

QUAKER LANE ENTERPRISES



A Letter from our local Agronomist, Kevin Rothzen

I'm sure planting has started for many or will start soon in most areas. I hope all is going well and uneventful for everyone. As crops start to emerge, we need to take time to evaluate our stands. Evaluating stands will help figure out how the planter was performing and how our products we planted are performing. If planting is still occurring, then you have time to make adjustments or fixes to planters if needed. If planting is finished, then this time is used to evaluate product performance or replant decisions if they are needed.

Taking Stand Counts

- Measure 1/1000th of an acre based on the row width of your crop. See Table below.
 - Another method (great for drilled soybeans) is the hula hoop method. Measure the diameter of the hoop, throw it on the ground, and count the number of beans in the hoop.
- Count the number of live plants in the measured out area.
- Record the number of plants.
- Repeat these steps in random parts of the field. Be sure to sample good and bad areas.
- Average the counts and multiply that number by 1,000. That will give you your final stand.
 - If using the hula hoop, then use the other table below for the conversion factor.
- A newer method to evaluate stand for both corn and beans could be with a UAV. I know of 2 software packages used with UAVs that will give you stand counts across an entire field. DroneDeploy and Sentera both have those capabilities. I use these programs when I come to a field to evaluate stand to help me focus my attention on the more “challenging” areas.

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Row Spacing	Row Length
15"	34' 10"
20"	26' 2"
30"	17' 5"
36"	14' 6"
38"	13' 9"

Table 1. Stand count evaluation factors, by hoop diameter, to determine soybean plant populations using the hoop method.

Diameter of Hoop (inches)	Factor
18	24,662
21	18,119
24	13,872
27	10,961
28 ¼	10,000
30	8,878
33	7,337
36	6,165

Source: Purdue Extension Corn & Soybean Field Guide.

Using the data

Now that you have counts for your fields, what do you do with that information? Review the tables below. These tables give a rough estimate of the percent of maximum yield you may experience. Comparing seeding rate vs. final stand. The decision what to do next is the big challenge. If final stand is good enough to satisfy yield goals, then leave the crop and move on to the growing season. If final stand is low, then the decisions get more challenging. Replanting is not an easy decision. You need to take into account cost for the extra seed, fuel, time, labor and yield loss due to later planting dates. Luckily you are not alone in this decision. Channel Agronomists are available to help in the decision process. We can come out and help evaluate and collect data to help with the decision. Maybe even give you an opinion on what we might do. But, ultimately the decision is up to you.

Corn

Seeding Rate	15,000	20,000	23,000	28,000	31,000	35,000	39,000	44,000	47,000	52,000
Final Stand	13,000	17,000	20,000	24,000	27,000	31,000	34,000	38,000	41,000	45,000
Planting Date	Percent of maximum yield.....									
April 15	59	73	85	94	99	100	98	95	95	95
April 25	58	72	83	92	98	99	97	96	97	96
May 5	56	70	81	90	96	99	98	97	99	96
May 15	54	66	77	85	92	95	95	95	94	94
May 25	48	60	69	77	83	87	88	89	88	85
June 1	42	52	61	68	72	76	78	78	78	76
June 15	29	35	41	45	48	51	52	52	50	48
June 25	18	22	25	28	29	30	30	30	28	26

Table 2. Percent of full-yield potential for timely-planted soybeans, as influenced by plant density established and stand reduction 2 to 4 weeks after planting.

% Stand Reduction	Plants per foot of row		
	8	6	4
0 (full stand)	(% of full-yield potential)		
	100	97	95
10	98	96	93
20	96	93	91
30	93	90	88
40	89	86	83
50	84	81	78
60	78	75	73

The reduction in stand was achieved by random placement of 12-inch gaps within 30-inch rows and the remaining plants per foot of row were without gaps or skips. Source: University of Illinois.

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I hope everyone has a great and safe planting season this year. I truly hope the season goes perfect with no replanting decisions needed. I am here to help if needed. Don't hesitate to reach out with any questions or if you need help with anything. I don't always have the answers, but will make sure to help find the answers for you.

Thanks,
Kevin Rothzen



Meet QLE's Newest Dealer Troy Raymond

Troy Farms outside Monmouth, IL and was involved in his Uncle, Gary Gaskill's seed business for the past few years. Unfortunately, Gary passed away last summer, so Troy was asked to take over the dealership. He farms with his parents, Vince and Sharon Raymond, and has two children, Riley, currently in the Marines, and Regan who is currently attending college.

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Information on our planter box treatments are below. You can visit AmplifyYield.com for additional information.

Please feel free to contact us if you are interested, or need any further information. We would be happy to answer an questions!



AMPLIFY LAUNCH SOYBEAN is a best-in-class 80/20 talc/graphite combination that ensures optimum performance in today's high-speed planters. It can take the place of any seed fluency agent.

The base product includes Iron and Manganese—now with the added benefit of 0.43 pounds of IONLOCK™ Zinc. These micronutrients are essential for fast emergence and strong, healthy plants.

AMPLIFY LAUNCH is powered by BIO-CAPSULE TECHNOLOGY™ - a patented delivery system that helps farmers save time, labor and fuel. The BIO-CAPSULE carrier system allows for the addition of multiple biological solutions safely packaged for convenient deployment at planting.

New is a mineralization microbial package to improve nutrient availability and multiple forms of Nitrogen fixing microbes to feed genetic potential in today's high-yielding soybeans.

PRODUCT BENEFITS

- Drives early-season taproot nodulation and N-fixation
- Builds stronger, healthier plants fast & massive roots
- Puts soybeans in the position to manage season-long stressors and optimize genetic potential
- Herbicide tolerant bradyrhizobia strain (patent # 8772576)

[Ultimate coverage on every seed.]

Industry-Leading Bradyrhizobia Inoculant
Proprietary Triple-Stack accelerates early-season nodulation for maximum nutrient uptake.

5 oz Terrasym®
Proven, Industry-Leading Bio Stimulant PPM strains that generate massive root structures.

NEW: Industry-Leading Bio-Fertility & N-Fixing Microbes
Azospirillum brasilense
Azospirillum lipoferum
Azotobacter chroococcum
Azotobacter Vinelandii
Thiobacillus Ferrooxidans
Paenibacillus Azotofixans
Bacillus amyloliquefaciens
Bacillus licheniformis
Bacillus megaterium
Bacillus pumilus
Bacillus subtilis
Trichoderma harzianum
CFU count \$B billion

80/20 Talc/Graphite + Mn & Fe

NEW: 0.43 lbs IONLOCK™ Zinc

Actual product packaging may be different than this visual.

BASE INGREDIENTS:

80/20 TALC, GRAPHITE AND MICRONUTRIENT BLEND

GUARANTEED ANALYSIS

Iron (Fe).....	0.70%
Manganese (Mn)	0.90%
Zinc (Zn).....	1.58%
Derived from Ferrous Oxide, Manganese Oxide, and Zinc Sulfate.	

BASE INGREDIENTS CONTAIN 10.8% IONLOCK™ ZINC

IONLOCK ZINC is designed to increase singulation performance, adhere microbes to seed coats, and provide valuable early emergence nutrition.

BIO-CAPSULE INGREDIENTS:

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Bradyrhizobium japonicum.....	2.0x10 ⁹ CFU/g
Azospirillum Brasilense.....	5.0x10 ⁹ CFU/g
Azospirillum Lipoferum.....	5.0x10 ⁹ CFU/g
Azotobacter Chroococcum.....	5.0x10 ⁹ CFU/g
Azotobacter Vinelandii.....	5.0x10 ⁹ CFU/g
Thiobacillus Ferrooxidans.....	5.0x10 ⁹ CFU/g
Paenibacillus Azotofixans.....	5.0x10 ⁹ CFU/g
Bacillus Amyloliquefaciens.....	5.3x10 ⁹ CFU/g
Bacillus Licheniformis.....	1.1x10 ⁹ CFU/g
Bacillus Megaterium.....	5.3x10 ⁹ CFU/g
Bacillus Pumilus.....	8.8x10 ⁹ CFU/g
Bacillus Subtilis.....	5.3x10 ⁹ CFU/g
Trichoderma Harzianum.....	3.5x10 ⁹ CFU/g
Methylobacterium hispanicum.....	1x10 ⁹ CFU/g

DIRECTIONS FOR USE & RECOMMENDED USE RATE

Once ready to plant, remove the safety clips from the BIO-CAPSULEs. Push down on the buttons atop the pail to release the biologicals into the base. Seal the pail and shake aggressively to blend the contents. The combined products treat 40 units of soybeans at 140k seeds per unit.

Before each application, aggressively shake contents to ensure the correct volume is applied.

For a single row unit planters: use the enclosed scoop to measure out blended contents. One scoop treats 1 unit (140k seeds) soybeans.

DO NOT ACTIVATE BIO-CAPSULE UNTIL READY TO USE.

PRODUCT AVAILABILITY

Sold in 2-pail cases to treat 80 units of soybeans. Each pail is capable of treating 40 units of soybeans.

NET WEIGHT (per pail): 4.68 lbs (2.12 kg)

*Data available for additional information

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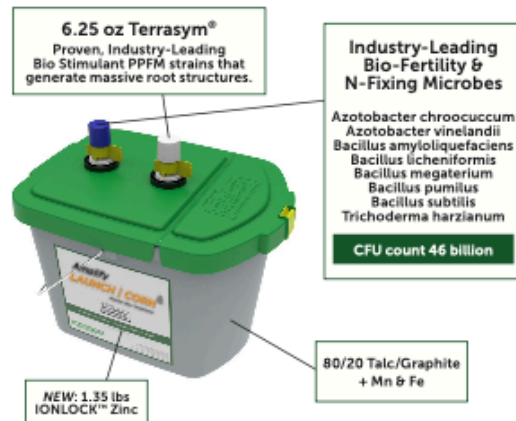
AMPLIFY LAUNCH CORN is a best-in-class 80/20 talc/graphite combination that ensures optimum performance in today's high-speed planters. It can take the place of any seed fluency agent. The base product also includes 1.35 pounds of IONLOCK™ Zinc plus iron and Manganese. These micronutrients are essential for fast emergence and strong, healthy plants.

AMPLIFY LAUNCH is powered by BIO-CAPSULE TECHNOLOGY™ - a patented delivery system that helps farmers save time, labor and fuel. The BIO-CAPSULE carrier system allows for the addition of multiple biological solutions safely packaged for convenient deployment at planting.

PRODUCT BENEFITS

- Most convenient method to deliver a high-volume load of zinc to the furrow
- Generates massive root structure
- Increases early-season iron, manganese and zinc uptake
- Puts corn plants in the position to manage season-long stressors and optimize genetic potential

[Ultimate coverage on every seed.]



Actual product packaging may be different than this visual

BASE INGREDIENTS:

80/20 TALC, GRAPHITE AND MICRONUTRIENT BLEND

GUARANTEED ANALYSIS

Iron (Fe).....	0.70%
Manganese (Mn)	0.90%

Derived from Ferrous Oxide and Manganese Oxide.

BASE INGREDIENTS CONTAIN 27% IONLOCK™ ZINC

IONLOCK ZINC is designed to increase singulation performance, adhere microbes to seed coats, and provide valuable early emergence nutrition.

BIO-CAPSULE INGREDIENTS:

ALSO CONTAINS NON-PLANT FOOD INGREDIENTS:

Azotobacter Chroococcum.....	5.0x10 ⁷ CFU/g
Azotobacter Vinelandii.....	5.0x10 ⁷ CFU/g
Bacillus Amyloliquefaciens.....	6.8x10 ⁸ CFU/g
Bacillus Licheniformis.....	1.4x10 ⁹ CFU/g
Bacillus Megaterium.....	6.8x10 ⁸ CFU/g
Bacillus Pumilus.....	1.1x10 ⁹ CFU/g
Bacillus Subtilis.....	6.8x10 ⁸ CFU/g
Trichoderma Harzianum.....	4.5x10 ⁹ CFU/g
Methylobacterium gregans.....	1x10 ⁹ CFU/g

DIRECTIONS FOR USE & RECOMMENDED USE RATE

Once ready to plant, remove the safety clips from the BIO-CAPSULES. Push down on the buttons atop the pail to release the biologicals into the base. Seal the pail and shake aggressively to blend the contents. The combined products treat 50 units of corn at 80k seeds per unit.

Before each application, aggressively shake contents to ensure the correct volume is applied.

For a single row unit planters, use the enclosed scoop to measure out blended contents. One scoop treats 1 unit (80K seeds) corn.

DO NOT ACTIVATE BIO-CAPSULE UNTIL READY TO USE.

PRODUCT AVAILABILITY

Sold in 2-pail cases to treat 100 units of corn. Each pail is capable of treating 50 units of corn

NET WEIGHT (per pail): 5.78 lbs (2.62 kg)

*Data available for additional information

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Plant 2024 is here. We at QLE want everyone to have a successful and safe planting season.

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