PLUS 6P75AMX™*	**249.1**	**20.9**	**90**	**56.2**	**34**
POWER PLUS 2B77AMXT™*	**248.8**	**17.6**	**90**	**58.4**	**35**
POWER PLUS 6L45AMT™*	**246.8**	**20.2**	**95**	**56.0**	**35**
POWER PLUS 5K35AMX™*	**244.6**	**19.9**	**90**	**56.9**	**34**
Dairyland Seed DS-9409RA	243.9	18.6	90	55.6	34
Dairyland Seed DS-9713RA	243.6	21.8	90	55.4	34
BURRUS 6T54 3000GT	**242.3**	**21.8**	**100**	**56.4**	**33**
POWER PLUS 6F74AMX™*	**241.1**	**20.3**	**100**	**60.0**	**36**
POWER PLUS 3H85AMX™*	**234.6**	**19.1**	**40**	**57.7**	**35**
POWER PLUS 4J99 R™*	**232.9**	**18.9**	**70**	**57.7**	**36**
CATALYST 6216 3111A	**230.3**	**19.8**	**100**	**55.9**	**34**
Dairyland Seed DS-9314RA	226.3	23.6	100	56.9	34
Average	242.2	20.2	88	57.0	34

KNOX

Burrus 6T54 3000GT wins at 256.1 bu/a

Tim Carlson
Galesburg, IL

Planted: April 14 in 30' rows. **Planting Population:** 35,600. **Harvested:** September 21. **Previous Crop:** Soybeans. **Corn Borer Rating:** Light. **Soil Type:** Heavy loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
BURRUS 6T54 3000GT	**256.1**	**24.1**	**98**	**57.0**	**36**
POWER PLUS 5C17AMXT™*	**256.0**	**20.6**	**100**	**58.5**	**38**
POWER PLUS 6P75AMX™*	**251.2**	**25.3**	**100**	**56.6**	**36**
POWER PLUS 5K35AMX™*	**249.9**	**20.8**	**94**	**57.7**	**35**
POWER PLUS 4J99 R™*	**246.0**	**20.4**	**97**	**58.0**	**36**
POWER PLUS 6216 3111A™*	**243.8**	**22.4**	**100**	**55.0**	**36**
POWER PLUS 6L45AMT™*	**243.7**	**22.2**	**100**	**59.0**	**37**
POWER PLUS 4J95AMX™*	**241.7**	**20.9**	**98**	**57.5**	**37**
POWER PLUS 6F74AMX™*	**240.2**	**21.7**	**100**	**60.4**	**36**
Average	247.6	22.0	99	57.7	36

Power Plus® 3H85AMX™* won at 237 bu/a for Nettie & Kyle Embry in Jo Daviess Co.

Tim Carlson
Galesburg, IL

Planted: April 14 in 30" rows. **Planting Population:** 35,900. **Harvested:** September 20. **Previous Crop:** Soybeans. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–normal, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	1000 Plants /Acre
POWER PLUS 5K33AM™*	**251.8**	**20.8**	**94**	**37**
POWER PLUS 7A18 Q™*	**249.5**	**21.7**	**76**	**34**
POWER PLUS 5K35AMX™*	**249.2**	**20.5**	**91**	**34**
POWER PLUS 3H85AMX™*	**247.1**	**19.1**	**96**	**34**
BURRUS 791838	**246.3**	**21.4**	**96**	**37**
POWER PLUS 4J99 R™*	**246.2**	**19.8**	**100**	**35**
BURRUS 290092	**243.5**	**18.3**	**98**	**34**
BURRUS 502792	**240.8**	**20.6**	**90**	**36**
BURRUS 381468	**237.8**	**20.6**	**78**	**34**
BURRUS 452212	**236.9**	**21.3**	**100**	**30**
CATALYST 5009 3220	**236.4**	**19.8**	**100**	**36**
BURRUS 6T54 3000GT	**235.8**	**23.4**	**55**	**36**
POWER PLUS 5C17AMXT™*	**235.4**	**19.9**	**100**	**37**
POWER PLUS 6P75AMX™*	**235.2**	**21.9**	**99**	**35**
BURRUS 496422	**234.7**	**17.2**	**100**	**36**
POWER PLUS 6L45AMT™*	**233.9**	**21.7**	**99**	**37**
BURRUS 543117	**233.5**	**19.6**	**94**	**37**
POWER PLUS 6F74AMX™*	**232.6**	**20.3**	**100**	**34**
CATALYST 6216 3111A	**231.6**	**21.6**	**99**	**35**
BURRUS 751081	**231.5**	**18.8**	**98**	**36**
POWER PLUS 4J95AMX™*	**230.8**	**20.3**	**100**	**36**
BURRUS 750364	**230.2**	**19.0**	**98**	**35**
BURRUS 995336	**230.0**	**22.4**	**100**	**36**
BURRUS 836363	**229.0**	**20.0**	**94**	**35**
POWER PLUS 2N82AM™*	**227.8**	**18.3**	**96**	**32**
BURRUS 179401	**223.4**	**22.0**	**96**	**30**
Average	237.0	20.4	94	35

Burrus 6T54 3000GT nudges out Power Plus® 5C17AMXT™* in Knox Co. for Tim & Dale Carlson.

Jason & Ed Zimmer saw his soybean population study yield equally from 125,000-150,000 beans per acre in Kankakee Co.

Bridon Borchers of Borchers Farms watched Burrus 6T54 3000GT lead off at 248 bu/a in Iroquois Co.

Not quite gone and hopefully not forgotten

by Stephanie Porter
Sales Agronomist

For most of us, it has been awhile since we have been concerned about western or northern corn rootworm (CRW). Overall, corn rootworm populations were below average due to extremely wet spring seasons, but we still continue to evaluate rootworm pressure on a field by field basis.

After three growing seasons with Burrus, I had my first rootworm call in a silage field on a dairy farm in Dane Co., WI. It was a good reminder that this pest is still here. Unfortunately, the field was corn-on-corn for many years. The interesting fact was the grower had no issues with western CRW the previous year, but recalled his neighbor's field, close to his field's injury, did have rootworm issues. It is speculated that the neighbor's western CRW beetles decided to feed on this nearby field's roots, causing it to lodge after a wind event. This hybrid did contain the Agrisure® RW trait, but obviously there was a chew through, which could lead some to believe that resistance occurred due to heavy use of Bt corn, year after year, in that area.

Concerning the four Bt corn traits to control rootworm, the latest information includes:

- Field-evolved resistance to Cry3Bb1 (Event MON88017 – YieldGard® RW) for western CRW was documented as increasing between 2009 and 2011. This developed due to the onset of Bt resistance and CRW being continually exposed to the same management tactic.
- Recent work revealed cross-resistance in western CRW among three of the four Bt traits: CryBb1 (Event MON88017 – YieldGard RW), mCry3A (Event MIR604 – Agrisure RW), and eCry3.1Ab (Event 5307 – Agrisure Duracade®). Cross-resistance means rootworm populations resistant to Cry3Bb1, will likely also be resistant to mCry3A and eCry3.1Ab.
- Most recently, evidence of field-evolved resistance of western CRW to Cry34/35Ab1 (Event DAS-59122-7 – Herculex® RW) has been identified in only four fields in Iowa. Here, they found greater than expected root injury to corn hybrids containing the Cry34/35Ab1 trait. However, this resistance was incomplete, meaning survival on Bt corn was less than non-Bt corn. At this point, resistance appears to be limited in its geographic distribution within Iowa.
- eCry3.1Ab (Event 5307 – Agrisure Duracade) to date has been approved in the U.S., Canada, Japan, Korea, Taiwan, Australia, New Zealand, but we await China's approval. This Bt trait claims to be the first hybrid Bt insect control protein and was launched with insect resistance management in mind. It will only be available stacked with mCry3A (Event MIR604 - Agrisure® RW).

We are losing the best tools that we have (Bt rootworm traits) at an alarming pace due to resistance. In the instance of corn planted after corn, we always recommend protecting corn roots against CRW, but we continue to preach crop rotation. Monitor silk injury and beetle populations. Keep records and rotate to different Bt traits or plant non-Bt corn with soil insecticide (following crop rotation). In areas of heavy rootworm pressure, a pyramid Bt corn may be needed. Unfortunately, research has shown that the use of an insecticide with Bt trait(s) can accelerate resistance to both management strategies. The EPA has proposed protective requirements to delay corn rootworm resistance to Bt corn. For more information on this, please watch *Rootworm Resistance Management* on the Burrus YouTube channel.

Dairy farm with corn rootworm injured silage field in Dane Co., WI.

Root injury caused by corn rootworm.

Why all the fuss about soybean cyst nematode?

by Stephanie Porter

Unfortunately, until recently, soybean cyst nematode (SCN) has not been discussed much. It is known to be the number one threat to soybean production around the world, but in the north central U.S., we have been depending on the PI 88788 source of resistance in 95% of our seed market share. A smaller percentage source of soybean resistance against SCN comes from Peking, PI 437654, or combinations. What happens when we depend on a predominate source of resistance for an extended period of time? SCN populations can adapt to the source of resistance.

Resistance is not new, as this was also documented in 2007 and 2008 by Mitchum et al., and Niblack et al., respectively. As SCN presence within soil samples screened at the university level show, the problem appears to be getting worse. There has been an increase in the number of SCN populations that can grow on PI 88788, and within these populations appears to be a greater amount of female nematodes, each of which can contain 200 to 500 eggs. Each nematode has different genes and those that are unaffected by plant resistance can pass those genes to their offspring by reproducing sexually, thus increasing the amount of SCN that are unaffected by PI 88788, read as "resistance to Race 3 and Race 14" on a bag of seed.

SCN can be difficult to diagnose because they are located within patches across a field and symptoms may not be noticeable in favorable growing seasons with adequate rain. In cases where there are high populations, SCN cysts might be visible on roots and there could be poor nodulation, uneven soybean growth, stunted plants, or a low number of pods or beans per pod. Test for SCN by soil sampling and sending the sample to the University of IL Plant Clinic where they will sieve, process, and do SCN egg counts!

Another option is to have an HG (Hetorodera glycines) test on a SCN population within a field. The sample is tested against seven different soybean indicator lines that are given numbers 1-7. A female index is determined after a 30-day greenhouse test and the average number of SCN females produced on the HG type indicator line relative to the number produced on a standard, susceptible soybean cultivar. Recent research from Iowa State University indicates that an HG test is most meaningful if a soil sample of 100 or more cores is collected throughout a field as the results of the HG type test can vary. Ultimately, the HG test can tell if you have a SCN population in your field that can reproduce on PI 88788.

The integrated management of SCN has not changed. Crop rotation to non-hosts such as corn can help, but this does not eliminate SCN populations, it just decreases the population. SCN cysts can remain in the soil for several years and each cyst can contain more than 100 eggs. When they hatch, the juveniles will migrate to the plant root, set-up feeding sites, and steal nutrients which can result in yield loss. SCN have also been deemed the gateway for disease. There are new seed treatments (chemical, biological, and plant-health regulators) that offer early season SCN control, but are not considered a stand alone treatment. We have come to realize that the use of a single source of resistance is not a viable long-term strategy for managing SCN, but there is hope for new developments after the recent discovery of genes underlying SCN resistance.

SCN Egg Count per 100cc of soil	SCN Level	Overall management plan
0	Not detected	Monitor with periodic SCN egg counts, at least every 3rd year soybean is grown
Up to 500	Very low	Plant SCN resistant variety (can focus on higher yielding varieties) and incorporate rotation to a non-host crop into your management plan, monitor SCN egg counts
500 to 2000	Low to moderate	Plant SCN resistant variety with greater resistance and include rotation to a non-host crop into your management plan, monitor SCN egg counts after growing soybean
2000 to 5000	Moderate to high	Plant and rotate with SCN resistant varieties (most effective using resistance matched with identified SCN Type test results) and rotate to a non-host crop (each year after soybean is grown until high count decreases)
5000 and higher	High	Rotate to a non-host crop, sample for SCN egg count before returning to soybean

Table 2. Management guidelines based on fall SCN Egg Count

Thanks to University of IL for SCN populations, to demonstrate PI 88788 resistance (back plants) as well as demonstrate seed treatments such as PS SDS (ILeVO®) at New Technology Day.

The experimental variety on the left consists of PI 88788 source of resistance and the experimental variety on the right has no PI 88788 resistance in a Burrus research plot located in Greene Co., IL. We plan to test all Burrus soybean plots for soybean cyst nematode.

LASALLE

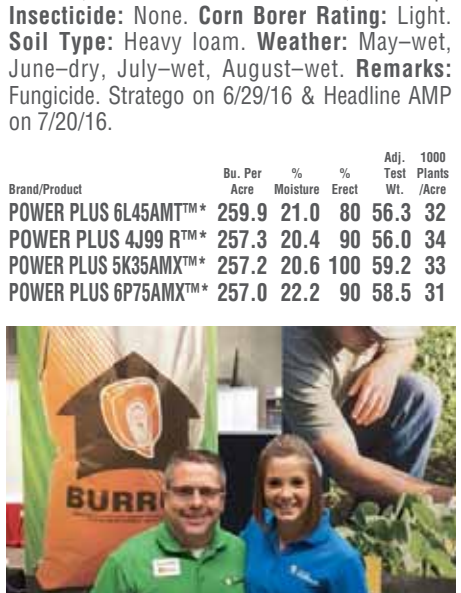
Power Plus® 6L45AMT™* brand at 259.9 bu/a

COMPARE!

Jeff Busch
Tonica, IL

Planted: April 16 in 30" rows. **Planting Population:** 34,500. **Harvested:** September 26. **Previous Crop:** Soybeans. **Fertilizer:** N: 220, P: 150 , K: 150. **Herbicide:** Corvis, Roundup. **Insecticide:** None. **Corn Borer Rating:** Light. **Soil Type:** Heavy loam. **Weather:** May–wet, June–dry, July–wet, August–wet. **Remarks:** Fungicide. Stratego on 6/29/16 & Headline AMP on 7/20/16.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6L45AMT™*	**259.9**	**21.0**	**80**	**56.3**	**32**
POWER PLUS 4J99 R™*	**257.3**	**20.4**	**90**	**56.0**	**34**
POWER PLUS 5K35AMX™*	**257.2**	**20.6**	**100**	**59.2**	**33**
POWER PLUS 6P75AMX™*	**257.0**	**22.2**	**90**	**58.5**	**31**
POWER PLUS 5C17AMXT™*	**254.6**	**20.6**	**100**	**55.2**	**35**
POWER PLUS 4J95AMX™*	**249.3**	**21.8**	**100**	**57.4**	**33**
CATALYST 6216 3111A	**248.5**	**20.6**	**100**	**56.2**	**33**
POWER PLUS 3H85AMX™*	**245.1**	**19.7**	**90**	**58.9**	**33**
Dairyland 9412 RA	243.2	20.5	100	56.2	33
POWER PLUS 2B77AMXT™*	**241.2**	**18.4**	**90**	**58.5**	**32**
POWER PLUS 6F74AMX™*	**235.3**	**21.6**	**100**	**61.4**	**28**
Dairyland 9409 RA	224.4	18.8	80	56.7	33
Average	247.8	20.5	93	57.5	32



Burrus SM Tim Carmody and Morgan McCormick enjoyed a career fair together.

LIVINGSTON

Rob Mehalic
Streator, IL

Planted: April 17 in 30" rows. **Planting Population:** 32,900. **Harvested:** September 25. **Previous Crop:** Soybeans. **Herbicide:** Acuron, Roundup, WatherMAX. **Soil Type:** Silt loam. **Remarks:** Third party plot.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.
Beck's 6365AMX	284.5	18.4	60.5
Beck's 6076SX	278.2	17.2	62.3
POWER PLUS 6L45 AMT™*	**277.7**	**20.0**	**60.2**
Beck's 5828AMX	277.3	17.6	60.3
Beck's 6418SX	272.2	19.0	62.9
Phoenix 5832A3	271.4	18.3	60.7
Beck's 5665AMX	268.4	17.5	62.3
POWER PLUS 6P75AMXT™*	**264.8**	**19.8**	**61.1**
Beck's 6165AMX	263.6	18.5	61.1
POWER PLUS 4J99 R™*	**261.7**	**19.1**	**61.3**
POWER PLUS 6F74AMX™*	**258.8**	**20.1**	**61.4**
BURRUS 6216 3111A	**251.1**	**19.6**	**58.6**
POWER PLUS 4J95AMX™*	**251.0**	**19.0**	**61.2**
Beck's 5829A4	249.9	18.2	59.1
POWER PLUS 3H85AMX™*	**245.6**	**18.2**	**61.7**
POWER PLUS 5C17AMXT™*	**215.6**	**19.2**	**61.0**
Average	262.0	18.7	61.0

Tina & Jeff Busch saw the Burrus lineup handle the competition in LaSalle Co.

To demonstrate how far pollen travels, a purple corn was planted in the middle of yellow corn. Every kernel pollinated with the purple pollen made a purple kernel. Growers attending the Burrus New Technology Day saw how far the pollen traveled.

LOGAN

New Power Plus® 6P73AMX™* brand wins at 243 bu/a

Kent Kleinschmidt
Emden, IL

Planted: April 23 in 30" rows. **Harvested:** October 3. **Previous Crop:** Soybeans. **Fertilizer:** N: 210, P: 150 , K: 150. **Herbicide:** Medal, 2-4D, Roundup. **Soil Type:** Medium loam. **Weather:** May–dry, June–normal, July–wet, August–wet. ✓**Check Hybrid:** Burrus 6T54

Brand/Product	Bu. Per Acre	Rank	% Moisture	1000 Plants /Acre
✓CHECK	218.2		17.5	32
POWER PLUS 4J99 R™*	207.8	18	15.5	33
CATALYST 7577 3010	222.7	11	15.8	33
✓CHECK	202.5		16.7	33
POWER PLUS 7A18 Q™*	228.9	2	17.5	33
✓CHECK	206.0		17.2	33
POWER PLUS 6P73AM™*	243.3	1	16.6	33
BURRUS 406264	173.7	23	16.2	32
CATALYST 7893 3111	222.9	10	16.2	32
BURRUS 543117	212.1	16	16.2	32
✓CHECK	213.8		16.0	33
BURRUS 502792	204.4	22	15.9	33
POWER PLUS 5K35AMX™*	213.3	19	16.2	34
POWER PLUS 5K33AM™*	233.9	6	16.1	32
POWER PLUS 3H85AMX™*	227.9	12	16.1	32
✓CHECK	218.4		17.0	32
POWER PLUS 4J95AMX™*	213.1	15	17.2	32
POWER PLUS 5C17AMXT™*	227.5	7	16.7	32
BURRUS 874551	226.9	8	16.5	32
BURRUS 130796	234.4	3	17.2	32
✓CHECK	203.3		17.8	32
POWER PLUS 6P75AMX™*	230.9	4	17.6	33
BURRUS 791838	216.8	14	15.3	32
✓CHECK	216.9		18.9	32
BURRUS 995336	213.4	21	18.9	32
✓CHECK	226.0		18.1	32
CATALYST 6216 3111A	210.2	20	17.4	32
POWER PLUS 6L45AMT™*	231.5	9	17.4	32
POWER PLUS 6F74AMX™*	214.7	17	17.5	32
BURRUS 241539	222.8	13	15.3	33
BURRUS 644188	235.1	5	15.7	32
✓CHECK	205.2		18.0	32
Average	218.1		16.8	32
Check Average	212.3		17.5	32.4

Heston and Hadalyne Howell are blessed to have a mama with a good camera and a terrific eye!

Power Plus® 6P75AMX™* as the check was the highest yielding hybrid in Macoupin Co. for Mike Cole.

Dan Folkes
Elkhart, IL

Planted: April 15 in 30" rows. **Planting Population:** 35,000. B September 24. **Previous Crop:** Corn. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
Agrigold A6533	257.4	16.1	100	56.8	34
Agrigold A6499	248.5	15.9	100	61.1	32
ProHarvest 8312	241.4	15.7	94	58.6	32
Agrigold A6533	240.0	16.3	100	56.0	34
POWER PLUS 6P75AMX™*	239.3	15.8	70	56.0	33
Agrigold A6499	237.3	15.8	100	57.9	32
POWER PLUS 5K35AMX™*	236.0	14.3	100	58.7	33
POWER PLUS 6L45AMT™*	234.4	16.0	90	59.0	34
POWER PLUS 6F74AMX™*	230.9	14.7	100	61.4	33
POWER PLUS 4J95AMX™*	225.0	14.2	85	57.0	32
CATALYST 6216 3111	223.3	15.8	80	54.5	35
POWER PLUS 4J99 R™*	220.0	15.3	90	58.0	31
POWER PLUS 6T54 3000GT™*	216.8	15.7	100	56.1	34
ProHarvest 8244	216.5	15.1	100	58.3	31
Average	233.3	15.5	94	57.8	33

MACON

Ellis Buth
Warrensburg, IL

Planted: May 7 in 30" rows. **Planting Population:** 32,000. **Harvested:** October 19. **Previous Crop:** Soybeans. **Corn Borer Rating:** Light. **Soil Type:** Heavy loam. **Weather:** May–dry, June–wet, July–wet, August–normal.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 4J99 R™*	201.2	14.9	57.5	29
POWER PLUS 5C17AMXT™*	190.9	13.8	59.5	29
POWER PLUS 5K35AMX™*	188.9	15.3	60.0	29
ProHarvest 8312 RIB	187.8	16.8	60.2	29
POWER PLUS 6L45AMT™*	186.0	17.7	61.4	29
CATALYST 6216 3111A	175.2	16.2	56.0	29
POWER PLUS 7A18 Q™*	174.2	17.4	62.3	29
POWER PLUS 6P75AMX™*	173.8	16.4	58.0	29
POWER PLUS 4J95AMX™*	169.9	15.1	57.5	29
POWER PLUS 6F74AMX™*	163.0	17.3	61.3	29
ProHarvest 8244 RIB	161.6	16.4	61.5	29
Average	179.3	16.1	54.4	29

Brent Angelo & Mark Monier watched Power Plus® 4J99 R™* top 238 bu/a in Marshall Co.

Karen & Ellis Buth saw Power Plus® 4J99 R™* take the top honors in Macon Co.

Foliar fungicide on corn: why, when, and will it pay?

by Stephanie Porter

After pollination, the corn yield potential is set. We can't add to the corn yield potential, but we can try to preserve it! Think of the corn leaves (especially the top leaves) as factories for photosynthesis and their job is to make sugars for plant growth, development, and grain yield. If there is leaf loss or stress at tassel or during grain fill, the corn plant may have a reduction in yield potential.

In 2016, when we scouted at tassel, disease did not appear critical especially in areas where it had been dry in June. But later during grain fill, after massive amounts of rain, diseases such as Gray leaf spot and Southern rust (in the south) came in full force, especially if susceptible hybrids were planted within heavy residue.

A fungicide application may have been warranted on susceptible hybrids between the corn growth stages of tassel and brown silk. In some cases, fungicide could have been applied before dent if warranted to try to preserve corn yield. It has been well documented that the higher percentage disease on the plant, the greater the yield loss. Leaf disease can also be indirectly correlated to the development of stalk rot. Research has also shown that if there is high disease pressure present and fungicides are applied at the right time, there is a greater potential for a yield response from a fungicide, which can increase your return on investment.

On April 8 and 23, 2016, fungicide trials labeled as dryland and irrigated were planted into fields that had been corn planted following corn near Arenzville, IL by the Burrus research team. The dryland study consisted of four replications and the irrigated study consisted of three replications of 14 hybrids, which were either treated or a control. On June 30, 2016, a 14 oz. rate of Headline AMP® was applied to treated hybrids and no fungicide was applied to the control hybrids. The dryland study appeared to have very good disease pressure through the end of the season. There was also a distinct visual difference between the treated and control hybrids. Hybrids that received a fungicide application appeared to stay green and have overall better health. On average, this fungicide application added a 5 to 9 bu/a increase depending on hybrid and location. Fungicides can range in price from $16 to $30 per acre which includes fungicide, airplane application, and adjuvants. So, 2016 was a year when a fungicide application could have given a return on investment as well as improving overall plant health and standability.

MACOUPIN

Mike Cole
Palmyra, IL

Planted: April 15 in 30" rows. **Planting Population:** 37,000. **Harvested:** September 12. **Previous Crop:** Soybeans. **Herbicide:** Lexar. ✓**Check Hybrid:** Power Plus 6P75AMX™*

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK	252.4		19.5
POWER PLUS 6F71 R™*	239.7	3	19.1
POWER PLUS 6F74AMX™*	241.9	2	18.7
POWER PLUS 4J93AM™*	249.1	1	17.9
✓CHECK	249.1		18.7
Average	246.4		18.8
Check Average	250.8		19.1

MARSHALL

Great yields from May 6 planting date

Mark Monier
Sparland, IL

Planted: May 6 in 30" rows. **Planting Population:** 34,175. **Harvested:** October 13. **Previous Crop:** Soybeans. **Fertilizer:** N: 210, P: VR , K: VR. **Insecticide:** Force 3G. **Corn Borer Rating:** Heavy. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

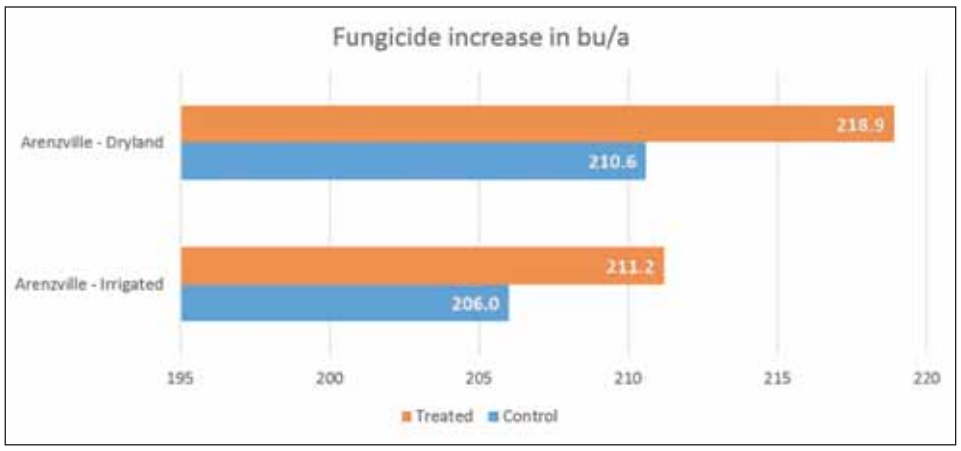
Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 4J99 R™*	238.3	17.7	59.4	35
CATALYST 6216 3111A	225.8	17.4	54.3	30
POWER PLUS 6T54 3000GT™*	224.9	20.1	58.0	33
POWER PLUS 6L45AMT™*	223.5	18.7	57.6	35
POWER PLUS 5K35AMX™*	222.5	17.6	57.4	34
POWER PLUS 6F74AMX™*	221.7	18.9	61.7	34
POWER PLUS 4J95AMX™*	217.7	17.4	58.3	28
POWER PLUS 5K35AMX™*	216.4	17.9	57.5	31
POWER PLUS 5C17AMXT™*	215.1	18.9	58.7	34
POWER PLUS 3H85AMX™*	214.9	16.4	58.0	34
POWER PLUS 6C41 S™*	211.0	20.9	60.2	32
POWER PLUS 6P75AMX™*	208.8	19.8	57.9	34
Average	220.0	18.5	58.3	33

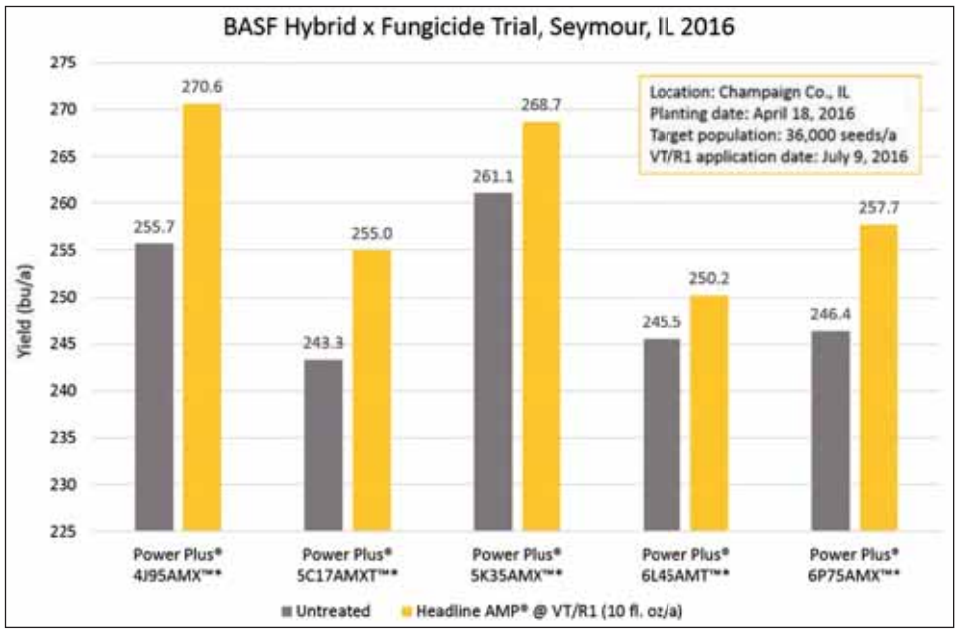
MASON

Midwest Central FFA
Manito, IL

Previous Crop: Soybeans. **Soil Type:** Sandy loam. ✓**Check Hybrid:** AgriGold A6573VT3PRIB **Remarks:** Third party plot.

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.
✓CHECK	206.1		17.0	56.7
Golden Harvest G13U53-3122	175.0	19	17.0	56.0
Golden Harvest G12J11-3111	216.8	9	16.1	56.7
Becks 6076SX	217.0	8	15.2	56.3
Becks XL6165AMX	228.8	4	15.3	57.9
Wyffels W8268RIB	248.6	1	16.1	58.3
Wyffels W7888RIB	215.7	10	16.7	58.0
AgriGold A6442STXRIB	209.3	14	15.3	55.2
AgriGold A6559STXRIB	225.7	5	15.7	57.9
Pioneer P1311AMXT	232.8	3	16.9	54.8
Pioneer P1197AMXT	211.5	11	15.5	54.2
✓CHECK	240.4		16.4	55.2
AgriGold A6573VT3PRIB	240.4	6	16.4	55.2
Channel 216-36STXRIB	252.2	2	17.5	56.9
Channel 209-53STXRIB	209.2	17	16.4	57.4
POWER PLUS 6P75AMXT™*	224.3	15	16.2	57.2
POWER PLUS 6F74AMX™*	208.7	18	16.6	58.2
Dekalb DKC62-77RIB	227.3	13	15.5	56.9
Dekalb DKC64-87RIB	234.9	7	15.6	55.7
Pfister 2770RA	218.8	16	17.1	55.6
Pfister 3366RA	228.5	12	16.4	56.0
✓CHECK	240.8		17.0	55.3
Average	223.3		16.3	56.4
Check Average	229.1		16.8	55.7





Results of Power Plus® brand products (Seymour, IL 2016)

HYBRID	TREATMENT	YIELD (BU/A)	UNTREATED (BU)	MOISTURE %
Power Plus® 4J95AMX™*	Untreated	255.7	-	18.1
	Treated*	270.6	+ 14.9	18.9
Power Plus® 5C17AMXT™*	Untreated	243.3	-	18.8
	Treated*	255.0	+ 11.7	19.4
Power Plus® 5K35AMX™*	Untreated	261.1	-	18.2
	Treated*	268.7	+ 7.6	18.9
Power Plus® 6L45AMT™*	Untreated	245.5	-	19.8
	Treated*	250.2	+ 4.7	21.0
Power Plus® 6P75AMX™*	Untreated	246.4	-	21.3
	Treated*	257.7	+ 11.3	22.0

Three Year Summary Across All Hybrids† (Seymour, IL 2014 - 2016)

	Avg. yield response to Headline AMP®	Positive response to Headline AMP®	Lodged plants untreated	Lodged plants Headline AMP®	Disease pressure
2014	+ 11.5 (bu/a)	93%	36%	13%	Low
2015	+ 17.1 (bu/a)	100%	36%	30%	Heavy
2016	+ 10.7 (bu/a)	98%	35%	19%	Low
AVG	+ 13.1 (bu/a)	97%	36%	21%	-

*Hybrids were treated with Headline AMP fungicide at VT/R1 (10 fl. oz/a)
†Dependent on year, hybrids from AgriGold, Burrus Hybrids, Channel Seed, DEKALB, Dyna-Gro Seed, Federal Hybrids, Frontiersmen, FS InVISION, Pioneer and Wyffels Hybrids were included. 2014: n=54; 2015: n=54; 2016: n=53.

Colleen & Dick Burns joined Burrus in 1986. At the Springfield Selling Dealer Seminar, Dick was recognized for completing 30 years of service with Burrus.

Jim Lutz, Dylan, Clayton & John Cook hit 296 bu/a in McDonough Co. with Power Plus® 4J99 R™*.

PROBABILITY OF YIELD RESPONSE TO FUNGICIDE APPLICATION

HIGH		
CATALYST 5009 3220	POWER PLUS® 2V56 AMX™*	POWER PLUS® 4J90™*
POWER PLUS® 4J93 AM™*	POWER PLUS® 4J95 AMX™*	POWER PLUS® 4J99 R™*
POWER PLUS® 5K33 AM™*	POWER PLUS® 5K35 AMX™*	POWER PLUS® 5N48™*
POWER PLUS® 6L45 AMT™*	POWER PLUS® 7A18 Q™*	POWER PLUS® 7H20™*
POWER PLUS® 7H23 S™*		
MODERATE		
BURRUS 6Q60	BURRUS 6T51 GT	BURRUS 6T54 3000GT
CATALYST 6216 3111A	CATALYST 7577 3010	HUGHES 2428 GTA
HUGHES 5124 GT	HUGHES 9C24 3110A	POWER PLUS® 1S26 AMXT™*
POWER PLUS® 2B77 AMXT™*	POWER PLUS® 2N82 AM™*	POWER PLUS® 2Y06 AM™*
POWER PLUS® 3H85 AMX™*	POWER PLUS® 5C17 AMXT™*	POWER PLUS® 6N83 AM™*
POWER PLUS® 6P73 AM™*	POWER PLUS® 6P75 AMX™*	POWER PLUS® 7U15 AM™*
LOW		
HUGHES 3442	POWER PLUS® 1G39 AM™*	POWER PLUS® 1G48 AMXT™*
POWER PLUS® 2F91 AMXT™*	POWER PLUS® 2R63 R™*	POWER PLUS® 2R67™*
POWER PLUS® 6C40™*	POWER PLUS® 6C41 S™*	POWER PLUS® 6F71 R™*
POWER PLUS® 6F74 AMX™*		

Burrus has ranked various products, noting their potential responsiveness to fungicide. Should a blind application of fungicide be required, this chart should allow the grower to apply fungicide to those products more likely to provide a return (high probability ranking). However, Burrus reminds growers that a fungicide return on investment is best assured by scouting fields for economically significant levels of disease (wide spread lesions within proximity of or above the ear leaf). Repeatedly applying fungicides from the same class can increase the likelihood of resistance development and regulation.

MCDONOUGH

Power Plus® 4J99 R™* brand hits 296 bu/a

COMPARE

John Cook
Sciota, IL

Planted: April 25 in 30" rows. **Planting Population:** 35,000. **Harvested:** October 10. **Previous Crop:** Soybeans. **Fertilizer:** N: 170, P: 70 , K: 140. **Corn Borer Rating:** Moderate. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–normal, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	1000 Plants /Acre
POWER PLUS 4J99 R™*	296.2	15.2	99	35
BURRUS 791838	268.8	16.2	100	34
POWER PLUS 5K33AM™*	266.4	15.5	96	34
POWER PLUS 6P75AMX™*	258.7	14.7	99	33
BURRUS 6T54 3000GT	258.7	15.7	100	34
CATALYST 7577 3010	258.1	17.2	100	33
BURRUS 130796	257.4	15.4	100	36
BURRUS 381468	255.7	17.2	98	36
BURRUS 874551	255.7	15.6	96	42
POWER PLUS 6P73AM™*	254.4	15.7	100	36
BURRUS 543117	254.2	15.5	100	36
POWER PLUS 3H85AMX™*	254.1	15.3	100	34
BURRUS 502792	251.4	14.9	98	36
POWER PLUS 5K35AMX™*	250.4	16.8	100	30
CATALYST 7893 3111	248.3	16.7	98	32
POWER PLUS 4J95AMX™*	246.7	15.7	100	37
POWER PLUS 5C17AMXT™*	245.3	16.5	100	34
POWER PLUS 6L45AMT™*	244.2	16.4	100	34
BURRUS 995336	236.6	17.1	100	36
POWER PLUS 4J93AMX™*	235.6	15.3	100	34
CATALYST 5009 3220	235.1	15.1	100	35
BURRUS 452212	234.9	15.7	100	32
CATALYST 6216 3111A	234.7	15.8	96	35
POWER PLUS 6F74AMX™*	232.6	15.7	100	30
BURRUS 380264	227.5	17.0	94	34
BURRUS 179401	225.9	15.4	100	27
POWER PLUS 7U15AM-R™*	225.1	16.1	96	33
Average	248.6	15.9	99	34

COMPARE

John & Dylan Cook
Sciota, IL

Planted: April 15 in 30" rows. **Planting Population:** 35,000. **Harvested:** September 26. **Previous Crop:** Soybeans. **Fertilizer:** N: 170, P: 90 , K: 140. **Herbicide:** Harness Xtra. **Corn Borer Rating:** Light. **Soil Type:** Heavy loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6P73AM™*	264.0	18.4	98	57.6	34
POWER PLUS 6P75AMX™*	257.4	19.7	100	56.6	35
POWER PLUS 5C17AMXT™*	254.5	17.8	100	59.6	36
BURRUS 6T54 3000GT	251.7	20.6	100	56.4	33
POWER PLUS 6L45AMT™*	245.5	20.6	100	57.1	35
POWER PLUS 5K35AMX™*	244.6	17.2	92	59.0	31
CATALYST 6216 3111A	239.5	18.8	100	54.2	35
POWER PLUS 4J95AMX™*	236.1	16.9	98	58.2	35
POWER PLUS 2N82AM™*	225.3	15.7	100	56.5	32
Average	246.5	18.4	99	57.2	34

High performance alfalfa forage solutions

214FY BRAND ALFALFA is a high forage yielding, persistent alfalfa with excellent quality potential. It expresses quick re-growth after cutting to maximize the growing season. 214FY performs best in high producing, well-drained soils. It has a solid disease, insect, and nematode resistance package that helps defend itself in adverse environments. 214FY is an alfalfa variety for the dairy or beef producer that demands high tonnages of dairy quality forage.

388HY HYBRID ALFALFA represents an improvement in hybrid alfalfa using the patented msSunstra Hybrid Alfalfa Technology! This product has familiar hybrid characteristics like dense stands with fine-stemmed herbage and fast recovery, but it comes with an exceptional boost in yield. This fine stem characteristic makes a dense, attractive alfalfa bale. For the highest yields of high quality forage, 388HY is the variety of choice.

Features
- Consistent high forage yield
- Rapid recovery after harvest
- Excellent disease resistance
- Very dense, persistent stands
- Fine stems
- Uniform growth habit

Benefits
- Dependability of forage supply
- Better use of growing season
- Broad adaptability
- Better weed control
- Attractive forage bales
- Easier to manage consistent forage quality

Product Lead Josh Gunther and wife, Brittany welcomed Berkley Lee in July. Josh is responsible for finding which experimental hybrids are “keepers.” Berkley is definitely a “keeper!”

Jolyssa Coston enjoyed her first year of 4-H in Nodaway Co., MO. Grandpa Jerry & Uncle James Downing were glad to lend a hand.

AGRONOMIC SUMMARY	214FY
Bacterial Wilt	HR
Fusarium Wilt	HR
Phytophthora Root Rot	HR
Verticillium Wilt	HR
Anthracnose (Race 1)	HR
Aphanomyces Root Rot (Race 1)	HR
Aphanomyces Root Rot (Race 2)	R
DRI	34/35
Stem Nematode	R
Northern Root-knot Nematode	HR
Pea Aphid	R
Blue Alfalfa Aphid	MR
Winter Survival	1.9*
Root Type	TAP
Fall Dormancy	4.1*
Cutting Recovery	8.0*
Forage Yield Level	8.4*
Forage Quality	8.0*
Wheel Traffic	7.5*

*10 is best, 1 is poorest

AGRONOMIC SUMMARY	388HY
Bacterial Wilt	HR
Fusarium Wilt	HR
Phytophthora Root Rot	HR
Verticillium Wilt	HR
Anthracnose (Race 1)	HR
Aphanomyces Root Rot (Race 1)	HR
Aphanomyces Root Rot (Race 2)	MR
DRI	33/35
Stem Nematode	HR
Northern Root-knot Nematode	HR
Winter Survival	1.8*
Root Type	TAP
Fall Dormancy	4.0*
Crown Depth	Ave.
Fitness of Stem	Fine

HR = High resistance
MR = Medium resistance
R = Resistant

MCDONOUGH

Power Plus® 4J93AM™* brand wins at 249 bu/a

Doug Thorman
Macomb, IL

Planted: April 15 in 30" rows. **Planting Population:** 34,000. **Harvested:** September 27. **Previous Crop:** Soybeans. **Fertilizer:** N: 150, P: 100 , K: 300. **Herbicide:** Harness Xtra,, Armezon, Atrazine. **Insecticide:** Aztec w/ planter, Fortix, SmartTrio. **Soil Type:** Loam. **Weather:** May–wet, June–dry, July–wet, August–normal. **✓Check Hybrid:** Power Plus 4J90™* **Remarks:** Non GMO third party plot.

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.
✓CHECK	238.8		18.5	60.1
POWER PLUS 4J93AM™*	**249.0**	**1**	**18.1**	**59.5**
✓CHECK	238.9		16.5	59.7
Prairie 5879	226.7	4	16.5	62.2
✓CHECK	239.7		17.0	61.3
Prairie 6212	199.6	9	19.1	20.8
✓CHECK	242.9		16.8	59.7
ProHarvest 8063	220.2	8	17.1	59.8
✓CHECK	246.8		16.5	59.7
Prairie 7204	222.9	6	19.3	59.7
✓CHECK	242.6		16.3	59.5
Prairie 7355	231.0	5	17.9	58.0
✓CHECK	245.9		16.5	59.7
ProHarvest 8244	236.0	3	16.9	60.7
✓CHECK	243.0		16.6	59.7
ProHarvest 8330	238.4	2	17.3	61.3
✓CHECK	243.7		16.5	59.7
BURRUS 6Q60	**220.1**	**7**	**18.3**	**58.0**
Average	234.8		17.3	57.7
Check Average	242.5		16.8	59.9

MCHENRY

Power Plus® 4J90™* brand is first at 251.7 bu/a

DJ Farms
Marengo, IL

Planted: April 26 in 30" rows. **Planting Population:** 30,000. **Harvested:** October 19. **Previous Crop:** Corn. **Herbicide:** Volley ATV, Capreno. **Soil Type:** Heavy loam.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.
POWER PLUS 4J90™*	**251.7**	**19.2**	**58.9**
Channel 209-53STX	247.8	19.7	58.5
AgriGold A6499	246.3	18.9	60.9
AgriGold A6441STX	245.3	17.9	58.8
Pioneer P0825AMXT	243.8	18.7	56.8
Yield Direct 4L59	243.6	18.6	58.5
Wyffels W4960	241.7	17.2	59.9
Channel 207-27STX	241.1	19.3	57.7
Channel 205-19STX	240.5	16.9	58.8
OMG 5M14	238.7	18.6	56.6
Wyffels W6480	238.6	18.0	57.9
POWER PLUS 3H85AMX™*	**238.3**	**16.9**	**59.6**
AgriGold A6413STX	237.0	17.3	61.1
OMG 5M71	236.7	17.7	58.9
AgriGold A6488VT2	235.7	18.7	58.8
Wyffels W7110	235.4	18.6	58.9
POWER PLUS 2Y06AM™*	**235.1**	**17.9**	**58.7**
FS InVision 58J00	233.8	18.6	59.1
AgriGold A6300	233.3	16.2	59.1
Pioneer P1197AMXT	233.1	19.6	57.8
AgriGold A6167STX	232.4	17.0	58.8
Dekalb DKC54-38RIB	231.4	17.1	58.8
POWER PLUS 2R67™*	**228.3**	**17.1**	**60.0**
POWER PLUS 2R67™*	**227.4**	**17.7**	**58.0**
AgriGold A6424GT3	227.2	18.1	58.3
Axis 54T54 SS	226.8	16.1	59.8
FS InVision 54A00	225.3	17.3	58.1
OMG 4L36	223.5	18.4	56.9
FS InVision 60D00	217.8	18.7	58.4
Axis 60B04	217.5	19.3	58.1
POWER PLUS 5N48™*	**217.5**	**18.5**	**60.4**
Axis 60N56 SS	213.0	20.4	57.3
AgriGold A6346STX	213.0	18.1	59.1
Average	233.3	18.1	58.7

Dave & Jim Vanderstappen
Hebron, IL

Planted: May 10 in 30" rows. **Planting Population:** 36,000. **Harvested:** October 18. **Previous Crop:** Soybeans. **Herbicide:** Roundup, Kadet. **Insecticide:** Force 3g. **Soil Type:** Heavy loam.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.
Croplan 4099SS/RIB	235.8	18.9	58.3
Croplan 4099SS/RIB	235.3	19.5	58.4
POWER PLUS 2F91AMXT™*	**234.5**	**21.0**	**60.3**
Croplan 4099SS/RIB	233.1	19.1	58.1
POWER PLUS 2F91AMXT™*	**232.8**	**20.8**	**60.2**
POWER PLUS 2F91AMXT™*	**228.9**	**21.0**	**59.9**
Average	233.4	20.0	59.2

Gary Aavang
Woodstock, IL

Planted: April 24 in 30" rows. **Harvested:** October 18. **Previous Crop:** Soybeans. **Herbicide:** Lexar, Credit Xtreme + Status. ✓**Check Hybrid:** AgriGold A6441STX

Brand/Product	Bu. Per Acre	Rank	% Moisture
Channel 207-27STX	248.9	1	21.2
AgriGold 6441STX	247.1	2	20.5
AgriGold 6441STX	246.6	3	20.2
POWER PLUS 2Y06AM™*	**240.7**	**4**	**19.3**
AgriGold 6441STX	240.6	5	20.2
AgriGold 6441STX	236.2	6	20.2
Curry 826-64AMX	235.7	7	19.3
Golden Harvest 07F23-3111	231.2	8	19.8
Pioneer 0825AMXT	230.7	9	20.1
Curry 824-32AMX	230.1	10	19.7
AgriGold 6413STX	227.7	11	19.6
Channel 205-19STX	227.5	12	19.5
AgriGold 6424GT3VIP	225.3	13	20.5
Curry XC1605	225.1	14	18.9
Pioneer 0339AMXT	225.1	14	19.4
Pioneer 0760AMXT	224.1	16	18.8
Golden Harvest 03C84-3010	223.9	17	19.1
AgriGold 6351STX	221.4	18	19.6
Becks 5337SX	219.4	19	19.2
Curry XC1501	219.3	20	18.8
POWER PLUS 1G48AMXT™*	**218.0**	**21**	**18.5**
Golden Harvest 03A50-3010	217.7	22	19.1
Pioneer 0589AMXT	214.6	23	19.4
POWER PLUS 2B77AMXT™*	**211.8**	**24**	**19.0**
AgriGold 6346STX	210.6	25	20.4
Becks 5234AMXT	207.8	26	19.0
Channel 197-68STX	202.1	27	19.1
Average	226.3		19.6

MERCER

COMPARE

Scott Olson
Joy, IL

CORN ON CORN

Planted: May 13 in 30" rows. **Planting Population:** 34,000. **Harvested:** October 10. **Previous Crop:** Corn. **Herbicide:** Atrazine, Harness, Roundup, Status. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–wet, June–wet, July–normal, August–normal.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.
POWER PLUS 6C41 S™*	**238.4**	**21.1**	**61.3**
POWER PLUS 6L45AMT™*	**227.2**	**18.9**	**59.7**
CATALYST 5009 3220	**218.7**	**18.0**	**58.0**
CATALYST 6216 3111A	**218.6**	**18.8**	**55.7**
POWER PLUS 5K33AM™*	**212.5**	**19.2**	**58.7**
POWER PLUS 6F74AMX™*	**212.2**	**19.7**	**61.9**
BURRUS 6T54 3000GT	**211.0**	**20.9**	**58.2**
POWER PLUS 4J99 R™*	**209.3**	**19.1**	**60.7**
POWER PLUS 4J93AM™*	**208.6**	**19.2**	**58.7**
POWER PLUS 6P73AM™*	**207.1**	**19.2**	**58.7**
POWER PLUS 2B77AMXT™*	**204.4**	**17.3**	**60.3**
POWER PLUS 5K35AMX™*	**202.2**	**19.2**	**59.7**
POWER PLUS 6P75AMX™*	**200.4**	**20.5**	**59.2**
POWER PLUS 3H85AMX™*	**196.9**	**18.1**	**59.5**
POWER PLUS 5C17AMXT™*	**191.1**	**19.5**	**59.9**
POWER PLUS 4J95AMX™*	**188.3**	**19.2**	**58.7**
Average	209.2	19.2	59.3

SEED CORN TECHNOLOGY REVIEW

Technology	ECB Trait	CRW Trait	Broad Lep	Herbicide RR	Herbicide LL	Refuge Requirements	Different insects controlled by technology: ECB	CRW	BCW	FAW	CEW	WBC	SB
Optimum® AcreMax® XTreme **(AMXT)**	■■	●●		x	x	5% IR	C	C	C	C	S	S*	C
Optimum® Intrasect® XTreme **(CYXR)**	■■	●●		x	x	20% IR	C	C	C	C	S	S*	C
Optimum® AcreMax® Xtra **(AMX)**	■■	●		x	x	10% IR	C	C	C	C	S	S*	C
Optimum® AcreMax® Xtra **(AMX-R)**	■■	●		x		10% IR	C	C	C	C	S	S*	C
Optimum® AcreMax® TRIsect® **(AMT)**	■■	●		x	x	10% IR	C	C	C	C	S	S*	C
Optimum® Intrasect® Xtra **(YXR)**	■■	●		x	x	20%	C	C	C	C	S	S*	C
Optimum® TRIsect® **(CHR)**	■	●		x	x	20%	C	C	C	C	S	S*	C
Optimum® AcreMax® **(AM)**	■■			x	x	5% IR	C	NoA	C	C	S	S*	C
Optimum® AcreMax® **(AM-R)**	■■			x		5% IR	C	NoA	C	C	S	S*	C
Herculex® XTRA/RR **(HXX/RR/Q)**	■	●		x	x	20%	C	C	C	C	S	S*	C
Herculex® XTRA **(HXX)**	■	●			x	20%	C	C	C	C	S	S*	C
Herculex® 1 **(HX1/RR/S)**	■			x	x	*20%	C	NoA	C	C	S	S*	C
Optimum® AcreMax® 1 **(AM1)**	■	●		x	x	*20%	C	C	C	C	S	S*	C
Optimum® AcreMax® RW **(AMRW-R)**		●		x		10%	NoA	C	NoA	NoA	NoA	NoA	NoA
Optimum® Intrasect® 1 **(YHR)**	■■			x	x	*5%	C	NoA	C	C	S	S*	C
Agrisure Duracade® 5222 E-Z Refuge®	■■	●○	◆	x		5% IR	C	C	C	C	C	C	C
Agrisure Duracade® 5122 E-Z Refuge®	■■	●○		x		5% IR	C	C	C	C	S	S*	C
Agrisure® 3122 E-Z Refuge®	■■	●●		x		5% IR	C	C	C	C	S	S*	C
Agrisure Viptera® 3111	■	●	◆	x	x	20%	C	C	C	C	C	C	C
Agrisure® 3000GT	■	●		x	x	20%	C	C	NoA	S	S	NoA	S
Agrisure Viptera® 3220 E-Z Refuge®	■■		◆	x		5% IR	C	NoA	C	C	C	C	C
Agrisure Viptera® 3110	■		◆	x	x	*20%	C	NoA	C	C	C	C	C
Agrisure® 3010	■			x	x	*20%	C	NoA	NoA	S	S	NoA	S
Refuge Advanced® Powered by SmartStax®	■□	●●		x	x	5% IR	C	C	C	C	C	S*	C
Genuity® SmartStax® **(GENSS)**	■□	●●		x	x	5% IR	C	C	C	C	C	S*	C
Genuity® VT Triple PRO® **(GENVT3P)**	□	●		x		10% IR	C	C	NoA	C	C	NoA	C
YieldGard VT Triple® **(VT3)**	■	●		x		20%	C	C	NoA	S	S	NoA	S
Genuity® VT Double PRO® **(GENVT2P)**	□			x		*5% IR	C	NoA	NoA	C	C	NoA	C
PowerCore™ Enlist™**	■□			x		5%	C	NoA	C	C	C	S*	C

EVENT (Protein Expressed, Insect Target)

- ■ TC1507 (Cry1F, ECB)
- ■ MON 810 (Cry1Ab, ECB)
- ■ BT11 (Cry1Ab, ECB)
- □ MON89034 (Cry1A.105 + Cry2Ab2, Broad Lep)
- ● DAS-59122-7 (Cry34Ab1/Cry35Ab1, CRW)
- ● MIR604 (mCry3A, CRW)
- ● MON88017 (Cry3Bb1, CRW)
- ○ Event 5307 (eCry3.1Ab, CRW)
- ◆ MIR162 (Vip3Aa, Broad Lep)

CORN BELT REFUGE GUIDELINES

5% is single bag refuge with refuge blended in the bag, no separate refuge needed

***5%** non B.T. refuge must be within 1/2 mile of the field

10% is single bag refuge with refuge blended in the bag, no separate refuge needed

10% & 20% means 10% of CRW refuge is blended in the bag plus 20% non-B.T. refuge for ECB must be within 1/2 mile from the field

20% non-B.T. refuge must be within field or directly adjacent

***20%** non-B.T. refuge must be within 1/2 mile of the field

ECB - European corn borer
CRW - Corn rootworm
BCW - Black cutworm
FAW - Fall armyworm
CEW - Corn earworm
WBC - Western bean cutworm
SB - Common stalk borer
S* - Western Bean Cutworm in certain geographies is no longer controlled by this trait
C - Control of the insect
S - Suppression of the insect
NoA - No activity on the insect

x - Includes herbicide tolerance
RR - Roundup Ready (Glyphosate)
LL - Liberty Link (Glufosinate)
IR - Integrated Refuge

**2,4-D and FOP resistance

Cousins Catey Virgin & Maddox Reedy enjoy rooting for Burrus Seed and the Fighting Illini.

Vanderstappen Farms saw Croplan edge out Power Plus® by a smidgeon in McHenry Co.

Kenzie, Lexi & Chase Olson enjoyed Power Plus® 6C41 S™* & Power Plus® 6L45AMT™* above 225 bu/a, corn-on-corn in Mercer Co.

Power Plus® 6P75AMX™* made 239 bu/a in Logan Co. for Charlie, Ashley, Alex & Dan Folkes.

Todd Burrus helped Dick Moran plant his Kankakee Co. plot on May 6th. Power Plus® 6L45AMT™* won at over 208 bu/a.

Tim Greene, Matt Zachariah and Jordan Watson celebrate as Matt was named Missouri Dealer of the Year.

Power Plus® 6P75AMX™* goes 280.8 bu/a in Hancock Co. for Richard & Larry Douglas.

Tim & Brian Bolton & Tim Dickerson saw the Hancock Co. plot average 230 bu/a at 14.9%.

The perfect storm for stalk rot

by Stephanie Porter

If early in the season or before pollination, we have low to no stress (plenty of moisture and nitrogen), it sets up the potential for high yields. Then, if some stress or problem interrupts the photosynthesis of the corn plant after pollination, this could create the perfect storm for stalk rot. The problem is that stressed plants make less sugar and the developing ear takes priority. The amount of sugar needed for each ear will depend on the kernel number or yield potential. Unfortunately, root and stalk tissue have lower priority and under stress, these tissues that receive less sugar can weaken.

Plant stresses that can occur:

- Disease (gray leaf spot, Northern corn leaf blight, Goss's wilt)
- Drought
- Lack of sunlight
- High plant populations – competition for light/reduced stalk size
- Wind and hail injury
- Corn rootworm
- European corn borer (2nd generation)
- Corn nematodes
- Hybrid differences – high ear placement or stalk/rind strength
- Extremes in soil moisture (lack of O_2 or root rot)
- Nutrient deficiency – low N or high N, with low K causes premature stalk death

If a corn plant is under stress, a stalk rot fungal pathogen can infect and cause disease. Some common stalk rot pathogens are anthracnose, diplodia, *Fusarium*, *Gibberella*, and charcoal rot. Once infected, a corn plant can start to shut down and can appear a dull gray/green in color. Leaves can start to turn brown in 1 to 2 days and lower stalks turn from green to a tan/brown. If you split stalks, there can be discoloration near nodes and the inner pith of the stalk can appear disintegrated. Stalk rots can reduce yields from 5 to 20% because of poorly filled or finished ears due to premature corn deaths, harvest loss or an increase in ear rots.

What can be done to prevent stalk rot? Burrus Dealer Jeff Busch in LaSalle Co., IL knows after pollination, the corn yield potential is set. He can't add to the yield potential, but he can still try to preserve the yield potential. Jeff works to prevent leaf loss or stress at tassel or during grain fill by starting with a nutrient program combined with precision seeding to ensure a correct population. His corn is never lacking for nitrogen and he even uses a starter fertilizer on some corn acres. A corn/soybean rotation helps Jeff not only reduce disease pathogens, but also rootworm and corn nematodes. Soil insecticide or Bt traits are also used to combat rootworm and corn borer. Unfortunately, there are some things growers cannot control, such as the weather. The further north you go, the higher the chance for cloudy days later in the season. This year, like others, the Busch farm did experience heavy winds that caused goosenecking, but overall the standability of their corn was good.

With more than an abundance of rain this year, drainage is key. The main thing Jeff does is apply fungicides, not on all his corn acres, but on susceptible hybrids at tassel. This is not only to preserve yield but to aid in standability.

Brant, Staci & Hannah Sell saw Power Plus® 4J95AMX™* roll out 254 bu/a in Mercer Co. Congrats to Hannah as she had the 2016 Grand Champion market lamb at the Mercer Co. open show!

Jeff Busch keeps careful farm records and is never without an iPad on his farm in LaSalle Co., IL to ensure his corn yield potential is preserved.

MERCER

Power Plus® 4J95AMX™brand* at 254 bu/a

Brant Sell
New Boston, IL

Planted: April 13 in 30" rows. **Planting Population:** 33,600. **Harvested:** October 10. **Previous Crop:** Soybeans. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–wet, June–wet, July–wet, August–normal.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.
POWER PLUS 4J95AMX™*	254.1	14.9	58.0
POWER PLUS 6L45AMT™*	246.7	18.0	60.0
BURRUS 6T54 3000GT	240.8	17.7	59.4
POWER PLUS 5C17AMXT™*	234.9	16.5	60.2
CATALYST 6216 3111A	232.8	15.9	57.0
POWER PLUS 6F74AMX™*	229.3	16.7	63.2
POWER PLUS 6P75AMX™*	229.1	18.1	60.5
POWER PLUS 5K35AMX™*	214.6	16.3	59.0
Average	235.3	16.8	59.7

MONROE

Chris Howell
Columbia, IL

Planted: April 15 in 30" rows. **Planting Population:** 32,000. **Harvested:** September 20. **Previous Crop:** Wheat. **Fertilizer:** N: 197, P: 92 , K: 150. **Herbicide:** Roundup, 2-4D, Degree Xtra, Atrazine. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–normal, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	1000 Plants /Acre
POWER PLUS 6P73AM™*	230.9	15.4	99	32
BURRUS 878207	223.7	16.0	100	32
POWER PLUS 6C41 S™*	223.4	17.1	100	30
POWER PLUS 4J99 R™*	213.6	15.8	99	35
BURRUS 926331	211.2	16.7	88	32
BURRUS 502792	210.0	15.8	100	32
POWER PLUS 7H23 S™*	208.7	16.1	72	31
BURRUS 480264	205.2	16.6	100	32
BURRUS 644188	201.3	16.3	90	34
BURRUS 6T54 3000GT	199.3	16.6	100	31
CATALYST 7577 3010	198.9	16.0	98	32
POWER PLUS 5K33AM™*	198.3	15.9	99	34
POWER PLUS 4J93AM™*	197.4	15.4	100	30
POWER PLUS 6L45AMT™*	197.3	16.6	96	33
BURRUS 791838	196.9	15.2	96	32
CATALYST 7893 3111	192.8	17.1	90	32
POWER PLUS 5K35AMX™*	191.0	15.4	100	32
CATALYST 6216 3111A	190.6	15.7	100	32
CATALYST 5009 3220	189.3	15.1	100	34
POWER PLUS 6N83AM™*	189.0	15.9	96	30
BURRUS 995336	184.9	15.4	96	31
BURRUS 179401	183.5	16.2	99	27
BURRUS 130796	182.6	15.9	100	27
POWER PLUS 6F74AMX™*	179.2	15.9	98	30
POWER PLUS 2N82AM™*	179.0	14.7	98	30
BURRUS 460220	175.9	16.7	86	28
Average	198.2	16.0	96	31

Chris Howell
Columbia, IL

Planted: April 19 in 30" rows. **Planting Population:** 32,000. **Harvested:** September 22. **Previous Crop:** Soybeans. **Fertilizer:** N: 190, P: 100 , K: 60. **Herbicide:** Roundup, Simazine, Degree Xtra. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–normal, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6C41 S™*	214.9	15.8	60	56.0	34
BURRUS 6T54 3000GT	204.2	15.6	70	54.0	30
POWER PLUS 6F74AMX™*	198.7	15.4	70	55.0	33
POWER PLUS 6N83AM™*	198.6	15.1	80	57.0	31
CATALYST 6216 3111A	196.1	15.8	70	51.0	35
CATALYST 7577 3010	186.0	14.5	70	56.0	28
CATALYST 5009 3220	185.0	15.0	80	53.0	33
POWER PLUS 5K33AM™*	178.4	14.4	50	55.0	32
Average	195.2	15.2	69	54.6	32

MORGAN

10 bu/a less than 2015

Burrus Seed Farms
Arenzville, IL

Planted: April 5 in 30" rows. **Planting Population:** 33,700. **Harvested:** September 13. **Previous Crop:** Corn. **Fertilizer:** N: 200, P: VR, K: VR. **Herbicide:** Armezon, Aatrex, Prowl. **Insecticide:** Aztec. **Soil Type:** Silt loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6F71 R™*	258.9	21.5	100	59.7	29
POWER PLUS 7H20™*	247.4	19.7	100	58.8	32
POWER PLUS 6P73AM™*	230.4	20.3	100	58.3	35
CATALYST 7577 3010	226.8	23.0	100	66.7	31
POWER PLUS 5N48™*	226.3	19.5	100	60.9	36
POWER PLUS 4J99 R™*	226.2	20.3	100	59.9	35
POWER PLUS 4J90™*	223.8	20.4	100	59.7	30
POWER PLUS 4J93AM™*	222.1	19.6	100	57.6	33
POWER PLUS 6C41 S™*	221.8	23.5	100	59.6	34
POWER PLUS 5K35AMX™*	217.5	19.7	100	58.7	33
POWER PLUS 6L45AMT™*	216.5	23.7	100	57.8	35
BURRUS 6Q60	213.1	21.0	100	57.3	31
POWER PLUS 5K33AM™*	213.0	19.4	100	58.4	33
BURRUS 6T54 3000GT	210.5	23.6	100	56.7	29
POWER PLUS 7H23 S™*	210.4	21.6	100	58.1	28
POWER PLUS 6C40™*	210.2	21.6	100	60.2	31
POWER PLUS 6N83AM™*	208.3	20.4	100	58.0	32
POWER PLUS 7A18 Q™*	206.6	22.5	100	59.3	33
BURRUS 6T51 GT	206.5	21.9	100	57.1	28
CATALYST 6216 3111A	205.1	21.9	100	52.9	31
POWER PLUS 3H85AMX™*	204.3	17.8	100	58.8	34
POWER PLUS 4J95AMX™*	203.2	19.6	100	57.6	35
POWER PLUS 6P75AMX™*	199.5	22.1	100	56.1	28
POWER PLUS 6F74AMX™*	199.3	20.8	100	60.5	33
POWER PLUS 5C17AMXT™*	198.9	19.5	100	58.6	35
CATALYST 5009 3220	188.2	18.7	100	56.9	33
POWER PLUS 2N82AM™*	166.0	17.1	100	57.3	28
Average	213.4	20.8	100	58.6	32

Power Plus® 6P75AMX™* brand & Power Plus® 5C17AMXT™* brand above 250 bu/a

COMPARE

Ronald Smith
Ashland, IL

Planted: April 16 in 30" rows. **Planting Population:** 36,000. **Harvested:** September 14. **Previous Crop:** Soybeans. **Corn Borer Rating:** Moderate. **Soil Type:** Loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **Remarks:** Corn Borer rating only on Power Plus 4J99 R™*.

Brand/Product	Bu. Per Acre	% Moisture	1000 Plants /Acre
POWER PLUS 6P75AMX™*	**255.1**	**20.2**	**34**
POWER PLUS 5C17AMXT™*	**251.1**	**19.6**	**33**
Dekalb 64-34	249.0	21.5	33
Dekalb 64-87	245.4	20.2	32
Dekalb 62-77	245.4	18.9	34
POWER PLUS 6L45AMXT™*	**244.2**	**21.2**	**33**
BURRUS 6T54 3000GT	**243.8**	**19.1**	**34**
Dekalb 66-74	243.4	20.2	33
POWER PLUS 4J95AMX™*	**242.8**	**19.1**	**33**
Pro Harvest 8150	240.7	17.1	33
Dekalb 63-71	239.1	19.7	32
POWER PLUS 4J95AMX™*	**235.6**	**18.2**	**33**
POWER PLUS 6F74AMX™*	**235.2**	**19.0**	**32**
Dekalb 61-54	229.2	18.7	34
POWER PLUS 4J99 R™*	**225.2**	**19.2**	**34**
Average	241.7	19.5	33

Ron Staake
Meredosia, IL

Planted: April 7 in 30" rows. **Planting Population:** 36,000. **Harvested:** September 11. **Previous Crop:** Soybeans. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture
Dekalb 67-72 GENVT2PRIB	258.0	23.9
Dekalb 64-87 GENSS RIB	252.0	21.2
Dekalb 62-77 GENSS RIB	249.9	19.5
POWER PLUS 5C17AMXT™*	**248.9**	**19.5**
POWER PLUS 6P75AMX™*	**248.4**	**21.9**
Dekalb 66-59 GENVT2PRIB	246.8	21.8
BURRUS 6T54 3000GT	**246.5**	**22.1**
Dekalb 63-71 GENSS RIB	245.2	20.3
Dekalb 58-06 GENSS RIB	243.7	19.2
Dekalb 63-60 GENSS RIB	241.1	21.1
POWER PLUS 5K35AMX™*	**240.1**	**20.7**
POWER PLUS 6L45AMT™*	**231.8**	**19.8**
POWER PLUS 4J95AMX™*	**229.8**	**20.4**
Average	244.8	20.9

OGLE

CORN ON CORN

Bettner Farms
Oregon, IL

Planted: April 20 in 30" rows. **Planting Population:** 32,000. **Harvested:** September 26. **Previous Crop:** Corn. **Fertilizer:** N: 200, P: 125 , K: 125. **Herbicide:** Corvus, Roundup. **Soil Type:** Medium Clay. **Weather:** May–wet, June–normal, July–wet, August–wet. ✓**Check Hybrid:** Power Plus 6F74AMX™*

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.	1000 Plants /Acre
✓CHECK	193.0		25.8	59.4	32
POWER PLUS 2F91AMXT™*	**192.7**	**8**	**23.4**	**59.2**	**32**
POWER PLUS 2B77AMXT™*	**231.8**	**3**	**21.2**	**60.3**	**32**
POWER PLUS 3H85AMX™*	**239.8**	**1**	**22.9**	**58.6**	**32**
POWER PLUS 4J95AMX™*	**237.0**	**2**	**25.1**	**59.8**	**32**
✓CHECK	235.4		25.0	57.3	33
POWER PLUS 5K35AMX™*	**241.7**	**5**	**26.1**	**58.0**	**32**
POWER PLUS 5C17AMXT™*	**236.5**	**6**	**26.7**	**58.2**	**32**
BURRUS 6T54 3000GT	**225.8**	**7**	**29.1**	**58.3**	**32**
POWER PLUS 6P75AMX™*	**243.8**	**4**	**26.0**	**56.5**	**34**
✓CHECK	231.4		23.3	58.2	32
Average	228.1		25.0	58.5	32
Check Average	219.9		24.7	58.3	32.7

Power Plus® 3H85AMX™* ranked #1 in Ogle Co. for Ed Bettner.

Burrus AM Justin Breese and his daughter Zoey enjoyed helping with harvest for Reum Farms in Ford Co.

Our independence means more choices for you

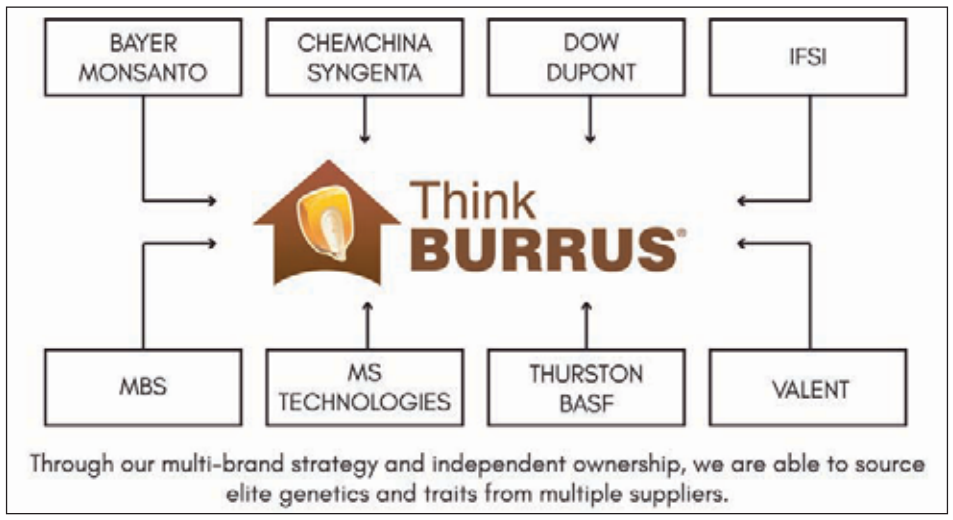
At Burrus Seed, retaining our independent ownership grants us access to the industry's premier corn and soybean genetics to fit the way you farm. In order to ensure we are offering the best, we enter into strategic alliances with major companies and together, supply the best research answers for improving the corn and soybean yields of Burrus growers. Although our multi-brand strategy empowers growers with more choices and therefore higher profit potential, we maintain our responsive local service that you expect from the Burrus team.

The result of our multi-brand approach is simple; we give local growers access to the country's best germplasm and industry leading traits. While national giants can only offer the products that average the highest, Burrus provides the highest performing products for your acres. By not restricting customers to a single trait platform, growers are able to rotate traits and genetics to increase their year-to-year yield potential.

Most single suppliers can't match the choice of products and services available through Burrus. Preserve your farm for generations to come by rotating modes of action to avoid resistant weeds and insects. Depend on our team and products to help you create a sustainable model for your operation.

When Tom and Todd Burrus drive past the farm their great-grandmother bought nearly 100 years ago, they hope that their grandchildren will still be operating it for the next 100 years. This is a mindset that looks far beyond what the highest return will be this year. It is a mindset that our growers can understand.

First started in 1935, Burrus family members are still running the company four generations later. It isn't easy to remain independently owned for over 80 years in an industry as competitive and unpredictable as the seed business, but at Burrus Seed, we know the value of our independence to both the success of our company and your growing operation. While the seed industry changes each year, what we stand for has not. Plant Burrus. Plant your legacy.



Through our multi-brand strategy and independent ownership, we are able to source elite genetics and traits from multiple suppliers.

Calling all college students

Each year, Burrus hires local high school and college students to assist with detasseling. Burrus also offers three different paid summer internship programs for college students in their sophomore year and above. "I would recommend the internship program to anyone. The Burrus family cares for their interns just as they would any other employee. That is why I will always proudly Think Burrus," said Nat Harder, a 2016 sales intern from Missouri. To learn about our 2016 interns, visit the Think Burrus blog. If you are interested in applying for a summer internship, submit your resume to Burrus Sales Manager, Brian Reed, at brian.reed@burrusseed.com.

Agronomy Internship
- Work on test plots
- Scout fields
- Pest identification
- Work directly with Sales Agronomists

Sales Internship
- Reserved for college sophomores and juniors for employment in your junior and senior years
- Build new lead database
- Learn the sales process

Production Internship
- Daily interaction with customers and sales team
- Attend key Burrus selling events throughout the summer

Burrus sales team members Ryne Brewer, Paige Ehnle, Pete George and Brian Reed recruiting new interns at Illinois State University.

burrusseed.com — MAKE IT YOUR HOMEPAGE!

PEORIA

Peoria County Plot-Brimfield Ag
Laura, IL

Planted: April 20 in 30" rows. **Planting Population:** 34,500. **Harvested:** September 26. **Previous Crop:** Soybeans. **Soil Type:** Heavy loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.
Wyffels 8268	265.9	19.5	60.4
Pioneer 1197AMXT	263.3	19.1	58.1
Pioneer 1311AMXT	259.1	19.0	57.4
Wyffels W6946	257.5	18.5	60.1
Dekalb 6301	257.4	18.8	60.0
Becks 6165	257.0	18.1	61.4
Golden Harvest G14R38 3122	252.5	21.0	60.5
Stone 6378	252.4	17.6	60.1
Stone 6448	251.9	19.9	62.5
Agrigold 6499	250.5	19.1	60.9
NuTech 5L015	247.7	19.1	61.5
POWER PLUS 4J95AMX™*	**245.8**	**18.6**	**60.4**
Dekalb 5806	244.8	17.0	59.1
NuTech 5F308	243.3	17.1	61.8
Wyffels W6946	242.9	18.5	59.5
Great Lakes 6068	241.3	18.7	58.7
POWER PLUS 5C17AMXT™*	**240.3**	**18.7**	**62.2**
Wyffels 7108	239.5	17.2	58.8
Becks 6076	236.7	16.8	59.9
Agrigold 6442	236.0	18.3	59.7
Golden Harvest G11F16 3111A	235.8	18.5	58.9
Great Lakes 5566	217.4	15.0	60.3
Average	247.2	18.4	60.1

PIKE

Dave Lageman
Pearl, IL

Planted: April 18 in 30" rows. **Planting Population:** 29,777. **Harvested:** October 4. **Previous Crop:** Soybeans. **Fertilizer:** N: 155, P: 150 , K: 100. **Herbicide:** Atrazine, Halex GT. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–normal.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 7H23 S™*	**221.2**	**16.5**	**98**	**61.7**	**32**
POWER PLUS 5C17AMXT™*	**217.7**	**16.0**	**100**	**62.0**	**29**
POWER PLUS 6P75AMX™*	**210.1**	**16.3**	**100**	**59.0**	**31**
POWER PLUS 7U15AM-R™*	**207.2**	**16.8**	**100**	**60.7**	**31**
POWER PLUS 5K35AMX™*	**205.0**	**16.2**	**100**	**60.5**	**32**
BURRUS 6T54 3000GT	**203.1**	**16.1**	**100**	**59.5**	**31**
POWER PLUS 6N83AM™*	**202.9**	**16.4**	**99**	**61.5**	**32**
POWER PLUS 6L45AMT™*	**200.2**	**16.2**	**99**	**60.5**	**32**
POWER PLUS 5K33AM™*	**199.0**	**16.7**	**97**	**60.7**	**30**
POWER PLUS 6P73AM™*	**195.0**	**16.4**	**99**	**60.0**	**32**
POWER PLUS 4J95AMX™*	**191.1**	**16.0**	**100**	**59.5**	**32**
Average	204.8	16.3	99	60.5	31

Richard Feeler, Zach Borchers, Quinn Moller, Dakota Borchers, Brent Frump & Paige Ehnle plant a plot in Iroquois Co.

SANGAMON

Curtis Biesenthal
New Berlin, IL

Planted: April 19 in 30" rows. **Planting Population:** 34,000. **Harvested:** September 24. **Previous Crop:** Soybeans. **Fertilizer:** N: 200, P: 115 , K: 150. **Herbicide:** Bicep. **Corn Borer Rating:** Heavy. **Soil Type:** Heavy loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **✓Check Hybrid:** Catalyst 4685 3111

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.	1000 Plants /Acre
✓CHECK	218.4		18.8	100	30
POWER PLUS 4J95AMX™*	**209.2**	**9**	**17.4**	**100**	**28**
POWER PLUS 4J99 R™*	**226.9**	**1**	**18.2**	**100**	**28**
POWER PLUS 5C17AMXT™*	**205.5**	**11**	**17.9**	**100**	**29**
POWER PLUS 5K35AMX™*	**225.7**	**3**	**17.9**	**100**	**28**
✓CHECK	222.6		18.0	100	28
CATALYST 6216 3111A	**220.1**	**8**	**19.1**	**100**	**30**
POWER PLUS 6L45AMT™*	**225.3**	**7**	**19.4**	**100**	**30**
BURRUS 6T51 GT	**227.3**	**5**	**19.0**	**100**	**28**
BURRUS 6T54 3000GT	**232.9**	**2**	**19.9**	**100**	**30**
POWER PLUS 6F74AMX™*	**214.7**	**10**	**19.3**	**100**	**30**
POWER PLUS 6P75AMX™*	**226.7**	**6**	**19.7**	**100**	**30**
POWER PLUS 7A18 Q™*	**229.4**	**4**	**20.3**	**100**	**30**
✓CHECK	230.7		18.5	100	30
Average	222.5		18.8	100	29
Check Average	223.9		18.4	100	29

MDM Farms
New Berlin, IL

Planted: April 17 in 30" rows. **Planting Population:** 36,500. **Harvested:** September 13. **Previous Crop:** Soybeans. **Herbicide:** Degree Xtra, Roundup. **Soil Type:** Silt loam. **✓Check Hybrid:** Dekalb DKC64-87RIB **Remarks:** Quilt Xcel applied July 9th.

Brand/Product	Bu. Per Acre	Rank	Adj. Test Wt.
✓Check	269.7		23.7
Dekalb DKC58-06RIB	252.3	14	23.1
Dekalb DKC61-54RIB	242.7	16	23.1
Dekalb DKC62-77RIB	259.3	9	22.2
✓Check	265.5		23.0
Dekalb DKC63-71RIB	274.7	1	23.2
Dekalb DKC63-60RIB	253.9	12	23.5
Dekalb DKC64-34RIB	268.1	2	23.6
Dekalb DKC66-74RIB	263.9	3	24.3
✓Check	263.6		24.0
Pioneer P1197AMXT	258.1	6	23.7
Pioneer P1311AMXT	256.4	8	23.5
Croplan 4895SSRIB	261.9	4	23.1
Croplan 6110SSRIB	254.5	11	22.9
Croplan 5290VT2PRO	261.4	5	22.0
Croplan 6594SSRIB	240.6	15	23.8
Croplan 5570VT2PRO	255.4	10	24.8
Croplan 7927VT3PRO	249.8	13	25.4
✓Check	262.7		22.9
POWER PLUS 6P75AMX™*	**257.3**	**7**	**22.9**
POWER PLUS 4J95AMX™*	**230.7**	**17**	**20.7**
Average	257.3		23.3
Check Average	265.4		23.4

David Allen, with his dad Burrus AM Jim, got this turkey during his first Youth Shotgun Turkey Hunt. Jim isn't a hunter but at David's urging they studied on YouTube. Congrats to both!

Flag the Technology

Introduced by the University of Arkansas, the Flag the Technology program is aimed to diminish chemical misapplications. Twenty years ago, all beans were conventional and growers could be relatively sure that a post-soybean herbicide was fair game for all beans in the marketplace. Today, we find ourselves at an interesting point in soybean weed management.

Over the next few growing seasons, we will continue to see a drastic increase in the number of LibertyLink® soybean acres, the launch of dicamba resistant Xtend® soybeans, and the launch of 2,4-D resistant Enlist™ E3 soybeans. It is very likely no one technology will dominate, but rather all will share the marketplace. If we can't solve the misapplication problem, what can we do? The answer is to flag it.

Yes, the grower is supposed to inform their chemical company where certain traits are located. However, in the interest of providing a failsafe, growers can also flag the primary entrance into the field. A color coding system is associated with each herbicide trait. By utilizing the flagging system, the applicator can double check that the product in the tank matches the trait in the field.

Burrus Seed has been employing the system and encourage our growers to do the same. Flags are easily purchased online from various suppliers. Reduce herbicide application errors and encourage responsible neighbor relationships with the Flag the Technology program.

- Red – Conventional (no herbicide tolerance)
- White – Roundup Ready® (glyphosate tolerance)
- Green – LibertyLink® (glufosinate tolerance)
- Checkered – Xtend® (dicamba tolerance)
- Teal and white – Enlist™ (2,4-D tolerance)
- Yellow – STS (ALS Tolerance)

The RR2 Xtend® flag is checkered, Glyphosate or Roundup Ready® is white, and the green flags are used for LibertyLink® soybeans. Reminds sprayer operators as well as neighbors of what technology is used.

Haley & Carson Reed enjoy the first Coon's Choice sweet corn of the season.

Emil Lagerhausen saw Power Plus® 6C41 S™* & Power Plus® 6P73AM™* roll out about 200 bu/a in Shelby Co.

Power Plus® 6P75AMX™* brand is 4th at 245 bu/a

COMPARE

Jim Lederbrand
Pawnee, IL

Planted: April 15 in 30" rows. **Planting Population:** 35,500. **Harvested:** September 22. **Previous Crop:** Soybeans. **Soil Type:** Medium loam. **Remarks:** *Side-dressed 15Gal UAN.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.
AgriGold A6499STXRIB	249.8	16.0	62.4
AgriGold A6659VT2RIB	249.6	18.2	56.1
AgriGold A6659VT2RIB *	247.8	16.8	62.1
POWER PLUS 6P75AMX™*	**245.2**	**15.7**	**59.2**
Dekalb DKC64-87RIB	244.6	15.9	59.5
Dekalb DKC64-87RIB *	242.6	15.8	60.8
Dekalb DKC63-71RIB *	241.4	15.2	60.4
Dekalb DKC63-60RIB	240.5	15.6	60.7
AgriGold A6499STXRIB *	239.6	15.7	61.2
Dekalb DKC62-77RIB	238.9	14.2	59.4
Dekalb DKC63-71RIB	238.6	15.7	60.1
POWER PLUS 6P75AMX™*	**236.9**	**15.4**	**59.1**
AgriGold A6462STXRIB *	236.8	16.0	60.7
Dekalb DKC62-77RIB *	235.9	14.9	59.6
Dekalb DKC63-60RIB *	235.5	16.0	61.4
POWER PLUS 5K35AMX™*	**235.1**	**15.1**	**60.3**
Dekalb DKC61-54RIB *	235.1	15.1	60.8
NuTech 5L510 *	232.6	16.0	59.6
Dekalb DKC61-54RIB	231.3	14.8	61.6
NuTech 713 *	230.4	15.0	58.9
Croplan 6110SS/RIB	230.1	15.6	59.3
Croplan 6110SS/RIB *	230.1	15.7	59.2
AgriGold A6462STXRIB	230.0	15.5	59.8
NK N70J-3011A	229.3	14.9	60.9
AgriGold A6542STXRIB	228.7	14.9	59.6
AgriGold A6542STXRIB *	227.9	15.8	60.5
NuTech 713	227.8	15.1	57.5
NuTech 5L-510 *	226.5	14.1	62.3
NuTech 5L-510	226.0	14.3	60.8
POWER PLUS 5K35AMX™*	**225.9**	**15.2**	**60.2**
NuTech 5L-510 *	221.7	14.4	61.0
NK N70J-3011A *	219.2	15.0	60.4
NuTech 5L-510	218.8	16.3	58.6
NuTech 5L-510	218.6	14.2	61.6
Average	233.8	15.4	60.2

SCHUYLER

Rushville-Industry FFA
Rushville, IL

Planted: April 20 in 30" rows. **Planting Population:** 31,800. **Harvested:** September 23. **Previous Crop:** Wheat. **Insecticide:** None. **Soil Type:** Heavy loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **✓Check Hybrid:** Power Plus 6F74AMX™*

Brand/Product	Bu. Per Acre	Rank	1000 Plants /Acre
✓CHECK	239.2		17.1
Stone 63-68	259.9	4	18.8
Lewis R14114SS	257.3	7	18.6
Dekalb 63-72	238.3	19	15.9
POWER PLUS 6C41 S™*	**248.5**	**12**	**19.5**
✓CHECK	243.4		16.2
AgriGold 6462 SSTX	237.2	20	17.6
Pioneer 1197AM	273.1	1	16.3
Channel 217-92VT2	254.8	9	18.7
Moews 3606	241.5	17	15.8
✓CHECK	240.0		17.6
Becks 6076 VT2	238.6	22	15.6
Renk RK9345SSTX	246.9	15	18.8
FS 64SX1	267.7	2	17.9
Wyffels 7888	261.1	6	18.8
✓CHECK	249.7		16.2
Dekalb 62-78	259.9	8	16.9
Lewis R1409	250.1	14	16.4
POWER PLUS 6P75AMX™*	**256.1**	**10**	**17.4**
Becks 5832A	242.6	18	16.9
✓CHECK	239.2		16.9
Wyffels 7456	265.4	3	17.8
Pioneer 1311	253.5	11	17.7
FS 61SV1	240.0	21	16.9
AgriGold 6499	251.6	13	18.7
✓CHECK	250.4		15.7
Renk RK810SSTX	235.1	23	16.6
Moews 751VT2DG	243.3	16	18.6
Channel 209-51VT2	227.0	24	17.3
Stone 6142	259.0	5	16.4
✓CHECK	232.5		16.7
Average	248.5		17.3
Check Average	242.1		16.6

CORN ON CORN

Dyche Farms Inc
Rushville, IL

Planted: April 18 in 30" rows. **Planting Population:** 35,000. **Harvested:** September 19. **Previous Crop:** Corn. **Soil Type:** Clay loam. **Remarks:** Competitor Plot.

Brand/Product	Bu. Per Acre	% Moisture
Pioneer P1197AMXT	257.9	18.4
Wyffels 8918RIB	257.4	19.3
Moews 3751	255.1	20.4
Moews 3733	254.5	18.8
Channel 216-36STXRIB	251.2	20.6
Wyffels 7696RIB	249.3	18.5
Channel 210-26STXRIB	248.8	17.4
Agrigold A6499	248.3	18.9
Wyffels 7508RIB	247.1	19.1
Dekalb DKC66-74RIB	245.8	19.7
Wyffels 7888RIB	245.7	19.4
Dekalb DKC64-87RIB	243.6	19.4
Channel 209-53STXRIB	243.3	18.0
POWER PLUS 5K35AMX™*	**242.3**	**17.9**
Agrigold A6559	239.6	18.6
Dekalb DKC63-71RIB	239.3	18.8
Dekalb DKC64-34RIB	239.1	19.8
POWER PLUS 4J95AMX™*	**239.0**	**17.4**
Dekalb DKC62-77RIB	238.5	18.5
Channel 215-05STXRIB	237.9	17.8
Channel 214-45STXRIB	236.6	19.9
Channel 213-19STXRIB	233.8	21.2
Channel 215-05STXRIB	232.9	19.7
Channel 215-05STXRIB	232.7	18.6
Dekalb DKC58-06RIB	232.4	17.3
Agrigold A6416	231.1	17.5
Channel 208-23STXRIB	230.7	17.5
Moews 3606	230.5	17.6
Pioneer P1311AMXT	230.4	20.2
Agrigold A6441	229.6	18.1
Dekalb DKC63-60RIB	228.2	19.9
Agrigold A6542	226.6	19.3
POWER PLUS 6P75AMX™*	**226.5**	**20.3**
Channel 207-27STXRIB	225.7	18.3
Agrigold A6462	225.1	17.8
Channel 211-35STXRIB	217.4	18.5
Average	238.7	18.8

SHELBY

Emil Lagerhausen
Shumway, IL

Planted: May 25 in 30" rows. **Planting Population:** 35,000. **Harvested:** October 18. **Previous Crop:** Soybeans. **Herbicide:** Halex GT. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–wet, August–wet. **✓Check Hybrid:** Power Plus 4J95™*

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	179.8		14.7	70	29
POWER PLUS 4J93AM™*	**179.1**	**19**	**15.0**	**90**	**27**
POWER PLUS 4J99 R™*	**155.9**	**29**	**14.8**	**100**	**28**
POWER PLUS 5K33AM™*	**164.0**	**27**	**14.7**	**100**	**27**
POWER PLUS 5K33AM™*	**174.4**	**21**	**15.0**	**90**	**34**
POWER PLUS 4J99 R™*	**168.1**	**24**	**15.0**	**60**	**35**
POWER PLUS 4J93AM™*	**182.7**	**15**	**14.8**	**90**	**35**
✓CHECK	178.8		14.4	80	32
✓CHECK	166.7		14.1	100	30
POWER PLUS 6C41 S™*	**213.0**	**1**	**17.7**	**90**	**28**
POWER PLUS 6N83AM™*	**161.0**	**23**	**14.6**	**80**	**27**
POWER PLUS 6F74AMX™*	**172.0**	**17**	**15.4**	**100**	**28**
POWER PLUS 6F74AMX™*	**172.5**	**16**	**15.2**	**90**	**34**
POWER PLUS 6N83AM™*	**169.5**	**20**	**15.1**	**100**	**37**
POWER PLUS 6C41 S™*	**209.3**	**2**	**15.5**	**90**	**33**
✓CHECK	174.3		15.8	90	37
✓CHECK	171.5		14.1	80	29
BURRUS 6T54 3000GT	**176.4**	**13**	**14.8**	**100**	**29**
POWER PLUS 6P73AM™*	**195.1**	**4**	**14.2**	**50**	**30**
POWER PLUS 7H23 S™*	**167.7**	**25**	**14.4**	**90**	**30**
POWER PLUS 7H23 S™*	**182.3**	**11**	**15.0**	**40**	**30**
POWER PLUS 6P73AM™*	**205.9**	**3**	**15.0**	**60**	**33**
BURRUS 6T54 3000GT	**184.0**	**9**	**14.2**	**70**	**36**
✓CHECK	168.3		15.7	100	35
✓CHECK	165.0		15.0	60	37
CATALYST 6216 3111A	**190.6**	**6**	**14.8**	**60**	**27**
CATALYST 5009 3220	**148.2**	**28**	**14.7**	**100**	**30**
CATALYST 7577 3010	**170.1**	**18**	**15.6**	**90**	**29**
CATALYST 7577 3010	**193.5**	**5**	**15.7**	**80**	**37**
CATALYST 5009 3220	**146.3**	**30**	**14.9**	**90**	**33**
CATALYST 6216 3111A	**187.4**	**7**	**14.8**	**100**	**34**
✓CHECK	175.2		15.4	50	32
✓CHECK	168.3		14.9	80	29
POWER PLUS 7U15AM-R™*	**185.9**	**8**	**14.8**	**90**	**30**
CATALYST 7893 3111	**176.1**	**14**	**15.7**	**90**	**31**
POWER PLUS 4V45AM™*	**158.2**	**26**	**15.3**	**90**	**25**
POWER PLUS 4V45AM™*	**163.6**	**22**	**15.7**	**80**	**29**
CATALYST 7893 3111	**180.7**	**12**	**15.0**	**100**	**36**
POWER PLUS 7U15AM-R™*	**184.3**	**10**	**14.8**	**50**	**33**
✓CHECK	172.9		15.0	70	34
Average	176.0		15.0	82	31
Check Average	172.1		14.9	78	32.4

New products excel

COMPARE

Ron Schultz
Stewardson, IL

Planted: May 6 in 30" rows. **Planting Population:** 33,400. **Harvested:** October 4. **Previous Crop:** Soybeans. **Fertilizer:** N: 200, P: 200 , K: 200. **Insecticide:** Warrior. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–wet, August–normal. **✓Check Hybrid:** Power Plus 4V45AM™*

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	208.7		23.0	100	32
POWER PLUS 4J95AMX™*	**208.0**	**8**	**25.6**	**100**	**34**
POWER PLUS 7H20™*	**221.6**	**4**	**24.6**	**70**	**32**
POWER PLUS 4J99 R™*	**211.2**	**6**	**24.2**	**100**	**38**
✓CHECK	202.2		21.9	90	32
POWER PLUS 6C41 S™*	**234.8**	**1**	**23.4**	**90**	**33**
CATALYST 5009 3220	**201.8**	**10**	**21.5**	**100**	**33**
POWER PLUS 5K33AM™*	**230.7**	**2**	**23.5**	**90**	**33**
✓CHECK	208.6		23.4	100	32
POWER PLUS 6N83AM™*	**211.1**	**9**	**25.1**	**90**	**33**
CATALYST 7577 3010	**221.1**	**5**	**24.9**	**100**	**32**
BURRUS 6T54 3000GT	**217.2**	**7**	**24.6**	**100**	**32**
✓CHECK	215.2		21.0	100	33
POWER PLUS 6F74AMX™*	**204.8**	**11**	**22.9**	**100**	**33**
POWER PLUS 6P73AM™*	**230.5**	**3**	**23.0**	**100**	**33**
CATALYST 6216 3111A	**194.9**	**12**	**23.8**	**100**	**33**
✓CHECK	203.2		20.7	100	31
Average	213.3		23.4	96	33
Check Average	207.6		22.0	98	32

Power Plus® 6C41 S™* won at 234.8 bu/a in Shelby Co. for Jeff & Ron Schultz.

Think BURRUS®

CORN PLANTING RATES

Soil Type	A	B				C
High organic soils	**34-40,000**	**31-37,000**				**28-34,000**
Timber soils	**31-37,000**	**27-33,000**				**26-32,000**
Clay & varied soils	**31-37,000**	**27-33,000**				**26-32,000**
Sand (dryland)	**26-32,000**	**23-29,000**				**21-27,000**
Sand (irrigated)	**34-40,000**	**31-37,000**				**28-34,000**
Brand products	2428 GTA	1G39AM™*	4J90™*	5N48™*	6N83AM™*	3H85AMX™*
	2V56AMX™*	1G48AMXT™*	4J93AM™*	6L45AMT™*	6216 3111A	5009 3220
	2N82AM™*	1S26AMXT™*	4J95AMX™*	6T51 GT	7H20™*	5K33AM™*
	2F91AMXT™*	2B77AMXT™*	4J99 R™*	6T54 3000GT	7H23AM™*	5K35AMX™*
		2R67™*	5C17AMXT™*+	6Q60	7U15 Q™*	6C40™*
		2R63 R™*	5124 GT	6F71 R™*	7A18 Q™*	6C41 S™*
		2Y06AM™*		6F74AMX™*	7577 3010	6P73AM™*
		3442		6P75AMX™*+	9C24 3010A	

+ Plant 5C17AMXT™* and 6P75 AMX™* at the mid-range for your soil type, e.g., drop 34,000 on high organic soils rather than 37,000.

Best standability is normally achieved at the lowest recommended rates. Allows for a 10% stand loss.

Qrome™ products - A key to unlocking yield potential

by Josh Gunther

With the recent buzz surrounding the EPA's new guidelines on western corn rootworm resistance, there is a clear need for pyramided above and below ground traits in the corn market. Qrome™ is DuPont Pioneer's answer to this need. Qrome products contain a proprietary transgenic event featuring a molecular stack of the proven Bt proteins from the Herculex® 1 and Herculex® RW traits.

These advanced technologies are similar to the proven traits currently represented in Optimum® AcreMax® XTreme (AMXT) products. They provide a dual mode of action pyramid for above and below ground insect protection, as well as 5% integrated refuge in the bag. AMXT currently provides outstanding insect protection for the areas that need it most. However, a downside is there are limited genetics that will take these traits without affecting the agronomics or yield of the plant. The new molecular stack of these two proven traits allow a broader set of genetics to be available with rootworm and corn borer protection.

In a study conducted by DuPont Pioneer, Qrome rated on-par with the three current Optimum AcreMax rootworm technologies across 14 moderate to high pressure corn rootworm locations.

The Burrus research team had the opportunity the past two years to evaluate Qrome in many different genetics familiar to us. From our observations, Qrome has only improved these hybrids. Burrus feels this new trait will bring growers better yields by not only improving our current hybrids, but also allowing us to use a more diverse set of germplasm that would not take the Herculex 1 and Herculex RW traits separately. The Burrus research team has not seen any ill side effects with this technology.

The only question left to answer is when will this technology be available to growers? Qrome products are in their final stage of testing and have received regulatory approval in the U.S. and many key import markets. Growers can expect to see it in the lineup of Power Plus® brand products in the coming years. Check with your Burrus dealer for the latest status on Qrome technology.

Qrome™ technology studies were included on the farm tour during New Technology Day on August 17th at our Arenzville, IL location.

*Qrome™ products will not be offered for sale or distribution until completion of field testing and applicable regulatory reviews.

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Agrisure® technology incorporated into these seeds is commercialized under a license from Syngenta Crop Protection AG.
Herculex® XTRA insect protection technology by Dow AgroSciences and Pioneer Hi-Bred.
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TAZEWELL

Power Plus® 6P75AMX™* brand is second!

COMPARE

Tazewell County Corn Growers
Tremont, IL

Planted: April 25 in 30" rows. **Planting Population:** 33,000. **Harvested:** September 24. **Previous Crop:** Soybeans. **Fertilizer:** N: 180, P: 75 , K: 75. **Herbicide:** Keystone, Roundup. **Soil Type:** Loam. **✓Check Hybrid:** Stone 6378RIB

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK	233.4		18.4
Agrigold 6559STXRIB	237.0	17	19.4
Great Lakes 6462STXRIB	236.0	19	19.9
✓CHECK	235.3		18.7
Becks 6418SX	255.4	5	20.2
Roeschley RZ760SS	238.6	18	19.6
✓CHECK	236.7		19.5
Dekalb DKC64-87	238.9	21	19.1
Wyffels W7888RIB	247.2	10	19.5
✓CHECK	238.0		18.9
Stone 6448RIB	247.2	7	19.8
POWER PLUS 6P75AMX™*	**258.8**	**2**	**20.9**
✓CHECK	223.0		19.3
Pioneer P1311AMXT	253.9	4	20.1
Pfister 2770RASSC	244.0	9	20.4
✓CHECK	236.2		18.7
Steyer 1305GENSSRIBC	266.4	1	20.4
Roeschley 650SS	240.2	15	20.6
✓CHECK	234.4		19.2
Stone 6368RIB	262.6	3	20.5
Dekalb DKC62-77	242.9	14	19.0
✓CHECK	241.2		19.4
Agrigold 6499STXRIB	245.9	11	20.2
ProHarvest 8244	245.4	12	20.5
✓CHECK	232.0		19.0
Pfister 3366RASS	232.1	26	19.3
LG 5618STXRIB	241.5	22	20.5
✓CHECK	249.4		18.1
Wyffels W7108RIB	248.2	16	18.5
Great Lakes 6185STXRIB	245.1	20	18.6
✓CHECK	237.7		18.7
Pioneer P1179AMXT	250.8	8	19.1
Becks 6165AMX	239.8	13	18.7
✓CHECK	231.0		18.9
POWER PLUS 5C17AMXT™*	**256.9**	**6**	**18.8**
Steyer 11005SSRIBC	236.8	23	18.0
✓CHECK	247.7		18.3
ProHarvest 8074	241.8	24	17.8
LG 5548STXRIB	236.7	25	18.6
✓CHECK	242.1		18.1
Average	242.7		19.3
Check Average	237.0		18.8

VERMILION

Curt Elmore
Allerton, IL

Planted: April 20 in 30" rows. **Planting Population:** 36,000. **Harvested:** September 28. **Previous Crop:** Soybeans. **Soil Type:** Silt loam. **✓Check Hybrid:** DeKalb DKC64-87RIB **Remarks:** Third party plot.

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK	221.9		14.8
Wyffels W4968RIB	218.0	20	13.5
Wyffels W6198RIB	215.5	24	14.4
Wyffels W6946DGRIB	228.6	6	14.1
Wyffels W7108RIB	212.3	27	14.3
Wyffels W47456RIB	216.4	23	16.6
Wyffels W7508RIB	218.4	19	16.3
Wyffels W7696RIB	225.5	10	16.1
Wyffels W7888RIB	224.4	12	15.6
Wyffels W8268RIB	229.7	2	16.6
Wyffels W8918RIB	227.4	8	16.2
✓CHECK	211.0		14.8
Dekalb DKC58-06RIB	229.4	4	15.0
Dekalb DKC60-87RIB	221.1	14	15.2
Dekalb DKC61-54RIB	207.1	28	15.1
Dekalb DKC63-60RIB	215.4	25	15.4
Dekalb DKC62-77RIB	220.8	16	15.0
Dekalb DKC63-71RIB	218.7	18	16.4
Dekalb DKC64-34RIB	247.0	1	16.7
Dekalb DKC64-87RIB	226.2	9	15.3
Dekalb DKC66-74RIB	228.8	5	17.1
Pioneer P1197AMXT	206.4	29	15.9
Pioneer P1311AMXT	218.0	21	16.1
✓CHECK	215.2		15.2
Munson 7084SSRIB	212.7	26	15.3
Munson 7252SSRIB	220.6	17	16.3
POWER PLUS 5C17AMXT™*	**224.7**	**11**	**15.4**
POWER PLUS 6L45AMT™*	**228.1**	**7**	**18.2**
Croplan 6110SS/RIB	216.9	22	14.8
Croplan 5290DGVT2	229.5	3	15.7
Croplan 6265SS/RIB	221.2	13	15.8
Croplan 6594SS/RIB	221.0	15	15.3
CHECK	229.7		15.7
Average	221.4		15.6
Check Average	219.4		15.1

WHITESIDE

New Power Plus® 2B77AMXT™* brand at 246 bu/a

CORN ON CORN

Russ Ottens
Lyndon, IL

Planted: May 7 in 30" rows. **Planting Population:** 32,500. **Harvested:** October 8. **Previous Crop:** Corn.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.
POWER PLUS 2B77AMXT™*	**246.5**	**18.4**	**58.5**
POWER PLUS 5K35AMX™*	**237.3**	**19.7**	**57.9**
POWER PLUS 3H85AMX™*	**218.8**	**18.2**	**57.5**
POWER PLUS 5C17AMXT™*	**214.7**	**19.6**	**57.9**
POWER PLUS 6P75AMX™*	**211.9**	**20.8**	**57.2**
POWER PLUS 4J95AMX™*	**207.1**	**19.3**	**57.7**
Average	222.7	19.3	57.8

Power Plus® 5K35AMX™* brand above 280 bu/a

COMPARE

Jeff Merema
Fulton, IL

CORN ON CORN

Planted: May 2 in 30" rows. **Planting Population:** 36,000. **Harvested:** September 28. **Previous Crop:** Corn.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.
Wyffels 7508	283.2	20.1	58.0
POWER PLUS 5K35AMX™*	**282.6**	**18.5**	**57.6**
POWER PLUS 6P75AMX™*	**277.1**	**20.5**	**56.2**
POWER PLUS 7108™*	**268.7**	**17.0**	**56.3**
POWER PLUS 2B77AMXT™*	**263.7**	**17.0**	**58.3**
POWER PLUS 3H85AMX™*	**261.2**	**18.0**	**58.5**
POWER PLUS 2Y06AM™*	**257.7**	**16.3**	**56.0**
POWER PLUS 4J95AMX™*	**255.2**	**18.8**	**57.7**
Wyffels 7888	254.6	18.9	57.7
Wyffels 7158	253.4	17.0	56.3
POWER PLUS 6T51 GT™*	**247.1**	**20.3**	**56.5**
POWER PLUS 1S26AMXT™*	**242.5**	**15.6**	**58.5**
POWER PLUS 2F91AMXT™*	**231.7**	**15.6**	**59.0**
POWER PLUS 1G48AMXT™*	**213.5**	**15.8**	**56.0**
Average	256.6	17.8	57.3

WILL

Power Plus® 3H85AMX™* brand is fourth

Will County Farm Bureau
Joliet, IL

Planted: April 24 in 30" rows. **Planting Population:** 34,900. **Harvested:** October 4. **Previous Crop:** Soybeans. **Soil Type:** Medium loam. **✓Check Hybrid:** Channel 209-53STX RIB **Remarks:** Early maturity corn plot.

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.
✓CHECK	231.1		22.4	56.7
Dairyland Seed DS-9307RA	214.4	10	20.6	56.8
Beck's Hybrid 5337SX	211.8	11	19.3	56.2
Golden Harvest G07F23	216.6	7	21.2	54.9
POWER PLUS 3H85AMX™*	**222.9**	**4**	**19.9**	**56.6**
✓CHECK	229.3		22.9	56.1
Monsanto - Dekalb DKC 58-06	229.3	1	21.0	57.6
AXIS Seed Direct 54T54	212.6	5	18.6	56.6
Pioneer P0157AMX	209.6	8	19.4	57.6
ProHarvest Seeds 6860 AS311	221.0	2	20.6	54.5
✓CHECK	217.0		23.0	55.2
Steyer Seeds 10805 VT2PRO	208.2	9	21.5	55.0
Agrigold 6416 STX 107RM	209.3	6	20.5	55.4
Heritage FS 58QX1	202.4	12	20.2	56.4
Channel 207-27STXRIB	216.0	3	21.5	56.4
✓CHECK	227.7		22.5	56.4
Average	217.4		20.9	56.2
Check Average	226.3		22.7	56.1

Check out burrusseed.com for more plot results

Ben Bangert of Scott Co. loves being on the farm and watching his Burrus Seed grow.

Kent Kleinschmidt saw Power Plus® 6P73AM™* win in Logan Co. at 243 bu/a.

John Nienhiser of Morgan Co. handles some of the first corn shelling of the season.

Burrus AM Ted Ballard at Southern Illinois University career fair.

Harvest season in America. #blessed

Power Plus® 5C17AMXT™* brand is third

COMPARE!

Will County Farm Bureau
Joliet, IL

Planted: April 24 in 30" rows. **Planting Population:** 34,900. **Harvested:** October 4. **Previous Crop:** Soybeans. **Soil Type:** Medium loam. **✓Check Hybrid:** Channel 209-53STX RIB **Remarks:** Late maturity corn plot.

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.
✓CHECK	219.4		22.7	55.9
Dairyland Seed DS-9713RA	202.7	11	22.4	52.8
Beck's Hybrid 6076SX	218.6	8	21.9	56.7
Golden Harvest G11F16	216.5	9	23.1	53.8
POWER PLUS 5C17AMXT™*	**227.5**	**3**	**20.4**	**57.7**
✓CHECK	224.2		22.2	56.8
Monsanto - Dekalb DKC 64-87	242.1	1	23.1	56.2
AXIS Seed Direct 60N56	170.5	12	21.9	56.3
Pioneer P1197AMX	230.1	2	22.3	54.3
ProHarvest Seeds 8244 GENSSRIB	227.7	4	22.7	57.9
Steyer Seeds 11005 GENSS	220.6	7	22.4	56.5
✓CHECK	223.2		23.5	56.9
Agrigold 6499 STX 112RM	228.4	5	23.9	57.3
Heritage FS 63SX1	218.8	10	24.3	56.2
Channel 213-59 STXRIB	226.9	6	21.6	55.8
✓CHECK	229.1		22.9	56.1
Average	220.4		22.6	56.1
Check Average	224.0		22.8	56.4

WINNEBAGO

Power Plus® takes top five places

COMPARE!

WW AgSeeds
Rockford, IL

CORN ON CORN

Planted: April 25 in 30" rows. **Planting Population:** 34,000. **Harvested:** October 5. **Previous Crop:** Corn. **Insecticide:** Force 3g on non-RW products. **Soil Type:** Medium Clay. **Weather:** May–wet, June–normal, July–normal, August–wet. **✓Check Hybrid:** AgriGold A6462STX

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.
✓CHECK	250.3		22.8	58.6
Agrigold 6257STX	207.3	30	20.7	58.2
POWER PLUS 1S26AMXT™*	**212.0**	**27**	**20.5**	**59.2**
PIONEER P0157AMX	**207.6**	**29**	**20.6**	**58.2**
POWER PLUS 1G48AMXT™*	**236.1**	**15**	**20.8**	**58.2**
Agrigold 6267STX	218.3	26	22.7	58.6
Agrigold 6355STX	224.0	23	22.1	57.5
POWER PLUS 2F91AMXT™*	**205.9**	**31**	**22.8**	**58.6**
POWER PLUS 2Y06AM™*	**249.1**	**7**	**20.6**	**57.2**
✓CHECK	250.3		22.8	59.6
POWER PLUS 2R63R™*	**237.0**	**14**	**20.5**	**58.2**
Agrigold XA61600STX	211.2	28	20.8	58.2
Agrigold 6346STX	198.8	32	22.4	58.5
Dekalb 54-38STX	219.1	25	22.4	59.5
Agrigold 6351STX	225.8	21	22.9	58.6
POWER PLUS 2N82AM™*	**231.3**	**16**	**22.4**	**59.5**
POWER PLUS 2B77AMXT™*	**230.1**	**18**	**22.8**	**59.6**
Agrigold 6413STX	225.0	22	25.8	58.4
✓CHECK	249.4		24.3	58.0
POWER PLUS 3H85AMX™*	**236.0**	**10**	**22.2**	**58.5**
Agrigold 6416STX	226.3	19	25.4	59.3
Dekalb 58-06STX	238.0	8	25.4	57.3
Pioneer P0825AMXT	224.0	20	22.1	56.5
Agrigold 6424GT3VIP	233.7	13	25.5	59.4
POWER PLUS 4J99R™*	**251.3**	**4**	**24.9**	**58.2**
POWER PLUS 4J95AMXT™*	**255.3**	**2**	**24.9**	**58.2**
Agrigold 6441STX	246.1	6	25.3	58.3
✓CHECK	242.8		26.3	58.5
POWER PLUS 5C17AMXT™*	**245.8**	**5**	**24.2**	**60.0**
POWER PLUS 6F74AMX™*	**231.3**	**9**	**22.4**	**58.5**
POWER PLUS 5K35AMX™*	**246.9**	**3**	**22.6**	**58.6**
Agrigold 6492STX	229.3	12	24.4	58.0
Agrigold 6488VT2	213.5	24	29.6	58.4

BURRUS 6T54GT3	**229.7**	**11**	**28.0**	**59.0**
Agrigold 6499STX	222.0	17	30.4	59.5
POWER PLUS 6P75AMX™*	**267.4**	**1**	**25.9**	**59.4**
✓CHECK	239.9		26.0	58.5
Average	231.6		23.7	58.6
Check Average	246.5		24.4	58.6

Power Plus® takes top 8 places

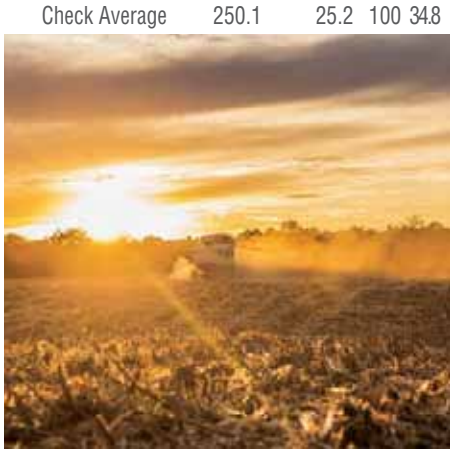
COMPARE!

TNT Farms
Winnebago, IL

CORN ON CORN

Planted: April 23 in 30" rows. **Planting Population:** 34,000. **Harvested:** September 29. **Previous Crop:** Corn. **Fertilizer:** N: 200, P: 100 , K: 100. **Insecticide:** Force 3G. **Soil Type:** Medium loam. **Weather:** May–wet, June–wet, July–normal, August–wet. **✓Check Hybrid:** Power Plus 4J93AM™*

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	251.9		24.9	100	34
POWER PLUS 1S26AMXT™*	**249.8**	**7**	**17.5**	**100**	**34**
POWER PLUS 1G48AMXT™*	**238.2**	**14**	**20.2**	**100**	**36**
POWER PLUS 2F91AMXT™*	**233.5**	**18**	**20.1**	**100**	**32**
Dekalb 54-38STX	219.3	20	19.7	100	34
POWER PLUS 2R63RR™*	**256.8**	**4**	**19.7**	**97**	**34**
POWER PLUS 2N82AM™*	**227.2**	**19**	**24.6**	**100**	**33**
✓CHECK	255.4		26.8	100	34
POWER PLUS 2Y06AM™*	**261.0**	**5**	**19.0**	**100**	**34**
POWER PLUS 2B77AMXT™*	**246.3**	**12**	**21.6**	**100**	**34**
POWER PLUS 3H85AMX™*	**241.3**	**16**	**22.2**	**100**	**35**
Dekalb 58-06STX	252.3	10	24.3	99	34
POWER PLUS 4J95AMX™*	**253.7**	**8**	**24.8**	**99**	**35**
POWER PLUS 4J99R™*	**267.2**	**2**	**24.6**	**100**	**35**
✓CHECK	261.3		24.5	100	36
Channel 209-53STX	241.2	9	30.3	96	35
POWER PLUS 5C17AMXT™*	**229.6**	**15**	**26.1**	**100**	**35**
POWER PLUS 5K35AMX™*	**247.2**	**6**	**24.6**	**100**	**32**
POWER PLUS 6F74AMX™*	**240.4**	**11**	**26.9**	**100**	**34**
BURRUS 6R54 3000GT	**232.4**	**13**	**33.7**	**100**	**35**
POWER PLUS 6P75AMX™*	**228.3**	**17**	**30.9**	**100**	**30**
✓CHECK	231.7		24.7	100	34
POWER PLUS 5K35AMX™*	**254.2**	**1**	**24.7**	**100**	**33**
POWER PLUS 2F91AMXT™*	**240.1**	**3**	**18.6**	**100**	**32**
Average	244.2		24.0	100	34
Check Average	250.1		25.2	100	34.8



John & Chris Howell put the finishing touches on their Burrus corn in Randolph Co.

WOODFORD

Power Plus® 6P75AMX™* brand goes 270 bu/a

Jim Zoss
Lowpoint, IL

Planted: April 23 in 30" rows. **Planting Population:** 36,000. **Harvested:** September 26. **Previous Crop:** Soybeans. **Fertilizer:** N: 244, P: 89 , K: 68. **Herbicide:** PowerMax, Status. **Insecticide:** Force. **Soil Type:** Heavy loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **✓Check Hybrid:** Channel 209-53 STX RIB **Remarks:** Third party plot. No test weights given. **Fungicide:** Headline Amp.

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK	251.9		19.3
Pioneer P0157AMX	253.7	22	18.2
Channel 207-27STXRIB	249.2	24	18.3
BURRUS 3H85AMX	**269.7**	**10**	**19.5**
Pioneer P0825AMXT	266.1	16	19.5
Dekalb DKC58-06	243.3	26	18.9
✓CHECK	249.2		19.4
Beck 6076SX	255.3	21	18.7
LG Seeds 5612STXRIB	250.3	25	20.6
BURRUS 5C17AMXT	**258.1**	**19**	**20.6**
Channel 211-35STXRIB	257.4	20	20.5
Pioneer P1197AMXT	275.7	3	20.7
Dekalb DKC61-54RIB	254.9	23	19.6
✓CHECK	254.9		19.6
FS 61SX1 RIB	258.5	18	19.7
Dekalb DKC62-77RIB	269.0	13	20.1
LG Seeds 5618STXRIB	271.5	9	21.5
Channel 213-19STXRIB	269.0	14	21.4
Beck 6365AMX	270.7	12	21.3
Pioneer P1311AMXT	273.2	7	21.0
✓CHECK	249.6		19.4
Dekalb DKC63-71RIB	268.4	8	21.0
BURRUS 6P75AMX	**270.1**	**6**	**21.4**
FS 63SX1 RIB	270.5	5	22.5
Sun Prairie 2818 RIB	267.9	11	22.9
Sun Prairie 2843 RIB	263.9	17	22.7
Stone 6368RIB	281.9	1	23.0
✓CHECK	248.0		20.1
Channel 214-45STXRIB	276.8	2	21.4
Beck 6418SX	270.8	4	22.6
Channel 216-36	264.4	15	22.2
Average	262.4		20.6
Check Average	250.7		19.6

ATCHISON

Power Plus® 4J93AM™* brand & Power Plus® 7H23 R™* brand go 1 & 2

Sheldon & Derek Davis
Fairfax, MO

Planted: April 14 in 30" rows. **Planting Population:** 34,000. **Harvested:** October 13. **Previous Crop:** Soybeans. **Herbicide:** Corvus. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–normal, June–normal, July–dry, August–normal. **✓Check Hybrid:** Power Plus 6F71 R™*

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	221.3		15.0	95	32
POWER PLUS 4J99 R™*	**219.2**	**6**	**14.2**	**90**	**34**
CATALYST 6216 3111A	**224.5**	**3**	**14.8**	**100**	**31**
CATALYST 7577 3010	**192.0**	**11**	**15.4**	**95**	**29**
POWER PLUS 7H23 R™*	**232.6**	**2**	**15.5**	**95**	**34**
BURRUS 6T54 3000GT	**220.0**	**4**	**15.1**	**100**	**30**
POWER PLUS 6N83AM™*	**219.8**	**5**	**15.4**	**95**	**31**
POWER PLUS 6P73AM™*	**187.4**	**12**	**15.1**	**95**	**32**
✓CHECK	209.5		15.1	90	30
POWER PLUS 6F74AMX™*	**209.0**	**7**	**15.3**	**95**	**30**
POWER PLUS 6C41 S™*	**204.0**	**8**	**15.2**	**90**	**29**
POWER PLUS 5K33AM™*	**198.7**	**9**	**15.2**	**90**	**31**
CATALYST 5009 3220	**191.7**	**10**	**15.5**	**100**	**31**
POWER PLUS 4J93AM™*	**234.8**	**1**	**15.1**	**90**	**33**
✓CHECK	216.9		15.1	85	30
Average	212.1		15.1	94	31
Check Average	215.9		15.1	90	30.7

BOONE

New products excel!

COMPARE

Lorentzen Farms - John & Zach
Sturgeon, MO

Planted: April 7 in 30" rows. **Planting Population:** 28,500. **Harvested:** September 19. **Previous Crop:** Fallow. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 4J93AM™*	**217.3**	**19.2**	**100**	**59.7**	**27**
POWER PLUS 6P73AM™*	**213.8**	**21.2**	**100**	**59.8**	**27**
POWER PLUS 6C41 S™*	**210.7**	**23.4**	**100**	**62.2**	**29**
POWER PLUS 4J99 R™*	**208.6**	**19.6**	**100**	**57.9**	**29**
POWER PLUS 6F74AMX™*	**207.1**	**22.4**	**100**	**61.5**	**26**
POWER PLUS 5K33AM™*	**206.9**	**19.4**	**100**	**59.7**	**29**
POWER PLUS 7H23 S™*	**202.5**	**19.2**	**84**	**56.7**	**29**
POWER PLUS 5K33AM™*	**202.2**	**19.3**	**100**	**59.7**	**29**
CATALYST 5009 3220	**202.1**	**18.9**	**100**	**56.7**	**29**
POWER PLUS 6N83AM™*	**190.2**	**20.2**	**96**	**57.5**	**27**
BURRUS 6T54 3000GT	**189.9**	**24.0**	**100**	**59.0**	**29**
CATALYST 6216 3111A	**183.5**	**20.5**	**100**	**56.2**	**27**
POWER PLUS 2N82AM™*	**180.8**	**16.5**	**100**	**57.7**	**26**
CATALYST 7577 3010	**179.8**	**23.9**	**100**	**58.9**	**23**
Average	199.7	20.6	99	58.8	28

John Lorentzen
Sturgeon, MO

Planted: April 16 in 30" rows. **Planting Population:** 28,500. **Harvested:** October 3. **Previous Crop:** Soybeans. **Fertilizer:** N: 230, P: 30 , K: 30. **Herbicide:** Corvus, Capreno. **Insecticide:** Warrior. **Corn Borer Rating:** Heavy. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–normal, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	1000 Plants /Acre
POWER PLUS 6C41 S™*	**207.6**	**16.4**	**81**	**25**
BURRUS 179401	**207.1**	**16.6**	**100**	**19**
BURRUS 6T54 3000GT	**206.2**	**16.3**	**94**	**26**
POWER PLUS 6P73AM™*	**201.8**	**15.8**	**95**	**25**
BURRUS 3780264	**200.8**	**16.2**	**92**	**24**
BURRUS 460220	**198.5**	**16.2**	**86**	**24**
BURRUS 791838	**198.5**	**15.9**	**92**	**26**
CATALYST 7577 3010	**198.5**	**16.0**	**94**	**25**
POWER PLUS 7H23 S™*	**195.0**	**15.8**	**80**	**29**
POWER PLUS 7U15AM-R™*	**194.3**	**15.8**	**50**	**24**
CATALYST 7893 3111	**193.3**	**15.9**	**42**	**24**
POWER PLUS 6N83AM™*	**192.5**	**15.9**	**96**	**26**
POWER PLUS 4J93AM™*	**190.6**	**16.0**	**88**	**28**
BURRUS 644188	**190.1**	**15.7**	**64**	**27**
POWER PLUS 6F74AMX™*	**188.1**	**16.0**	**86**	**26**
BURRUS 878207	**186.5**	**15.9**	**100**	**27**
POWER PLUS 4J99 R™*	**182.9**	**16.2**	**86**	**26**
POWER PLUS 5K33AM™*	**182.7**	**15.9**	**80**	**24**
POWER PLUS 7H23 S™*	**181.1**	**15.9**	**84**	**26**
CATALYST 6216 3111A	**180.8**	**16.2**	**84**	**24**
BURRUS 277073	**180.2**	**16.7**	**92**	**24**
BURRUS 836363	**179.7**	**16.2**	**78**	**24**
CATALYST 5009 3220	**176.7**	**15.4**	**90**	**25**
POWER PLUS 5K35AMX™*	**176.2**	**15.8**	**92**	**26**
BURRUS 502792	**175.4**	**16.1**	**90**	**29**
BURRUS 995336	**171.0**	**16.2**	**88**	**28**
POWER PLUS 2N82AM™*	**166.1**	**15.8**	**90**	**26**
Average	189.0	16.0	85	26

Avoiding resistant giant ragweed

by Stephanie Porter

Giant ragweed is difficult to control because of extended emergence patterns, aggressive growth, competitiveness, and adaption to a wide range of habitats. It has the ability to germinate at considerable depths, often after tillage, and can escape pre-emergence herbicides. Its large seed provides a great amount of energy reserves for seedlings, enhancing their endurance. If ragweed is left unmanaged, it can rapidly grow up to 17 feet tall, creating a massive canopy with large leaves up to 5 feet above plants and compete for sunlight, water, and nutrients. An increase of giant ragweed has been found in fields because of crop rotation, tillage, stem-boring insects affecting herbicide efficacy, and herbicide resistance.

This year, Kent Wagner of WW AgSeeds of Ogle Co., IL received a call from a customer who said his giant ragweed was not dying in one of his soybean fields and it had to be the herbicide's fault. A very high rate of glyphosate was applied to a few of these plants and they still did not die. To date, there has not been any giant ragweed confirmed to have glyphosate resistance in Illinois. However, glyphosate resistant giant ragweed has been confirmed in nearby Wisconsin, Iowa, Indiana, Missouri, Ohio, and Minnesota. According to Dr. Aaron Hager from the University of Illinois' Crop Sciences department confirmation of glyphosate resistant giant ragweed has proven very difficult in Illinois, but if seed could be saved from these giant ragweed plants he would conduct further testing.

Herbicide resistance as well as emergence of giant ragweed will depend greatly on management history. Herbicide resistance was first experienced in giant ragweed with ALS inhibitor (Group 2) herbicides in the Midwest in the late 1990s and early 2000s and later came glyphosate (Group 9) herbicide resistance. Glyphosate resistance can be spread to other giant ragweed in pollen, so controlling "receptor" plants is critical for weed resistance management. The loss of these two groups of herbicides is detrimental because they were the most effective herbicide groups for the control of giant ragweed.

When managing ALS (Group 2) and glyphosate (Group 9) ragweed resistance in soybeans, there are not many herbicides to choose from for control. The use of a pre-residual herbicide with a burndown or at planting in a tilled seedbed at full rates will help suppress later emerging giant ragweed plants by alleviating competition and selection pressure placed by post herbicides. Follow the pre-herbicide application with a timely post option such as PPO (Group 14) herbicides or glufosinate (Group 10) in LibertyLink® soybeans. Lastly, remove any escapes and mow fence lines so seed is not spread by the combine. For more herbicide details for controlling giant ragweed in soybeans, refer to Management of Herbicide-Resistant Giant Ragweed factsheet, available online at takeactiononweeds.com.

Kent Wagner of WW AgSeeds, Winnebago Co., IL shows off giant ragweed suspected to be resistant to glyphosate. He hopes it goes to seed to submit it to the University of Illinois for testing.

BUCHANAN

Jeff Gibson
Gower, MO

Planted: April 12 in 30" rows. **Planting Population:** 28,600. **Harvested:** October 4. **Previous Crop:** Soybeans. **Fertilizer:** N: 160, P: VRT , K: VRT. **Herbicide:** Roundup, Atrazine. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **✓Check Hybrid:** Power Plus 6F74AMX™*

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	184.0		12.8	100	28
POWER PLUS 2N82AM™*	**218.7**	**1**	**13.0**	**100**	**27**
POWER PLUS 4J93AM™*	**210.4**	**2**	**13.3**	**90**	**28**
POWER PLUS 4J99 R™*	**182.8**	**8**	**12.8**	**100**	**26**
CATALYST 5009 3220	**193.8**	**5**	**13.4**	**100**	**25**
✓CHECK	193.8		13.6	100	27
BURRUS 6T54 3000GT	**205.8**	**3**	**14.9**	**100**	**28**
POWER PLUS 6C41 S™*	**203.9**	**4**	**13.3**	**100**	**28**
POWER PLUS 6N83AM™*	**186.8**	**7**	**14.3**	**100**	**27**
CATALYST 7577 3010	**191.1**	**6**	**13.4**	**100**	**28**
✓CHECK	185.8		13.2	100	28
Average	196.1		13.5	99	27
Check Average	187.9		13.2	100	27.7

Don't let rain affect your bottom line

by Chip Turner
Research Coordinator

Growers can exercise control over many aspects of crop production. Generations worth of research and development have brought technologies and management practices forward allowing control of pests, weeds, and soil fertility in ways unimagined a few decades ago. However, weather is an essential aspect of production that remains wholly uncontrollable. Even when everything is done right, without rain, the crops will not grow. Irrigation helps, but it is not an option for everyone and with concerns over aquafer sustainability and stability, certain areas of the country could see use of irrigation curtailed. We can't change the weather, but researchers have worked to change corn, resulting in hybrids that are more stress tolerant and use water more efficiently.

Optimum® AQUAmax® products are the result of years of research and development by DuPont Pioneer. Researchers began by identifying lines that performed well under drought conditions and had a number of desirable agronomic traits. They then created a genetic fingerprint of these lines and developed new hybrids. The new hybrids were genetically tested to ensure the identified genes were inherited. If a hybrid inherited the genes coding for enhanced stress tolerance, it advanced to yield testing under drought conditions and in high-yielding environments. Those hybrids that exceeded check means under drought conditions and equaled or exceeded check means in high-yielding environments were advanced for commercialization. Optimum AQUAmax products bring great yield potential under normal, low stress growing conditions and offer improved performance under drought conditions.

To develop Agrisure Artesian®, Syngenta scientists started by identifying genes associated with increased drought tolerance. Then, plants were selected containing these genes for use in testing and development. The new hybrids were extensively tested in both water limited environments and under high-yielding, low-stress conditions. Only hybrids containing the specific genes coding for improved drought tolerance and yielding significantly better than check averages in both low stress and drought environments receive the Artesian™ label. Artesian hybrids are designed to maximize yield when it rains and increase yields when it doesn't.

Neither Optimum AQUAmax nor Agrisure Artesian are transgenic traits. Since both were developed utilizing genes native to corn, it is possible to offer conventional hybrids carrying the labels. Both products are available in premier genetic packages, adding yield potential in normal, low stress growing seasons. In addition, both technologies offer about a 10% increase* in yield potential under drought conditions when compared to similar hybrids that do not have water optimization technology as part of their genetic make-up.

Through our multi-brand strategy, Burrus is able to offer growers both Optimum AQUAmax and Agrisure Artesian products to protect your bottom line when it rains and when it doesn't.

Power Plus® 6C40™* got off to a great start for Eddie Stone in Audrain Co., MO.

At 217 bu/a Power Plus® 4J93AM™* took top honors in Boone Co., MO for Seth Truesdale, John, Zach & John Lorentzen.

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.

® Power Plus, Optimum and AQUAmax are registered trademarks of Pioneer.
Power Plus® brand is distributed by Burrus Hybrids.

* Jim Gaffney et. al., 2015. Industry Scale Evaluation of Maize Hybrids Selected for Increased Yield in Drought Stress Conditions of the U.S. Corn Belt. Crop Sci. 55:1608-1618. Doi: 10.2135/cropsci2014.09.0654

"Optimum AQUAmax Products from DuPont Pioneer", 2013.
URL: www.pioneer.com/CMRoot/Pioneer/US/products/seed_trait_technology/see_the_difference/AQUAmax_Product_Offerings.pdf

"The Artesian difference", 2016.
URL: http://www.syngenta-us.com/prodrender/imagehandler.ashx?ImID=dd20572d-ceed-4175-92aa-551ed89d8e7d&fty=0&et=8

"Maximize Yield when it rains, increase yield up to 15% when it doesn't", 2012.
URL: http://www3.syngenta.com/country/us/SiteCollectionDocuments/AgrisureArtesianBrochure.pdf

CLINTON

At 219 bu/a Power Plus® 6C41 S™ brand* wins

Walkup Farm Supply
Gower, MO

Planted: April 16 in 30" rows. **Planting Population:** 30,300. **Harvested:** October 4. **Previous Crop:** Soybeans. **Fertilizer:** N: 180, P: 50 , K: 70. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. ✓**Check Hybrid:** Power Plus 4J93™*

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.	1000 Plants /Acre
✓CHECK	238.7		13.9	59.0	21
POWER PLUS 2N82AM™*	202.5	8	13.8	60.0	21
POWER PLUS 4J99 R™*	230.1	6	13.8	60.5	27
✓CHECK	240.5		13.9	61.0	30
CATALYST 5009 3220	185.9	7	13.7	59.0	26
POWER PLUS 6C41 S™*	246.7	1	16.0	63.0	30
BURRUS 6T54 3000GT	213.1	5	15.6	61.0	30
POWER PLUS 6F74AMX™*	219.9	4	14.3	62.5	28
POWER PLUS 6N83AM™*	230.6	2	14.9	59.0	26
CATALYST 7577 3010	230.5	3	15.6	60.0	25
✓CHECK	198.9		16.1	61.5	26
Average	221.6		14.7	60.6	26
Check Average	226.0		14.6	60.5	25

Don't let rain affect your bottom line

by Chip Turner
Research Coordinator

Growers can exercise control over many aspects of crop production. Generations worth of research and development have brought technologies and management practices forward allowing control of pests, weeds, and soil fertility in ways unimagined a few decades ago. However, weather is an essential aspect of production that remains wholly uncontrollable. Even when everything is done right, without rain, the crops will not grow. Irrigation helps, but it is not an option for everyone and with concerns over aquafer sustainability and stability, certain areas of the country could see use of irrigation curtailed. We can't change the weather, but researchers have worked to change corn, resulting in hybrids that are more stress tolerant and use water more efficiently.

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To develop Agrisure Artesian®, Syngenta scientists started by identifying genes associated with increased drought tolerance. Then, plants were selected containing these genes for use in testing and development. The new hybrids were extensively tested in both water limited environments and under high-yielding, low-stress conditions. Only hybrids containing the specific genes coding for improved drought tolerance and yielding significantly better than check averages in both low stress and drought environments receive the Artesian™ label. Artesian hybrids are designed to maximize yield when it rains and increase yields when it doesn't.

Neither Optimum AQUAmax nor Agrisure Artesian are transgenic traits. Since both were developed utilizing genes native to corn, it is possible to offer conventional hybrids carrying the labels. Both products are available in premier genetic packages, adding yield potential in normal, low stress growing seasons. In addition, both technologies offer about a 10% increase* in yield potential under drought conditions when compared to similar hybrids that do not have water optimization technology as part of their genetic make-up.

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Power Plus® 6C40™* got off to a great start for Eddie Stone in Audrain Co., MO.

At 217 bu/a Power Plus® 4J93AM™* took top honors in Boone Co., MO for Seth Truesdale, John, Zach & John Lorentzen.

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.

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* Jim Gaffney et. al., 2015. Industry Scale Evaluation of Maize Hybrids Selected for Increased Yield in Drought Stress Conditions of the U.S. Corn Belt. Crop Sci. 55:1608-1618. Doi: 10.2135/cropsci2014.09.0654

"Optimum AQUAmax Products from DuPont Pioneer", 2013.
URL: www.pioneer.com/CMRoot/Pioneer/US/products/seed_trait_technology/see_the_difference/AQUAmax_Product_Offerings.pdf

"The Artesian difference", 2016.
URL: http://www.syngenta-us.com/prodrender/imagehandler.ashx?ImID=dd20572d-ceed-4175-92aa-551ed89d8e7d&fty=0&et=8

"Maximize Yield when it rains, increase yield up to 15% when it doesn't", 2012.
URL: http://www3.syngenta.com/country/us/SiteCollectionDocuments/AgrisureArtesianBrochure.pdf

CLINTON

At 219 bu/a Power Plus® 6C41 S™ brand* wins

Walkup Farm Supply
Gower, MO

Planted: April 16 in 30" rows. **Planting Population:** 30,300. **Harvested:** October 4. **Previous Crop:** Soybeans. **Fertilizer:** N: 180, P: 50 , K: 70. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. ✓**Check Hybrid:** Power Plus 4J93™*

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.	1000 Plants /Acre
✓CHECK	238.7		13.9	59.0	21
POWER PLUS 2N82AM™*	202.5	8	13.8	60.0	21
POWER PLUS 4J99 R™*	230.1	6	13.8	60.5	27
✓CHECK	240.5		13.9	61.0	30
CATALYST 5009 3220	185.9	7	13.7	59.0	26
POWER PLUS 6C41 S™*	246.7	1	16.0	63.0	30
BURRUS 6T54 3000GT	213.1	5	15.6	61.0	30
POWER PLUS 6F74AMX™*	219.9	4	14.3	62.5	28
POWER PLUS 6N83AM™*	230.6	2	14.9	59.0	26
CATALYST 7577 3010	230.5	3	15.6	60.0	25
✓CHECK	198.9		16.1	61.5	26
Average	221.6		14.7	60.6	26
Check Average	226.0		14.6	60.5	25

Take the guesswork out of scouting

M.G. & Beth Kennedy saw PowerShield® SDS give great return in Grundy Co., MO.

Burrus SM Pete George searches for quality interns at the Western Illinois University career fair.

by Stephanie Porter

After transferring uploaded fields to planting records into MyFarms℠, Burrus customer Eric Doyle of Macoupin Co., IL was able to utilize the emergence, pollination, and gray leaf spot alerts to know when to make timely observations of his corn crop at critical growth stages! By utilizing Growing Degree Days and specific knowledge of Burrus hybrids, MyFarms alerted Eric with an email when his fields were within a day or two of both emergence and silking. Eric appreciated the reminder with his busy life and actually said it was, "fun to watch." Inputting fields and information takes time, but once this was done, he can grab his iPad and have MyFarms information at his fingertips. Eric thinks the MyFarms scouting alerts would be especially useful for a grower with fields spread out over several counties. He shared that one day he was several miles from his home, but received a MyFarms scouting alert and was able to check a field while he was in the area.

Weather can frequently change as we near corn pollination, so the MyFarms gray leaf spot alert system is a good tool to have. Customers can decide if fungicide is necessary after scouting at pollination or after receiving a gray leaf spot alert. If identified at damaging thresholds or within favorable environmental conditions, during corn pollination (2 weeks before and 2 weeks after the tasseling of corn), gray leaf spot and other diseases such as Northern corn leaf spot can decrease corn yields. If you would like more information on disease identification and scouting, see the July 10, 2014 Think Burrus blog post available on our website, or contact one of our staff agronomists.

The gray leaf spot alert system revolves around the basic disease triangle and focuses on three key elements: corn disease susceptibility, favorable environmental conditions, and the presence of disease inoculum. Based on these factors, the view of the fields within MyFarms will: remain green if there is a low level, turn yellow if there is a moderate level, or become red if there is a high level of concern for the development of gray leaf spot.

An email notice will be sent when a field crosses into the red zone. Keep in mind factors such as corn hybrid selection, corn growth stage, crop rotation and environmental conditions could cause the field to move back and forth between a yellow or red color, which could trigger multiple email notices for the same field. Based on scouting, disease pressure, and the potential of wet weather, the grower can make the decision if a fungicide application is needed. Eric did not have any concerns pertaining to foliar diseases in his corn this year and chose not to apply a fungicide, saving both time and money.

Eric Doyle checks his Burrus MyFarms℠ account from his field in Macoupin Co., IL.

HOLT

Catalyst products go one & two

Owen Bender
Maitland, MO

Planted: April 16 in 30" rows. **Planting Population:** 34,000. **Harvested:** October 14. **Previous Crop:** Soybeans. **Fertilizer:** N: 180, P: 75 , K: 75. **Corn Borer Rating:** Light. **Soil Type:** Medium Clay. **Weather:** May–wet, June–dry, July–normal, August–wet.

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	246.2		22.1	100	29
POWER PLUS 2N82AM™*	198.8	12	19.6	95	23
POWER PLUS 4J99 R™*	242.0	5	22.0	100	29
POWER PLUS 4J93AM™*	243.4	4	21.8	100	27
CATALYST 5009 3220	209.8	11	21.9	100	27
POWER PLUS 5K33AM™*	238.2	6	24.4	100	26
CATALYST 6216 3111A	169.0	13	23.2	100	29
✓CHECK	238.8		22.3	100	27
POWER PLUS 6C41 S™*	259.0	1	26.0	10	28
POWER PLUS 6P73AM™*	244.3	2	25.0	100	27
BURRUS 6T54 3000GT	214.0	8	24.4	100	27
POWER PLUS 6N83AM™*	239.4	3	24.5	10	27
POWER PLUS 6F74AMX™*	222.0	7	22.4	100	26
POWER PLUS 7H23 S™*	213.5	9	23.0	60	29
CATALYST 7577 3010	208.0	10	25.0	100	27
✓CHECK	224.9		22.7	100	25
Average	213.4		20.8	100	32
Check Average	236.6		22.4	100	27

Jerald Grimes Farms
Osborn, MO

Planted: June 6 in 30" rows. **Planting Population:** 30,000. **Harvested:** October 14. **Fertilizer:** N: 200, P: 70 , K: 70. **Herbicide:** Roundup. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–wet, August–normal. ✓**Check Hybrid:** Burrus 6T54

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	178.0		18.9	90	26
POWER PLUS 5K33AM™*	193.2	4	18.0	90	25
BURRUS 6T54 3000GT	186.3	8	18.5	90	29
BURRUS 791838	197.6	3	17.5	100	25
BURRUS 995336	171.6	12	17.5	100	27
✓CHECK	185.3		19.1	100	25
POWER PLUS 6C41 S™*	203.6	1	21.4	100	23
BURRUS 277073	176.9	7	21.9	100	24
BURRUS 644188	177.3	6	16.4	100	30
BURRUS 460220	156.5	15	17.2	80	23
✓CHECK	154.7		18.6	80	28
POWER PLUS 4J99 R™*	158.4	14	17.7	90	24
POWER PLUS 7U15AM-R™*	169.3	10	16.2	90	27
POWER PLUS 6P73AM™*	187.2	2	16.8	80	22
POWER PLUS 6P75AMX™*	180.7	5	17.5	90	27
✓CHECK	187.6		17.9	95	27
CATALYST 7893 3111	153.2	24	18.5	90	29
BURRUS 406264	166.4	18	14.9	100	21
POWER PLUS 7H23 S™*	173.3	13	14.2	85	24
BURRUS 241539	184.7	9	15.1	100	26
BURRUS 292002	164.7	20	13.1	100	29
✓CHECK	182.3		19.0	100	23
BURRUS 502792	158.8	21	14.2	100	28
POWER PLUS 2N82AM™*	161.3	19	15.1	80	28
BURRUS 836363	177.0	11	17.7	100	20
POWER PLUS 4J93AM™*	136.2	25	19.9	100	28
✓CHECK	179.9		20.4	100	26
CATALYST 7577 3010	164.2	17	20.7	100	28
POWER PLUS 6F74AMX™*	148.0	22	17.1	100	29
BURRUS 453772	147.6	23	21.3	100	27
POWER PLUS 6N83AM™*	164.2	16	16.0	90	28
✓CHECK	178.4		20.0	100	27
Average	172.0		17.8	94	26
Check Average	178.0		19.1	95	26

DEKALB

Jerald Grimes
Osburn, MO

Planted: June 6 in 30" rows. **Planting Population:** 30,000. **Harvested:** October 14. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–normal, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	1000 Plants /Acre
BURRUS 791838	194.4	15.4	31
POWER PLUS 6P73AM™*	193.3	15.6	26
CATALYST 7577 3010	191.8	16.2	28
BURRUS 6T54 3000GT	191.8	16.8	29
POWER PLUS 6C41 S™*	190.6	17.2	28
CATALYST 6216 3111A	190.5	15.6	28
BURRUS 878207	190.3	16.5	26
BURRUS 277073	185.6	18.6	28
POWER PLUS 4J99 R™*	181.9	15.3	28
CATALYST 7893 3111	181.2	16.3	28
POWER PLUS 7H23 S™*	178.7	14.4	26
BURRUS 836363	177.9	16.3	28
POWER PLUS 4J93AM™*	177.7	15.1	30
POWER PLUS 7U15AM™*	176.4	15.8	28
BURRUS 460220	174.0	15.2	27
POWER PLUS 5K35AMX™*	173.7	14.7	28
BURRUS 502792	173.5	13.3	30
BURRUS 644188	172.5	15.8	30
CATALYST 5009 3220	171.5	14.9	28
POWER PLUS 6N83AM™*	168.9	13.8	28
BURRUS 995336	168.7	17.0	29
BURRUS 380264	165.9	15.6	28
POWER PLUS 6F74AMX™*	165.8	14.9	25
POWER PLUS 5K33AM™*	162.5	17.0	29
BURRUS 179401	162.2	15.1	26
BURRUS 346689	159.6	14.0	28
Average	177.7	15.6	28

GRUNDY

Gary and Aaron Bunnell
Trenton, MO

Planted: April 4 in 30"rows. **Planting Population:** 30,000. **Harvested:** September 16. **Previous Crop:** Soybeans. **Fertilizer:** N: 160, P: VRT , K: VRT. Herbicide: Haley GT Atrizine. **Insecticide:** Mustang Maxx. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. ✓**Check Hybrid:** Power Plus 4J93™. **Remarks:** G & B Farms.

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	246.2		22.1	100	29
POWER PLUS 2N82AM™*	198.8	12	19.6	95	23
POWER PLUS 4J99 R™*	242.0	5	22.0	100	29
POWER PLUS 4J93AM™*	243.4	4	21.8	100	27
CATALYST 5009 3220	209.8	11	21.9	100	27
POWER PLUS 5K33AM™*	238.2	6	24.4	100	26
CATALYST 6216 3111A	169.0	13	23.2	100	29
✓CHECK	238.8		22.3	100	27
POWER PLUS 6C41 S™*	259.0	1	26.0	10	28
POWER PLUS 6P73AM™*	244.3	2	25.0	100	27
BURRUS 6T54 3000GT	214.0	8	24.4	100	27
POWER PLUS 6N83AM™*	239.4	3	24.5	10	27
POWER PLUS 6F74AMX™*	222.0	7	22.4	100	26
POWER PLUS 7H23 S™*	213.5	9	23.0	60	29
CATALYST 7577 3010	208.0	10	25.0	100	27
✓CHECK	224.9		22.7	100	25
Average	213.4		20.8	100	32
Check Average	236.6		22.4	100	27

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.
CATALYST 7893 3111	218.4	14.2	100
CATALYST 7577 3010	208.1	14.7	100
BURRUS 6T54 3000GT	205.0	14.5	96
BURRUS 836363	202.0	14.2	98
POWER PLUS 7U15AM™*	201.3	14.8	94
BURRUS 3800264	198.6	14.5	84
BURRUS 277073	196.3	15.6	94
BURRUS 878207	189.3	14.8	94
POWER PLUS 6P73AM™*	187.7	14.3	98
BURRUS 460220	186.9	13.9	92
POWER PLUS 7H23 S™*	185.8	14.3	100
POWER PLUS 4J99 R™*	184.7	14.5	90
BURRUS 644188	182.0	14.5	96
BURRUS 791838	180.6	14.7	92
POWER PLUS 5K35AMX™*	180.5	14.6	96
BURRUS 995336	180.3	15.0	92
CATALYST 6216 3111A	179.4	14.6	100
POWER PLUS 6F74AMX™*	176.7	14.7	96
BURRUS 502792	175.6	15.2	94
POWER PLUS 5K33AM™*	175.1	14.6	96
POWER PLUS 6C41 S™*	173.5	14.7	92
CATALYST 5009 3220	172.0	14.6	96
POWER PLUS 4J93AMX™*	171.8	14.4	96
POWER PLUS 6N83AM™*	171.1	14.3	92
POWER PLUS 2N82AM™*	153.4	14.9	100
Average	185.4	14.6	95

KNOX

Burrus 6T54 averages 242 bu/a as check

Penn Family Farm
Edina, MO

Planted: April 6 in 30" rows. **Planting Population:** 32,000. **Harvested:** October 3. **Previous Crop:** Soybeans. **Fertilizer:** N: 200, P: 130 , K: 150. **Herbicide:** Surestart, Keystone, Atrazine. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **✓Check Hybrid:** Burrus 6T54 **Remarks:** Full season products shined.

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.
POWER PLUS 4J93AM™*	**237.6**	**14**	**17.1**	**59.8**
✓CHECK	240.8		19.0	59.7
POWER PLUS 2N82AM™*	**209.7**	**53**	**16.8**	**59.9**
Lewis R1407VT2P	235.4	26	16.5	61.2
Lewis 08SS707	204.0	55	16.0	62.2
Moews 3177VT2P	231.8	29	16.4	62.3
Lewis R1409VT2P	219.7	45	16.5	61.4
Mycogen MY09V45	226.1	36	16.6	60.3
Golden Harvest G07B39-3111A	221.7	44	16.9	58.8
Lewis 1055747	211.2	52	16.4	61.4
POWER PLUS 5K33AM™*	**236.6**	**22**	**17.6**	**61.5**
POWER PLUS 4J90™*	**223.0**	**42**	**16.8**	**61.0**
✓CHECK	247.9		18.4	60.6
POWER PLUS 4J99 R™*	**217.8**	**46**	**17.8**	**61.5**
Golden Harvest G10T63-3000GT	238.1	17	17.1	61.8
Moews 3599	207.4	54	16.9	62.2
Mycogen 2V709	211.7	51	16.0	60.9
Producers 7088STXRIB	213.5	50	16.5	61.0
Pioneer P1197AM	249.1	4	17.0	60.9
CATALYST 5009 3220	**214.8**	**48**	**17.0**	**61.1**
Golden Harvest G11K47-3010	225.6	34	16.6	61.0
Lewis RD1511VT2P	223.4	37	17.6	61.1
CATALYST 6216 3111A	**228.6**	**30**	**17.0**	**59.1**
Stine R9732VT3PRO	223.4	37	17.6	59.3
✓CHECK	237.1		18.5	60.5
Pioneer P1151AM	230.8	24	17.7	61.1
POWER PLUS 6C40™*	**210.7**	**49**	**17.2**	**61.7**
BURRUS 6Q60	**233.3**	**19**	**17.7**	**61.5**
POWER PLUS 6C41 S™*	**219.7**	**40**	**17.1**	**61.4**
Stine R9741VT3PRO	222.8	32	16.9	61.0
Pioneer P1257AM	248.2	1	16.6	62.0
Moews 3743VT2PRO	233.1	20	16.4	62.3
Moews 3712	224.8	31	16.7	61.9
Lewis RD113VT2PRO	233.7	18	17.1	61.5
POWER PLUS 6N83AM™*	**231.3**	**23**	**17.7**	**61.5**
POWER PLUS 6P73AM™*	**238.4**	**12**	**17.7**	**60.6**
✓CHECK	241.2		18.3	60.6
POWER PLUS 6F74AMX™*	**228.2**	**28**	**17.7**	**62.2**
Mycogen 2Y744	223.0	35	16.8	59.9
Moews 3751VT2PRO	248.4	3	17.3	59.5
POWER PLUS 7H20™*	**220.7**	**39**	**16.7**	**61.4**
Mycogen 2C799	217.4	43	17.0	60.5
POWER PLUS 7H23 S™*	**236.0**	**16**	**17.1**	**61.5**
Mycogen 2C788	244.9	6	17.2	60.3
Lewis 14DP857	248.7	2	17.3	61.4
Golden Harvest G14R38-300GT	239.4	11	18.2	60.7
Stine R9806EVT3PRO	223.6	33	17.9	60.6
Pioneer P1555CHR	236.7	15	17.4	61.9
✓CHECK	238.8		17.9	60.6
Lewis R1315VT2PRO	246.0	5	17.7	61.7
CATALYST 7577 3010	**231.6**	**25**	**17.6**	**61.5**
Lewis 16DP887	242.5	7	17.6	61.7
Agrigold 6659VT2PRIB	241.2	8	17.6	61.5
Middlekoop 9914VT2PRIB	238.1	13	17.8	61.5
✓CHECK	241.4		17.7	61.3
Agrigold 6579STX	247.3	9	18.1	61.0
Agrigold 6619VT2P	246.6	10	17.5	59.4
Agrigold 6559VT2P	225.9	41	16.7	62.4
Middlekoop 9112DGVT2P	239.4	21	16.8	61.5
Middlekoop 8812VT2P	220.8	47	16.2	61.9
Agrigold 8812VT2P	236.0	27	16.0	63.0
✓CHECK	251.2		16.8	61.6
Average	230.9		17.2	61.1
Check Average	242.6		18.1	60.7

LAFAYETTE

Power Plus® 6P73AM™* brand wins at 242 bu/a

COMPARE

Santa Fe Agri-Leader
Alma, MO

Planted: April 12 in 30" rows. **Planting Population:** 32,000. **Harvested:** September 25. **Previous Crop:** Soybeans. **Remarks:** Third party plot.

Brand/Product	Bu. Per Acre
POWER PLUS 6P73AM™*	**242.7**
Dekalb DKC68-26RIB	218.2
ProHarvest 8404	216.9
LG 5650	211.4
Golden Harvest G16K01-3111	208.2
Pioneer P1479AM	207.6
Morcorn 4319	204.9
Mycogen 2C788	202.4
Average	214.0

Power Plus® 6P73AM™* brand is 258 bu/a in 15" rows

Mahnken Brothers
Corder, MO

Planted: April 13 in 15" rows. **Planting Population:** 37,000. **Harvested:** September 28. **Previous Crop:** Soybeans. **Fertilizer:** N: 180, P: VRT , K: VRT. **Herbicide:** Corvis, Laudis. **Corn Borer Rating:** Moderate. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6P73AM™*	**258.2**	**16.0**	**61.0**	**37**
POWER PLUS 5K33AM™*	**249.9**	**14.4**	**60.5**	**37**
POWER PLUS 4J93AM™*	**247.7**	**14.0**	**60.5**	**37**
POWER PLUS 6T54 3000GT™*	**247.1**	**15.1**	**58.0**	**36**
POWER PLUS 4J99 R™*	**245.7**	**14.4**	**60.0**	**36**
POWER PLUS 7H23 S™*	**240.2**	**16.9**	**61.2**	**37**
POWER PLUS 6C41 S™*	**233.7**	**18.0**	**62.5**	**36**
POWER PLUS 6N83AM™*	**230.1**	**15.3**	**58.0**	**36**
POWER PLUS 2N82AM™*	**225.8**	**14.0**	**59.5**	**37**
POWER PLUS 6F74AMX™*	**225.5**	**16.7**	**63.2**	**36**
CATALYST 5009 3220	**224.7**	**14.4**	**58.5**	**35**
CATALYST 7577 3010	**224.5**	**18.3**	**61.0**	**36**
Average	237.8	15.6	60.3	36

COMPARE

David Dobson
Lexington, MO

Planted: April 9 in 30" rows. **Planting Population:** 35,500. **Harvested:** September 21. **Previous Crop:** Soybeans. **Fertilizer:** N: 200, P: 80 , K: 80. **Herbicide:** Corvise. **Insecticide:** None. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **✓Check Hybrid:** Burrus 6T54

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	211.8		18.4	58.5	32
POWER PLUS 5K33AM™*	**229.6**	**3**	**16.6**	**60.7**	**31**
POWER PLUS 4J93AM™*	**226.5**	**5**	**15.3**	**60.0**	**32**
CATALYST 5009 3220	**222.5**	**6**	**17.6**	**59.4**	**31**
✓CHECK	242.7		16.6	61.2	30
POWER PLUS 6P73AM™*	**232.6**	**4**	**17.1**	**61.3**	**30**
POWER PLUS 7H23 S™*	**215.2**	**7**	**17.1**	**60.3**	**31**
CATALYST 6216 3111A	**206.8**	**8**	**17.0**	**57.3**	**31**
CATALYST 7577 3010	**178.5**	**9**	**18.0**	**59.5**	**31**
POWER PLUS 6C41 S™*	**238.2**	**2**	**18.9**	**61.7**	**32**
POWER PLUS 6P73AM™*	**242.8**	**1**	**16.2**	**60.0**	**32**
✓CHECK	221.5		17.6	60.3	30
Average	222.4		17.2	60	31
Check Average	225.3		17.5	60	30

We need new direction for next year

Battling weed resistance

by Matt Montgomery

Row crop agriculture faces some tremendous threats and one especially severe threat is the ongoing battle against herbicide resistance.

What needs to be done?

A new philosophy is needed in herbicide resistance management. To succeed in this battle, we must change the focus of weed management and we must embrace something we have called, the E-method.

The E-method is a technique of battling resistance developed in the 1950s by the medical profession. It requires the use of three different drugs from at least two different Site of Action (SOA) families simultaneously. The use of such cocktails was a resounding success. Within agriculture, the E-method promotes the use of pre-emergent herbicides while also promoting the use of accompanying post-applied residual herbicides. In other words, the E-method reiterates what the University of Illinois found in a 2015 study. Multiple herbicide SOA families must be used in-season to avoid resistance development. An annual herbicide program can no longer rely on one herbicide family.

The new focus of weed management will require that we no longer view herbicides as an annual investment like anhydrous. We have often expected weed management to completely pay for itself during year one. However, this approach has failed us. Embracing the cheapest (or cheaper) programs has led to more than 200 resistant weed species worldwide. A herbicide program is more similar to an equipment purchase or an investment in P, K, or lime. We expect those inputs to provide very little return during year one, but realize they are actually an investment that yields a return over multiple years. We are willing to invest in an expensive piece of equipment knowing that piece of equipment will be paid for over multiple seasons. Herbicide programs are no different. Yes, they provide a little return this year, but are actually an investment in reducing the weed seed bank. They are an investment in maintaining the long-term productivity of the farm.

With the E-method and a long-term perspective in mind, do not be afraid to:

- Use a pre-emerge, residual product even if it adds short term pain to the budget.
- Add a residual product to your post-emerge program.
- Rotate modes of action, Liberty® for instance.
- Mow roadsides to keep edge of field weeds from contributing to in-field resistance.
- Eliminate that weed or two that escaped even if it is hard to justify the use of time.
- Scout fields to fine tune next season's weed control program.
- Harvest the weediest fields last to reduce the spread of resistant weed seed.

Keep your eye on the long-term and use the E-method to ward off resistance. That is the best on-farm recipe to winning the resistance battle.

Burrus AM John Howell, Maggie Prather & Jillian Monier pose with a Budweiser Clydesdale at the Monroe Co. Fair.

Seth Root, a customer of David Simms, was well pleased with his Power Plus® in Edwards Co.

Burrus filled to the tips!

Tom Burrus and Lewis Thompson enjoyed attending the Rutter Farms field day.

Maggie Prather, Zach Montgomery & Hayden Swanson found next to zero injury during a root wash session.

Variable Rate Seeding: A tactic for tight times

by Troy Horton,
Director of IT and Precision Ag

These are tight times. Low corn and soybean prices demand more efficient input utilization across your operation. At Burrus, we know that times are tough and want to partner with you to ensure your operation is profitable. If you have Variable Rate Seeding (VRS) technology on your farm, you can leverage the power of the Burrus COP (Crop Optimization Planner) and the MyFarms℠ system to increase yields as well as maximize the value of your seed investment. No field data? No problem. Simply contact your Burrus Account Manager to get started. The VRS prescription automatically flexes around the best of what you know about each field to identify the best seeding rate for each acre.

You can use soil types to create your seeding strategy without extra effort. If you have experience in a field, you can create hand-drawn productivity zones or if you have yield maps, bring them into the conversation with your seed advisor. Burrus COP powered by MyFarms takes the best of what you know to find the best rate for each acre.

Then, take the controls to establish variable rate seeding ranges you are comfortable with and watch our state-of-the-art automation crunch the numbers to find the best population for each acre.

At Burrus, we are fiercely independent, like you, the American Farmer. So, from order to harvest, Burrus Seed with the Burrus COP is there for YOU.

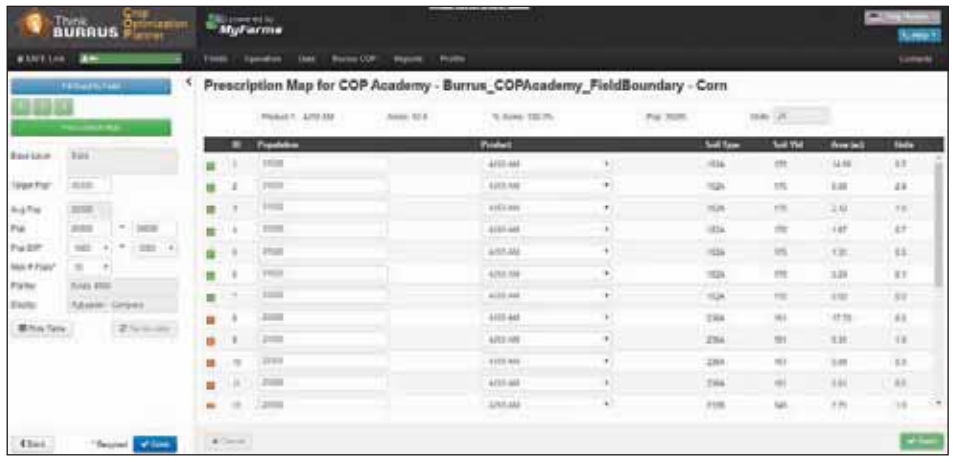
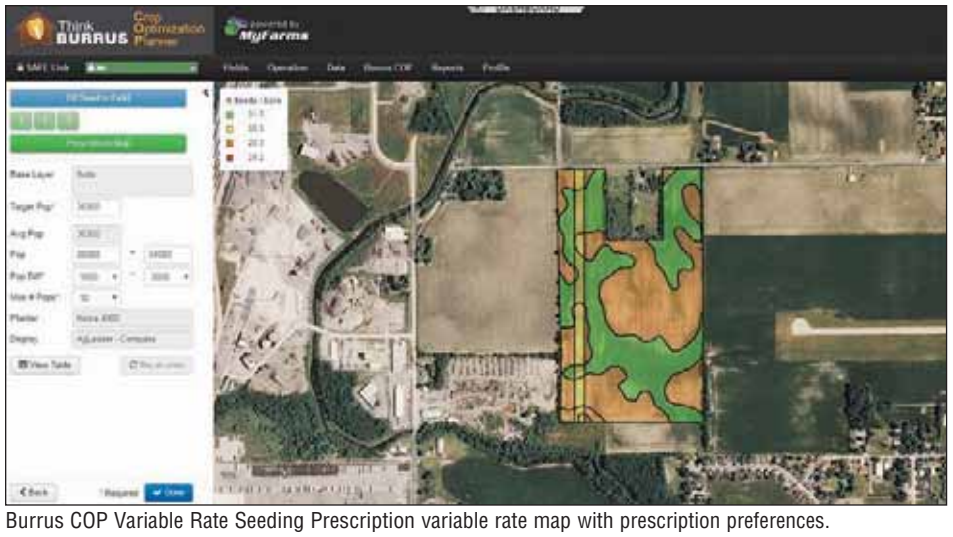


Table view of the variable rate prescription and prescription preferences.



Burrus COP Variable Rate Seeding Prescription variable rate map with prescription preferences.

Santa Fe Agri-Leader
Alma, MO

Planted: April 12 in 30" rows. **Planting Population:** 32,000. **Harvested:** September 25. **Previous Crop:** Soybeans. **Remarks:** Third party plot.

Brand/Product	Bu. Per Acre
Pioneer P1197AM	233.0
LG 5548ST	214.2
Dekalb DKC61-55RIB	206.4
Mycogen 2V709	204.8
POWER PLUS 4J93AM™*	**201.3**
Golden Harvest G07F23	199.3
Morcorn 3544	199.1
ProHarvest 6734	181.4
Average	204.9

Chris Howell calls it a day after harvesting his last field in Randolph Co.

Winning 1, 2 & 3

COMPARE !

Greg Bertz
Mayview, MO

Planted: April 15 in 30" rows. **Planting Population:** 32,500. **Harvested:** September 21. **Previous Crop:** Soybeans. **Fertilizer:** N: 165, P: 95 , K: 100. **Herbicide:** Armazon. **Insecticide:** None. **Corn Borer Rating:** Moderate. **Soil Type:** Medium loam. Weather: May–normal, June–dry, July–wet, August–wet. **✓Check Hybrid:** Power Plus 7U15 AM™*

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	214.9		16.7	100	30
Lewis 1655887 DP	184.8	12	17.7	100	30

Todd Burrus gives the Morgan-Scott CEO class a tour of the Arenzville Production facility.

Lewis 14 VTDP	199.4	8	15.3	95	27
Lewis R 1414 VTDP	203.3	7	17.1	100	28
POWER PLUS 7H23 S™*	**209.8**	**1**	**16.6**	**95**	**31**
Lewis R 1313	206.1	5	15.5	100	32
Lewis R1313 VTDP	205.8	6	15.4	100	32
✓CHECK	212.2		15.9	100	32
POWER PLUS 6P73AM™*	**201.4**	**10**	**16.3**	**100**	**32**
POWER PLUS 6C41S™*	**211.9**	**4**	**19.0**	**100**	**32**
Lewis RD 1511 VTDP	203.0	9	16.8	100	30
POWER PLUS 5K33AM™*	**214.4**	**2**	**16.8**	**96**	**28**
Lewis R1409 VTDP	192.1	11	16.9	100	28
Lewis 08SS707	184.6	13	15.5	100	30
POWER PLUS 4J93AM™*	**212.7**	**3**	**16.1**	**100**	**30**
✓CHECK	225.9		17.3	100	30
Average	205.1		16.6	99	30
Check Average	217.7		16.6	100	30.7

Power Plus® 38K6™* PS SDS starts the Lewis Co, MO plot at 68.9 bu/a for Larry Rutledge.

What makes Burrus seed treatments superior to our competition?

Being an independent company, we access the highest quality components from five different sources. We are proud of our PowerShield® seed treatment's continued ability to outperform the competition.

Cold emergence testing and careful handling. At Burrus, we have conducted cold emergence testing for over 35 years, planting in March to evaluate which seed treatments can establish a stand when conditions are less than ideal. It helps to start with the highest quality seed possible. Our pre-harvest protocols start improving cold germination before seed treatments are applied.

Rapid grow off. After germination, we watch the plants grow, selecting seed treatments that take up nutrients and grow off rapidly and uniformly. Our three biologicals are used to aid in this process, a step few other seed companies take.

More yield! Our seed treatment package adds 5.3 bu/a compared to Poncho® 250 and 10 bu/a more than the standard fungicide treatment. More seed in the tank means more money in the bank!

Superior insect control. Since moving to Poncho® 500 VOTiVO®, we have not had to replant seed corn due to black cutworm or wireworm. This is a value for our growers as well as our company since we proudly furnish 100% free replant.

Controls more fungal pathogens. We use Maxim® Quattro which contains four powerful fungicides that supply both systemic and contact protection. Multiple modes of action provide unsurpassed seed and soil-borne protection.

A new ingredient was added for 2017. University testing as well as supplier data supports our decision to add a new chemistry to our PowerShield mix that controls resistant strains of Pythium that have caused damping off in some areas. While this addition adds cost to our treatment package, it was absorbed by Burrus. Providing you the best combination of seed treatment components is why many growers plant all Burrus.

Reliable performance. 80% of the time, PowerShield Poncho 500 outperforms Poncho 250, meaning you can expect consistent and continued success.

VOTiVO and Avicta® protect the roots from nematodes. Not only do you get more root and shoot mass, the primary root is elongated for faster penetration in the soil. VOTiVO grows around the roots to fend off the various species of nematodes and Avicta kills them dead.

Our PowerShield seed treatment on soybeans includes insecticide, multiple fungicides, and biologicals too.

We combine treatments to create a winning team. Our soybeans are treated with EverGol® Energy for multiple modes of action of systemic fungicide. Because many of the highest yielding varieties can be weak against Phytophthora, a 2X rate of Allegiance® is used for extra protection. Finally, our beans are protected from aphids and other early season insects with the power of Gaucho® 600 insecticide. In addition to keeping fungal diseases at bay, we control early season insects and add 2 to 3 bu/a in yield; it's no wonder 92% of our soybeans are treated with PowerShield year after year.

Strong grow off. Three biologicals enhance rapid grow off and root development to add yield. Like our corn treatment, we test our soybean PowerShield treatment under cold, wet conditions to ensure we identify the strongest and most effective combination of active ingredients to establish stand. When you plant at least 90% of your soybeans treated with PowerShield seed treatment you qualify for 100% free replant.

New policy in 2017! PowerShield for Sudden Death Syndrome (PS SDS) is an option on all soybean varieties ordered in EZ load boxes for 2017. Select varieties will be offered in individual units including, Hoblit 384LL, Hughes 266LL, Hughes 555, Power Plus® 26Z5™*, Power Plus® 36J3™* and Power Plus® 36A1X™*.

We have done the research and our PowerShield seed treatments are the right formulation of chemistries at the right rate, giving the right return on investment by providing the right performance edge – all at no extra cost. Competitors offer seed treatment upgrades for $17 to $18 per unit. At Burrus, our standard is another's extra mile.

Scott Rutledge
Monticello, MO

Greg Bertz & Tim Barnes saw the Burrus lineup take the top three places in Lafayette Co., MO.

An experimental hybrid steals the show in Chariton Co., MO for David & Susie Emmerich of Big Red Farms.

Sheldon & Patty Davis saw Power Plus® 4J93AM™* steal the show at 234 bu/a in Atchison Co., MO.

Power Plus® 4J93AM™* looked great for Joe Baumgartner in Boone Co., MO.

LAFAYETTE

Santa Fe Agri-Leader
Alma, MO

Planted: April 12 in 30" rows. **Planting Population:** 32,000. **Harvested:** September 25. **Previous Crop:** Soybeans. **Remarks:** Third party plot.

Brand/Product	Bu. Per Acre
Pioneer P1257AM	229.6
LG 5618	219.8
Dekalb DKC63-33RIB	212.5
POWER PLUS 6C41 S™*	**211.8**
Morcorn 4178	210.6
Golden Harvest G14V04	207.1
Mycogen 2C799	202.3
Average	213.4

LEWIS

Lance Carlson
Ewing, MO

Planted: April 20 in 15" rows. **Planting Population:** 36,000. **Harvested:** September 19. **Previous Crop:** Fallow. **Fertilizer:** N: 220, P: 80, K: 80. **Corn Borer Rating:** Light. **Soil Type:** Heavy loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **Remarks:** High pops on 15 inch rows. Shelled with Mainero any direction head in cooperation with Quincy Tractor.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6F74AMX™*	**201.8**	**20.0**	**60.0**	**34**
POWER PLUS 6F74AMX™*	**200.8**	**20.0**	**60.0**	**34**
POWER PLUS 6F74AMX™*	**199.7**	**20.0**	**60.0**	**34**
POWER PLUS 6F74AMX™*	**182.2**	**19.5**	**59.9**	**34**
Average	196.1	19.9	60.0	34

Planted: April 25 in 30" rows. **Planting Population:** 30,000. **Harvested:** October 10. **Previous Crop:** Soybeans. **Fertilizer:** N: 175, P: 60 , K: 100. **Herbicide:** Roundup, Degree Xtra. **Insecticide:** Permethrin. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–normal, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	1000 Plants /Acre
CATALYST 7893 3111	**230.2**	**17.4**	**100**	**29**
POWER PLUS 5K33AM™*	**221.8**	**16.6**	**50**	**28**
POWER PLUS 6C41 S™*	**221.0**	**18.6**	**82**	**27**
POWER PLUS 7U15AM™*	**214.6**	**16.9**	**94**	**27**
POWER PLUS 4J93AM™*	**214.4**	**16.2**	**70**	**28**

GUIDE TO ACCURATE CORN PLANTING

Use the chart below for setting your planter.

John Deere Finger Pickup **Kinze Finger Pickup *1**	Reduce speed 10% 35-39#, Reduce speed by 33% below 35#
John Deere Vacuum Pickup	A50617 40-88#, A43215 25-50#, H136478 25-35#
Case IH & IHC Early Riser	Corn Drum 30-80#, Popcorn Drum less than 35#, New E pocket drum for problem sizes
Case IHC 1200 **New Holland SP Series**	4855 Disc for 30-70#, 4845 disc below 50#
Ford or White Air 5400	247396B 57-73#, 247454B 42-62#, 247535B 28-50#
White Air 5100	247917B 57-73#, 247707B 42-62#, 248505B 28-50#, 247957B 22-33#
White Air 6000 **New Idea 9000**	852434 57-73#, 852435 42-62#, 852436 25-50#, 852437 22-33#
Deutz Allis	Seed Disc X Large (585805) 59# & over, Large (586141) 45-60#, Medium (585807) 39-52#, Sm/Medium (1501872) 30-39#, Small (587485) 30# & less

The Powell Family chosen as Farm Family of the Year

At 221 bu/a John Cramer saw Power Plus® 6P73AM™* take the top honors in Livingston Co., MO.

Mark & ChaRae Penn saw Burrus 6T54 3000GT provide the highest yield in their Knox Co., MO plot.

Several inches of rain allowed Burrus AM Rob Church to excavate and show just how deep corn roots can go!

Daryl Walkup of Clinton Co., MO saw Power Plus® 6C41 S™* win at 246.7 bu/a.

Tours of the Burrus Arenzville production facility were just one feature for guests who attended New Technology Day.

Burrus Hybrids partnered again with *Illinois Agri-News* to sponsor the 2016 Illinois Farm Family of the Year. The Jim Powell family from Greene County was chosen for the award, presented on September 10th during the University of Illinois Salute to Agriculture Day.

To be on campus for Ag Day was especially pleasing to Jim, having received a Master of Science degree in civil engineering from U of I. He was also involved in ROTC while in college. He wanted to carry on the long tradition of military service of his grandfather and six great uncles. The seven brothers served in World War II following the attack on Pearl Harbor and all returned home safely after the conflict. In their honor, a portion of US Highway 67 is named for them. Jim's dream was to be a pilot like his grandfather and father but while in ROTC, he learned he was color blind and wasn't able to fly.

Jimmy Powell, son of Jim and Janet, along with his wife and children are the fifth generation of the family to live and farm in the Hillview area. Their farming operation includes corn and soybean row crops and have proactively adapted to agriculture's ever-changing technology to ensure the next generation can continue to farm and carry on this rich legacy. They also have a 40 head beef cattle herd. In addition, the family operates the local elevator.

The family has been active in the community serving on various local boards, levee districts, and hospital boards. They are strong supporters of the local 4-H, FFA, and other school related organizations and clubs.

For all the Powell family does on and off the farm and especially for the manner in which they do it all together as a family, we are proud to salute them as the 2016 Illinois Farm Family of the Year.

The Powell family of Greene County is honored as the 2016 Illinois Farm Family of the Year during the Salute to Agriculture at the University of Illinois. Pictured (from left) are family members Noah, Gus, Jim and Janet Powell, Sarah Schmidt and Vincent, Angie and Julia Powell in the front row, with award co-sponsor Tom Burrus, president of Burrus Hybrids, and family members Steve and Lynn Hart, Lucy Powell, Collin Hart, Addie and Molly Schmidt, Jimmy Powell, Doug Schmidt and John Powell in the back row. The award is presented annually by Burrus Hybrids and Illinois AgriNews. Agri-News photo by James Henry

George and Addie Powell pose for a photo on the front porch of their Greene County, IL, home in 1941 with their 13 children. Seven of the Powell sons - Adrian, Arthur, Earl, Everett, Fred, George and Max - served in the military during World War II. Everett, a pilot, was taken prisoner in the European Theater of Operations and released in 1945.

BURRUS 502792	**214.3**	**15.8**	**100**	**29**
BURRUS 380264	**212.3**	**17.8**	**100**	**26**
POWER PLUS 4J99 R™*	**210.5**	**16.2**	**100**	**28**
BURRUS 791838	**210.2**	**16.4**	**100**	**26**
POWER PLUS 7423 S™*	**209.7**	**17.2**	**96**	**25**
BURRUS 644188	**209.7**	**17.3**	**96**	**29**
POWER PLUS 5K35AMX™*	**208.5**	**15.9**	**99**	**27**
BURRUS 6T54 3000GT	**206.0**	**18.5**	**98**	**28**
CATALYST 7577 3010	**205.5**	**17.8**	**100**	**30**
BURRUS 460220	**205.4**	**16.9**	**96**	**28**
BURRUS 878207	**202.8**	**16.2**	**98**	**28**
CATALYST 6216 3111A	**198.6**	**15.8**	**100**	**30**
POWER PLUS 6P73AM™*	**197.4**	**15.7**	**97**	**28**
BURRUS 836363	**197.3**	**17.1**	**64**	**27**
BURRUS 277073	**193.1**	**19.6**	**100**	**26**
BURRUS 995336	**189.7**	**17.6**	**100**	**26**
POWER PLUS 6F74AMX™*	**184.2**	**16.5**	**98**	**26**
POWER PLUS 2N82AM™*	**179.4**	**15.5**	**100**	**27**
BURRUS 179401	**170.9**	**17.1**	**100**	**24**
POWER PLUS 6N83AM™*	**170.6**	**16.5**	**58**	**28**
CATALYST 5009 3220	**142.5**	**15.5**	**97**	**28**
Average	200.8	16.9	92	28

LIVINGSTON

Power Plus® 6P73AMX™* brand wins plot

COMPARE

John Cramer
Chillicothe, MO

Planted: April 17 in 30" rows. **Harvested:** September 28. **Previous Crop:** Soybeans. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **Remarks:** Plot planted and taken out by MFA.

Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 6P73AM™*	**221.9**	**15.2**
AgriGold 6517VT3P113	220.9	16.0
AgriGold 6499	215.8	15.1
POWER PLUS 5K33AM™*	**212.3**	**15.4**
ProHarvest 8265	207.7	15.6
MorCorn MC 4377 DG 113	197.9	15.3
AgriGold 6472VT2P110	190.6	15.2
Dekalb 63-40 WXY	189.6	15.3
AgriGold 6559VT2P113	188.7	14.7
POWER PLUS 4J90™*	**184.4**	**13.7**
ProHarvest 8218	183.9	14.5
Pioneer 1257 AM LL/R 112	182.9	16.8
Dekalb 63-11 113	174.5	15.6
POWER PLUS 6Q60™*	**168.6**	**14.5**
MorCorn EXP 1611 WXY 111	163.1	15.2
Dekalb 62-98 VT2P112	160.2	16.4
Lewis RWX110	150.0	23.8
Average	189.0	15.8

Compare cropping system's impact on bottomline income

Rodney Roepe, Kymlee, Jenna & Tatum Fitzwater & Greg Tieman saw Power Plus® 4J93AM™* rank #1 in Saline Co., MO.

New Power Plus® 5K33AM™* at 221 bu/a for Scott & Colton Rutledge of Lewis Co., MO.

Charlie, Brant, Leah, Hanna, Jake, Jalyn, Brandon & Joe Snider & Kent Perry of Shelby Co., MO saw Power Plus® 6C41 S™* at 243 bu/a.

New products excel in Lafayette Co., MO with a 237.8 bu/a plot average for Jeff Vorwork, Paul, Luke & David Mahnken.

Jim & Jeff Gibson saw Power Plus® 2N28AM™* at the head of the class in Buchanan Co., MO.

by Matt Montgomery

Each issue of the Harvest Report features an article on per acre income. Burrus always presents it with a certain degree of caution because our central mission is to provide quality seed and superior service. We are not a marketing firm. That being said, we do provide growers with our own per acre income thoughts, hoping our insight will spur conversations with those who are marketing specialists.

We developed the charts included in this article using University of Illinois and University of Missouri crop budget resources. We combined those research based numbers with our own internal data, information gleaned from competitive intelligence, and historical data. We present average annual income scenarios for various cropping systems over a three year period ("C" stands for corn and "B" stands for beans in the rotation scenarios). The red bars are the likely average income over a three year period. The arrows represent the best and worst case income scenarios around the more likely estimate. We provide these graphs for various geographic zones. These income scenarios do not include crop insurance income or costs associated with land (rental rates for instance).

The graphs provide a familiar yet slightly more positive story. While projected grower income has dropped dramatically since 2013, Burrus notes projected annual average income has slightly improved over last season's numbers. Additionally, we note that downside risk has improved. The number of scenarios that might draw a grower toward or below breakeven has been trimmed roughly in half.

That is good news but the sobering reality of agriculture's situation remains. Our industry will continue to find itself in tight times. The situation may have improved (thanks in part to wise cost saving measures), but it remains tight. Corn remains a more expensive crop to produce, but it also remains capable of milking a lot of income out of ideal scenarios when grown with beans in rotation. Beans in rotation continue to provide a lot of income stability. Continuous corn proves more difficult for income.

Our thoughts remain similar to those expressed over the past two seasons that:

- Growers must consult with a marketing specialist. These experts in the field can squeeze more pennies out of every bushel.
- Growers must continue to evaluate their purchases. The economic environment continues to favor necessary consumption over luxury consumption.
- Growers must continue to evaluate their return on investment. Look for inputs that add yield! An input should yield a few to several bushels 70% of the time.
- Growers must be careful to not cut necessities as they attempt to trim expenses. Decisions that cut gross return (bushels) make it very difficult to improve net return (after expense income).
- Growers must continue to negotiate improvements in their land-related expenses (chiefly cash rents). While reductions in cash rent and other land-related costs may still be unattainable, some cash rent correction has occurred this season. That conversation with the landlord is still a must.
- Growers should continue to work with the various crop insurance options to minimize the risks in a lower margin economic environment.

MACON

Lee Bixenman
Callao, MO

Planted: April 8 in 30" rows. **Planting Population:** 31,000. **Harvested:** September 12. **Previous Crop:** Soybeans. **Fertilizer:** N: 205, P: 90, K: 120. **Herbicide:** Corvus Atrazine Dual. **Insecticide:** Baythroid. **Corn Borer Rating:** Light. **Soil Type:** Medium loam.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 5K33AM™*	**235.4**	**21.7**	**100**	**58.9**	**29**
POWER PLUS 6P73AM™*	**228.3**	**21.1**	**100**	**57.3**	**29**
POWER PLUS 6C41 S™*	**226.6**	**21.7**	**100**	**58.4**	**29**
POWER PLUS 6T54 3000GT™*	**218.9**	**23.8**	**100**	**57.9**	**29**
POWER PLUS 4J93AM™*	**216.3**	**28.3**	**100**	**60.5**	**29**
CATALYST 6216 3111A	**214.7**	**20.0**	**100**	**55.0**	**29**
POWER PLUS 6F74AMX™*	**205.6**	**20.1**	**100**	**61.0**	**29**
POWER PLUS 7H23 S™*	**203.7**	**24.5**	**100**	**59.2**	**29**
POWER PLUS 4J99 R™*	**199.2**	**27.6**	**100**	**59.9**	**29**
POWER PLUS 6N83AM™*	**191.9**	**28.1**	**100**	**59.5**	**29**
CATALYST 5009 3220	**188.8**	**28.1**	**100**	**59.0**	**29**
POWER PLUS 2N82AM™*	**162.5**	**16.2**	**100**	**59.0**	**29**
CATALYST 7577 3010	**156.1**	**25.6**	**100**	**57.4**	**29**
Average	203.7	23.6	100	58.7	29

Owen Bender saw Catalyst 7893 3111 & Catalyst 7577 3010 top the Holt Co., MO plot.

SALINE

Power Plus® 4J93AM™* brand ranks #1

Greg Tieman
Blackburn, MO

Planted: April 12 in 30" rows. **Planting Population:** 32,000. **Harvested:** September 21. **Previous Crop:** Soybeans. **Fertilizer:** N: 200, P: 80 , K: 100. **Herbicide:** Lumax, Hales. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **✓Check Hybrid:** Burrus 6T54 **Remarks:** This plot took a lot of water. Was flooded 4 times.

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	175.3		15.7	100	31
POWER PLUS 4J93AM™*	**216.7**	**1**	**15.3**	**100**	**30**
POWER PLUS 5K33AM™*	**183.6**	**10**	**15.2**	**85**	**28**
CATALYST 5009 3220	**214.9**	**2**	**16.6**	**100**	**30**
CATALYST 6216 3111A	**205.3**	**4**	**16.4**	**100**	**31**
✓CHECK	193.0		17.0	100	31
POWER PLUS 7H23 S™*	**209.0**	**6**	**17.0**	**80**	**30**
POWER PLUS 6N83AM™*	**198.5**	**11**	**16.9**	**100**	**30**

New Power Plus® 5K33AM™* & Power Plus® 6P73AM™* went one/two in Macon Co., MO for Jeff Bixenman.

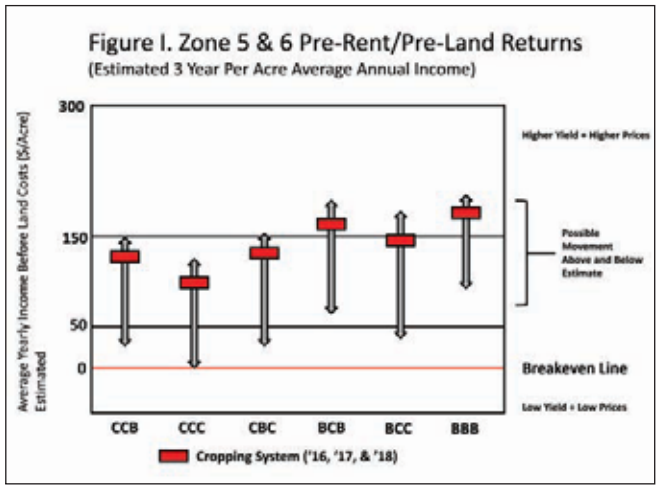
POWER PLUS 6P73AM™*	230.8	3	16.5	100	30
POWER PLUS 6F74AMX™*	203.8	8	16.7	100	30
POWER PLUS 6C41 S™*	207.8	7	19.5	20	31
CATALYST 7577 3010	200.7	9	18.4	100	31
✓CHECK	209.1		17.7	100	31
POWER PLUS 4J93AM™*	227.9	5	16.2	100	30
Average	205.5		16.8	92	30
Check Average	192.5		16.8	100	31

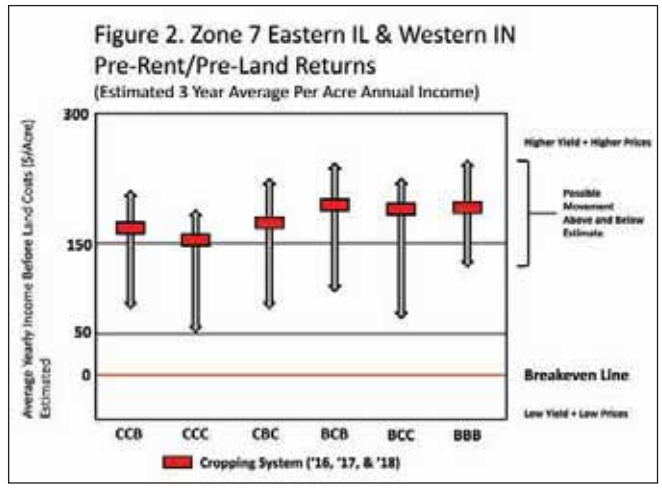
Phil Henke
Gilliam, MO

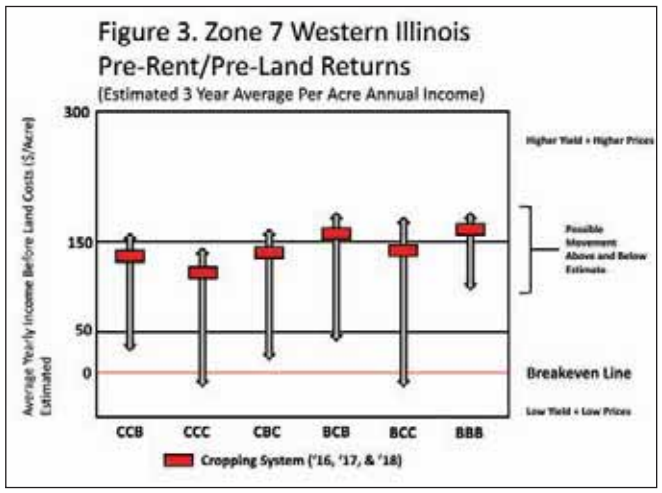
Planted: April 7 in 30" rows. **Planting Population:** 29,900. **Harvested:** September 20. **Previous Crop:** Soybeans. **Fertilizer:** N: 195, P: 80 , K: 80. **Herbicide:** Sure Start. **Insecticide:** None. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **✓Check Hybrid:** Burrus 6T54

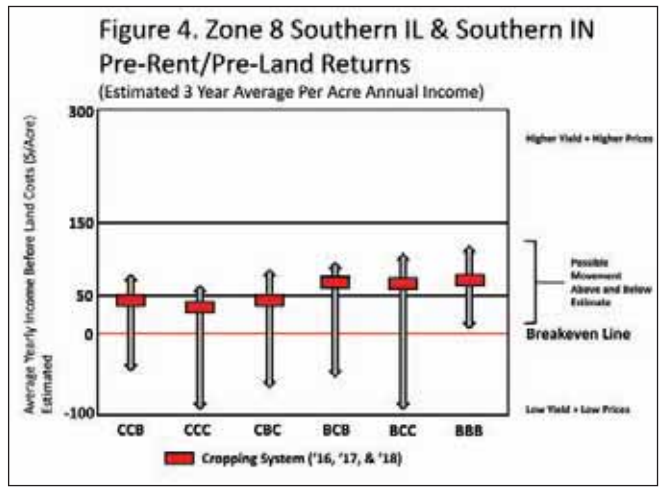
Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	155.3		16.0	100	28
POWER PLUS 5K33AM™*	**170.5**	**9**	**15.9**	**100**	**29**
POWER PLUS 4J93AM™*	**179.2**	**7**	**15.0**	**100**	**29**

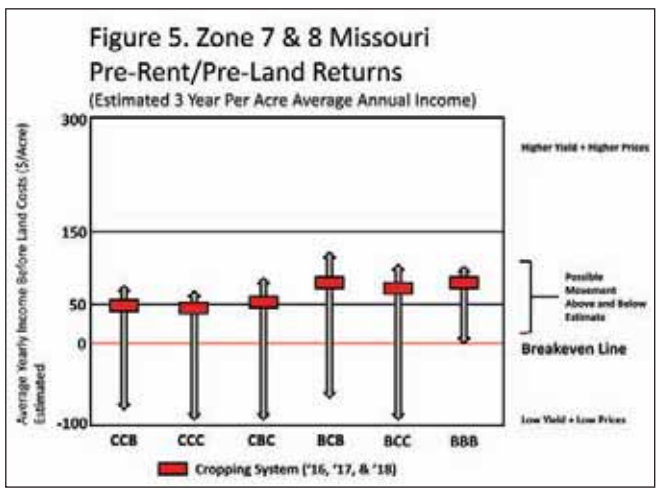
Burrus intern Morgan McCormick and Burrus AM Rob Church with Power Plus® 6C41 S™* in Holt Co., MO.

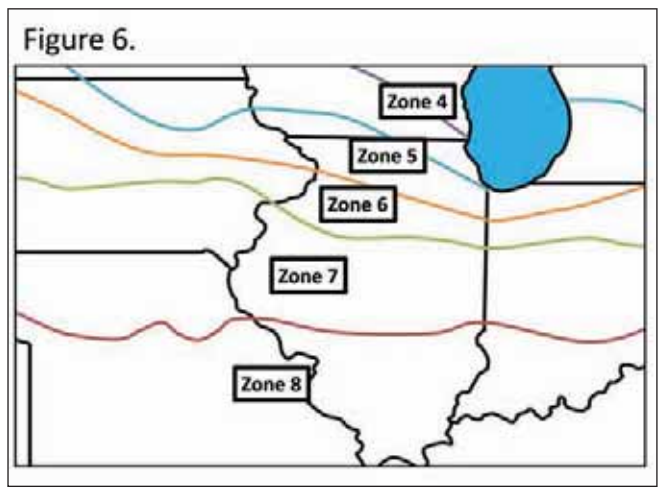












CATALYST 5009 3220	164.1	10	15.0	100	28
POWER PLUS 7H23 S™*	183.0	5	17.3	55	28
CATALYST 6216 3111A	188.0	4	16.6	100	28
POWER PLUS 6P73AM™*	206.6	2	16.8	100	29
POWER PLUS 6N83AM™*	182.9	6	17.8	100	28
CATALYST 7577 3010	171.4	8	49.9	100	28
POWER PLUS 6C41 S™*	201.8	3	19.5	100	28
POWER PLUS 7U15AM™*	215.7	1	18.9	100	28
✓CHECK	189.7		17.9	100	28
Average	184		19.7	96	28
Check Average	172.5		17	100	28

Lance & Zach Carlson of Lewis Co., MO saw Power Plus® 6F74AMX™* over 201 bu/a in 15" rows & harvested with a Mainero head.

SHELBY

Power Plus® 4J93AM™* brand smoked the competition

Jerry Broughton
Emden, MO

Planted: April 9 in 3" rows. **Planting Population:** 30,000. **Harvested:** September 22. **Previous Crop:** Soybeans. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **Remarks:** 105 vs 109 GDD Burrus 4J93 with impressive dry down.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	1000 Plants /Acre
POWER PLUS 4J93AM™*	230.0	16.8	100	30
Pioneer P0589	213.7	16.6	100	30
Average	221.8	16.7	100	30

New Power Plus® 6P73AM™* wins at 223 bu/a in Carroll Co., MO for Mark Jenkins, Steve Bennett, Ronald & Charlie Jenkins.

Kenny & Jeanna Rutter saw their Shelby Co., MO plot average over 202 bu/a.

New Power Plus® 6P73AM™* brand wins at 227 bu/a

COMPARE

Rutter Farms
Shelbina, MO

Planted: April 15 in 30" rows. **Planting Population:** 29,000. **Harvested:** October 5. **Previous Crop:** Fallow. **Fertilizer:** N: 150, P: 30, K: 30. **Herbicide:** Degree Xtra, Atrazine. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **Remarks:** Power Plus 2N82 outside row with chemical damage from soybean plot. Large wind storm 6-22-16.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6P73AM™*	227.3	15.9	100	59.0	30
POWER PLUS 6C41 S™*	215.5	17.5	96	62.9	28
CATALYST 7577 3010	214.0	17.3	100	60.8	27
BURRUS 6T54 3000GT	208.9	17.4	96	59.8	25
POWER PLUS 6N83AM™*	207.3	16.1	100	58.0	29
POWER PLUS 4J93AM™*	207.3	14.1	100	59.0	31
POWER PLUS 7H23 S™*	206.7	17.0	65	61.3	28
POWER PLUS 6F74AMX™*	201.3	15.9	88	61.0	28
CATALYST 6216 3111A	200.8	15.1	96	58.0	30
POWER PLUS 5K33AM™*	200.4	14.9	88	59.5	29
CATALYST 5009 3220	172.5	14.9	100	58.0	29
POWER PLUS 2N82AM™*	168.1	13.8	100	59.0	27
Average	202.5	15.8	94	59.7	28

Jerry Broughton
Emden, MO

Planted: April 9 in 30" rows. **Harvested:** September 27. **Previous Crop:** Soybeans. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **Remarks:** Pioneer P1248 - Grower noted a few skips in the pass.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	1000 Plants /Acre
POWER PLUS 6F74AMX	200.9	13.6	100	30
Pioneer P1248	197.1	14.4	100	29
Pioneer P1479	195.9	15.7	100	30
Average	198.0	14.6	100	30

Joe Snider
Lakenan, MO

Planted: April 14 in 30" rows. **Planting Population:** 28,000. **Harvested:** October 1. **Previous Crop:** Fallow. Fertilizer: N: 180, P: 60 , K: 90. **Corn Borer Rating:** Light. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **Remarks:** Power Plus 2N82AM™* was near brush and had extensive deer damage.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6C41 S™*	243.9	18.2	100	64.5	29
BURRUS 6T54 3000GT	236.2	16.9	100	59.2	28
POWER PLUS 6P73AM™*	236.0	14.9	100	58.0	29
POWER PLUS 5K33AM™*	232.1	14.6	56	61.5	27
CATALYST 7577 3010	229.2	16.3	100	60.5	29
POWER PLUS 4J93AM™*	225.4	14.9	96	59.0	27
CATALYST 5009 3220	223.0	14.0	100	58.0	27
CATALYST 6216 3111A	222.4	14.7	100	56.5	28
POWER PLUS 6N83AM™*	216.3	15.2	100	58.0	26
POWER PLUS 6F74AMX™*	216.0	15.8	100	60.5	27
POWER PLUS 7H23 S™*	212.3	15.4	60	61.0	27
POWER PLUS 2N82AM™*	165.4	14.2	72	59.0	28
Average	221.5	15.4	90	59.6	28

Your future is in the bag.

Which Burrus Hybrids are right for your farm?

Brand	Days to maturity	Roundup Ready®	Liberty Link®	Plant height	Ear height	Ear type	Speed of emergence	Corn on corn	Refuge requirement	Drought tolerance	Water optimization	Greensnap	Nematode	Corn borer	Corn rootworm	Western bean cutworm
GENERAL CHARACTERISTICS							**PLANTING INFORMATION**			**RESPONSE TO ENVIRONMENTAL CONDITIONS**			**PROTECTION FROM PESTS**			
ABOVE/BELOW-GROUND INSECT CONTROL																
Power Plus 1S26AMXT™*	101	Yes	Yes	8	6	Flex	8	Good	Integrated refuge	7	None	8	Yes	Yes	Yes	6*
Power Plus 1G48AMXT™*	102	Yes	Yes	6	7	Intermediate	7	Excellent	Integrated refuge	8	None	6	Yes	Yes	Yes	6*
Power Plus 2F91AMXT™*	103	Yes	Yes	6	5	Fixed	8	Good	Integrated refuge	8	None	9	Yes	Yes	Yes	6*
Power Plus 2B77AMXT™*	105	Yes	Yes	6	7	Intermediate	8	Excellent	Integrated refuge	8	None	8	Yes	Yes	Yes	6*
Power Plus 2V56AMX™*	105	Yes	Yes	6	6	Intermediate	6	Excellent	Integrated refuge	10	AQUAmax®	5	Yes	Yes	Yes	6*
Power Plus 3H85AMX™*	107	Yes	Yes	7	7	Flex	8	Suitable	Integrated refuge	7	None	9	Yes	Yes	Yes	6*
Power Plus 4J95AMX™*	109	Yes	Yes	6	6	Intermediate	7	Good	Integrated refuge	10	AQUAmax®	8	Yes	Yes	Yes	6*
Power Plus 5C17AMXT™*	110	Yes	Yes	7	6	Intermediate	7	Good	Integrated refuge	7	None	8	Yes	Yes	Yes	6*
Power Plus 5K35AMX™*	110	Yes	Yes	7	7	Intermediate	6	Good	Integrated refuge	8	None	6	Yes	Yes	Yes	6*
Catalyst 6216 3111A	111	Yes	Yes	7	6	Intermediate	7	Good	20% structured refuge	10	Artesian®	8	Yes	Yes	Yes	9
Power Plus 6L45AMT™*	112	Yes	Yes	7	6	Intermediate	7	Suitable	Integrated refuge	8	None	7	Yes	Yes	Yes	6*
Burrus 6T54 3000GT	113	Yes	Yes	8	6	Intermediate	8	Suitable	20% structured refuge	8	None	8	Yes	Yes	Yes	1
Power Plus 6F74AMX™*	113	Yes	Yes	7	7	Intermediate	8	Excellent	Integrated refuge	9	None	8	Yes	Yes	Yes	6*
Power Plus 6P75AMX™*	113	Yes	Yes	8	8	Flex	7	Good	Integrated refuge	7	None	6	Yes	Yes	Yes	6*
Power Plus 7A18 Q™*	114	Yes	Yes	8	8	Intermediate	8	Excellent	20% structured refuge	8	None	7	Yes	Yes	Yes	6*
ABOVE-GROUND INSECT CONTROL																
Hughes 9C24 3110A	95	Yes	Yes	8	8	Intermediate	8	Suitable	20% structured refuge	10	Artesian®	8	Yes	Yes	No	9
Power Plus 1G39AM™*	101	Yes	Yes	6	7	Intermediate	7	Excellent	Integrated refuge	8	None	6	Yes	Yes	No	6*
Power Plus 2Y06AM™*	104	Yes	Yes	8	6	Intermediate	7	Suitable	Integrated refuge	8	None	6	Yes	Yes	No	6*
Power Plus 2N82AM™*	105	Yes	Yes	5	5	Intermediate	7	Good	Integrated refuge	10	AQUAmax®	8	Yes	Yes	No	6*
Power Plus 4J93AM™*	109	Yes	Yes	6	6	Intermediate	7	Good	Integrated refuge	10	AQUAmax®	8	Yes	Yes	No	6*
Power Plus 5K33AM™*	110	Yes	Yes	7	7	Intermediate	6	Good	Integrated refuge	8	None	6	Yes	Yes	No	6*
Catalyst 5009 3220	110	Yes		6	5	Flex	8	Suitable	Integrated refuge	8	None	8	Yes	Yes	No	9
Power Plus 6C41 S™*	112	Yes	Yes	9	8	Flex	9	Good	20% structured refuge	8	None	7	Yes	Yes	No	6*
Power Plus 6P73AM™*	113	Yes	Yes	8	8	Flex	7	Good	Integrated refuge	7	None	6	Yes	Yes	No	6*
Power Plus 6N83AM™*	113	Yes	Yes	7	6	Intermediate	7	Good	Integrated refuge	10	AQUAmax®	7	Yes	Yes	No	6*
Catalyst 7577 3010	114	Yes	Yes	8	7	Flex	8	Good	20% structured refuge	9	None	8	Yes	Yes	No	1
Power Plus 7H23 S™*	114	Yes	Yes	7	6	Intermediate	7	Good	20% structured refuge	8	None	8	Yes	Yes	No	6*
Power Plus 7U15AM™*	114	Yes	Yes	8	8	Intermediate	8	Good	Integrated refuge	8	None	7	Yes	Yes	No	6*
GLYPHOSATE RESISTANT																
Hughes 2428 GTA	100	Yes	No	7	7	Flex	8	Good	None needed	10	Artesian®	8	Yes	No	No	1
Power Plus 2R63 R™*	104	Yes	No	7	7	Intermediate	8	Excellent	None needed	9	None	7	Yes	No	No	1
Hughes 5124 GT	107	Yes	No	8	7	Flex	9	Excellent	None needed	8	None	6	Yes	No	No	1
Power Plus 4J99 R™*	109	Yes	No	6	6	Intermediate	7	Good	None needed	10	AQUAmax®	8	Yes	No	No	1
Burrus 6T51 GT	113	Yes	No	8	6	Intermediate	8	Suitable	None needed	8	None	8	Yes	No	No	1
Power Plus 6F71 R™*	113	Yes	No	7	7	Intermediate	8	Excellent	None needed	9	None	8	Yes	No	No	1
CONVENTIONAL																
Hughes 3442	102	No	No	7	6	Fixed	8	Good	None needed	8	None	7	Yes	No	No	1
Power Plus 2R67™*	105	No	No	7	7	Intermediate	8	Excellent	None needed	9	None	7	Yes	No	No	1
Power Plus 4J90™*	109	No	No	6	6	Intermediate	7	Good	None needed	10	AQUAmax®	8	Yes	No	No	1
Power Plus 5N48™*	110S/108N	No	No	6	6	Intermediate	8	Suitable	None needed	9	None	7	Yes	No	No	1
Power Plus 6C40™*	112	No	No	8	7	Flex	9	Good	None needed	8	None	7	Yes	No	No	1
Burrus 6Q60	113	No	No	8	6	Intermediate	7	Good	None needed	8	None	8	Yes	No	No	1
Power Plus 7H20™*	114	No	No	7	6	Intermediate	7	Good	None needed	8	None	8	Yes	No	No	1

General rating scale: 10 = Outstanding 5 = Average 1 = Poor
(1)–Besides their insecticidal properties, hybrids treated with Poncho Xtra, Poncho 500 or High rate Poncho emerge more rapidly and establish more stand.

R is Roundup Ready Corn 2 (NK603) or Glyphosate tolerance, Agrisure GT
S is Herculex I/RR2

AMRW-R is Optimum® AcreMax® Rootworm
AM is Optimum® AcreMax®
AMX is Optimum® AcreMax® Xtra
AMX-R is Optimum® AcreMax® Extra - Roundup only
AMXT is Optimum® AcreMax® XTreme

AMT is Optimum® AcreMax® TRIsect
BL is Agrisure CB/LL & Liberty resistance
Q is Herculex XTRA and Roundup
3000GT is Agrisure CB/LL, RW and GA21 Glyphosate tolerance

ADAPTABILITY							PROTECTION FROM DISEASES					HARVEST DESCRIPTION								
Wireworm	High organic soils	Timber soils	Clay and varied soils	Wet soils	Sand irrigated	Sand dryland	Northern leaf blight	Anthracnose	Gray leaf spot	Goss's wilt	Diplodia ear rot	Stalks	Roots	Drydown	Ear retention	Grain quality	Test weight	High tonnage silage	Harvest residue	Brand
ABOVE/BELOW-GROUND INSECT CONTROL																				
Yes	9	8	7	7	8	7	6	5	5	7	6	8	6	9	8	8	7	9	8	Power Plus 1S26AMXT™*
Yes	9	9	9	8	8	7	8	8	7	8	8	9	9	8	8	7	8	7	7	Power Plus 1G48AMXT™*
Yes	9	9	9	8	9	8	7	6	7	9	NR	9	7	8	8	8	8	6	7	Power Plus 2F91AMXT™*
Yes	9	9	8	8	9	7	8	7	7	9	7	9	9	8	8	8	8	7	8	Power Plus 2B77AMXT™*
Yes	7	8	9	6	8	8	6	6	5	7	NR	8	7	7	7	7	8	8	5	Power Plus 2V56AMX™*
Yes	10	8	7	6	7	6	7	6	7	8	6	7	8	8	8	7	7	9	6	Power Plus 3H85AMX™*
Yes	9	9	9	8	9	6	8	7	5	8	5	8	8	8	9	8	7	5	6	Power Plus 4J95AMX™*
Yes	10	7	7	7	9	6	7	7	7	8	7	8	6	6	8	8	8	10	8	Power Plus 5C17AMXT™*
Yes	9	8	8	8	9	7	7	5	6	8	6	8	6	7	7	8*	7	9	7	Power Plus 5K35AMX™*
Yes	10	9	8	8	10	8	7	NR	6	7	NR	8	9	7	8	7	6	5	6	Catalyst 6216 3111A
Yes	8	8	8	8	7	8	5	7	6	5	7	8	7	8	8	8	7	8	8	Power Plus 6L45AMT™*
Yes	10	8	8	6	9	7	7	8	6	7	5	9	7	7	8	7	7	9	9	Burrus 6T54 3000GT
Yes	8	9	9	6	7	9	7	8	7	8	7	9	8	8	9	8*	8	9	9	Power Plus 6F74AMX™*
Yes	10	7	7	8	10	6	8	7	7	8	7	8	7	7	7	7	7	9	8	Power Plus 6P75AMX™*
Yes	10	9	9	8	10	9	5	5	6	NR	8	7	6	7	9	9*	8	9	10	Power Plus 7A18 Q™*
ABOVE-GROUND INSECT CONTROL																				
Yes	10	9	8	8	8	7	7	7	NR	8	NR	8	8	9	7	8	8	9	7	Hughes 9C24 3110A
Yes	9	9	9	8	8	7	8	8	7	8	8	9	9	8	8	7	8	7	7	Power Plus 1G39AM™*
Yes	9	9	9	8	9	7	7	7	8	8	8	7	8	8	8	7	8	8	8	Power Plus 2Y06AM™*
Yes	7	9	9	8	6	7	6	5	7	9	7	9	8	8	9	7	7	5	NR	Power Plus 2N82AM™*
Yes	9	9	9	8	9	6	8	7	5	8	5	8	8	8	9	8*	7	5	6	Power Plus 4J93AM™*
Yes	9	8	8	8	9	7	7	5	6	8	6	8	6	7	7	8*	7	9	7	Power Plus 5K33AM™*
Yes	7	9	8	6	9	8	7	7	5	7	6	8	9	7	8	7	7	6	5	Catalyst 5009 3220
Yes	9	9	8	8	9	8	6	7	8	8	6	8	6	8	8	10*	10	8	7	Power Plus 6C41 S™*
Yes	10	8	8	8	10	6	8	7	7	8	7	8	7	7	7	7	7	9	8	Power Plus 6P73AM™*
Yes	8	9	9	7	8	8	7	6	7	8	5	8	7	9	8	6	6	6	7	Power Plus 6N83AM™*
Yes	7	9	9	7	9	9	7	NR	6	8	6	8	7	7	8	7	8	8	8	Catalyst 7577 3010
Yes	10	9	9	8	9	8	5	6	7	8	7	5	5	9	9	7	7	8	8	Power Plus 7H23 S™*
Yes	10	9	9	8	10	9	5	5	6	NR	8	7	6	7	9	9*	8	10	10	Power Plus 7U15AM™*
GLYPHOSATE RESISTANT																				
Yes	9	9	9	8	9	8	6	7	7	8	6	9	8	9	8	7	6	8	8	Hughes 2428 GTA
Yes	9	9	9	9	9	8	9	7	8	9	6	9	9	8	7	7	7	8	7	Power Plus 2R63 R™*
Yes	10	9	9	8	9	8	6	6	8	7	6	9	8	8	7	7	6	10	9	Hughes 5124 GT
Yes	9	9	9	8	9	6	8	7	5	8	5	8	8	8	9	8	7	5	6	Power Plus 4J99 R™*
Yes	10	8	8	6	9	7	7	8	6	7	5	9	7	7	8	7	7	9	9	Burrus 6T51 GT
Yes	8	9	9	7	7	9	7	8	7	8	7	9	8	8	9	8*	8	9	9	Power Plus 6F71 R™*
CONVENTIONAL																				
Yes	9	9	8	9	9	7	7	8	7	7	NR	8	9	8	9	7*	7	7	7	Hughes 3442
Yes	9	9	8	8	8	7	9	7	8	9	6	8	8	8	7	7	7	8	7	Power Plus 2R67™*
Yes	9	9	9	8	9	6	8	7	5	8	5	8	8	8	9	8	7	5	6	Power Plus 4J90™*
Yes	10	8	8	9	8	7	7	5	5	NR	7	8	6	9	8	9*	8	8	9	Power Plus 5N48™*
Yes	9	9	8	8	9	8	6	7	8	8	6	8	6	8	8	10*	10	8	7	Power Plus 6C40™*
Yes	8	8	9	8	9	8	8	NR	6	8	7	8	8	7	8	6	6	9	6	Burrus 6Q60
Yes	10	9	9	8	9	8	5	6	7	8	7	5	5	9	9	7	7	8	8	Power Plus 7H20™*

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.

Western bean cutworm 6* in certain geographics, this pest is no longer controlled by this trait.

*Grain quality – possible food grade in some markets

Burrus corn wins big again this year

Place	Hybrid/Brand	Corn Yield	Entries	Sponsor	Cooperator	County
1st	3H85AMX™*	319.7	138	Dekalb Co. Corn Growers	Independent	Dekalb
1st	6P75AMX™*	301.6	9	Independent	Michael McDowell	Hancock
1st	6P75AMX™*	267.4	32	Independent	WW AgSeeds	Winnebago
1st	4J90™*	251.7	33	Independent	DJ Farms	McHenry
1st	2Y06™*	251.6	19	Independent	Rowntree Farms	Racine, WI
1st	4J93AM™*	249.0	9	Independent	Doug Thorman	McDonough
1st	6P73AM™*	242.7	8	Santa Fe Agri-Leader	Independent	Lafayette, MO
1st	2B77AMXT™*	230.9	14	Independent	Ben Leedle	Walworth, WI
1st	6P73AM™*	221.9	17	Independent	John Cramer	Livingston, MO
1st	3H85AMX™*	220.0	22	Independent	Kyle Lottinville	Iroquois
1st	7H23 S™*	209.8	13	Independent	Greg Bertz	Lafayette, MO
1st	2F91AMXT™*	158.9	8	Independent	Condon Farms	Walworth, WI
2nd	6P75AMX™*	258.8	26	Tazewell Co. Corn Growers	Independent	Tazewell
2nd	4J95AMX™*	255.3	32	Independent	WW AgSeeds	Winnebago
2nd	5C17AMXT™*	228.2	14	Independent	Ben Leedle	Walworth, WI
2nd	5K33AM™*	214.4	13	Independent	Greg Bertz	Lafayette, MO
2nd	6P73AM™*	202.2	45	Purdue Ext.	Purdue-Gibson Co.	Gibson, IN
3rd	6P75AMX™*	280.8	9	Independent	Richard Douglas	Hancock
3rd	6L45AMT™*	277.7	16	Independent	Rob Mehalic	Livingston
3rd	3H85AMX™*	252.8	24	Independent	Jim Marrs	Boone
3rd	5K35AM™*	246.9	32	Independent	WW AgSeeds	Winnebago
3rd	5C17AMXT™*	227.5	12	Will Co. late	Will Co. Farm Bureau	Will
3rd	4J95AMX™*	214.2	22	Independent	Kyle Lottinville	Iroquois
3rd	4J93AM™*	212.7	13	Independent	Greg Bertz	Lafayette, MO
4th	5K33AM™*	276.5	9	Independent	Richard Douglas	Hancock
4th	4J99R™*	251.3	32	Independent	WW AgSeeds	Winnebago
4th	5C17AMXT™*	248.9	13	Independent	Ron Staake	Morgan
4th	6P75AMX™*	245.2	34	Independent	Jim Lederbrand	Sangamon
4th	2Y06™*	240.7	27	Independent	Gary Aavang	McHenry
4th	4J95AMX™*	222.7	14	Independent	Ben Leedle	Walworth, WI
4th	4J93AM™*	227.2	31	Independent	McCormick Farms	Chariton, MO
4th	3H85AMX™*	222.9	12	Will Co. early	Will Co. Farm Bureau	Will
4th	5K33AM™*	212.3	17	Independent	John Cramer	Livingston, MO
4th	6C41 S™*	211.9	13	Independent	Greg Bertz	Lafayette, MO
5th	4J93AM™*	274.0	9	Independent	Richard Douglas	Hancock
5th	6P75AMX™*	248.4	13	Independent	Ron Staake	Morgan
5th	5C17AMXT™*	245.8	32	Independent	WW AgSeeds	Winnebago
5th	6P75AMX™*	239.3	14	Independent	Dan Folkes	Logan
5th	6P73AM™*	213.5	28	Independent	Glenn Kaiser	Carroll, MO
5th	5C17AMXT™*	211.2	22	Independent	Kyle Lottinville	Iroquois

Kent Wagner of WW AgSeeds showed off his corn and served apple donuts at his plot day in Winnebago Co.

Tom Glossop won the grand prize Yeti cooler at the Burrus New Technology Day.


Krista Lottinville, Stephanie Porter & Maggie Prather are all smiles during a scouting session.


Burrus AM Ryne Brewer celebrates with Tyler & Rick Knight of Champaign Co. as they earned the Illinois Dealer of the Year award.

Think BURRUS®

ST. LOUIS

Power Plus® 6C41 S™* brand wins plot

Jim Hoene
Eureka, MO

Planted: April 26 in 30" rows. **Planting Population:** 32,000. **Harvested:** September 21. **Previous Crop:** Soybeans. **Fertilizer:** N: 200, P: 50 , K: 60. **Herbicide:** Impact, Atrazine. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry,July–normal, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6C41 S™*	209.1	17.1	58.3	32
POWER PLUS 7H23 S™*	199.5	16.3	59.0	32
BURRUS 6T54 3000GT	198.6	16.9	56.2	33
POWER PLUS 5K33AM™*	195.5	17.4	57.3	31
POWER PLUS 6P73AM™*	189.2	16.2	58.0	31
POWER PLUS 4J99 R™*	188.7	17.3	57.3	32
CATALYST 6216 3111A	182.9	16.5	54.2	31
CATALYST 7577 3010	179.3	17.1	56.3	31
POWER PLUS 6F74AMX™*	175.1	16.9	60.2	32
POWER PLUS 6N83AM™*	174.7	15.7	56.0	31
CATALYST 5009 3220	169.3	16.2	56.0	32
Average	187.4	16.7	57.2	32


Jerald Grimes, Riley Young, Matt Montgomery & Zach Whitehill saw Power Plus® 6C41 S™* planted on June 6th make over 200 bu/a in Clinton Co., MO.


Jim & Shelly Hoene saw Power Plus® 6C41 S™* & Power Plus® 7H23 S™* go one/two in St. Louis Co., MO.


Phil & Carrie Henke saw Power Plus® 7U15AM™* lead the pack at 215 bu/a in Saline Co., MO.


Brock Watson grins from ear to ear. He is the son of Burrus AM Jordan & Maggie Watson.

Power Plus® 6P73AM™* with major yield potential (22 rows around!) in Randolph Co., MO.

Three Power Plus® hybrids above 250 bu/a in Clinton Co., IA for Wayne & Stan Harmsen.

WORTH

Bill Staton
Sheridan, MO.

Planted: May 6 in 30" rows. **Planting Population:** 28,000. **Harvested:** October 21. **Previous Crop:** Soybeans. **Herbicide:** Parallel Plus. **Corn Borer Rating:** Light. **Soil Type:** Heavy loam. **Weather:** May–normal, June–normal, July–wet, August–normal. **✓Check Hybrid:** Power Plus 6C40™*

Brand/Product	Bu. Per Acre	Rank	% Moisture	% Erect	1000 Plants /Acre
✓CHECK	161.8		15.0	100	27
POWER PLUS 4J99 R™*	176.4	4	14.5	90	27
CATALYST 6216 3111A	183.1	2	12.0	100	27
CATALYST 7577 3010	95.5	13	15.9	80	19
POWER PLUS 7H23 S™*	117.5	12	14.7	90	26
BURRUS 6T54 3000GT	183.8	1	15.5	100	26
POWER PLUS 6N83AM™*	146.0	9	15.4	90	26
POWER PLUS 6P73AM™*	143.4	10	14.6	95	26
✓CHECK	162.8		15.0	100	26
POWER PLUS 6F74AMX™*	152.6	8	14.8	91	28
POWER PLUS 6C41 S™*	135.1	11	17.2	100	23
POWER PLUS 5K33AM™*	155.5	6	14.3	96	21
CATALYST 5009 3220	154.2	7	15.3	100	23
POWER PLUS 4J93AM™*	177.2	3	14.1	100	27
POWER PLUS 2N82AM™*	166.2	5	14.3	100	24
✓CHECK	160.4		15.2	96	27
Average	154.5		14.9	96	25
Check Average	161.7		15.1	98	26

Stay in contact with Burrus Seed year-round through social media! Find and follow us on both Facebook and Twitter by searching @BurrusSeed. We share news, photos, articles, offers and company updates you don't want to miss!

We also have two channels on YouTube. The first, Burrus Seed, is a general company channel with marketing videos as well as footage from our company events. On our Agronomy U channel, we post videos and video series on relevant agronomic topics, hosted by members of our research team.

We also invite you to subscribe to our Think Burrus blog. Written by our agronomists, articles center on relevant agronomic topics they encounter on their constant travels across the Burrus footprint. Use the comment section to interact with the research team and get answers to questions of your own.

You can easily access all of our social sites through our website. Join the conversation using #ThinkBurrus!

Tom & Marcy Burrus enjoy being with their grandkids – Griffin & Gannon Greene and Pete & Taylor Mitchell.

John & David Nienhiser tackle corn harvest while "unloading on the go" in Morgan Co. They represent the fifth generation to farm this land.

New bulk storage facility erected

At the Hughes facility near Woodstock, IL this new bulk storage facility was installed this spring and summer. The old facility was torn down as each bin was emptied last winter. The new facility has a belt conveyor coming from the sheller to the leg. Moveable cutoff belt conveyors (made in Illinois) transport into 18 tanks holding 2500 bushel each (also made in Illinois) with letdown ladders and ventilation. Under bin, belt conveyors take seed gently out of storage. This new facility will mean higher seed quality due to more belts, let down ladders, and less handling. Another benefit is increased worker safety through elimination of ladders and addition of stairs and catwalks with railings. This means less labor and less cleanout with faster unloading times.

Hughes AM Brad Kufalk highlights the strength of the Burrus/Hughes corn hybrids.

Burrus AM Trainee Paige Ehnle catches a whopper while wearing her Burrus cap.

Marcy & Tom Burrus '71 were honored to serve as the Illinois College Homecoming Parade Marshalls.

It was a gorgeous day for harvesting at Jack Block's Knox Co. plot.

Your farm knowledge combined with our years of research yields.

Opening a field to start harvest is rewarding.

LAFAYETTE

New products prevail above 250 bu/a

COMPARE

Ron Woodworth
Shullsburg, WI

Planted: April 23 in 30" rows. **Planting Population:** 35,000. **Harvested:** September 29. **Previous Crop:** Soybeans. **Fertilizer:** N: 110, P: 26 , K: 40. **Corn Borer Rating:** Light. **Soil Type:** Loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 2R63 R™*	261.4	20.8	97	58.7	37
POWER PLUS 2Y06AM™*	260.7	21.4	100	56.3	35
POWER PLUS 1G48AMXT™*	255.4	19.5	100	57.4	34
POWER PLUS 1G39AM™*	254.9	19.0	100	57.7	36
POWER PLUS 2B77AMXT™*	241.2	21.1	100	59.3	34
POWER PLUS 3H85AMX™*	240.4	23.6	100	56.9	34
POWER PLUS 4J95AMX™*	239.3	24.5	100	57.2	34
POWER PLUS 1S26AMXT™*	231.6	19.6	100	57.9	35
HUGHES 9C24 3010A	224.1	16.3	97	58.5	34
POWER PLUS 2F91AMXT™*	220.2	19.9	100	59.4	34
POWER PLUS 5C17AMXT™*	212.3	24.9	100	58.2	36
Average	240.1	21.0	99	58.0	35

RACINE

Power Plus® 2Y06AM™* brand wins at 251 bu/a

Rowntree Farms
Kansasville, WI

Planted: May 8 in 30" rows. **Harvested:** October 21. **Previous Crop:** Soybeans. **Herbicide:** Breakfree ATZ, Credti Xtreme, Status. ✓**Check Hybrid:** Pioneer 0157AMX **Remarks:** *Severe lodging/September storm.

Brand/Product	Bu. Per Acre	Rank	% Moisture	Adj. Test Wt.
✓CHECK	237.7		18.8	59.2
Channel 197-68STX	231.6	11	18.5	58.5
POWER PLUS 1G48AMXT™*	**233.1**	**9**	**19.1**	**58.6**
Becks 5337SX	223.3	12	18.6	58.4
Golden Harvest 03A50-3010 *	173.1	18	17.7	58.9
Pioneer 0339AMXT	216.4	16	18.7	58.4
Becks 5234AMX	207.9	17	17.9	58.5
Golden Harvest 03C84-3010 *	172.0	19	18.7	55.9
✓CHECK	225.7		19.1	58.5
POWER PLUS 2Y06AM™*	**251.6**	**1**	**19.1**	**57.5**
Channel 205-19STX	227.4	10	19.2	57.1
Curry XC1605	239.3	5	19.0	59.2
POWER PLUS 2B77AMXT™*	**237.6**	**6**	**18.9**	**58.7**
Pioneer 0589AMXT	244.0	3	20.3	58.8
Curry 826-64AMX	244.5	2	20.4	57.8
Golden Harvest 07F23-3111 *	215.7	14	20.6	57.1
Channel 207-27STX	228.2	8	20.6	56.7
Pioneer 0825AMXT *	217.3	13	21.1	55.7
✓CHECK	227.7		18.6	58.4
AgriGold 6237STX	212.5	15	18.1	55.3
Pioneer 0760AMXT	231.6	7	20.2	58.4
AgriGold 6441STX	243.7	4	20.3	56.7
Average	224.6		19.3	57.8
Check Average	230.4		18.8	58.7

Learn to control corn nematodes

by Stephanie Porter

Some growers have experienced the wrath of corn nematodes the last few years, especially in corn-on-corn fields. Cool, wet weather early in the season caused symptoms to be easily mistaken as nutrient deficiencies or uneven emergence. Nematode injury can be confirmed by testing the soil before corn reaches the V6 growth stage. Depending on the species rotation of crops, tillage, and controlling grassy weeds could help keep nematode populations in check or below damaging thresholds. Rotation to crops such as alfalfa, cotton, rice, soybeans, or sorghum may control needle, sting, and some lesion nematode species that have narrow host ranges. To learn more about corn nematodes, see the Think Burrus blog post from June 13, 2015 at blog.thinkburrus.com.

The Burrus PowerShield® seed treatment includes corn nematicides Avicta® or VOTiVO®. They only provide early season control and are best used to combat low to moderate nematode populations. For heavy corn nematode populations, there are limited choices of soil applied nematicides. An example is Counter® insecticide which has been known to reduce nematode populations in season. Remember, Counter is an organophosphate (OP) insecticide, which can interact with ALS herbicides. With both seed treatments and Counter insecticide, nematode populations can resurge later in the season, so both have to be used each season that corn is grown until nematode populations are reduced below threshold.

Dale Albrecht, Walworth Co., WI had concerns about his corn nematode problems last year. Information about the Burrus Yield Protection AMVAC rebate was shared with him. He was able to utilize this opportunity and apply Counter this year and reported back that he was very happy with the control of corn nematodes. A qualifying purchase of the Burrus family of hybrids, treated with Aztec®, Counter, SmartChoice®, or Force® insecticides earns a $2.00 per acre rebate (minimum 100 acre application). Register today using code: BUR2017 at www.amvac-offers.com.

Hughes Dealer Dale Albrecht, used Counter® insecticide to get control of corn nematodes in Walworth Co., WI.

Eric Villwock & Tom Sandahl represent Hughes Hybrids at University of Wisconsin at Platteville.

WALWORTH

New Power Plus® 2F91AMXT™* brand wins plot

Condon Farms
East Troy, WI

Planted: May 4 in 30" rows. **Planting Population:** 31,000. **Harvested:** October 21. **Previous Crop:** Soybeans. **Fertilizer:** N: 140, P: 25 , K: 125. **Herbicide:** Roundup, Hornet, Capreno, Trismet. **Insecticide:** Force Half Rate. **Soil Type:** Heavy loam.

Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 2F91AMXT™*	**158.9**	**21.4**
Miller Hybrids 01-41	156.2	20.0
Roeschley Hybrids 03-53SS	156.2	20.5
Roeschley Hybrids 05-53SS	153.6	20.0
Miller Hybrids 03-66	151.8	21.4
Roeschley Hybrids Rx96-53	151.3	20.7
Roeschley Hybrids Rx03-53	148.9	21.6
Roeschley Hybrids Rx91-03SS	147.8	17.8
Average	153.1	20.4

Power Plus® 2B77AMXT™* brand is at 219 bu/a

COMPARE!

Frank Taylor
Whitewater, WI

Planted: May 6 in 30" rows. **Planting Population:** 33,500. **Harvested:** October 15. **Herbicide:** Harness Xtra, Roundup Ultra Max. **Soil Type:** Light loam.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.
POWER PLUS 2B77AMXT™*	**219.2**	**22.1**	**63.3**
DeKalb DKC53-78RIB	215.3	21.1	62.3
DeKalb DKC57-75RIB	209.1	22.3	63.4
POWER PLUS 2F91AMXT™*	**204.6**	**21.5**	**62.7**
DeKalb DKC53-78RIB	201.8	21.6	62.8
POWER PLUS 1G48AMXT™*	**201.4**	**20.5**	**61.7**
Average	208.6	21.5	62.7

Tom & Tami Moore of TNT Farms saw Power Plus® sweep their Winnebago Co. plot.

Burrus Sales Agronomist Matt Montgomery took his first drone selfie with Dalton Shepherd.

Robert Condon
East Troy, WI

Planted: May 15 in 30" rows. **Planting Population:** 31,000. **Harvested:** October 21. **Previous Crop:** Soybeans. **Herbicide:** Roundup, Hornet, Capreno Trisma. **Insecticide:** Force 3G. **Soil Type:** Light loam. Check Hybrid: Power Plus 2F91AMXT™*

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK	177.6		22.3
POWER PLUS 1G48AMXT™*	**176.3**	**2**	**22.2**
POWER PLUS 1S26AMXT™*	**162.5**	**4**	**21.5**
✓CHECK	**152.6**		**22.3**
POWER PLUS 2N82AM™*	**157.6**	**5**	**22.1**
POWER PLUS 2Y06AM™*	**171.6**	**3**	**22.0**
POWER PLUS 1G39AM™*	**176.0**	**1**	**21.9**
✓CHECK	172.0		22.7
Average	168.3		22.1
Check Average	167.4		22.4

3 out of top four are Power Plus® hydrids

COMPARE!

Ben Leedle
Lake Geneva, WI

Planted: May 9 in 30" rows. **Planting Population:** 33,000. **Harvested:** October 22. **Previous Crop:** Soybeans. **Fertilizer:** N: 140, P: 150 , K: 150. **Herbicide:** Surestart, Surpass, Roundup. **Insecticide:** Force. Soil Type: Heavy loam.

Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 2B77AMXT™*	**230.9**	**21.2**
POWER PLUS 5C17AMXT™*	**228.2**	**24.0**
Dekalb 54-40 VT2PRO	225.9	20.3
POWER PLUS 4J95AMXT™*	**222.7**	**23.5**
Pioneer P0419AMX	220.6	21.4
Dekalb 52-61 VT2PRO	214.4	18.5
POWER PLUS 1G48AMXT™*	**213.3**	**19.8**
Dekalb 52-61 VT2PRO	212.5	18.5
Pioneer P0157AMX	211.5	19.6
Channel 197-68SS	210.9	18.3
Dekalb 49-72SS	210.3	18.0
Golden Harvest G030A50	205.8	20.1
POWER PLUS 2F91AMXT™*	**201.6**	**20.4**
Golden Harvest G03A42-3000GT	197.4	20.1
Average	214.7	20.3

The story on sulfur and nitrogen

by Matt Montgomery

Although it has remained unchanged for nearly 30 years, the story on sulfur fertilizer is beginning to change and it has a lot to do with the sulfur budget. The plant's available budget for any nutrient, including sulfur, is influenced by how much of that nutrient moves out of the soil and how much moves into the soil.

Crop removal represents one of the most significant pathways for sulfur loss. Leaching or loss via rainwater percolating through the soil represents a second pathway of sulfur loss. Each bushel of harvested grain takes sulfur with it and we remove more bushels than we did 30 years ago. In other words, we likely remove more sulfur than we did in the 1970s when most foundational sulfur research was conducted.

The amount of sulfur moving into the soil has decreased over that same period. Since the early 1990s, the US EPA has worked with the power companies to reduce sulfur emissions. When emissions were at their highest, sulfur fell with rainwater and unintentionally fertilized Midwest fields with sulfur. Each storm was effectively a fertilizer application. A cleaner environment means less sulfur has been deposited via rainfall. In certain parts of Illinois, sulfur deposition has been reduced by 75% and in other portions of the Burrus footprint sulfur deposits have at least been cut in half.

Many soil scientists believe that we will eventually encounter situations where sulfur demand outpaces sulfur supply. In other words, agronomists believe a day is coming when much of the Midwest will need to consider sulfur fertilizer applications. This has happened in the state of Iowa, but the situation in the rest of our footprint remains unsettled.

Burrus experimented with a series of sulfur plots in 2016. Individual plots were roughly 6 rows by 80 feet and were replicated with applications of sulfur and with strips that received no sulfur. The application rate was 20 pounds per acre. We speculated that our plots would show no statistical differences. We based this hypothesis on the available emissions data, commonly accepted figures for the amount of sulfur released via decomposing organic material and the amount of sulfur required to produce a 200 bushel corn crop. Initial reports appear to support this hypothesis. However, our Dwight, IL location did not. That location may have indicated some kind of response. More research is needed.

Our 2016-2017 winter meeting season will provide us the opportunity to discuss our findings. Regardless of our findings, we know a day is coming when the story will change enough that we will need sulfur applications. If you are interested in learning more about sulfur, we encourage you to tune into our sulfur series on the Burrus Agronomy U channel on YouTube.

The nitrogen story is still dominated by potential regulation. Much of the Midwest is under extreme scrutiny when it comes to crop production and nitrogen applications. Concern over gulf hypoxia (a low oxygen zone in the Gulf of Mexico) and the implications of an Iowa waterworks lawsuit loom over our industry. As noted in past issues, we must show significant voluntary progress toward reducing off-target nitrogen movement. If our own voluntary efforts fail, agriculture will undoubtedly face significant regulation. The clock is ticking. Burrus therefore reminds our readership of the "Do's and Don'ts" associated with nitrogen use. Sticking with these "Do's and Don'ts" will go a long way toward preserving fertilizer freedoms.


Burrus intern Nat Harder dropping sulfur on the Clinton Co., MO sulfur plot.


Burrus AM Quinn Moller, Brandon Roderick & Bob Buhs planting the Ford Co. corn plot.


Larry Lukow of Lukow Farms scouts Power Plus® 4J95AMX™* in Kankakee Co. with Burrus AM Krista Lottinville.


Eddie Ehrhardt of GrainCo FS and Louis Zabel laying out a Burrus sulfur plot in Livingston Co.


Aaron Rice & Chad Ottens saw new Power Plus® 2B77AMXT™* & Power Plus® 5K35AMX™* go one/two in Whiteside Co.


At 267 bu/a Power Plus® 6P75AMX™* won in Winnebago Co. for Kent Wagner of WW AgSeeds.

BURRUS® AGRONOMY U

Join Dr. Matt Montgomery as the host of Agronomy U, a series of videos focused on current, relevant agronomic topics. Easily accessed through the Burrus website, this YouTube page is updated with new content regularly, so be sure to check in often! You can even register to be notified when new content is added.

Stalk us!

Brandon Roderick of Ford Co. & Burrus AM Quinn Moller take time to visit during a good neighbor day.

Jeff Busch's good looking Power Plus® 5C17AMXT™* in LaSalle Co.

Sherry & Ron Woodworth saw many new products at the top of the Lafayette Co., WI plot above 250 bu/a.

Gary, Joanne & Justin Ferree saw their Sullivan Co., IN plot start with Burrus 6P73AM.

CLINTON

COMPARE!

Wayne Harmsen
Clinton, IA

CORN ON CORN

Planted: April 26 in 30" rows. **Planting Population:** 34,000. **Harvested:** September 22. **Previous Crop:** Corn.

Brand/Product	Bu. Per Acre	% Moisture	Adj. Test Wt.
POWER PLUS 4J95AMX™*	**257.4**	**25.0**	**59.8**
POWER PLUS 2Y06AM™*	**254.7**	**23.5**	**58.9**
POWER PLUS 3H85AMX™*	**253.6**	**25.0**	**61.3**
POWER PLUS 2B77AMXT™*	**249.8**	**22.0**	**60.0**
POWER PLUS 6F74AMX™*	**245.9**	**25.0**	**59.8**
POWER PLUS 5K35AMX™*	**244.5**	**26.0**	**59.5**
POWER PLUS 5C17AMXT™*	**237.3**	**26.5**	**59.7**
POWER PLUS 6T51 GT™*	**236.4**	**29.0**	**60.3**
POWER PLUS 1G48AMXT™*	**226.9**	**21.0**	**58.3**
POWER PLUS 6P75AMX™*	**224.0**	**29.5**	**60.4**
POWER PLUS 2F91AMXT™*	**221.2**	**19.0**	**57.7**
POWER PLUS 1S26AMXT™*	**216.9**	**21.0**	**58.3**
Average	239.1	24.4	59.5

GIBSON

Power Plus® 6P73AM™ brand* is second

CORN ON CORN

Purdue University
Gibson County, IN

Planted: May 24 in 30" rows. **Harvested:** September 19. **Previous Crop:** Corn. **Remarks:** *Not significantly different from the highest yield.

Brand/Product	Bu. Per Acre	% Moisture
Golden Harvest G18D87-3000GT	*215.1	21.2
POWER PLUS 6P73AM™*	***202.2**	**15.0**
Agrigold A6544VT2PRO	*197.4	16.2
Dekalb DKC67-42RIB	*194.2	18.1
Dyna-Gro D54VC52Rib	*191.5	16.0
Dekalb DKC64-89RIB	*190.4	14.8
LG Seeds 5650VT2PRORIB	*190.4	15.3
Baker B1318GT3000	*188.9	18.5
Seed Consultants 1136YHR	188.3	17.0
LG Seeds 5643 VT2Pro	188.2	17.2
Golden Harvest G14Y81-3010	187.0	15.4
Seed Consultants 11AQ15	186.0	19.9
Stewart 8A625RIB	185.7	17.4
Pioneer 1197AM	185.4	14.6
POWER PLUS 5K33AM™*	**185.3**	**15.1**
Channel 216-36	185.2	15.3
Dairyland DS9412	184.8	15.9
Augusta 7767 VT2	184.6	19.1
Becks 6365AM	183.7	16.0
Becks 6225 HR	183.4	16.6
Mycogen 2C799	180.6	17.2
Dyna-Gro D56VC46Rib	177.9	17.4
Baker B1395GT3000	177.0	14.3
Agrigold A6579STX	176.5	14.7
Stewart 16DP117	175.1	15.3
Golden Harvest G11F16-3111A	174.7	14.0
CATALYST 7577 3010	173.6	17.7
Dairyland DS9513	172.9	14.8
Baker B1643GT	165.6	19.1
Mycogen MY12G38	165.1	15.0
Great Lakes 6462STXRIB	164.3	17.5
Pioneer 1646AM	161.7	15.2
Becks 6589V2P	161.4	16.3
SunPrairie 2797	157.3	15.1
SunPrairie 3846	156.1	19.5
Stewart 8E663RIB	155.8	13.8
Pioneer 1479AM	154.8	15.5
Dairyland DS 9110	153.8	13.7
Channel 217-92	152.1	14.3
SunPrairie 2877	147.8	15.4
Seed Consultants 11HR63	146.4	17.6
Dyna-Gro D52VC91Rib	145.8	14.9
Great Lakes 6259VT2RIB	133.7	13.7
Agrigold A6499VT2RIB	130.5	14.6
Steyer 11306 VT2ProRibC	112.1	13.8
Average	172.7	16.1

POSEY

CORN ON CORN

Purdue University
Posey County, IN

Planted: May 26 in 30"rows. **Harvested:** October 11. **Previous Crop:** Corn. **Herbicide:** Lexar EZ. **Remarks:** *Not significantly different from the highest yield.

Brand/Product	Bu. Per Acre	% Moisture
Augusta 7768 GT 3110	*173.9	17.5
Golden Harvest G18D87-3000GT	165.9	25.2
Baker B1643GT	162.8	23.6
Seed Consultants 11AQ15	157.2	23.7
Augusta 7767 VT2	156.4	23.6
Baker B1318GT3000	153.7	23.8
Becks 6589V2P	153.4	19.8
SunPrairie 3846	153.2	25.5
CATALYST 7577 3010	150.9	26.8
Dekalb DKC67-42RIB	148.2	25.0
SunPrairie 2877	147.8	19.1
Seed Consultants 11HR63	145.7	24.8
Dyna-Gro D54VC52Rib	144.7	25.5
SunPrairie 2797	144.6	23.3
Steyer 11408 VT2ProRibC	144.4	24.1
Great Lakes 6185STXRIB	144.0	22.6
LG Seeds 5663VT2PRORIB	142.2	25.0
Mycogen MY11C27RA	142.1	22.9
Dyna-Gro D56VC46Rib	141.4	24.5
Stewart 16DP117	141.3	23.5
Dyna-Gro D52VC91Rib	141.3	18.7
Stewart 8A625RIB	141.2	26.2
POWER PLUS 5K33AM™*	**141.2**	**21.6**
Becks 6225 HR	141.0	23.1
Augusta 5062 Avicta	140.9	23.1
Golden Harvest G11F16-3111A	140.5	20.9
Pioneer 1646AM	140.4	20.9
Mycogen MY12G38	139.9	21.1
Dairyland DS9412	139.9	22.5
Channel 216-36	139.8	22.4
Golden Harvest G14Y81-3010	139.7	23.8
Great Lakes 6462STXRIB	138.8	22.8
Agrigold A6579STX	138.5	24.2
Seed Consultants 1136YHR	138.5	27.2
Mycogen 2C799	137.0	21.9
Dekalb DKC66-59RIB	136.3	21.7
LG Seeds 5643 VT2Pro	135.8	25.1
Channel 217-92	135.3	21.5
Channel 217-41	135.1	22.1
POWER PLUS 6P73AM™*	**135.1**	**22.4**
LG Seeds 5650VT2PRORIB	134.7	25.1
Dairyland DS 9110	133.9	18.7
Dekalb DKC64-89RIB	133.8	22.8
Dairyland DS9513	133.2	21.3
Great Lakes 6259VT2RIB	132.4	19.3
Agrigold A6499VT2RIB	132.0	22.0
Baker B1395GT3000	131.5	22.0
Steyer 11506 VT2ProRibC	130.8	22.9
Steyer 11306 VT2ProRibC	130.6	21.4
Pioneer 1197AM	129.9	22.2
Stewart 8E663RIB	126.8	21.1
Average	142.0	22.8

SULLIVAN

Gary Ferree
Sullivan, IN

Planted: May 29 in 30" rows. **Harvested:** September 28. **Previous Crop:** Soybeans. **Fertilizer:** N: 185.5, P: 35.42 , K: 90. **Herbicide:** Roundup, Atrazine, Simazine. **Soil Type:** Medium Clay. **Weather:** May–wet, June–normal, July–wet, August–normal.

Brand/Product	Bu. Per Acre	% Moisture	% Erect	Adj. Test Wt.	1000 Plants /Acre
POWER PLUS 6P73AM™*	**213.1**	**26.6**	**80**	**57.7**	**32**
CATALYST 7577 3010	**194.9**	**19.3**	**50**	**57.7**	**31**
CATALYST 5009 3220	**182.9**	**21.0**	**95**	**53.3**	**27**
POWER PLUS 6N83AM™*	**182.4**	**21.2**	**80**	**56.3**	**33**
CATALYST 6216 3111A	**178.2**	**20.5**	**85**	**56.2**	**33**
POWER PLUS 7H23 S™*	**172.3**	**20.5**	**90**	**58.2**	**35**
POWER PLUS 6F74AMX™*	**168.6**	**19.2**	**60**	**55.7**	**33**
POWER PLUS 5K33AM™*	**159.8**	**20.1**	**75**	**55.0**	**28**
POWER PLUS 6C41 S™*	**155.5**	**22.0**	**95**	**54.5**	**34**
Average	178.6	21.2	79	56.1	32

History repeats itself….maybe

by Todd Burrus

Product placement is one of the most important decisions a grower makes each year. Some growers rely on the hope of what did best this year will do best next year. We continue to look for ways to improve product selection and that is the reason the Burrus show plot, located west of the Arenzville, IL production facility, has been a continuous corn test plot since 1976. Each year, the current Burrus lineup is planted and yields are recorded.

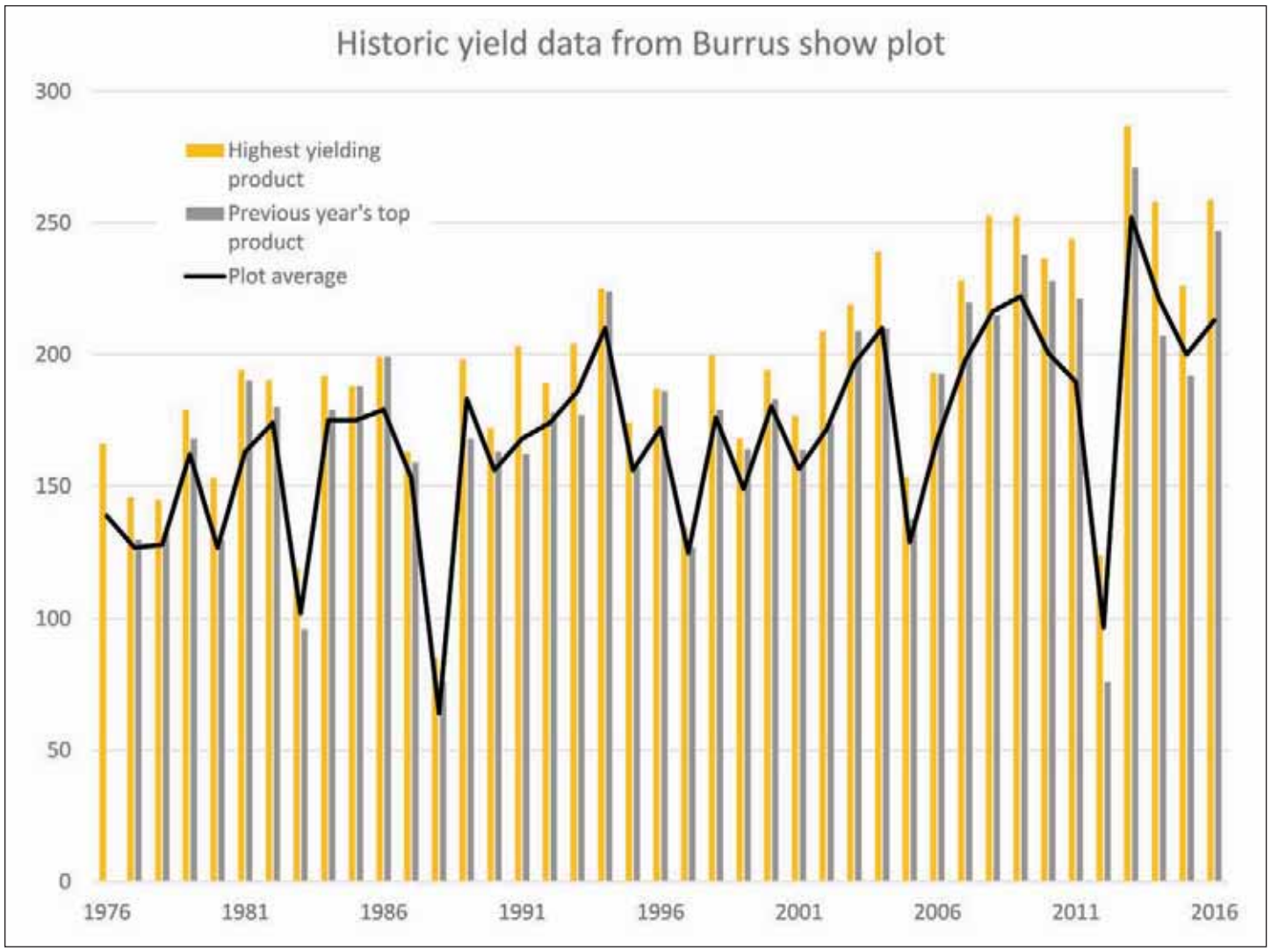
In retrospect, it is very interesting that only twice has the same product delivered the plot winning yield in consecutive years. In both cases, the consecutive years had very similar growing conditions. This indicates the genetic and environment interaction is very important. That deep lineup has several products that can produce winning yields.

A second observation is that yields are steadily increasing. In the first 20 years, we exceeded the 200 bu/a mark three times. In 9 of the last 10 years, the plot's top yield has exceeded 225 bu/a. This encourages growers to continually look at new products. We continue to publish this information to help growers consider ways to think beyond the historic, "I will plant what did the best this year on my acres next year."

Genetic diversity by using a package of products adds stability to your cropping plan. Using some offense-type products on your most productive fields while utilitzing the more defensive products for the tougher fields makes sense.

That is why we strongly recommend using the MyFarms℠ COP program to help guide the discussion with your Burrus/Hughes Account Manager. At the end of the discussion, your cropping plan is saved to help you recall which field should be planted to which product at what population.

Plan for success in '17!




Maggie Prather, Zach Montgomery & Hayden Swanson clean up plot alleys in Knox Co.


Power Plus® 6P75AM™* looked tremendous in Ford Co. and Jacob Moller is grinning big!


Hughes AM Trainee Eric Villwork, Burrus intern Kevin Freel & Burrus AM Krista Lottinville with palmer amaranth during an agronomic training day.


Hughes AM Brad Kufalk discussed new 2017 products with Kyle Book.


Evidence of drought stress by the end of June in the sand pit demonstration at our Arenzville, IL seed production facility.

Burrus soybeans win big again this year

Beans

Place	Hybrid/Brand	Yield	Entries	Sponsor	Cooperator	County
1st	426LL	87.4	11	Independent	McCormick Farms	Chariton, MO
1st	32D5™*	79.9	12	Independent	Curtis Biesenthal	Sangamon
1st	28H5™*	70.5	19	Independent	Performance Planting	Racine, WI
1st	26Z5™*	69.9	17	Independent	Rochelle FFA	Ogle
1st	384LL	63.1	8	Independent	Mark Nuelle	Lafayette, MO
1st	32D5™*	60.5	16	Peoria Co. Corn/Soy Promoter	Independent	Peoria
2nd	35C7™*	77.6	12	Independent	Curtis Biesenthal	Sangamon
2nd	26Z5™*	69.5	17	Independent	Rochelle FFA	Ogle
2nd	24J8™*	68.8	19	Independent	Performance Planting	Racine, WI
2nd	24Z5™*	57.8	13	Independent	DJ Farms	McHenry
3rd	25A5™*	66.3	19	Independent	Performance Planting	Racine, WI
4th	405LL	80.4	11	Independent	McCormick Farms	Chariton, MO
5th	37S7™*	73.7	12	Independent	Curtis Biesenthal	Sangamon
5th	26G8™*	68.8	17	Rochelle FFA	Independent	Ogle

We are anxious to bring Enlist E3™ soybeans, part of the Enlist™ weed control system, to growers across the Burrus footprint. The soybeans have excellent genetic backgrounds that will deliver competitive yields in maturities from the mid 2s to the early group 4s.

For growers wanting to change all of their acres to Enlist E3 soybeans, we will be able to bring a lineup to meet those needs. The preferred herbicide program will include a pre, such as Authority®, followed by 3-½ to 4-¾ pints of Enlist Duo® herbicide with 10 to 5 gallons of carrier. If another pass is needed, consider glufosinate herbicide to clean up any escapes.

Enlist Duo contains glyphosate and new 2,4-D with Colex-D® technology. The new 2,4-D formulation has ultra-low volatility (or near zero) with up to 96% reduction compared to traditional forms of 2,4-D. Colex-D technology also minimizes the potential for physical drift when used with low drift spray nozzles, resulting in up to 90% drift reduction compared to a tank mix of traditional 2,4-D and glyphosate.

The federal label on Enlist Duo was approved in 2014. The herbicide has no buffer restrictions when sprayed next to a crop that is not susceptible, such as soybeans. There is a 30-foot wind directional buffer when sprayed next to a sensitive area. Label requirements for nozzles and wind speed help growers make the most of Enlist Duo.

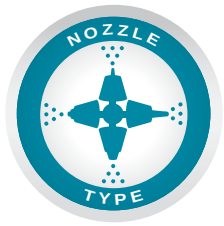
You can achieve unrivaled weed control and true yield potential by taking advantage of three different modes of action with E3 soybeans. Protect your farm from resistant weeds by using a different mode of action. The best practice to reduce the weed selection for weed resistant populations is to proactively diversify weed control strategies. Using multiple herbicides with different modes of action and an overlapping weed spectrum can help prevent the onset of resistance. Always use labeled rates.

Enlist Duo® Herbicide Application Rate

WEEDS 3" TO 6" TALL
3.5 pt./A

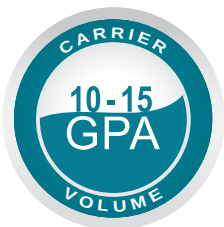
GLYPHOSATE-RESISTANT OR HARD-TO-CONTROL WEEDS
4.75 pt./A

Enlist Duo® Herbicide Best Management Practices

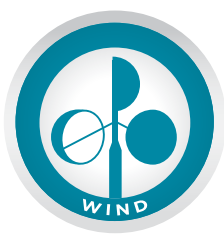


NOZZLE SELECTION
Only use combinations listed in the product label and *Product Use Guide*

BOOM HEIGHT
24” or less above the crop canopy



SPRAY VOLUME
10 to 15 gallons per acre



WIND
3 to 10 mph; not to exceed 15 mph

THE NEXT CROP YOU’RE SPRAYING

GLYPHOSATE-TOLERANT CORN
Single-rinse sprayer with at least 10% of sprayer volume

ALL OTHER CROPS
Triple-rinse sprayer as outlined in latest Product Use Guide

Look for our billboards across Missouri

CASS

Power Plus® 41M4™* brand PS SDS over 90 bu/a

David Virgin
Arenzville, IL

Planted: May 12 in 30" rows. **Planting Population:** 134,000. **Harvested:** October 20. **Previous Crop:** Corn. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **Remarks:** Fungicide was applied. Brandt Smart Trio & Moly B was applied.

Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 41M4™*	**91.5**	**13.6**
POWER PLUS 41M4™*	**88.6**	**13.8**
Average	90.0	13.7

CHAMPAIGN

Gifford State Bank
Gifford, IL

Planted: May 19 in 30" rows. **Planting Population:** 147,500. **Harvested:** October 17. **Previous Crop:** Corn. **✓Check Hybrid:** NK S39-U2 **Remarks:** Heckerson soybean plot.

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK	65.0		13.7
Stone 2R3516	65.0	6	13.6
Stone 2R3906	63.6	10	13.7
Asgrow AG3832	60.7	17	13.7
Asgrow AG4135	62.1	16	13.5
Becks 387R4	66.5	2	13.6
Becks 365R2	63.9	8	13.7
✓CHECK	63.6		13.9
NK 39-C4	62.6	11	13.7
NK 35-C3	69.1	1	13.9
Great Lakes 3429R2	64.7	4	14.0
Great Lakes 3729R2	61.8	15	13.9
Pioneer 33T72R	59.1	18	13.8
Pioneer 38T42R	63.1	9	13.9
✓CHECK	63.5		14.3
POWER PLUS 32D5™*	**62.8**	**14**	**13.9**
POWER PLUS 38K6™*	**64.7**	**7**	**13.8**
FS 34A50	63.2	12	14.1
FS 39A60	55.8	23	14.3
LG Seeds 3989	57.6	20	14.2
LG Seeds 3647	59.6	19	14.4
✓CHECK	65.4		14.3
Channel 3509R2	64.9	3	14.1
Channel 3709R2	64.0	5	14.5
Pfister 30R25	61.9	13	14.5
Pfister 16X331	55.5	22	14.4
Credenz 3560RY	56.0	21	14.7
✓CHECK	61.2		14.4
Average	62.4		14.0
Check Average	63.7		14.1

PowerShield® SDS treatment brought from 11 – 21 bu/a increase in Fulton Co. for Andy & Adam Schmalshof & Burrus AM Rick Urish.

Gifford State Bank
Gifford, IL

Planted: May 20 in 30" rows. **Planting Population:** 147,500. **Harvested:** October 18. **Previous Crop:** Corn. **✓Check Hybrid:** NK S39-U2 **Remarks:** Conkey/Kilian soybean plot.

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK	73.0		13.7
Stone 2R3516	75.3	11	13.8
Stone 2R3906	70.9	23	14.3
Asgrow AG3832	71.8	22	14.3
Asgrow AG4135	72.9	19	14.0
Becks 387R4	73.2	18	14.0
Becks 365R2	75.0	12	13.6
✓CHECK	65.5		13.8
NK 39-C4	74.2	4	13.7
NK 35-C3	71.7	9	13.7
Great Lakes 3852NR2	68.7	20	13.7
Great Lakes 3429R2	69.3	17	13.6
Pioneer 33T72R	75.3	1	12.9
Pioneer 38T42R	70.7	14	13.2
✓CHECK	64.7		13.6
POWER PLUS 36J3™*	**67.4**	**21**	**13.3**
POWER PLUS 38K6™*	**71.0**	**7**	**13.5**
FS 34A50	68.5	16	13.2
FS 39A60	69.9	10	13.4
LG Seeds 3321	73.3	2	13.0
LG Seeds 3647	70.7	8	13.2
✓CHECK	63.1		13.3
Channel 3509R2	73.6	5	13.2
Channel 3709R2	75.1	3	13.2
Pfister 16X331	66.1	24	12.9
Pfister 30R25	71.4	13	12.7
Credenz 3560RY	70.6	15	13.1
Credenz 3383RY	72.9	6	13.0
✓CHECK	68.3		13.1
Average	70.8		13.4
Check Average	66.9		13.5

FULTON

21 bu/a advantage for PowerShield® SDS

Andy & Adam Schmalshof
Avon, IL

Planted: April 14 in 30" rows. **Planting Population:** 128,638. **Harvested:** October 19. **Previous Crop:** Corn. **Soil Type:** Medium loam. **Weather:** May–normal, June–normal, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 35C7™* PS SDS	**80.0**	**12.1**
POWER PLUS 32D5™* PS SDS	**75.8**	**11.7**
POWER PLUS 38K6™* PS SDS	**74.1**	**12.5**
POWER PLUS 39R5™* PS SDS	**72.2**	**12.6**
POWER PLUS 35U8™* PS SDS	**69.2**	**12.5**
POWER PLUS 36J3™* PS SDS	**68.1**	**13.0**
POWER PLUS 41M4™* PS SDS	**65.7**	**13.0**
POWER PLUS 36J3™* PS	**57.7**	**13.1**
POWER PLUS 36J3™* PS	**54.9**	**13.1**
POWER PLUS 39R5™* PS	**50.9**	**12.8**
Average	66.9	12.6

Emil & Melissa Lagerhausen saw Hoblit 384LL PS SDS win at 72.9 bu/a in Shelby Co.

Corbin Casner enjoys his first tractor ride as the 8th generation on their Carroll Co., MO farm with his parents Adam & Rachel.

The LibertyLink® system – reducing risk and maximizing yield

Grower's desires today are very similar to the past when it comes to reducing risk and producing the biggest yields they can in their operation. This is especially evident in areas with increasing pressure from glyphosate resistant weeds. The LibertyLink® system can help achieve the desired results on your farm by bringing a different class of herbicides with great yield potential with the Hoblit and Hughes LibertyLink soybean lineup. Hoblit and Hughes LibertyLink beans deliver versatile, high yielding products with great disease packages.

Salvaging yield in resistant weed prone areas can be a major concern. One way to help save yield is to rotate herbicide class and mode of action. As an example, glufosinate herbicide (Liberty® and future generics) can be an effective tool to control a wide array of weeds, especially annuals within LibertyLink corn and soybean cropping systems. The popularity and use of this product has grown because it allows a grower to break the cycle of continuous glyphosate use. It is also an option to combat weeds that are resistant to other herbicide groups such as waterhemp, marestail, and giant ragweed. By introducing glufosinate into a herbicide program, weeds are exposed to a different chemistry (Group 10) site of action, which provides a unique mode of action to kill weeds and continue the fight against weed resistance. There have been many discussions on the proper use of glufosinate herbicide, especially within soybeans. It may offer convenience, but only if used correctly. We recommend growers follow all manufacturer's recommendations and labeled rates.

Realizing every missed weed can impact yield, we continue to strive for you to have success with glufosinate herbicide within your corn or soybean operation. As mentioned earlier, with the LibertyLink system, weeds are exposed to a different chemistry with a unique mode of action, to handle your toughest weeds while protecting your yield, profits, and the long-term success of your operation thus reducing your overall risk. Key benefits such as weed control and convenience can only be obtained if you are successful in the management of glufosinate within the elite genetics offered by the Burrus and Hughes corn and soybean LibertyLink lineup. Remember, maximizing net return is the goal from season to season. Weed resistance dramatically decreases net return in a Roundup (glyphosate) system. Growers should note that a LibertyLink system is a very competitive system in relation to other herbicide tolerant soybean programs. With Bayer's Liberty Weed Control Guarantee program in place for 2017 planting, growers can further reduce their risk knowing their weed control costs can be capped by following all of the program's guidelines. Please refer to the article about the program in this Harvest Report.

When growers effectively utilize the LibertyLink system for Hoblit and Hughes LibertyLink soybeans, they reduce the problems associated with resistant weeds and weed escapes. This is just one way growers begin to salvage yield. Eliminating resistant weeds boosts your bottom line in the long run. Our programs associated with the Hoblit and Hughes LibertyLink soybeans provide the opportunity for a better projected net return than Roundup Ready Xtend™ and other competitor Roundup Ready® 2 programs. The LibertyLink program tends to compete well against other herbicide/trait system programs where resistance is less of a concern but it dramatically out-competes those systems where resistance is of extreme concern.

Talk to your Burrus Account Manager today and learn more about our family of products and what can be done to help reduce risk and maximize yields on your farm.

Burrus AM Krista Lottinville & Jason Zimmer provide weed control in Kankakee Co plot.

PowerShield® SDS shows a huge advantage

COMPARE

Andy & Adam Schmalshof
Avon, IL

Planted: May 20 in 30" rows. **Planting Population:** 128,638. **Harvested:** October 19. **Previous Crop:** Corn. **Soil Type:** Medium loam. **Weather:** May–normal, June–normal, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 35C7™* PS SDS	75.4	13.0
POWER PLUS 37S7™* PS SDS	72.6	12.2
POWER PLUS 32D5™* PS SDS	72.0	12.9
POWER PLUS 38K6™* PS SDS	71.4	14.4
POWER PLUS 39R5™* PS SDS	70.5	13.9
POWER PLUS 36J3™* PS SDS	68.5	13.4
POWER PLUS 41M4™* PS SDS	67.4	12.6
POWER PLUS 36J3™* PS	66.5	11.9
POWER PLUS 35U8™* PS SDS	65.1	13.3
POWER PLUS 36J3™* PS	56.9	14.2
POWER PLUS 39R5™* PS	54.1	13.3
Average	67.3	13.2

Brenda Blackford & Burrus AM Quinn Moller saw the PowerShield® SDS save 25 bu/a in Vermillion Co!

JO DAVIESS

Kyle Embry
Hanover, IL

Planted: May 13 in 30" rows. **Planting Population:** 139,000. **Harvested:** October 10. **Previous Crop:** Corn. **Soil Type:** Medium Clay. **Weather:** May–wet, June–normal, July–normal, August–wet. ✓**Check Hybrid:** Power Plus 24P4™*

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK PS	64.9		14.4
POWER PLUS 20B7™* PS SDS	62.3	4	14.8
POWER PLUS 24J8™* PS SDS	66.5	1	14.6
POWER PLUS 25A5™* PS SDS	60.9	5	14.5
POWER PLUS 26Q8™* PS SDS	64.8	2	14.1
POWER PLUS 26Z5™* PS SDS	64.4	3	13.9
✓CHECK PS	49.3		14.0
Average	61.9		14.3
Check Average	57.1		14.2

Mike Langan, President of IL Seed Trade Association presents Tom Burrus with the Honorary Life Member Award.

Darren Taft & Marty Fairchild of Sangamon Co. employed an old fashion weed management program to get rid of waterhemp.

Stephanie Porter with her likeness on the 2017 advertising.

KANKAKEE

LibertyLink® beans

COMPARE

Jason Zimmer
Reddick, IL

Planted: May 6 in 30" rows. **Planting Population:** 140,000. **Harvested:** September 27. **Previous Crop:** Corn. **Herbicide:** Burn Down 2-4D, Roundup, Authority Elite, Glory. **Soil Type:** Heavy loam. **Weather:** May–normal, June–normal, July–wet, August–wet. **Remarks:** Lots of lodging in these beans.

Brand/Product	Bu. Per Acre	% Moisture
HUGHES 266LL	63.4	11.5
POWER PLUS 26Q8™*	60.6	11.2
HUGHES 555	59.6	11.2
HUGHES 266LL	59.4	11.5
POWER PLUS 28H5™*	59.2	11.8
POWER PLUS 31W7™*	56.6	11.3
HUGHES 236LL	56.5	11.4
POWER PLUS 25A5™*	55.7	11.2
POWER PLUS 26Z5™*	52.8	11.0
POWER PLUS 24P4™*	52.5	11.5
POWER PLUS 32D5™*	51.3	11.8
POWER PLUS 28V2™*	50.7	11.2
HUGHES 285LL	48.4	11.8
POWER PLUS 26Z5™*	47.7	11.2
Average	55.3	11.4

Jason Zimmer
Reddick, IL

Planted: May 6 in 30" rows. **Planting Population:** 150,000. **Harvested:** September 21. **Previous Crop:** Corn. **Herbicide:** Burn Down 2,4-D, Roundup, Authority Elite, Glory. **Soil Type:** Heavy loam. **Weather:** May–normal, June–normal, July–wet, August–wet. **Remarks:** Population Study.

Brand/Product	Bu. Per Acre	% Moisture	1000 Plants /Acre
POWER PLUS 28H5™*	66.9	12.5	150
POWER PLUS 28H5™*	65.9	13.3	100
POWER PLUS 28H5™*	65.6	12.6	125
POWER PLUS 28H5™*	62.9	13.8	75
Average	65.3	13.0	112

LASALLE

Jeff Busch
Tonica, IL

Planted: April 27 in 30" rows. **Planting Population:** 140,000. **Harvested:** October 11. **Previous Crop:** Corn. **Herbicide:** Matador, Roundup. **Soil Type:** Heavy loam. **Weather:** May–wet, June–dry, July–wet, August–wet. **Remarks:** ILeVO side-by-side plot.

Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 30B5™* PS	76.7	12.7
POWER PLUS 30B5™* PS SDS	75.4	12.6
Average	76.1	12.6

MCHENRY

Gary Aavang
Woodstock, IL

Planted: May 20 in 30" rows. **Harvested:** October 9.

Brand/Product	Bu. Per Acre	% Moisture
Pioneer 28T08	69.5	14.7
Pioneer 27T47	68.0	14.2
Curry 12589R	67.9	14.9
Pioneer 24T93	66.3	14.6
Pioneer 28T08	64.5	14.8
N. King 26P4	64.0	15.0
N. King 22S1	63.4	14.8
Pioneer 28T08	63.1	14.7
Credenz 2788RY	63.1	14.5
POWER PLUS 20B7™*	**63.0**	**14.9**
N. King 20T6	62.9	14.4
POWER PLUS 26Z5™*	**62.8**	**14.6**
POWER PLUS 24J8™*	**62.6**	**14.5**
Channel 2609R2	62.2	14.7
Credenz 1787RY	60.6	14.5
Channel 2108R2	58.7	15.1
Curry XS1626R	58.5	14.5
N. King 25L9	53.3	15.1
Credenz 2474RY	51.9	14.9
Average	62.4	14.7

Jim & Dave Vanderstappen
Hebron, IL

Planted: May 10 in 30" rows. **Planting Population:** 170,000. **Harvested:** October 13. **Previous Crop:** Corn. **Soil Type:** Medium loam.

Brand/Product	Bu. Per Acre	% Moisture
Asgrow 2535	77.9	14.1
Croplan 2124	73.7	13.7
POWER PLUS 24P4™*	**69.0**	**14.0**
Average	73.5	13.9

DJ Farms
Marengo, IL

Planted: May 7 in 30" rows. **Harvested:** September 18. **Previous Crop:** Corn. **Herbicide:** Roundup. **Soil Type:** Heavy loam.

Brand/Product	Bu. Per Acre	% Moisture
Pioneer P24T93 Treated	65.7	13.1
POWER PLUS 24Z5™* PS Treated	**57.8**	**13.4**
Water Seed 2115RR2 Treated	57.7	11.3
Channel 2609RR2	56.9	15.0
Channel 2306RR2	56.3	11.8
POWER PLUS 20B7™* PS Treated	**56.2**	**11.2**
Water Seed 2403RR2	55.7	11.7
Pioneer P25T51	53.8	11.9
Channel 2108RR	53.6	11.0
Pioneer P24T05R Treated	53.5	11.5
HUGHES 201RR	**53.3**	**11.7**
POWER PLUS 24P4™* PS Treated	**52.8**	**11.4**
HUGHES 201RR	**50.6**	**11.1**
Average	55.7	12.0

New Power Plus® 36A1X™* Roundup Ready 2 Xtend™ soybeans looked great all season.

MONROE

Chris Howell
Columbia, IL

Planted: May 24 in 30" rows. **Planting Population:** 120,000. **Harvested:** October 17. **Previous Crop:** Corn. **Herbicide:** Authority XL, Glyphosate, 2-4D, Prefix, Select. **Soil Type:** Medium loam. **Weather:** May–wet, June–normal, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture
HOBLIT 426LL PS	**65.3**	**10.8**
POWER PLUS 42V6™* PS SDS	**63.9**	**10.5**
HOBLIT 384LL PS	**63.1**	**10.4**
POWER PLUS 39R5™* PS SDS	**61.7**	**11.3**
HOBLIT 457LL PS	**61.2**	**10.8**
HOBLIT 405LL PS	**60.8**	**10.1**
POWER PLUS 46A5™* PS	**60.4**	**10.8**
POWER PLUS 39R5™* PS	**57.1**	**12.0**
HOBLIT 384LL PS SDS	**55.4**	**10.8**
POWER PLUS 38K6™* PS SDS	**54.6**	**10.7**
POWER PLUS 36J3™* PS	**53.0**	**10.7**
POWER PLUS 37S7™* PS SDS	**51.3**	**10.8**
Average	59.0	10.8

OGLE

Power Plus® 26Z5™ brand* & PS SDS are first & third

Rochelle FFA
Rochelle, IL

Planted: May 2 in 30" rows. **Planting Population:** 140,000. **Harvested:** October 18. **Previous Crop:** Corn.

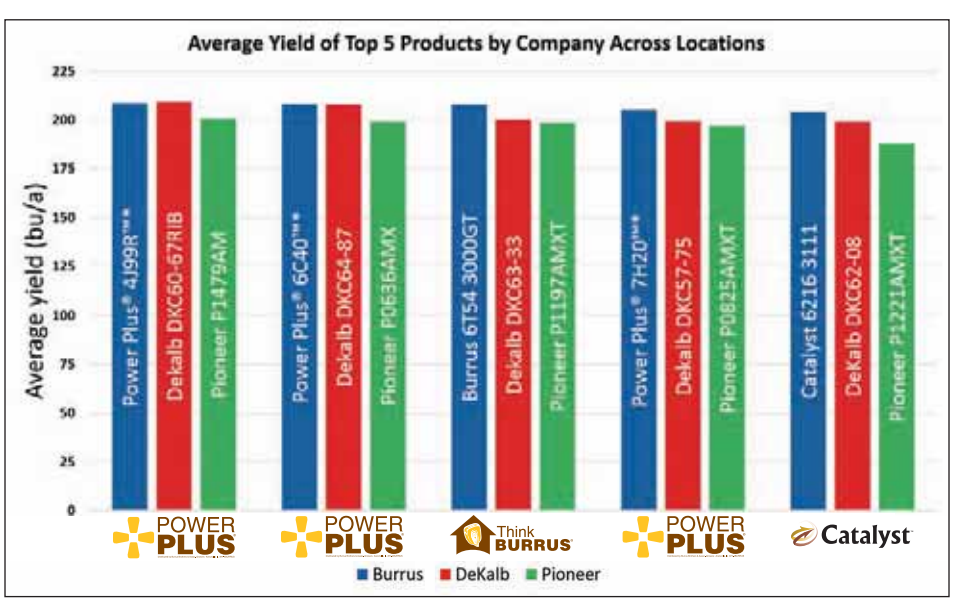
Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 26Z5™*	**69.6**	**11.7**
Asgrow 2636	69.5	11.8
POWER PLUS 26Z5™* PS SDS	**69.5**	**11.8**
FS 24A50	69.3	12.0
POWER PLUS 26Q8™*	**68.8**	**11.8**
FS 32A50	68.6	12.0
Pioneer 27T47	68.5	12.1
FS 28A42	68.5	12.1
POWER PLUS 29P8™*	**68.1**	**11.8**
Asgrow 2836	67.4	11.7
FS 23A42	66.0	11.7
Asgrow 2535	65.4	11.6
Pioneer 32T16	65.3	11.7
Pioneer 25T51	65.0	12.1
Pioneer 24T05	64.5	11.9
Pioneer 22T41	60.1	12.0
FS 24A42	59.6	11.8
Average	66.7	11.9

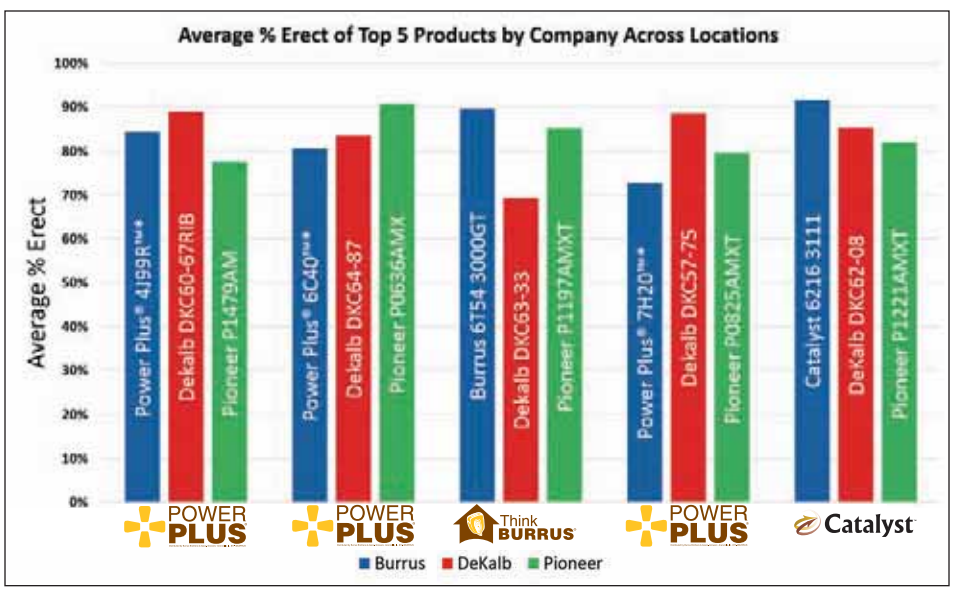
Dave Hughes speaks at a Hughes field day near Woodstock, IL.

Burrus/Hughes Hybrids stack up!

Five hybrids deep! We summarized 26 locations of data comparing the Burrus number one hybrid to the number one from both Pioneer and Dekalb, then summarized the second best compared to the second best of our two largest competitors. We like how we stack up in yield and standability. Five hybrids deep!

Why is Burrus better? We have more meticulous production techniques, that means higher quality seed. We test on all soils so our "laddered approach" to testing is paying off. Our multi-brand strategy brings Burrus more genetic access as well as more diverse trait packages. Last and certainly not least, our PowerShield® seed treatment is better. Poncho® 500 VOTiVO® adds 5.4 bu/a compared to their standard treatment. Add it all up… and Burrus is a winner! Put these products to work on your farm and reap the benefits of higher yield, better standability, and 100% Free Replant.





Power Plus® 4J95AMX™* & Catalyst 6216 3111A above 225 bu/a in Greene Co. for Annabeth, Melanie, Joe, Doug & Shirley Thornton.

Sassy, savvy, and shrewd soybean selection for 2017

by Stephanie Porter
Sales Agronomist

Herbicide resistance. Let's face it, weed resistance in soybeans has reached the ultimate level of doom and gloom. We know there are many new herbicide traits on the horizon, but the complicated cloud of regulation and specific herbicide use/restrictions lingers over us, reminding us nothing is easy. We are left asking questions about herbicide trait approvals and over the top herbicide formulations. If there is no herbicide label, we don't know herbicide restrictions. With all this uncertainty, many are turning to LibertyLink® soybean varieties.

Soybean maturity. It seems like I give the same song and dance about soybean maturity every year, but growers always ask if they should grow a soybean maturity out of zone. There will be some exceptions, but for the most part choosing the right maturity group is one of the most important decisions because soybeans are photoperiod sensitive. If a variety is chosen north of its adaption, maturity could be delayed, seed fill might occur in the cool, short days of fall, and frost could occur before reaching maturity. If you choose a variety south of its adaptability, maturity could occur faster than normal and seed fill could occur in a hot, dry July.

Area of adaption/spreading risk. You may not believe this, but it's true, some varieties have sweet spots and are better suited to your area's soil types or diseases. This is why you should choose soybean varieties that have been tested and proven to yield in multiple soil types and in multiple environments. The key here would be consistency. You can get discounts by buying in bulk, but please spread your risk by choosing soybean varieties that differ 5 to 7 days. Short season varieties sometimes escape late season disease and fuller season varieties maximize use of the growing season for yield

Disease. What diseases usually plague your soybeans and was this because of the environment or a particular soybean variety? Soybean disease and soybean cyst nematodes (SCN) are YIELD robbers! Have you tested or correctly identified these issues on your farm? Resistance or tolerance has been bred into soybeans for Phytophthora root rot, sudden death syndrome, brown stem rot, white mold, soybean cyst nematode, root knot nematode, and some leaf diseases. Use of resistant or tolerant varieties is the best method of disease control.

Seed treatment. Billions of dollars are spent on seed treatment being used as insurance against disease as well as SCN, while allowing us to reduce our seed populations. We have seen a huge increase in its use, but do you know what you are getting for your investment? Is there a fungicide, insecticide, or biologicals? How many different fungicide modes of action are included? What is the rate? Are you getting the higher or lower rate of ILeVO®? Remember, not all seed treatments are created equal and return on your investment is key. Our PowerShield seed treatment is considered "best in class" and offers 100% free replant protection. Remember PowerShield will protect your soybeans from sudden death syndrome. This seed treatment will add 2 to 3 bu/a when no visible damage is shown and 5 or more bu/a advantage when visible SDS damage is showing.

Emergence/standability. Yes, emergence and vigor can be linked to genetics, so look for varieties with good emergence scores but seed quality can also come into play. Have you seen the warm or cold germination tests of the seed? Poor seed quality can lead to more disease and thus, reduction in stand, especially when planted early into cool, wet environments. The standability of soybeans can be genetic, but other factors such as environment and seeding rate also have an effect. This year, soybeans were taller than ever and some had horrible lodging issues! Choose shorter varieties or those with good standability scores if you continue to have lodging issues.

Accurate product selection of soybeans is important. This along with environment, field placement, fertility, disease, SCN, insects, and weed management can all be contributing factors for determining potential yield. No one knows your fields better than you; therefore, pinpointing the correct maturity range, pest control, agronomic traits, weed program, or other management practices needed for your operation will give you the recipe for success.

PEORIA

Power Plus® 32D5™* brand is first!

COMPARE

Peoria County Corn/Soy Promoter
Peoria, IL

Planted: May 19 in 30" rows. **Harvested:** October 19. **Previous Crop:** Corn. **✓Check Hybrid:** NK 30V6

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK	57.7		12.2
Asgrow AG2836	60.2	3	12.2
Monier M2837	60.4	2	12.4
Becks 323R4	51.1	14	12.2
POWER PLUS 32D5™*	**60.5**	**1**	**11.8**
Credenz CZ3383	56.3	5	12.1
Monier M3425	54.5	11	12.0
Stone 2R3401	54.1	12	12.1
Asgrow AG3526	54.6	9	11.9
✓CHECK	59.6		12.0
Credenz CZ3560	53.4	13	12.0
Stone 2R3516	60.2	4	11.7
NK S36-Y6	55.6	10	12.0
Nu-Tech 7360	49.7	16	12.1
NK S37-28	57.3	6	12.2
Becks 387R4	56.7	7	11.5
POWER PLUS 38K6™*	**51.9**	**15**	**11.6**
Nu-Tech 7384	56.5	8	11.7
✓CHECK	59.9		11.6
Average	56.3		12.0
Check Average	59.1		11.9

SANGAMON

Over 2 bu/a advantage with Power Plus® beans

Curtis Biesenthal
New Berlin, IL

Planted: May 5 in 30" rows. **Planting Population:** 140,000. **Harvested:** October 14. **Previous Crop:** Corn. **Herbicide:** Boundry. **Soil Type:** Medium loam. **Weather:** May–dry, June–wet, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 32D5™*	**79.9**	**13.4**
POWER PLUS 35C7™*	**77.6**	**13.6**
ProHarvest 3952	77.1	13.6
ProHarvest 16410	74.6	15.1
POWER PLUS 37S7™*	**73.7**	**12.7**
POWER PLUS 38K6™*	**73.1**	**12.9**
ProHarvest 3652	70.5	14.8
POWER PLUS 39R5™*	**70.4**	**14.2**
POWER PLUS 36J3™*	**69.7**	**13.6**
ProHarvest 3971	67.9	13.8
POWER PLUS 39R5™*	**64.2**	**13.7**
ProHarvest 3863	61.6	14.3
Average	71.7	13.8

Lederbrand Bros
Pawnee, IL

Planted: May 10 in 30" rows. **Planting Population:** 140,000. **Harvested:** October 11. **✓Check Hybrid:** Stine 35RF02

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK	66.8		11.5
Croplan R2C3323	55.4	19	11.3
Stine 35RF02	55.4	20	11.4
NK S35-C3	59.1	16	11.5
Croplan LC3600	62.6	13	11.4
Stine 36LE32	61.0	15	11.5
NuTech 7360	55.3	21	11.5
POWER PLUS 36J3™*	**56.9**	**18**	**11.4**
NK 36-Y6	51.9	22	11.4
Credenz 3737	65.8	11	11.3
NK S37-Z8	63.6	12	11.1
Croplan R2C3785S	57.5	17	11.1
✓CHECK	57.0		11.3
Stine 38RE02	62.7	4	10.8
POWER PLUS 38K6™*	**60.4**	**7**	**10.7**
Asgrow AG3832	67.7	1	10.7
Credenz 3841	60.4	8	10.8
NK S39-C4	65.0	2	10.8
Credenz 3945	60.0	9	10.8
Croplan R2C4000	62.3	5	10.8
Credenz 4105	61.5	6	10.8
Asgrow AG4135	58.8	10	10.9
Credenz 4222	54.2	14	10.8
NK S42-P6	64.7	3	10.7
✓CHECK	52.6		11.0
Average	59.9		11.1
Check Average	58.8		11.3

SHELBY

PowerShield® SDS 2.4 bu/a better

Emil Lagerhausen
Shumway, IL

Planted: June 3 in 30"rows. **Planting Population:** 140,000. **Harvested:** October 18. **Previous Crop:** Corn. **Herbicide:** Liberty. **Soil Type:** Medium loam. **Weather:** May–wet, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture
HOBLIT 384LL PS SDS	**72.9**	**12.0**
HOBLIT 384LL PS	**71.5**	**12.2**
HOBLIT 355LL PS SDS	**66.2**	**12.4**
HOBLIT 405LL PS SDS	**66.0**	**12.4**
HOBLIT 457LL PS SDS	**63.1**	**12.1**
HOBLIT 426LL PS	**61.0**	**12.3**
Average	66.8	12.2

VERMILION

25 bu/a advantage for PowerShield® SDS

Brian Blackford
Armstrong, IL

Planted: May 20 in 30" rows. **Planting Population:** 145,000. **Harvested:** October 10. **Previous Crop:** Corn. **Herbicide:** Roundup, Sharpen, Fierce. **Soil Type:** Clay. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture
Hoblit 355LL PS SDS	**83.4**	**11.3**
Hoblit 355LL PS	**58.3**	**12.4**
Average	70.8	11.9

WINNEBAGO

Three Power Plus® varieties above 80 bu/a

TNT
Winnebago, IL

Planted: May 21 in 30" rows. **Planting Population:** 155,000. **Harvested:** October 14. **Previous Crop:** Corn. **Soil Type:** Medium loam. **✓Check Hybrid:** Power Plus 28V2™* PS

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK	74.0		13.3
POWER PLUS 20B7™* PS SDS	**75.5**	**5**	**13.4**
POWER PLUS 24J8™* PS SDS	**81.7**	**2**	**12.6**
POWER PLUS 24P4™* PS	**70.8**	**7**	**13.2**
POWER PLUS 25A5™* PS SDS	**69.1**	**8**	**13.1**
✓CHECK	74.5		12.8
POWER PLUS 26Q8™* PS SDS	**75.3**	**6**	**12.2**
POWER PLUS 26Z5™* PS SDS	**82.5**	**1**	**12.2**
POWER PLUS 28H5™* PS	**75.1**	**4**	**12.5**
POWER PLUS 29J8™* PS SDS	**80.3**	**3**	**12.4**
✓CHECK	73.2		12.3
Average	75.6		12.7
Check Average	73.9		12.8

New production technique adds to grower profitability

For nearly 45 years, Burrus has used an interplant seed corn production system which allowed utilization of every acre for female rows. We planted a solid acreage of 38 inch female rows and split every other pair of females with a male row on 19 inch centers. Once pollination was completed, we would mow down the males.

When some of our highest yielding hybrids were not getting enough sunlight for the males to function properly using the interplant system, the Burrus production staff worked to find a solution. They introduced a new wide row seed corn production system where all rows were 38 inches apart with each pair of female rows flanked by a male, allowing the male to perform much better.

In 2016, we split the males 10 inches apart using one pusher planter and one trailing unit. Sometimes we make two plantings of male rows a few days apart to spread the pollen load. Another way we can widen the pollen shed window is by using a plant growth regulator called BioNik™. This seed treatment delays germination without the risk of a potential rain delay. The 2016 planting system proved to work even better than the previous system.

Innovation has long been a trademark at Burrus. Our new planting pattern allows us to economically produce high yielding hybrids that other companies cannot using a standard 30 inch corn planter in a 4:1 planting pattern. "This system does two very positive things for our customers; first, we don't have to allocate or limit how many units a customer can buy and second, seed field yields are high enough to make the products economically feasible," said Kevin Burrus.

Wide row seed production on August 17th after detasseling and male rows have been destroyed, female rows ready for harvest.

A specialized male row planter for the new wide row production system. GPS allows the male to be planted before or after the female rows.

PLATELESS PLANTERS

SEED SIZE weight per 80,000 kernel unit		SURE DROP 2 under 30#		SURE DROP 3 30-39#		SURE DROP 4 40-49#		SURE DROP 5 50-59#	SURE DROP 6 60-69#	SURE DROP 7 70# and over
Burrus Xtra seed treatment (Poncho® 500) High rate Poncho (Poncho 1250)****		**BX2 HP2**		**BX3 HP3**		**BX4 HP4**		**BX5 HP5**	**BX6 HP6**	**BX7 HP7**
John Deere/Kinze Finger Pickup *1 *7	Max. Speed *2	66% *3		66-90% *3 *5		100%		100%	100%	100%
John Deere Vacuum Pickup *6	Disc Size Vacuum Inches	A43215 7-13		A43215 7-12		A43215 10-13	A50617 7-10	A50617 9-13	A50617 10-13	A50617 13-15
John Deere ExtractEmerge Vac Meter *6	Vacuum Inches	consult manufacturer		4-8		8-10		9-13	13-15	17-20
Kinze Edge Vac *7	Disc Size Vacuum Inches *8 Singulator *8	Regular Corn not recommended not recommended		Regular Corn 20 8		Regular Corn 20 8		Regular Corn 20 8	Regular Corn 20 8	Regular Corn 20 5
Case IH and IHC Early Riser	Drum Hopper Pres. *4 Brush Setting	Popcorn or Corn *5 8-9 oz. 1/2 down		Popcorn 10 oz. Wire down	Corn *5 8-9 oz. up	Corn 9-10 oz. Lt. Contact		Corn 10-12 oz. Down	Corn 12 oz. max Remove	Corn 12 oz. max Remove
Case IHC 1200 *7 New Holland SP Series	Disc Size Vacuum Singulator	4845 20 1.5	4855 18 1.75	4845 22 1.75	4855 18 1.75	4855 20 1.75		4855 20 1.75	4855 20 1.75	4855 20 1.75
White Air 6000 and New Idea 9000	Disc Size	852436 or 852437		852436 or 852437		852435 or 852436		852434 or 852435	852434	852434

***1** Also for Black Machine, Great Plains, Buffalo Finger Pickup, JD1535 drill.

***2** For maximum planter speed, multiply the percentage shown times recommended speed range in operator's manual

***3** Worn ripples on the carrier plate can increase overdrop drastically.

***4** For IHC Cyclo Air models, deduct 1 ounce of air pressure.

***5** Recommendation does not fit every weight in this SureDrop size. Consult recommended weight range above or on your operator's manual.

***6** Consult operator's manual for talc recommendation. Double recommendation for Poncho treated seed.

***7** Consult operator's manual for graphite recommendation.

***8** Check field performance for specific settings.

For other plate planter recommendations, call our office toll free at (877) 4 BURRUS.

BX6's and BX7's will be packaged in 40,000 kernel bags, sold as 80,000 units so two bags equal one unit when they weigh above 65 lbs/80 M.

Always use SuperFLOW™ or talc/graphite, etc. according to the label for lubricant to avoid bridging in the planter box.

BOONE

3.7 bu/a advantage for PowerShield® SDS

John & Zach Lorentzen
Sturgeon, MO

Planted: May 7 in 30" rows. **Planting Population:** 165,000. **Harvested:** October 16. **Herbicide:** Liberty. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture
HOBLIT 384LL PS SDS	**66.1**	**13.6**
HOBLIT 384LL PS	**62.4**	**13.8**
HOBLIT 405LL PS	**62.3**	**13.9**
HOBLIT 355LL PS	**61.3**	**13.2**
HOBLIT 426LL PS	**59.3**	**13.7**
HOBLIT 457LL PS	**58.8**	**13.7**
Average	61.7	13.6

CARROLL

Hoblit 384LL at 91.8 bu/a

Lavelock Brothers Farms
Carrollton, MO

Planted: April 10 in 30" rows. **Planting Population:** 140,000. **Harvested:** October 5. **Previous Crop:** Corn. **Herbicide:** Liberty. **Soil Type:** Light loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **Remarks:** Soybean strip test.

Brand/Product	Bu. Per Acre	% Moisture
HOBLIT 384LL	**91.8**	**13.6**
HOBLIT 384LL	**91.7**	**13.2**
Average	91.8	13.4

CHARITON

Over 2 bu/a advantage with Hoblit LL beans

McCormick Farms
Sumner, MO

Planted: May 6 in 15" rows. **Planting Population:** 151,000. **Harvested:** October 14. **Previous Crop:** Corn. **Fertilizer:** N: VRT, P: VRT , K: VRT. **Herbicide:** Liberty. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture
HOBLIT 426LL	**87.4**	**13.1**
Morsoy 3973LL	86.5	14.0
Morsoy 3944LL	80.8	13.9
HOBLIT 405LL	**80.4**	**13.5**
Morsoy 4222LL	78.4	14.3
Morsoy 3756LL	77.0	13.9
Morsoy 3704LL	75.2	14.2
HOBLIT 355LL	**74.3**	**13.6**
HOBLIT 384LL	**73.1**	**13.5**
Morsoy 4256LL	72.5	13.6
Morsoy 4250LL	62.7	13.8
Average	77.1	13.8

GRUNDY

PowerShield® SDS adds yield

MG & Beth Kennedy
Trenton, MO

Planted: May 15 in 30" rows. **Planting Population:** 121,000. **Harvested:** October 10. **Previous Crop:** Corn. **Herbicide:** Roundup, Warrant Burndown, Liberty. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture
HOBLIT 384LL PS SDS	**64.7**	**12.7**
HOBLIT 405LL PS SDS	**61.3**	**12.7**
HOBLIT 405LL PS	**54.0**	**12.8**
HOBLIT 426LL PS	**52.2**	**12.5**
HOBLIT 355LL PS	**50.5**	**12.7**
HOBLIT 384LL PS	**50.5**	**12.6**
Average	55.5	12.7

MONROE

Rick Larrick
Shelbina, MO

Planted: May 6 in 30" rows. **Planting Population:** 150,000. **Harvested:** October 21. **Previous Crop:** Fallow. **Fertilizer:** N: 0, P: 60 , K: 60. **Herbicide:** Zidua, Roundup, Cobra. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 39R5™*	**74.2**	**13.7**
Becks 393R4	73.3	13.4
POWER PLUS 37S7™*	**72.7**	**12.8**
POWER PLUS 38K6™*	**72.7**	**13.1**
POWER PLUS 42V6™*	**70.2**	**13.1**
POWER PLUS 41M4™*	**69.3**	**13.2**
POWER PLUS 41M4™*	**66.4**	**13.4**
POWER PLUS 36J3™*	**66.2**	**13.3**
POWER PLUS 36J3™*	**64.8**	**13.7**
Average	70.0	13.3

M.G. Kennedy, Gary & Aaron Bunnell & Derek Stimpson of Grundy Co., MO saw Power Plus® 6C41 S™* roll out 259 bu/a.

Burrus SM Tim Carmody & Burrus AM Jordan Watson help prepare the meal at Matt Zachariah's customer appreciation day in Shelby Co., MO.

LAFAYETTE

Hoblit 384LL wins at 90.5 bu/a

COMPARE

Mark Nuelle
Higginsville, MO

Planted: June 2 in 30" rows. **Planting Population:** 165,000. **Harvested:** October 19. **✓Check Hybrid:** LG Seeds C3753LL

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK	93.1		13.4
HOBLIT 384LL	**63.1**	**8**	**13.3**
Becks 394L4	80.5	5	13.4
LG Seeds C3904LL	88.9	2	13.4
HOBLIT 384LL	**90.5**	**1**	**13.3**
✓CHECK	77.7		13.6
Becks 424L4	80.6	6	13.3
HOBLIT 384LL	**87.5**	**3**	**13.9**
LG Seeds C4100LL	78.2	7	13.4
Becks 449L4	87.3	4	13.6
✓CHECK	96.2		13.5
Average	84.0		13.5
Check Average	89.0		13.5

SALINE

6 to 7 bu/a increase with PowerShield® SDS

Heath & Jared Meyer
Gilliam, MO

Planted: May 26 in 30" rows. **Planting Population:** 170,000. **Harvested:** October 17. **Previous Crop:** Corn. **Herbicide:** Authority, 2-4D, Roundup, Prefix. **Soil Type:** Light loam. **Weather:** May–normal, June–dry, July–wet, August–wet.

Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 38K6™* PS	**71.7**	**13.1**
POWER PLUS 39R5™* PS SDS	**68.8**	**13.7**
POWER PLUS 36J3™* PS SDS	**67.1**	**13.5**
POWER PLUS 39R5™* PS	**63.2**	**13.7**
POWER PLUS 46A5™* PS	**62.2**	**13.3**
POWER PLUS 36J3™* PS	**60.4**	**13.3**
NK 42W9 CM	55.3	13.5
Average	64.1	13.4

LEWIS

Larry & Scott Rutledge
Monticello, MO

Planted: May 23 in 30" rows. **Planting Population:** 160,000. **Harvested:** October 18. **Previous Crop:** Corn. **Herbicide:** Roundup, Cobra. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–dry, August–wet.

Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 38K6™* PS SDS	**68.9**	**11.5**
POWER PLUS 36J3™* PS	**62.5**	**11.3**
POWER PLUS 42V6™* PS SDS	**61.4**	**11.7**
POWER PLUS 41M4™* PS SDS	**61.4**	**11.7**
Average	63.6	11.6

SHELBY

Rutter Farms Inc.
Shelbina, MO

Planted: May 22 in 30" rows. **Planting Population:** 150,000. **Harvested:** October 18. **Previous Crop:** Corn. **Fertilizer:** N: 0, P: 30 , K: 30. **Herbicide:** Liberty. **Soil Type:** Medium loam. **Weather:** May–normal, June–dry, July–wet, August–wet. **Remarks:** Hoblit 457LL was shaded by corn.

Brand/Product	Bu. Per Acre	% Moisture
HOBLIT 405LL PS	**81.9**	**11.0**
HOBLIT 384LL PS SDS	**81.3**	**11.3**
HOBLIT 384LL PS	**74.1**	**11.2**
HOBLIT 426LL PS	**70.6**	**10.8**
HOBLIT 457LL PS	**65.8**	**10.9**
HOBLIT 355LL PS	**62.6**	**10.6**
Average	72.7	11.0

Sudden death syndrome and PS SDS (ILeVO®)

by Stephanie Porter

Though soybean varieties are rated and given a disease score for sudden death syndrome (SDS) based on visual symptoms throughout the season, there is no variety that is completely resistant to SDS. This disease is a root rot that can infect soybean roots in the absence of foliar symptoms. Often times SDS infects soybeans that have also been infested with soybean cyst nematodes or stressed by other elements. Soybean fields most at risk are low-lying or compacted areas that are poorly drained and can collect water. Studies also show there seems to be differences in disease severity according to tillage versus no tillage. However, the key to the impact of this disease is environmental conditions early in the season.

Soybeans planted earlier in the season are more at risk to have cooler temperatures (50 to 60º F) after planting however, when moving further north, cooler temperatures can result despite planting date. Cooler temperatures after planting, moisture throughout June and July, and a heavy rain in late July/August that brings up the toxin causing foliar symptoms combine to make the perfect storm for the development of sudden death syndrome. For more information on SDS development in 2016, see the August 13th Think Burrus blog post at blog.thinkburrus.com.

Research has proven that despite risks such as SDS, early planting is a way to help increase soybean yield. Therefore, an option is to use the higher rate (.15 mg) of ILeVO® within Burrus' PS SDS seed treatment to help reduce the risk of SDS as well as provide early season control of soybean cyst nematodes. Remember, PS SDS seed treatment is not a silver bullet for SDS, but a tool that can be used as insurance along with other management strategies to combat the disease. Burrus recommends this seed treatment for those who have previously struggled with SDS, plant early, plant soybean varieties with a lower SDS score, or just want the best seed treatment protection on 100% of their soybean acres. Many years of university and industry research have shown that use of ILeVO can result in an increase of 2 to 10 bu/a, depending on variables such as environment, soybean variety susceptibility, and disease pressure. For more information on PS SDS seed treatment, see the June 7, 2016 Burrus Buzz article on www.burrusseed.com.

Jason Zimmer in Kankakee Co., IL plot shows extended plant health at the end of the season: Power Plus® 26Z5™* with PS SDS (right) and Power Plus 26Z5™* treated with PowerShield® (left).

Power Plus® 39R5™* treated with PowerShield® (left) and Power Plus® 39R5™* treated with PS SDS (right) in Andy Schmalshof's soybean plot in Fulton Co., IL.

RACINE

Three Power Plus® hydrids win the plot

COMPARE

Performance Planting
Franksville, WI

Planted: May 24 in 30" rows. **Harvested:** October 23.
Previous Crop: Corn. **Soil Type:** Heavy loam.

Brand/Product	Bu. Per Acre	% Moisture
POWER PLUS 28H5™*	**70.5**	**14.5**
POWER PLUS 24J8™*	**68.8**	**14.0**
POWER PLUS 25A5™*	**66.3**	**14.0**
Dairyland DSR2616	65.8	14.2
Dairyland DSR2330	65.2	14.4
POWER PLUS 26Z5™*	**63.2**	**13.8**
POWER PLUS 26Q8™*	**62.5**	**14.1**
POWER PLUS 24P4™*	**62.5**	**14.1**
Dairyland DSR2330	62.4	13.7
Dairyland DSR2330	62.2	13.9
Dairyland DSR2330	62.0	14.3
Dairyland DSR2110	61.8	13.9
POWER PLUS 20B7™*	**60.1**	**14.6**
Dairyland DSR2707	58.8	14.0
POWER PLUS 28V2™*	**56.8**	**14.5**
Dairyland DSR2017	56.3	14.0
Dairyland DSR1870	55.8	14.1
Dairyland DSR1721	54.4	13.8
Dairyland DSR1526	49.9	13.6
Average	61.3	14.1

Rowntree Farms
Kansasville, WI

Planted: May 20 in 30" rows. **Harvested:** October 18. **Herbicide:** Prowl, Firstrate, Credit Xtreme. **✓Check Hybrid:** N. King 25-L9

Brand/Product	Bu. Per Acre	Rank	% Moisture
✓CHECK	67.9		14.8
Credenz 1787RY	72.1	5	14.5
POWER PLUS 20B7™*	**65.6**	**13**	**14.2**
N King 20-T6	59.5	15	13.8
Channel 2108R2	67.2	12	14.1
N King 22-S1	68.3	9	13.7
Pioneer 24T93	68.2	10	13.9
Credenz 2474RY	63.3	14	14.2
✓CHECK	65.9		14.2
POWER PLUS 24J8™*	**67.5**	**8**	**14.0**
Channel 2609R2	69.8	6	14.0
N King 26-P3	69.4	7	14.0
Curry XS1626R	72.9	3	13.9
POWER PLUS 26Z5™*	**66.1**	**11**	**13.8**
Pioneer 27T47	73.0	2	13.9
Curry 1289R	72.9	3	14.0
Pioneer 28T08	74.0	1	13.9
✓CHECK	65.5		14.1
Average	68.3		14.1
Check Average	66.4		14.4

Ben & Matt Bangert of Scott Co. look on as Rich Thompson places the Enlist™ field marker on their Enlist E3™ soybeans. Burrus was fortunate to showcase the only Enlist Field Forward Soybean fields in Illinois.

ROUNDUP READY 2 XTEND SOYBEANS | Enlist | Enlist E3 | Balance GT

	Roundup Ready 2 Xtend®	Enlist Roundup Ready 2 Yield® / Enlist E3™	Balance™ GT
HERBICIDE RESISTANCE:	Glyphosate & dicamba	Glyphosate, 2,4-D and glufosinate	Glyphosate & isoxaflutole
ACCEPTED HERBICIDE:	XtendiMax™ w/ VaporGrip™ Roundup Xtend® w/ VaporGrip™	Enlist Duo™: with Colex-D™ a blend of 2,4-D choline and glyphosate. (Glufosinate application must be made separately)	Balance® Bean: burndown, pre-plant/pre-emergence as a burndown product
RESTRICTIONS			
BOOM HEIGHT:	20" or shorter	24" or less	Not known at this time
BUFFER ZONE:	Uncertain. Buffer zone on label will be required between Xtend and non-Xtend crops	Maintain a 30' downwind buffer from sensitive areas. Buffer not required for adjacent agricultural fields.	Uncertain, pending regulatory approval
NOZZLES:	Extremely coarse or ultra coarse droplets and low drift	Only use nozzle and pressure combinations listed on label and Product Use Guide	Uncertain, pending regulatory approval
WEED HEIGHT:	4" or shorter	3-6" tall (3.5 pt/a) Glyphosate resistant or hard-to-control weeds (4.75 pt/a)	Use prior to weed emergence (Balance Bean is a residual)
WIND SPEED:	3-5 km/h (approximately 1-3 mph)	3-10 mph, not to exceed 15 mph; Do not apply if wind favors off-target movement onto adjacent susceptible plants.	Uncertain, pending regulatory approval
APPROVAL STATUS			
SOYBEAN SYSTEM:	Approved: US, EU and China	Approved: US Awaiting: EU and China	Approved: US and EU Awaiting: China and Japan
HERBICIDE:	Pending regulatory approval	Labeled in 15 US states	Pending regulatory approval
ADDITIONAL INFORMATION			
OTHER NOTES:	AMS and Ammonium based additives not recommended due to negative interaction with drift retardant effectiveness	Any non-water tank mixing agent needs to be approved. Approved products can be found at www.enlisttankmix.com	LibertyLink® will become a foundation trait going forward

Stephanie Porter, C.C.A., Burrus Seed Sales Agronomist, October 2016

SOYBEAN PLANTING RATES

Row width	7.5 inch	15 inch	30 inch
Untreated	190-200	165-175	150-160
PowerShield® (fully treated)	160-170	135-145	125-135
PowerShield® SDS	160-170	135-145	125-135

1,000 SEEDS PER ACRE
Use higher end of range in less than ideal conditions.

Stephanie Porter & Don Bloomfield of Sangamon Co. enjoyed their soybean scouting.

Luke Schone of Morgan Co. is all smiles while looking at his Power Plus® 38K6™* soybeans.

The Liberty® Weed Control Guarantee

Bayer CropScience is offering a Liberty® Weed Control Guarantee for the 2017 growing season. Hoblit and Hughes branded LibertyLink® soybeans are in hot demand and this new program from Bayer is icing on the cake! With so many weeds showing resistance to the popular glyphosate herbicide, this program takes the guesswork out of which herbicide program should be the "go to" system. Why? Because it is guaranteed.

Bayer says that Liberty herbicide is simply better weed control and a vast majority of growers agree. When you buy Liberty herbicide from an authorized Bayer retailer or distributor, apply it according to labeled rates and S.T.O.P. guidelines, Bayer guarantees it will meet commercially acceptable control. If commercially acceptable control isn't met, talk to your retailer or Bayer representative to ensure your satisfaction.

To achieve optimal results, take the following actions:

- Apply at recommended rates.
- Follow all label directions.
- Follow S.T.O.P. guidelines.
- Follow regional and crop specific use guidelines and recommendations.

The Liberty S.T.O.P application guidelines for maximum control:

S tart clean and stay clean
Control emerged weeds prior to planting and control escapes throughout the season.

T arget <3" weeds
Small weeds are easier to control.

O ptimize coverage
Follow the correct rate, water volume and droplet size.

P air with residuals
Use multiple effective sites of action for pre- and post-residuals.

Hughes AM Brad Kufalk showcases products at Jim Waldron's field day in Racine Co., WI.

Talk to your local Bayer representative to get additional details for regional and crop specific use guidelines and recommendations.

- An authorized Bayer representative must be notified of a Liberty Weed Control Guarantee claim within 10 days of application and have a reasonable opportunity to inspect the sprayed area prior to making any rescue applications. The authorized Bayer representative must confirm inadequate control relative to commercially acceptable control.
- Only product purchased from a Bayer authorized retailer or Bayer distributor is eligible.
- All payments are subject to final approval by Bayer.
- Bayer reserves the right to audit all claims.
- Bayer reserves the right to change any or all features of the Liberty Weed Control Guarantee.

Braden enjoys examining his grandpa Dave Olson's Hughes 236LL with ILeVO® in Dane Co., WI.

GUIDE TO ACCURATE SOYBEAN PLANTING

	SMALL TO NORMAL SEED SIZE		LARGE SEED SIZE	
	2500 seeds per pound or greater; 56 lbs. or less per 140k unit		**2500 seeds per pound or less (1800 to 2500) 56 lbs. per 140k unit or more**	
John Deere Non-Vac (Finger Pickup Type Corn Planters) *1 *4 *5	Using Kinze Brush Meters – (2500 seeds/lb or more) Black Brush Type 60 Cell Seed Metering Plate Using Radial Metering Bean Plate – (3700 - 4500 seeds/lb) setting "A", (2800 - 3700 seeds/lb) setting "B"		Using Kinze Brush Meters – (2500 seeds/lb or less) Blue Brush Type 48 Cell Seed Metering Plate Using Radial Metering Bean Plate – (2000 - 2800) seeds/lb) setting "C"	
Kinze Non-Vac *2 *1 *5	(2200 seeds/lb or more) Black Brush Type 60 Cell Seed Metering Plate		(2200 seeds/lb or less) Blue Brush Type 48 Cell Seed Metering Plate	
John Deere Vac Planters *3 *1 *5	Only one disc option – Vacuum setting at 8		Only one disc option – Vacuum setting at 9 (test and adjust accordingly) If feeding problems persist – Remove the elbow from the hose feeding the hopper	
John Deere ExactEmerge Meter *1 *8 Vacuum Level (in oz. water)	(3300-3100 seeds/lb) 8-10 (2900-2700 seeds/lb 14-16	(3100-2900 seeds/lb) 10-14 (2700-2500 seeds/lb) 16-18	(2500-2300 seeds/lb) 18-19	(2300-2100 seeds/lb) 19-21
Kinze Vac Planters *2 *1 *5	Use 60 cell plate – Singular setting of 5 – Vacuum setting at 10		Use 60 cell plate – Singular setting of 5 – Start vacuum setting at 10 (Test and adjust accordingly)	
Case IH Vac Planters *6 *1 *5	(2600-3500 seeds/lb) 193017A1 disc – Singulator setting at 8 – Vacuum at 15-17" (3500-4500 seeds/lb) 87420630 disc or comparable – Singulator setting at 8 – Vacuum at 15-17" (2500-3500 seeds/lb) 87698875 disc or comparable – Singulator setting at 8 – Vacuum at 15-17"		(2000-3500 seeds/lb) 87698875 disc or comparable – Singulator setting at 8 – Vacuum at 15-17"	
White Vac Planters *7 *1 *5	(3000-4500 seeds/lb) Use 7000722513 (120 cell) disc – Air pressure at 1-3" (2000-3500 seeds/lb) Use 852432 (120 cell) disc of 30" rows – Air pressure at 2-2.5" (2000-3500 seeds/lb) Use 852433 (60 cell) disc of 15" rows – Air pressure at 2-2.5"		(2000-3500 seeds/lb) Use 852432 (120 cell) disc for 30" rows – Air pressure at 2-2.5" (2000-3500 seeds/lb) Use 852433 (60 cell) disc for 15" rows – Air pressure at 2-2.5" (Test and adjust accordingly)	

***1** Consult the operator's manual for additional talc/graphite recommendations

***2** One TBSP of graphite per hopper for a standard 2 bu hopper and 1-1.5 lbs of graphite per 50 unit container

***3** For central-fill planters use a 1/2 rate of talc for untreated beans and a full rate (corn rate) of talc with treated beans

***4** Add 3/8 TBSP of graphite per hopper

***5** Adjust speed as directed in the operator's manual

***6** Consult the operator's manual for seed disc RPM recommendations

***7** Do not exceed 35 RPM on seed disc

***8** Some seed sizes, shapes, and planting speed and seeding rate require vacuum levels be adjusted slightly

Always check the operator's manual

Soybean Ratings and Characteristics

GLYPHOSATE HERBICIDE TOLERANCE															
Soybeans with glyphosate-tolerant gene	**Maturity**	**Soybean Cyst Nematode**	**Emergence**	**Standability**	**Shattering Score**	**Phytopthera (PRR)**	**Brown Stem Rot (BSR)**	**Sudden Death (SDS) Tolerance**	**Frogeye Leaf Spot Tolerance**	**White Mold**	**Iron Chlorosis**	**Canopy Width**	**Plant Height**	**Light Soils**	**Pubescence**
Power Plus® Brand 20B7™*	2.0	Peking	7	9	8	5	8	6	9	6	5	5	7	5	L. Tawny
Power Plus® Brand 24P4™*	2.4	Peking	9	8	7	6	7	6	9	5	6	6	7	6	L. Tawny
Hughes Brand 555	2.5	PI88788	9	9	9	6	7	6	NR	6	3	6	7	7	L. Tawny
Power Plus® Brand 25A5™*	2.5	PI88788	7	9	NR	5	9	5	7	6	6	6	7	8	L. Tawny
Power Plus® Brand 26Z5™*	2.6	PI88788	8	9	NR	5	9	5	7	7	6	6	8	8	L. Tawny
Power Plus® Brand 28H5™*	2.8	PI88788	8	8	8	7	5	6	9	5	5	8	6	7	Gray
Power Plus® Brand 28V2™*	2.8	PI88788	9	9	7	5	8	7	9	6	4	6	8	8	L. Tawny
Power Plus® Brand 31W7™*	3.1	PI88788	7	8	8	6	9	6	5	7	3	5	7	7	L. Tawny
Power Plus® Brand 32D5™*	3.2	PI88788	9	8	NR	7	6	6	7	5	5	8	6	5	L. Tawny
Power Plus® Brand 35C7™*	3.5	PI88788	8	8	8	6	9	7	4	5	5	8	7	9	L. Tawny
Power Plus® Brand 36J3™*	3.6	PI88788	9	9	8	7	6	7	6	5	4	7	7	7	L. Tawny
Power Plus® Brand 37S7™*	3.7	PI88788	8	8	8	6	9	8	5	7	3	7	7	8	L. Tawny
Power Plus® Brand 38K6™*	3.8	PI88788	9	8	NR	5	9	7	5	5	5	7	8	9	L. Tawny
Power Plus® Brand 39R5™*	3.9	PI88788	8	8	NR	6	7	6	9	5	5	8	7	8	Tawny
Power Plus® Brand 41M4™*	4.1	PI88788	10	9	8	7	7	7	5	4	4	7	6	7	L. Tawny
Power Plus® Brand 42V6™*	4.2	PI88788	9	9	9	7	6	7	7	5	4	7	8	8	L. Tawny
Power Plus® Brand 46A5™*	4.6	PI88788	8	9	9	6	6	7	7	NR	4	8	9	9	Tawny
ROUNDUP READY 2 XTEND®															
Power Plus® Brand 36A1X™*	3.6	PI88788	8	8	8	5	9	6	4	NR	5	7	7	7	Gray
GLUFOSINATE HERBICIDE TOLERANCE															
Soybeans with glufosinate-tolerant gene	**Maturity**	**Soybean Cyst Nematode**	**Emergence**	**Standability**	**Shattering Score**	**Phytopthera (PRR)**	**Brown Stem Rot (BSR)**	**Sudden Death (SDS) Tolerance**	**Frogeye Leaf Spot Tolerance**	**White Mold**	**Iron Chlorosis**	**Canopy Width**	**Plant Height**	**Light Soils**	**Pubescence**
Hughes Brand 236LL	2.3	PI88788	9	8	9	6	7	6	NR	6	8	7	7	7	L. Tawny
Hughes Brand 266LL	2.6	PI88788	9	8	9	6	8	7	NR	6	6	7	7	7	L. Tawny
Hughes Brand 285LL	2.8	PI88788	10	7	9	8	8	5	NR	7	7	7	8	8	Gray
Hoblit Brand 355LL	3.5	PI88788	10	9	9	8	8	7	7	7	8	8	7	8	L. Tawny
Hoblit Brand 384LL	3.8	PI88788	9	9	9	8	8	5	6	NR	7	8	7	7	L. Tawny
Hoblit Brand 405LL	4.0	PI88788	10	9	9	8	8	7	8	7	7	6	7	8	L. Tawny
Hoblit Brand 426LL	4.2	PI88788	10	9	9	8	8	8	8	7	NR	7	8	8	L. Tawny
Hoblit Brand 457LL	4.5	PI88788	10	9	9	8	8	8	6	NR	NR	7	7	8	L. Tawny

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

*Power Plus® brand seed is distributed by Burrus. Power Plus® is a registered trademark of Pioneer Hi-Bred.

Varieties with the Glyphosate Tolerant trait (including those designated by the letter "R" in the product number) contain genes that confer tolerance to glyphosate herbicides. Glyphosate herbicides will kill crops that are not tolerant to glyphosate.

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 2015 harvest and were the latest available at time of printing. Some scores may change after 2016 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.

Are there Chemicals to Avoid?

Group	Brand	ALS Sulfonylureas	Plant Growth Regulators	HPPD Inhibitors	Glyphosate	Glufosinate	PPO Inhibitors
Above/Below-Ground Insect Control	Power Plus® 1S26AMXT™*	▼	▼	●	●	●	▼
	Power Plus® 1G48AMXT™*	▼	▼	●	●	●	▼
	Power Plus® 2F91AMXT™*	■	▼	●	●	●	▼
	Power Plus® 2B77AMXT™*	▼	■	▼	●	●	●
	Power Plus® 2V56AMX™*	▼	■	●	●	●	NA*
	Power Plus® 3H85AMX™*	▼	■	●	●	●	▼
	Power Plus® 4J95AMX™*	■	▼	●	●	●	●
	Power Plus® 5C17AMXT™*	▼	▼	●	●	●	●
	Power Plus® 5K35AMX™*	■	▼	▼	●	●	▼
	Catalyst 6216 3111A	▼	▼	●	●	●	●
	Power Plus® 6L45AMT™*	■	▼	▼	●	●	●
	Burrus 6T54 3000GT	▼	●	▼	●	●	●
	Power Plus® 6F74AMX™*	▼	▼	●	●	●	NA*
	Power Plus® 6P75AMX™*	■	■	▼	●	●	●
	Power Plus® 7A18 Q™*	▼	▼	●	●	●	●
Above-Ground Insect Control	Hughes 9C24 3010A	▼	▼	▼	●	●	■
	Power Plus® 1G39AM™*	▼	▼	●	●	●	▼
	Power Plus® 2Y06AM™*	▼	●	▼	●	●	▼
	Power Plus® 2N82AM™*	▼	▼	●	●	●	NA*
	Power Plus® 4J93AM™*	■	▼	●	●	●	●
	Power Plus® 5K33AM™*	■	▼	▼	●	●	▼
	Catalyst 5009 3220	▼	▼	▼	●	■	NA*
	Power Plus® 6C41 S™*	▼	▼	●	●	●	●
	Power Plus® 6P73AM™*	■	■	▼	●	●	●
	Power Plus® 6N83AM™*	▼	▼	●	●	●	NA*
	Catalyst 7577 3010	▼	▼	▼	●	●	■
	Power Plus® 7H23 S™*	▼	■	●	●	●	NA*
Glyphosate-Resistant	Hughes 2428 GTA	▼	▼	●	●	■	■
	Power Plus® 2R63 R™*	▼	■	●	●	■	▼
	Hughes 5124 GT	▼	▼	●	●	■	▼
	Power Plus® 4J99 R™*	■	▼	●	●	■	●
	Burrus 6T51 GT	▼	●	▼	●	■	●
	Power Plus® 6F71 R™*	▼	▼	●	●	■	NA*
Non-GM	Hughes 3442	■	▼	●	■	■	NA*
	Power Plus® 2R67™*	▼	■	●	■	■	NA*
	Power Plus® 4J90™*	■	▼	●	■	■	●
	Power Plus® 5N48™*	▼	●	●	■	■	●
	Power Plus® 6C40™*	▼	●	●	■	■	●
	Burrus 6Q60	▼	▼	●	■	■	▼
	Power Plus® 7H20™*	▼	■	●	■	■	NA*

GROUP NUMBER - TRADENAME

2 - Accent®
2 - Resolve Q®
2 - Steadfast®
2 - Permit®
2 - Basis®
4 - 2,4-D
4 - Banvel®
4, 19 - Status®
4 - Clarity®
4 - Distinct®
4, 5 - Marksman®
4 - Stinger®
27 - Balance Flexx®
27 - Callisto®
27 - Impact®
27 - Laudis®
9 - Roundup®
9 - Touchdown®
9 - Generic glyphosate
10 - Liberty®
14 - Aim®
14, 15 - Verdict®
14 - Sharpen®

HERBICIDE CLASSIFICATION BY GROUP NUMBER - SITE OF ACTION

1 - ACC-ase (lipid synthesis)
2 - ALS (amino acid synthesis)
3 - Tubulin (cell division)
4 - Auxin binding site (synthetix auxin)
5 - D1 Protein (Photosystem II inhibition)
6, 7 - D1 Protein (Photosystem II inhibition)
9 - EPSPS (shikimic acid pathway inhibition)
10 - Glutamine synthetase (photosynthesis inhibition)
13 - DPX synthase (carotene synthesis)
14 - PPO (chlorophyll synthesis)
15 - Unknown (LC fatty acid synthesis)
19 - Unknown (Auxin transport)
22 - Unknown (Photosystem I inhibition)
27 - HPPD (carotene synthesis)

KEY

● Use
▼ Use with caution
■ Do not use

*Consult with your Account Manager when choosing a herbicide program.

PROTECTION OF INTELLECTUAL PROPERTY: PVPA AND PATENTS

"Buyer represents he is purchasing the Seed solely for purposes of producing a grain crop, and the Seed, and any product from the Seed, shall not be resold or used as Seed."

The purchase of this seed does not, and shall not be construed to, transfer ownership of any Plant Variety Protection Act rights, patent rights and other intellectual property rights associated with a Soybean Product. Burrus and Hughes shall take all measure requested by our suppliers (e.g., labeling, requiring contractual agreement with its customers) to protect the PVP and/or intellectual property rights relating to a Soybean Product.

Burrus and Hughes shall print on all bags, tags, brochures and order forms for each Soybean Product which is subject to protection under the Plant Variety Protection Act and/or Patent Act, as applicable: Soybean Product for which a PVP certificate has been issued or for which such 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.

"By contract, use or sale as seed of the product derived from this seed is prohibited."

Always follow grain marketing, stewardship practices and pesticide label directions. Varieties that are glyphosate tolerant contain genes that confer tolerance to glyphosate herbicides. Glyphosate herbicides will kill crops that are not tolerant to glyphosate.

ABOVE / BELOW-GROUND INSECT CONTROL

1S26AMXT™*
Brand

101 Day Maturity

POWER PLUS®

AcreMax® ABOVE/BELOW XTreme

- Very high yield potential
- Very good grain quality
- Good ear size and flex
- Fungicide candidate in high disease years
- Silage utility

Rewards aggressive management.

Corn/Corn	Drought Tolerance
Early Vigor	Stalk Strength
Population (group) A C B	Root Strength

Not Advised · Suitable · Good · Excellent

1 2 3 4 5 6 7 8 9 10

GLYPHOSATE (Roundup Ready® CORN 2) · Liberty® (LIBERTY LINK®)

1

NEW

1G48AMXT™*
Brand

102 Day Maturity

POWER PLUS®

AcreMax® ABOVE/BELOW XTreme

- Versatile high yielder
- Strong late season stalks
- Great health package for zone
- Strong roots
- Moderate stature and ear height

Exciting new genetics.

Corn/Corn	Drought Tolerance
Early Vigor	Stalk Strength
Population (group) C A B	Root Strength

CORN ON CORN

Not Advised · Suitable · Good · Excellent

1 2 3 4 5 6 7 8 9 10

GLYPHOSATE (Roundup Ready® CORN 2) · Liberty® (LIBERTY LINK®)

2

2F91AMXT™*
Brand

103 Day Maturity

POWER PLUS®

AcreMax® ABOVE/BELOW XTreme

- Good health and agronomic package
- Fixed ears with good test weight
- Very early flowering
- High pops needed for high yields
- Strong emergence

Dependable early performance.

Corn/Corn	Drought Tolerance
Early Vigor	Stalk Strength
Population (group) C B A	Root Strength

Not Advised · Suitable · Good · Excellent

1 2 3 4 5 6 7 8 9 10

GLYPHOSATE (Roundup Ready® CORN 2) · Liberty® (LIBERTY LINK®)

3

NEW

2B77AMXT™*
Brand

105 Day Maturity

POWER PLUS®

AcreMax® ABOVE/BELOW XTreme

- Mid-maturity high yielder
- Shorter stature
- Excellent quality grain
- Outstanding late season stalks
- Very good standability

The new mid-maturity leader.

Corn/Corn	Drought Tolerance
Early Vigor	Stalk Strength
Population (group) C A B	Root Strength

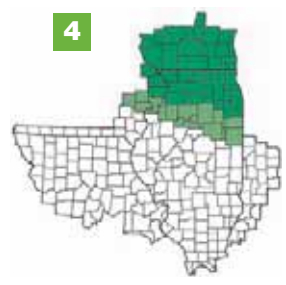
CORN ON CORN

Not Advised · Suitable · Good · Excellent

1 2 3 4 5 6 7 8 9 10

GLYPHOSATE (Roundup Ready® CORN 2) · Liberty® (LIBERTY LINK®)

4



2V56AMX™*
Brand

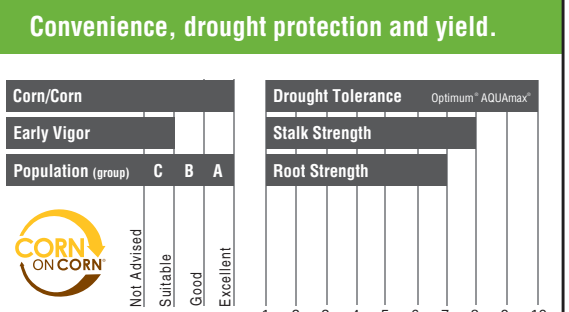
105 Day Maturity

POWER PLUS®

AcreMax® Xtra ABOVE/BELOW · AQUAmax®

Convenience, drought protection and yield.

- High test weight grain
- Good top end yield potential leads to grower's smiles
- No refuge needed
- Will benefit from fungicide applications under GLS pressure



GLYPHOSATE · Liberty® LIBERTY LINK

5

3H85AMX™*
Brand

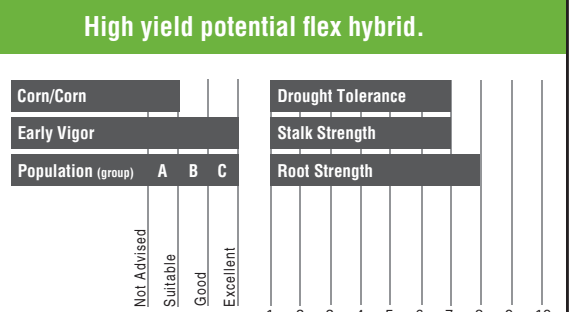
107 Day Maturity

POWER PLUS®

AcreMax® Xtra ABOVE/BELOW

High yield potential flex hybrid.

- Tremendous top end yield potential
- Compliments Power Plus® 2V56 AMX™*
- Great roots
- Fits best in northern IL and southern WI
- Performs well at moderate pops



GLYPHOSATE · Liberty® LIBERTY LINK

6

4J95AMX™*
Brand

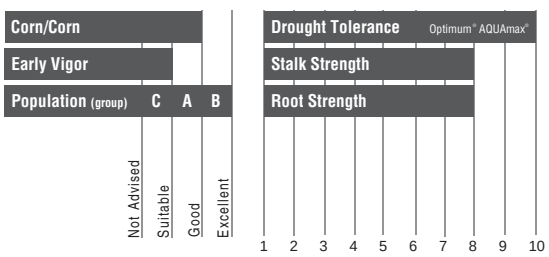
109 Day Maturity

POWER PLUS®

AcreMax® Xtra ABOVE/BELOW · AQUAmax®

The new standard for yield with no refuge needed.

- Will adapt very well across geography and soil types
- Good agronomics and responds favorably to fungicide management
- Optimum® AQUAmax® hybrid with great drought tolerance



GLYPHOSATE · Liberty® LIBERTY LINK

7

5C17AMXT™*
Brand

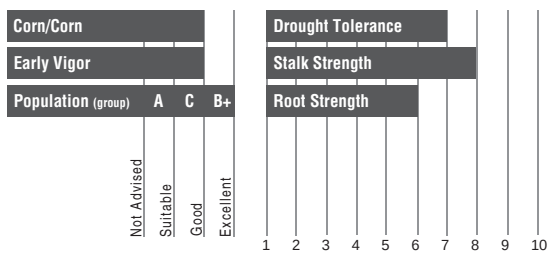
110 Day Maturity

POWER PLUS®

AcreMax® XTreme ABOVE/BELOW

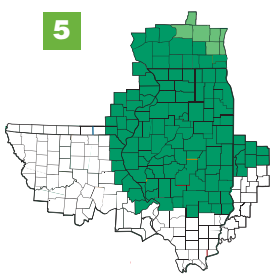
A new meaning for top end yield potential.

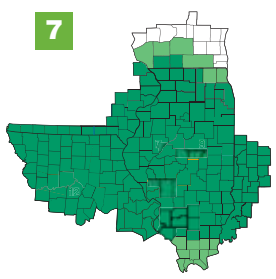
- Enjoy its hard, heavy test weight grain
- Two modes of action for both above and below ground insect control
- Responds to fungicides
- Husks that flair and thrives on prairie soils

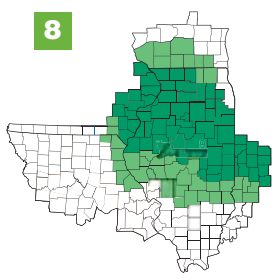


GLYPHOSATE · Liberty® LIBERTY LINK

8







ABOVE / BELOW-GROUND INSECT CONTROL

NEW

5K35AMX™*
Brand

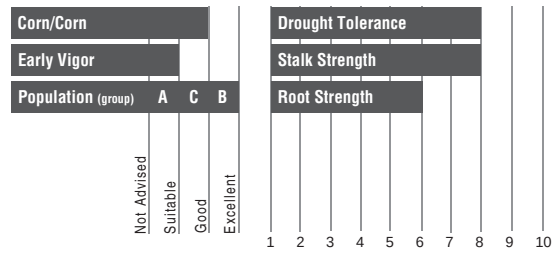
110 Day Maturity

POWER PLUS®

Optimum AcreMax® ABOVE/BELOW Xtra

Incredible yield with guts to perform on tougher soils.

- High yield potential
- Early maturity for zones 7 & 8
- Versatility across soil types
- Integrated refuge product
- Good southern movement



GLYPHOSATE Roundup Ready® CORN 2

Liberty® LIBERTY LINK®

9

NEW

6216 3111A
Brand

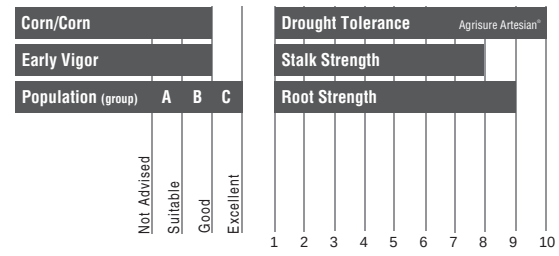
111 Day Maturity

Catalyst®

Agrisure Viptera® 3111A

Versatility, yield, and great fall intactness.

- Agrisure Artesian® water optimization
- Strong stalks and roots
- Good stay green ratings
- Versatility across soil types



GLYPHOSATE

Liberty® LIBERTY LINK®

10

6L45AMT™*
Brand

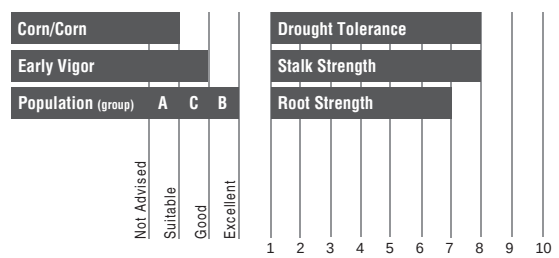
112 Day Maturity

POWER PLUS®

Optimum AcreMax® TRIsect

Corn borer pyramid and one CRW event.

- Add granular insecticide for a dual mode of action on CRW
- Lots of top end yield potential at medium plant densities
- Very good stalks and roots
- Fast dry down at this maturity
- Best following beans
- Responds to fungicides



GLYPHOSATE Roundup Ready® CORN 2

Liberty® LIBERTY LINK®

11

6T54 3000GT
Brand

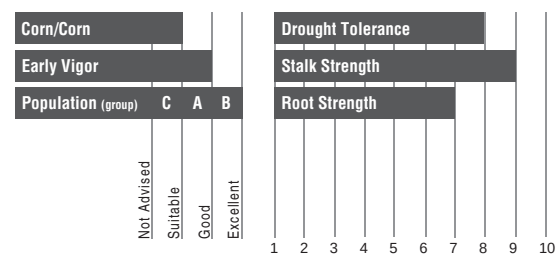
113 Day Maturity

Think BURRUS®

Agrisure 3000GT

It will fool you with more corn than it looks.

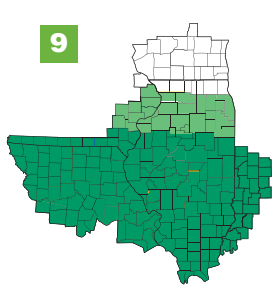
- Great early planting choice because of excellent emergence ratings
- Use soil insecticide or add Poncho® 1250 VOTiVO® for second mode of rootworm control
- Excellent silage option north
- Avoid wet feet
- Responds well to sidedressing



GLYPHOSATE

Liberty® LIBERTY LINK®

12



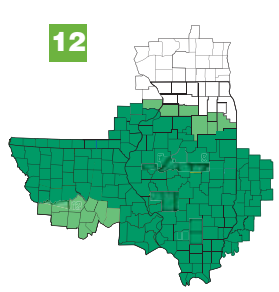


Photo: David Nienhiser, Chapin, IL

6F74AMX™*
Brand

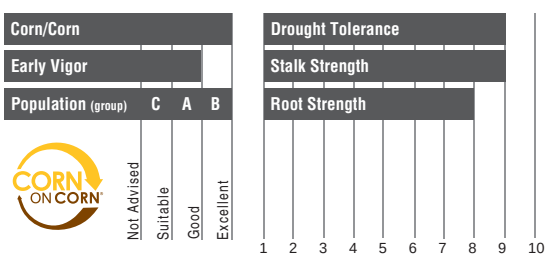
POWER PLUS

113 Day Maturity

Optimum AcreMax Xtra (ABOVE/BELOW)

- No separate refuge needed in the corn belt
- Good drought tolerance as it prefers well drained soils
- Very good leaf disease and ear rot tolerances
- Huge root system

Strongest performance in tough situations.



GLYPHOSATE — Roundup Ready Corn 2

Liberty® — LIBERTY LINK

13

6P75AMX™*
Brand

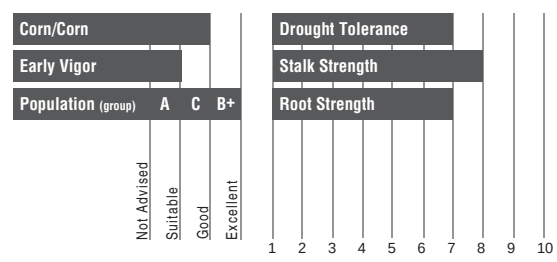
POWER PLUS

113 Day Maturity

Optimum AcreMax Xtra (ABOVE/BELOW)

- Performs best on high productivity soils
- Responds to fungicides
- Tall plants with high ear placement
- Great in zones 6, 7, and 8

The yield dynamo.



GLYPHOSATE — Roundup Ready Corn 2

Liberty® — LIBERTY LINK

14

7A18 Q™*
Brand

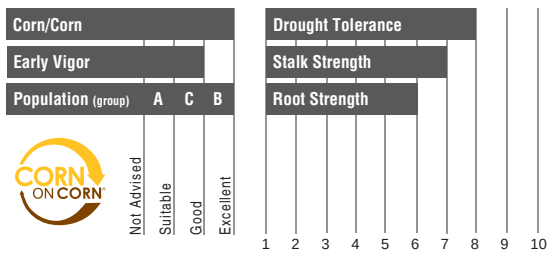
POWER PLUS

114 Day Maturity

HERCULEX® XTRA Insect Protection HX™

- Great choice for the corn rootworm areas
- Exceptional drought tolerance
- Nice stay green with good stalks and roots

Off the chart performance.



GLYPHOSATE — Roundup Ready Corn 2

Liberty® — LIBERTY LINK

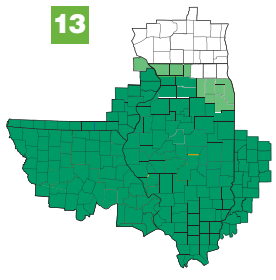
15

ON FARM ASSESSMENTS

To assess compliance, Burrus will use a third party to conduct IRM compliance assessments for a randomly selected set of customers who purchased Bt hybrids as well as Genuity® Roundup Ready 2 Yield® soybeans.

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.

13



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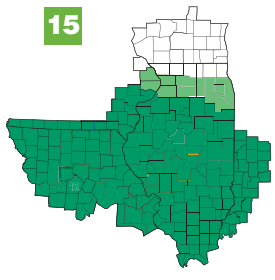
15



NEW

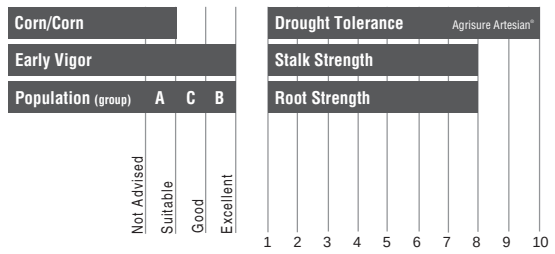
9C24 3010A
Brand

95 Day Maturity

Agrisure Artesian® 3010A

- High yielding, ultra-early platform
- Agrisure Artesian® drought technology
- Ear flex allows moderate populations
- Medium tall with dual-purpose utility

New take on proven genetics.



GLYPHOSATE | Liberty® LIBERTY LINK

16

NEW

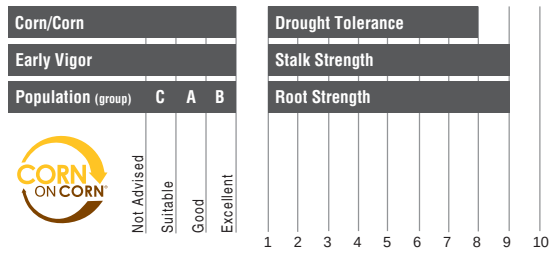
1G39AM™*
Brand

101 Day Maturity

Optimum AcreMax ABOVE

- Versatile high yielder
- Strong late season stalk
- Great health package for zone where this maturity is used
- Strong roots and stalk
- Moderate stature and ear height

Exciting new genetics.



GLYPHOSATE | Liberty® LIBERTY LINK

17

NEW

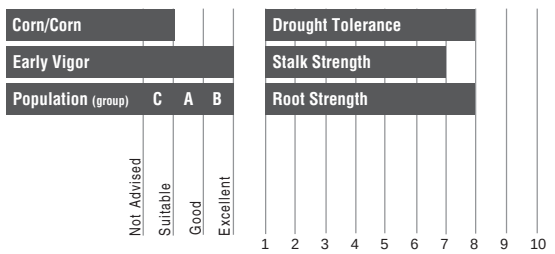
2Y06AM™*
Brand

104 Day Maturity

Optimum AcreMax ABOVE

- High yielder
- Fast dry down
- Works across a range of soils
- Corn borer protection with integrated refuge

The real deal for the stateline area.



GLYPHOSATE | Liberty® LIBERTY LINK

18

16

17

18

2N82AM™*
Brand

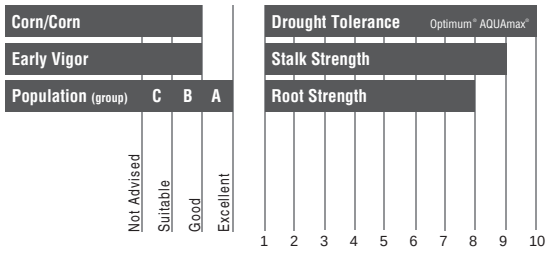
POWER PLUS

105 Day Maturity

optimum AcreMax ABOVE optimum AQUAmax

The ideal early product for light soils.

- No additional (or separate) refuge required in the corn belt
- Optimum® AQUAmax® hybrid with great drought tolerance
- The ideal early season product for light soils
- Plant it early



GLYPHOSATE Liberty® LIBERTY LINK

19

4J93AM™*
Brand

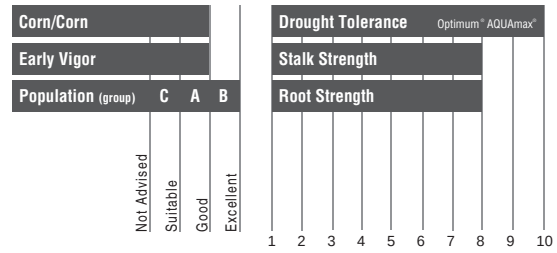
POWER PLUS

109 Day Maturity

optimum AcreMax ABOVE optimum AQUAmax

Setting a new performance standard at 109 days.

- Short, low ear with excellent ear retention
- Will work across geography and soil types
- Optimum® AQUAmax® hybrid with great drought tolerance
- No refuge needed



GLYPHOSATE Liberty® LIBERTY LINK

20

NEW

5K33AM™*
Brand

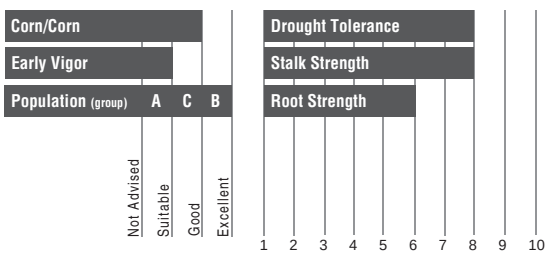
POWER PLUS

110 Day Maturity

optimum AcreMax ABOVE

Raw yield power with toughness for mixed soils.

- High yield potential
- Early RM for zones 7 & 8
- Versatility across soil types
- Integrated refuge product
- Good southern movement



GLYPHOSATE Liberty® LIBERTY LINK

21

5009 3220
Brand

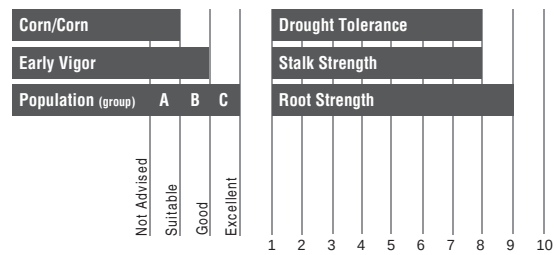
Catalyst

110 Day Maturity

Agrisure Viptera 3220 E-Z Refuge

Old reliable.

- Position it like you do Power Plus® 6F74AMX™*
- It is for the area outside of the corn rootworm variant
- Stands extremely well, leave it for late harvest
- Great dry down scores
- Handles lighter soils like a dream



GLYPHOSATE

22

6C41 S™*
Brand

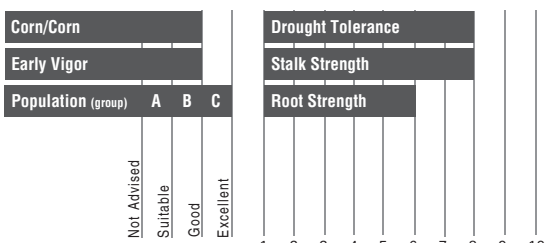
POWER PLUS

112 Day Maturity

HERCULEX I HX

Hard endo premium candidate.

- Taller plant type with excellent stalks
- Designed for southern Illinois and Missouri
- Heavy test weight grain
- Squeezes extra grain out of a great year



GLYPHOSATE Liberty® LIBERTY LINK

23

NEW

6P73AM™*
Brand

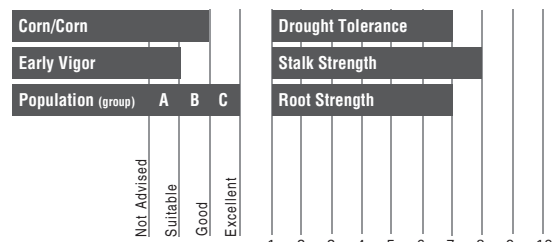
POWER PLUS

113 Day Maturity

optimum AcreMax ABOVE

Proven top end yields with great agronomics.

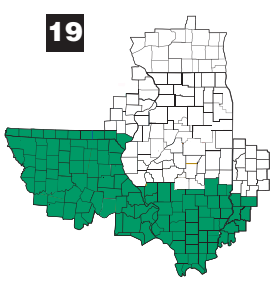
- Performs best on moderate to high productivity soils
- Yield leader
- Good disease package
- Good dry down



GLYPHOSATE Liberty® LIBERTY LINK

24

19



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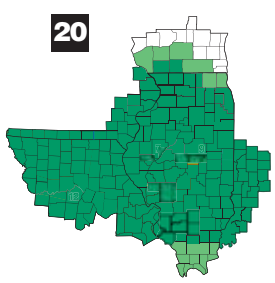

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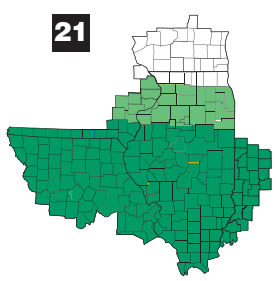
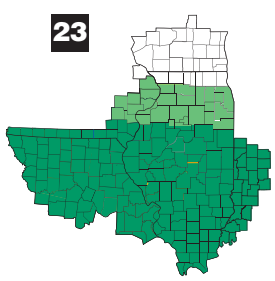


22

23



24

6N83AM™*
Brand

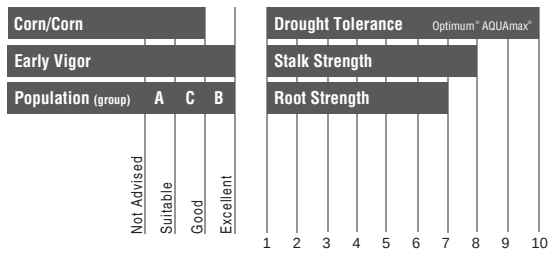
113 Day Maturity

POWER PLUS

AcreMax ABOVE · AQUAmax

- Girthy big ears
- Strong stalks with reduced risk of greensnap
- Short plant with a low ear
- Responds to fungicides

For tough soils – Optimum® AQUAmax® rated.



GLYPHOSATE · Liberty® LIBERTY LINK

25

7577 3010
Brand

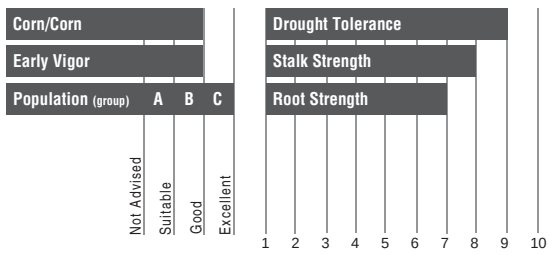
114 Day Maturity

Catalyst

Agrisure3010

- Ears out big, plant it thin and win
- Shines in moderate and drought stress environments
- Great stalks and roots
- Beautiful appearance

Provides guts for southern IL and MO.



GLYPHOSATE · Liberty® LIBERTY LINK

26

7H23 S™*
Brand

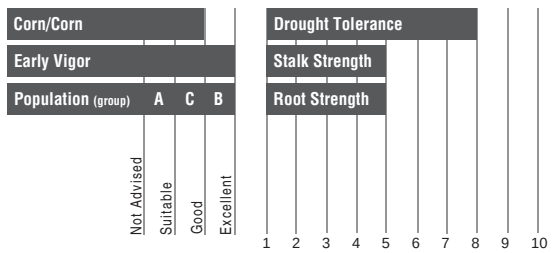
114 Day Maturity

POWER PLUS

HERCULEX I HX

- Great drought tolerance allows for wide adaptability
- Excellent ear retention helps extend the harvest window
- Silks early for maturity
- Responds well to sidedressing

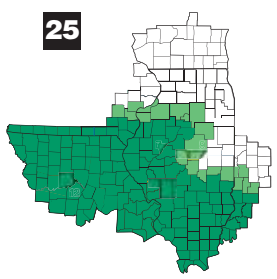
Might have the most raw yield potential of any product.



GLYPHOSATE · Liberty® LIBERTY LINK

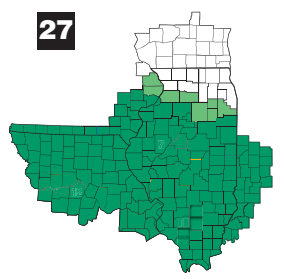
27

25



26

27



2428 GTA
Brand

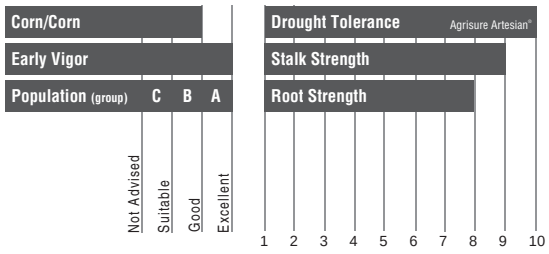
100 Day Maturity

Hughes

Agrisure Artesian GTA

- Excellent performance across soil types
- Very good agronomics in early season product
- Artesian® water optimization trait
- Dual purpose hybrid

Early and tough.



GLYPHOSATE

28

2R63 R™*
Brand

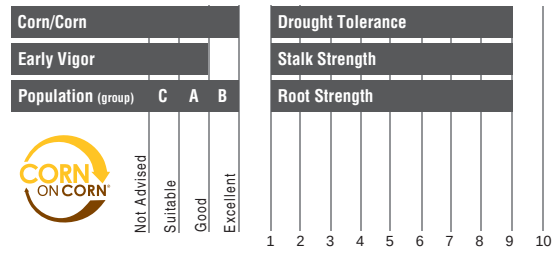
104 Day Maturity

POWER PLUS

Roundup Ready CORN 2

- Strong across soil types
- Excellent stalk and root package
- Very good against Goss's Wilt and Northern leaf blight

Developed for the stateline area.



GLYPHOSATE

29

5124 GT
Brand

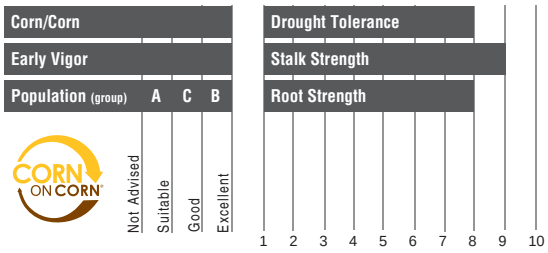
107 Day Maturity

Hughes

AgrisureGT

- Nice roots to anchor the plant
- Gain incremental yield improvement
- Very good ear-flex supports medium populations

Fits all operations.



GLYPHOSATE

30

4J99 R™*
Brand

109 Day Maturity

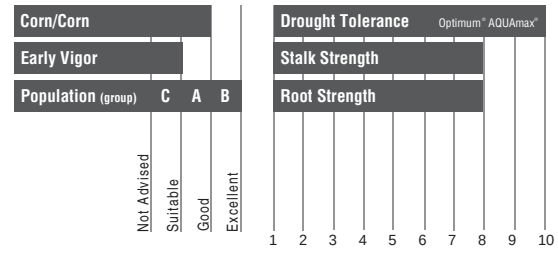
POWER PLUS

Optimum AQUAmax

Roundup Ready CORN 2

- Works across all soils
- High yield potential but won't look it, as the cob is small
- The kernels are very deep
- Optimum® AQUAmax® technology protects against drought damage
- It can benefit from fungicide appliction

A Roundup Ready® refuge option.



GLYPHOSATE

31

6T51 GT
Brand

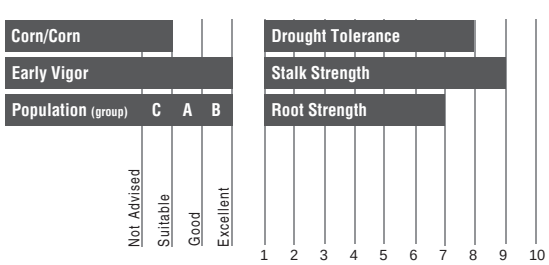
113 Day Maturity

Think BURRUS

AgrisureGT

- Very high top end yield potential
- Girthy ear with deep kernels
- Great on irrigated sand
- Fits well across soils and environments
- Same family as Burrus 6T54 3000GT

High performance, proven refuge product.



GLYPHOSATE

32

6F71 R™*
Brand

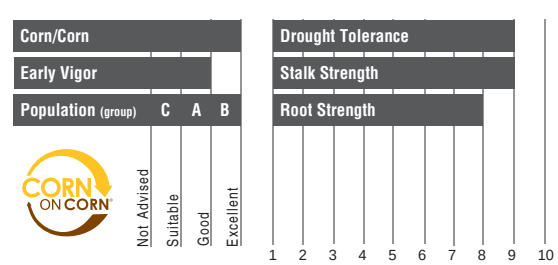
113 Day Maturity

POWER PLUS

Roundup Ready CORN 2

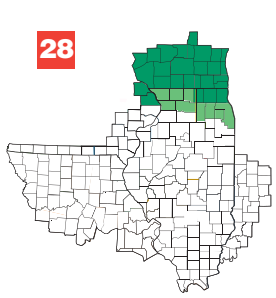
- Excellent stalks and very good roots
- Good drought tolerance
- Superb refuge choice
- Huge root system

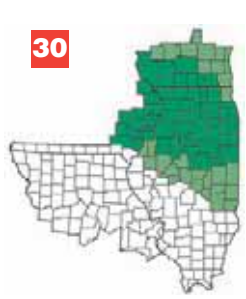
Plant it with confidence.

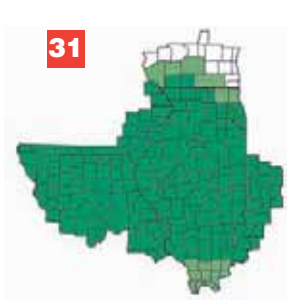


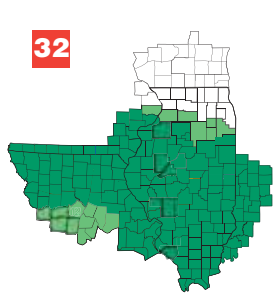
GLYPHOSATE

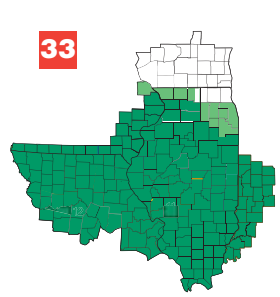
33











CONVENTIONAL

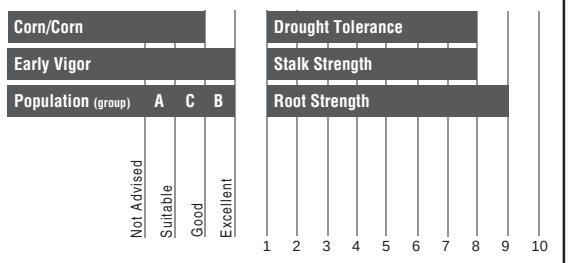
3442
Brand

102 Day Maturity

conv

- Good health package
- Not recommended for drought-prone soil
- Very good stalks and roots
- Medium plant size adds stability

High yield with non-GM freedom.



CONVENTIONAL HERBICIDES ONLY

34

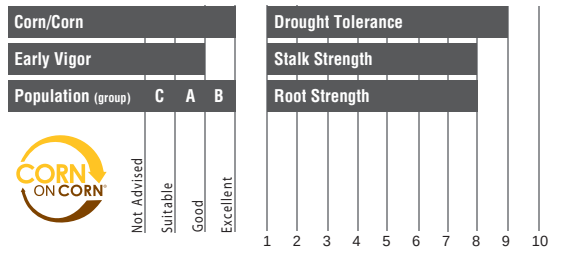
2R67™*
Brand

105 Day Maturity

conv

- Versatile high yielder
- Excellent disease package
- Great roots and stalks

Excellent choice for the stateline area.



CONVENTIONAL HERBICIDES ONLY

35

> PLANT NAKED. MANY SEED COMPANIES THAT DEVELOP TRAITS PUSH TO SELL HIGH-DOLLAR SEED. WE SELL WHAT WORKS BEST FOR EACH GROWER.

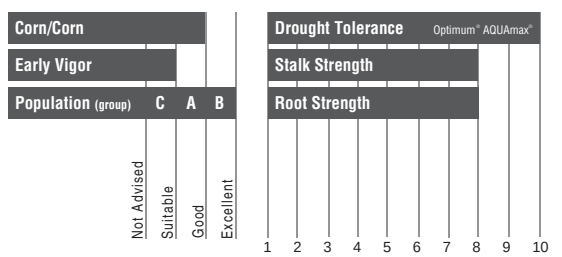
4J90™*
Brand

109 Day Maturity

optimum AQUAmax® conv

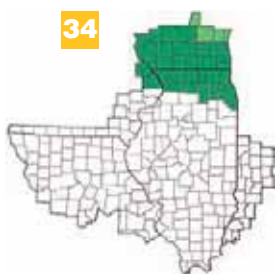
- High yield potential with dry grain
- It yields more than it looks
- The kernels are very deep
- Deep kernels sit on small cobs
- Will respond to fungicide application

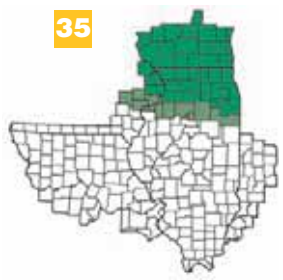
Our first conventional Optimum® AQUAmax® product.



CONVENTIONAL HERBICIDES ONLY

36





5N48™* Brand

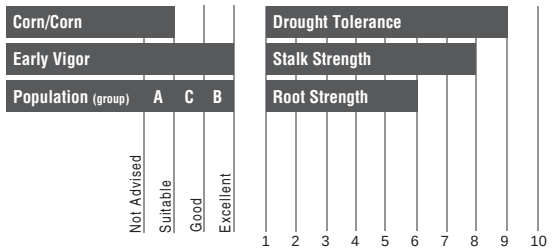
110S/108N Day Maturity

POWER PLUS®

conv

Super yield potential, fast drying.

- Good stalks
- Excels under higher management practices like fungicide applications
- Avoid corn after corn and dryland sand



CONVENTIONAL HERBICIDES ONLY

37

6C40™* Brand

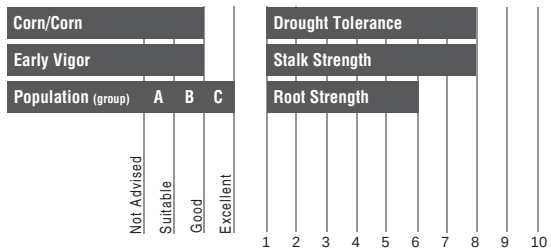
112 Day Maturity

POWER PLUS®

conv

Hard endo premium candidate.

- Marked by its high end potential yield response and consistency
- Taller plant type with excellent stalks
- Heavy test weight grain is the foundation
- Does not respond to higher density



CONVENTIONAL HERBICIDES ONLY

38

6Q60 Brand

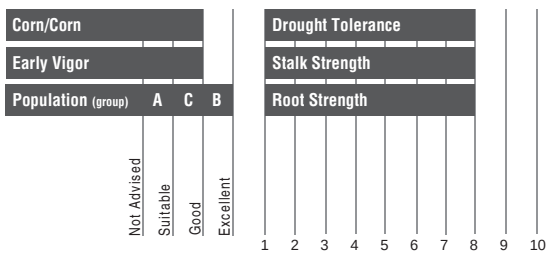
113 Day Maturity

Think BURRUS®

conv

Wide adaptation on all soils.

- Cranks out big yield potential on the good soils
- It has the guts to perform on light and varied soils
- Solid stalks
- Good root ratings
- Mid population will optimize its performance



CONVENTIONAL HERBICIDES ONLY

39

7H20™* Brand

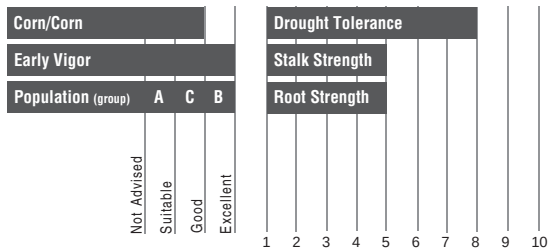
114 Day Maturity

POWER PLUS®

conv

Exceptional yield potential.

- Same genetics as Power Plus® 7H23 S™*
- Designed for central & southern IL and MO
- Works well across soils and various yield environments
- Great on irrigated sand



CONVENTIONAL HERBICIDES ONLY

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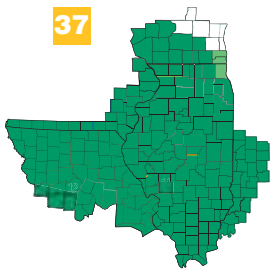
37



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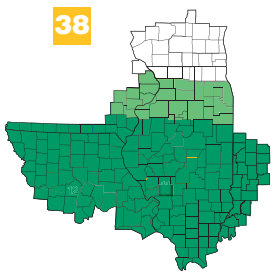

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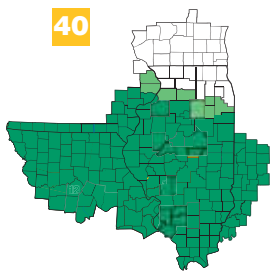


“ OUR SEED GETS THE BEST TREATMENT.

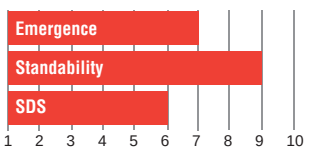
GLYPHOSATE-TOLERANT SOYBEANS

NEW

20B7™* Brand — Maturity 2.0

POWER PLUS Glyphosate Tolerant

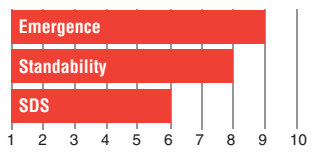
- Yield potential is high
- Peking source of SCN resistance
- Well-rounded disease package
- Great harvest standability
- Very good against brown stem rot
- Widely adapted line



24P4™* Brand — Maturity 2.4

POWER PLUS Glyphosate Tolerant

- Outstanding Peking SCN resistance
- Good Phytophthora resistance and field tolerance
- Exceptional emergence and standability
- Above average plant height and canopy
- Excellent frogeye package with reduced shattering potential
- Good broad disease package

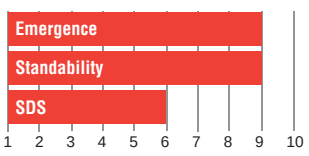


555 Brand — Maturity 2.5

Hughes Glyphosate Tolerant

- Very showy appearance
- Tremendous performance
- Cyst resistance is very good
- Excellent agronomics
- Best choice for stress-prone areas
- Plant in narrow rows
- Available with PowerShield® SDS treatment in individual units and EZ load boxes

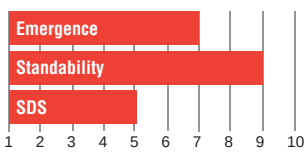
PowerShield SDS



25A5™* Brand — Maturity 2.5

POWER PLUS Glyphosate Tolerant

- Mid-season workhorse
- Versatile 2.5 line
- Widely adapted
- Medium plant type with good branching
- Consider PowerShield® SDS for fields with history of severe disease
- High tolerance to brown stem rot

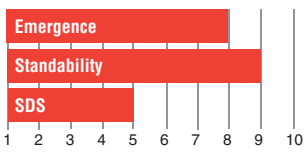


26Z5™* Brand — Maturity 2.6

POWER PLUS Glyphosate Tolerant

- Great all-around performance potential
- Plant in all environments
- Good white mold rating
- Consider ILeVO® treatment for enhanced SDS tolerance
- Brown stem rot tolerance is high
- Tall plant type handles light soils
- Available with PowerShield® SDS treatment in individual units and EZ load boxes

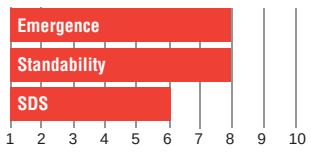
PowerShield SDS



28H5™* Brand — Maturity 2.8

POWER PLUS Glyphosate Tolerant

- Game changing yield potential in Group 2
- Works well on better soils
- Compact plants with wide canopy
- Excellent shattering and frogeye scores
- Great emergence and standablility ratings
- Good Phytophthora multi-race scores



28V2™* Brand — Maturity 2.8

POWER PLUS Glyphosate Tolerant

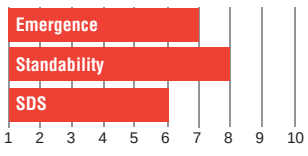
- “Good as gold!”
- Tremendous yield punch with above average plant height
- Very good SCN races 3 and 14 resistance
- Multi-race Phytophthora resistance (Rps1k)
- Average charcoal rot ratings
- Outstanding brown stem rot ratings
- Above average tolerance to aphids
- Excellent harvest standability

NEW

31W7™* Brand — Maturity 3.1

POWER PLUS Glyphosate Tolerant

- Good yield potential
- Will handle the tougher soils
- Excellent white mold tolerance
- Great brown stem rot tolerance
- SCN race 3 and 14 resistance



32D5™* Brand

POWER PLUS Glyphosate Tolerant

Maturity 3.2

- Durable bean, well suited for moderate to highly productive soils
- Excellent emergence, great standability
- Good frogeye protection
- Great SCN race 3 resistance (PI88788)
- Broad disease package

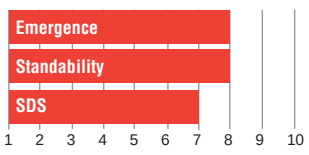
NEW

35C7™* Brand

POWER PLUS Glyphosate Tolerant

Maturity 3.5

- Good across all soil types
- Consistent yields, especially on highly productive soils
- Outstanding brown stem rot score
- Excellent standability, especially on highly productive soils
- Good emergence scores



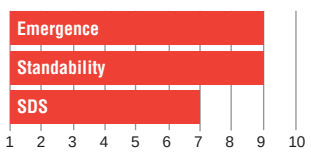
36J3™* Brand

POWER PLUS Glyphosate Tolerant

Maturity 3.6

- Landlady eye appeal
- Very good SCN resistance
- Ultra high yield potential on all soil types
- Good Phytophthora and SDS resistance
- Works on all environments
- A new leader for this maturity
- Available with PowerShield® SDS treatment in individual units and EZ load boxes

PowerShield SDS



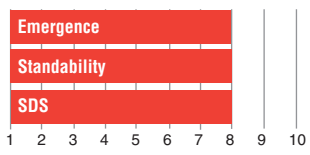
NEW

37S7™* Brand

POWER PLUS Glyphosate Tolerant

Maturity 3.7

- Consistent high yields across all soil types
- Excellent SDS scores
- Great standability on highly productive soils
- Consistently good yields on highly productive soils
- Good SCN race 3 and 14 resistance

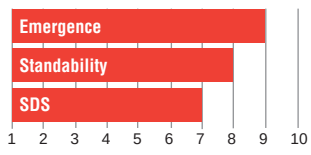


38K6™* Brand

POWER PLUS Glyphosate Tolerant

Maturity 3.8

- Prefers better drained soils
- Yield, yield, yield potential
- A Missouri bean
- Grows off rapidly after quick emergence
- 5 bushels better than Power Plus® 38D2™*
- Very good SDS tolerance

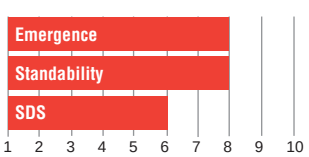


39R5™* Brand

POWER PLUS Glyphosate Tolerant

Maturity 3.9

- Expect a yellow flash
- Exceptional yield potential across all yield environments
- Incredible frogeye scores
- If you struggled with stem canker in the past, this bean is for you!
- Good downy mildew tolerance
- Great emergence and good standability

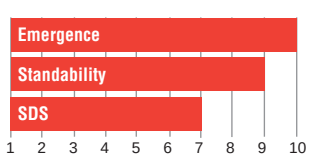


41M4™* Brand

POWER PLUS Glyphosate Tolerant

Maturity 4.1

- Really strong field emergence scores
- Great harvest standability
- Great SCN resistance with PI88788
- Really good Phytophthora tolerance
- Very good tolerance to SDS
- Performs best on better soil types/higher yielding environments
- A possible “kink in the armor” with frogeye leaf spot

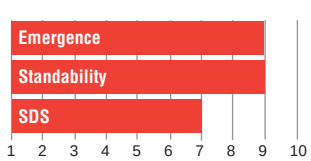


42V6™* Brand

POWER PLUS Glyphosate Tolerant

Maturity 4.2

- Good defensive traits across all soils
- Specifically good on Phytophthora, SCN, and stem canker (frogeye)
- Great yield potential
- Low shattering
- Very good standability
- Fast emergence

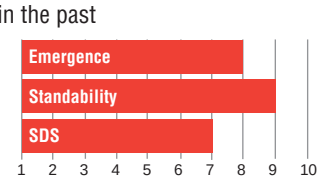


46A5™* Brand

POWER PLUS Glyphosate Tolerant

Maturity 4.6

- Pummels the competition with remarkable yield potential
- Great on low yield environments
- Great in high yield situations, too
- May yellow flash when sprayed with Roundup®
- Tall with exceptionally wide canopy for early row closure
- Stands well and holds shattering back
- A great bean if you fought stem canker in the past



POWER PLUS® BRAND SOYBEANS WITH ROUNDUP READY 2 XTEND® TECHNOLOGY

ROUNDUP READY 2 XTEND® SOYBEAN SYSTEM

Power Plus® brand soybeans with Roundup Ready 2 Xtend® technology will be the industry's first soybean with tolerance to both dicamba and glyphosate, pending regulatory approvals. We plan to offer a new Roundup Ready 2 Xtend technology for 2017, available through the Power Plus® brand products. Growers can experience the new weed control option by planting Power Plus® 36A1X™. This system will handle those hard to control weed species resistant to glyphosate herbicide and is built on the high yield potential of Genuity® Roundup Ready 2 Yield® soybean technology. Because labels are not yet published, buffer zones as well as other guidelines are not yet known. The new formulation of VaporGrip™ technology will be much improved over the old Clarity® (dicamba) herbicides.

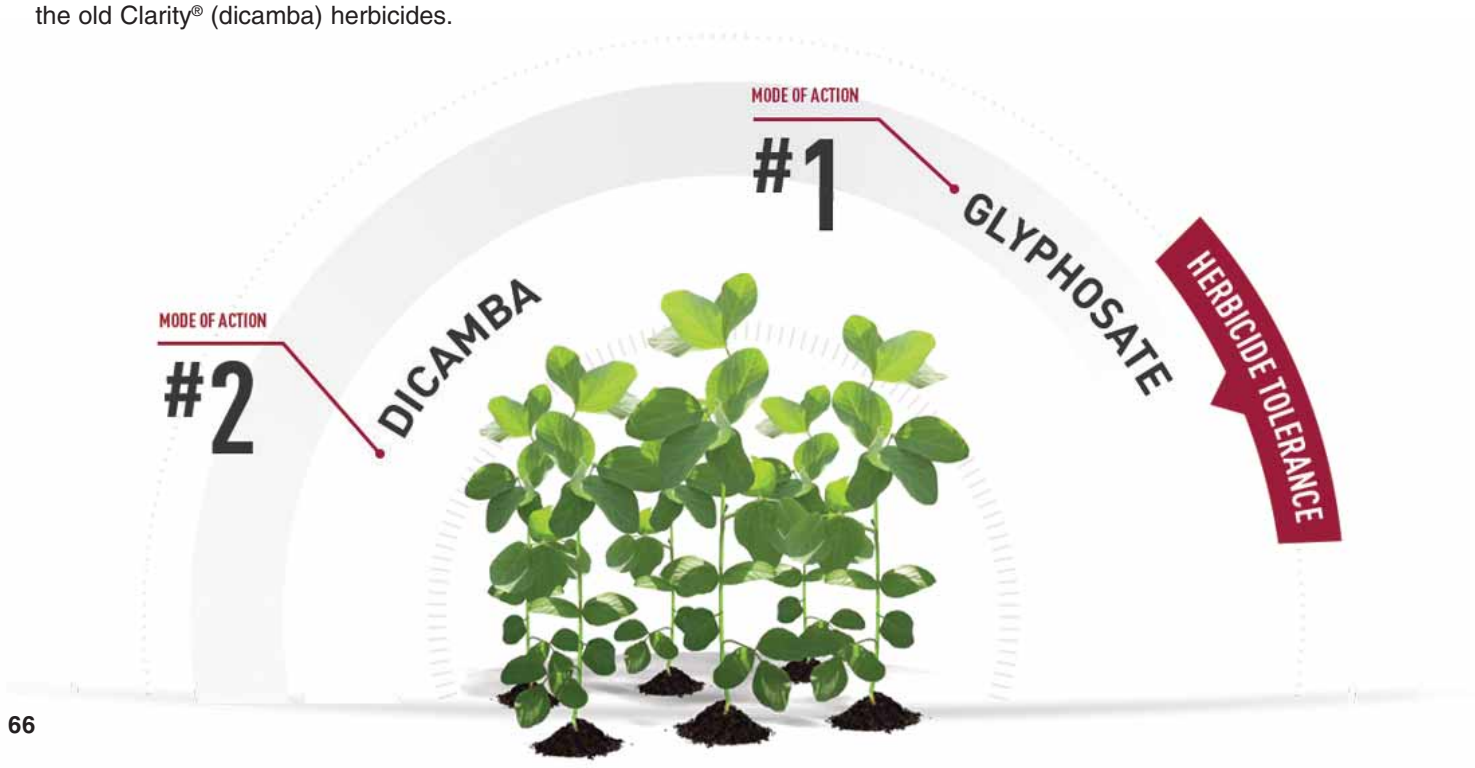
As of this printing no dicamba herbicide product has been approved for commercial in-crop use with soybeans with Roundup Ready 2 Xtend® technology. DO NOT APPLY DICAMBA HERBICIDE IN-CROP TO SOYBEANS WITH Roundup Ready 2 Xtend® technology unless you use a dicamba herbicide product that is specifically labeled for that use in the location where you intend to make the application. While no in-crop use of dicamba is currently approved, some dicamba products may be labeled for weed control prior to planting a crop and subject to minimum plant back restrictions. IT IS A VIOLATION OF FEDERAL AND STATE LAW TO MAKE AN IN-CROP APPLICATION OF ANY DICAMBA HERBICIDE PRODUCT ON SOYBEANS WITH Roundup Ready 2 Xtend® technology, OR ANY OTHER PESTICIDE APPLICATION, UNLESS THE PRODUCT LABELING SPECIFICALLY AUTHORIZES THE USE. 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 soybeans with Roundup Ready 2 Xtend® technology and follow all pesticide product labeling.
ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. Soybeans with Roundup Ready 2 Xtend® technology contain genes that confer tolerance to glyphosate and dicamba. Glyphosate herbicides will kill crops that are not tolerant to glyphosate. Dicamba will kill crops that are not tolerant to dicamba.

Roundup Ready 2 Xtend® is a registered trademark of Monsanto Technology LLC used under license.

Pioneer is a member of Excellence Through Stewardship® (ETS).

Pioneer products are commercialized in accordance with ETS Product Launch Stewardship Guidance and in compliance with the Pioneer policies regarding stewardship of those products. Crops and materials containing biotech traits may only be exported to or used, processed, or sold in jurisdictions where all necessary regulatory approvals have been granted for those crops and materials. It is a violation of national and international laws to move materials containing biotech traits across borders into jurisdictions where their import is not permitted. Growers should discuss these issues with their purchaser or grain handler to confirm the purchaser or handler's position on products being purchased. For further information on the approval status of biotech traits, please visit www.biotradestatus.com.

Excellence Through Stewardship® is a registered trademark of the Excellence Through Stewardship.



NEW

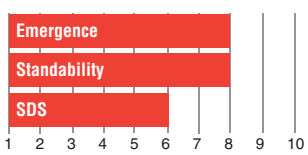
36A1X™* Brand

POWER PLUS
ROUNDUP READY 2 XTEND SOYBEANS

Maturity 3.6

PowerShield SDS

- New weed control option in mid-Group 3
- Very good yield potential across soil types
- Outstanding SCN race 3 and 14 resistance
- Fantastic brown stem rot tolerance
- Has a 1c gene for Phytophthora with very good field tolerance
- Available with PowerShield® SDS treatment in individual units and EZ load boxes

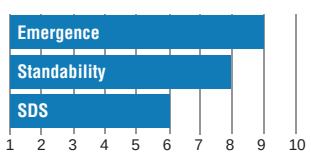


LIBERTYLINK® SYSTEM

Liberty® is a unique mode of action, non-selective herbicide that provides excellent weed control, even of glyphosate resistant weeds. LibertyLink® soybeans have been tested side-by-side to Roundup Ready 2 Yield® soybeans with a 2.1 bu/a advantage for the LibertyLink beans. Liberty is a non-volatile chemistry and therefore stays where it is applied. The herbicide does need more water; a carrier with 15 gallons per acre is recommended. Complete weed coverage is needed because it is a contact weed killer rather than a systemic, like glyphosate. While you can expect the price of Liberty herbicide is expected to be somewhat lower in 2017, the royalty on the seed will be slightly higher with a system cost similar to the past. For best results, spray Liberty when weeds are less than 6 inches and then spray again 21 days later. As a testament to its effectiveness, our LibertyLink sales have doubled each of the past four years. Plant with confidence.

236LL Brand
Maturity 2.3

- Versatile early LL line
- Plant on any soil type
- Yield performance is excellent
- Medium tall plant type that branches well
- Very good broad-spectrum disease package

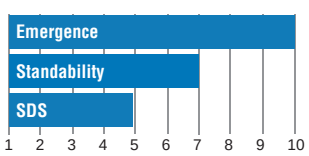


266LL Brand
Maturity 2.6

- Plant anywhere
- Big yields, versatile agronomic package
- Medium-tall plant type, widely adapted
- Mid-season LibertyLink® option that performs
- Good ratings for a variety of diseases
- Adds diversity to your genetic package
- Available with PowerShield® SDS treatment in individual units and EZ load boxes

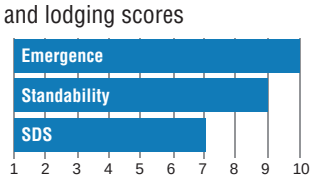
285LL Brand
Maturity 2.8

- Works well across all soil types
- Great bean for your lighter soils
- Average plant height with wide canopy
- Emerges quickly and shatters little
- Exceptional disease resistance, Phytophthora, and brown stem rot protection
- Great against white mold and SCN (PI88788)
- Great lodging score, too



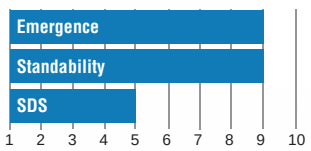
Hoblit 355LL Brand
Maturity 3.5

- Performs well across environments
- Excels on light soils
- Average plant height and wider than average canopy width
- Exceptional disease package so you can rest easy
- Good Phytophthora (Rps1k), brown stem rot and SDS protection
- Outstanding scores on charcoal and Frogeye
- Some of the best emergence, shattering and lodging scores



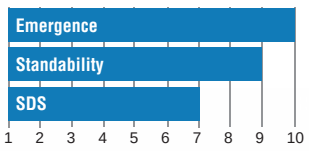
Hoblit 384LL Brand
Maturity 3.8

- Exceptional emergence
- Average bean height but good score on light soils
- Nice bean for those a little "shattering shy"
- Great standability
- Good Phytophthora scores
- Available with PowerShield® SDS in individual units and EZ load boxes



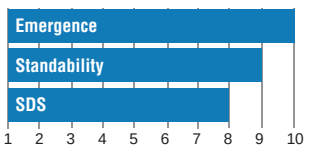
Hoblit 405LL Brand
Maturity 4.0

- Exceptional emergence with average height and width
- Works well across all soils
- Exceptional on lighter soils
- Great bean for the shatter shy
- Exceptional standability
- Great Phytophthora tolerance (Rps1c), so don't worry about resistance
- Very good frogeye, as well as root knot tolerance
- SCN resistance (PI88788)



Hoblit 426LL Brand
Maturity 4.2

- Stands well with average plant height
- Fast emergence
- Great disease package
- Higher yields
- Works across soil types



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