BIO Seed™

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Bio seed is a consortium of bacteria and fungi that work to:

- Fix atmospheric nitrogen into a plant available form
- Solubilize phosphates and potassium
- Solubilize silica, which helps alleviate drought stress
- Build organic matter and improve soil structure over time

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Familiar Faces, Unique Combination

Guaranteed analysis:

- Paenibacillus azotofixans..... 1x10^8 CFU/g
- Bacillus megaterium ..... 1x10^8 CFU/g
- Bacillus mucilaginosus..... 1x10^8 CFU/g
- Bacillus subtilis ..... 1x10^8 CFU/g
- Trichoderma harzianum ..... 1x10^8 CFU/g

Product is applied at 50-100g/acre,
Results in 5.0-10 **billion** CFU/acre

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Benefits By Strain

Paenibacillus azotofixans - Converts atmospheric N2 to NO3 and NH4

Bacillus megaterium - Converts inorganic P into plant available form

Bacillus mucilaginosus - Releases potassium from K-rich soil minerals

Bacillus subtilis - Helps provide carbohydrates to seedlings and transplants before photosynthesis is in full production

Trichoderma harzianum - Improves soil structure by producing glomalin, which helps with water infiltration and retention

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Advantages of Bio Seed

- **OMRI listed**
- **Will maximize the uptake of nutrients applied as fertilizer**
- **Effective over a broad range of crops and soil conditions**
- **All bacteria are Gram-positive and facultative**
- **Low rate: 50 g/acre**
- **Cost effective: ranges from $10-$15/acre depending on seeding density**

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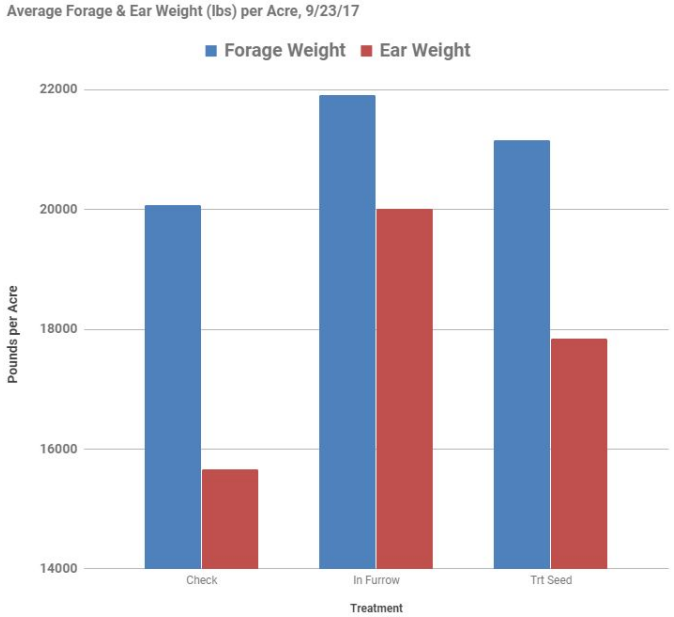
Results on Grain Corn - Reality Research, Geneva, NY



Calculations for bu/a at 15.5% moisture by ear weight:

In Furrow: 169.1 bu/a

Seed Treatment: 150.9 bu/a

Untreated Check 132.4 bu/a

In Furrow increase over control: **27.7%**
Seed Treatment " " " : **14.0%**

Results on Onions, Guanajuato, Mexico

Treatment	Total MT/ ha	Dif. vs. Control MT/ha	% dif. with Cont.	% extras to medium	% small & waste	total %
1. Untreated control	39.0	0.0		91.6	8.4	100
2. Bio Seed 1 drench at 125 g/ha + 3 monthly 1 L/ha Vitazyme sprays	**48.7**	**9.7**	**24.7**	**92.2**	**7.8**	100
3. Bactiva 4 monthly drenches, cumulative 1.25 kg/ha (500 g/ha + 3 at 250 g/ha)	41.3	2.3	5.9	91.1	8.9	100
4. Bio Seed 1 drench at 125 g/ha	**46.6**	**7.5**	**19.3**	**93.6**	**6.4**	100

Preliminary Indications of Control

Program/treatment	date	product	rate/ha	$US/liter	$US/ha
1. Control	09-Oct-17	MM 64-8	2 kg	18.92	37.84
	24-Oct-17	MM 64-8	2 kg	18.92	37.84
	31-Oct-17	Econil	4 L	9.73	38.92
	07-Nov-17	Econil	4 L	9.73	38.92
	14-Nov-17	Consent	2 L	21.62	43.24
	20-Nov-17	Econil	4 L	9.73	38.92
				Total	**235.68**
4. Bio Seed	31-Oct-17	MM 64-8	2 kg	18.92	37.84
	20-Nov-17	MM 64-8	2 kg	18.92	37.84
				Total	**75.68**
2. BioSeed+Vitazyme	20-Nov-17	MM 64-8	2 kg	18.92	37.84
				Total	**37.84**

Lucava MM 64-8 (64% mancozeb + 8% metalaxyl WP; (640 & 80 g a.i./kg, resp.).
Lucava Econil 720 (52% chlorthalonil AS; 52% per wt equals 72% wt/v).
Bayer Consento (7.50% fenamidone + 37.50% propamocarb SC).

Ongoing Trials

- Shelled corn, soybeans, green beans, tomatoes, onions in Tennessee - Agricenter International
- Strawberries, broccoli, celery - Holden Research Group, California
- Almonds - 80 acre grower trial, Northern California
- Apples - 2nd leaf tree growth, Reality Research, NY
- Seedlings - tomato, spinach, peppers, melons - Central California

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