

ProfitPro[®]AG Farm Report

March 2019

[Home](#)

[Manure Master](#)

[Contact Us](#)

Trade Shows

During January and February, ProfitProAG was a vendor at several trade shows. In January, the company attended the South Dakota Pork Show, Iowa Pork Congress, Iowa Power and Farm Show, MN Custom Manure Applicator's Meeting and the Midwest Manure Summit. Although the weather affected all of the shows, many satisfied customers stopped by the booth to share their experiences with Manure Master Plus and Pit Accelerator. Custom pumpers raved about the significance of decreased agitation foam with Manure Mechanical Defoamer.

Turnout at the MOSES Organic Conference in LaCrosse, WI, was impressive despite the winter weather on Thursday and Saturday night. Industrial Hemp was the prime topic and generated massive interest. ProfitProAG's seed coating, ProfitCoat PB, and the foliar GroPAL have made a real difference on the hemp crop.

Contact Dennis at 320-333-1608 with any questions.



PROFITPROAG

More from Every Acre, Every Animal
& Every Gallon of Manure

FREE Teleconference Calls

Agronomic/Livestock
3rd Thursday of the Month
March 21, 2019

Call #
1-855-212-0212

Meeting ID #
769-100-082#

Time
8 to 9 pm Central Time

**For More Information
or to find a Consultant
in Your Area**

Call **1-888-875-2425**
Ask about the **ProfitMaster[™]**
Full-Circle System and the
Manure Master[™] Program
www.profitproag.com



Innovative Manure Management
manuremaster.com
"The Manure Treatment Experts"

Soybean Seed Quality

Reports of soybean seed germination and seed quality issues are abundant this winter. On his podcast, Ken Ferie discussed the two main issues with soybean seed quality this year.

First, Phomopsis and Pod and Stem Blight infected the plant during the wet weather late in the year just before harvest. The second issue was the mechanical damage caused by harvesting soybeans after wet weather. The soybeans had dried down in the field and the onslaught of wet weather weakened the seed and caused some of the mechanical damage.

He also mentioned that the soybean seed is going out of condition in storage, so it's important to check your bins. Ken also suggested that farmers need to find out what the germ of their soybean is and adjust planting populations if needed.

Dicamba Restrictions

The Illinois Dept. of Ag recently announced more restrictions to applying dicamba on soybeans. Dicamba cannot be applied later than June 30th to help prevent temperature inversions and drift. North Dakota also has the June 30th cutoff date while Minnesota's cutoff date is June 20th. If the state doesn't add more restrictions, then the grower must follow the label. The label states that dicamba must be applied prior to R1 (beginning of flowering) and no more than 45 days after planting. If dicamba soybeans are planted, spray early to avoid temperature inversion concerns.

Fusarium Head Blight (FHB) of Wheat

A webinar presentation on FHB by Dr. Christina Cowger, Plant Pathologist at NC State, and Dr. Pierce Paul, Plant Pathologist at Ohio State, mentioned that heavy rain two weeks prior to wheat flowering can trigger FHB and that it prefers temperatures between 75-85 F.

Perithecia, or the fruiting bodies of FHB, develop on infected corn residue, extrude the ascospores that land on the anthers of the wheat head and infect them. It is advised to check wheat heads 21 days after anthesis or flowering. If the wheat heads are green and bleach colored, there's good chance it has FHB.

FHB can form mycotoxins in the grain called deoxynivalenol (DON) or zearalenone or (ZON). These mycotoxins are also referred to as vomitoxins because of the affect they have on an animal's digestive system. Swine are less tolerant to mycotoxins than cattle. The lowest level permitted in feed for swine is 5 ppm and for cattle 10 ppm while only one ppm for flour.

FHB is becoming more of an issue due to reduced tillage and the increased amount of corn being grown in wheat areas. The leftover corn residue can have fusarium on it from *Gibberella zeae*, the causal agent of Gibberella Stalk and Ear Rot. *Gibberella zeae* is the same fungus that causes FHB.

The best way to combat the disease is to grow resistant varieties combined with a fungicide application. www.scabsmart.org displays a list of varieties for individual states based on the type of wheat raised and which fungicides work best. Check out the website prior to planting wheat!

A healthy plant will also help to combat diseases. ProfitCoat PB provides the seedling with a blend of various microbes that solubilize soil nutrients and works synergistically with the plant. The microbes aid the plant, and the plant feeds the microbes. The healthier the plant is, the less likelihood of issues with diseases and insects.

ProfitCoat PB

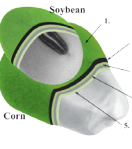
Biological Seed Coating

ProfitCoat™ PB is a dry organic seed coating that promotes uniform emergence, increased seedling vigor, enhanced root health and standability throughout the growing season. It contains beneficial microorganisms that will colonize the germinating seedling root and boost the biology in the rhizosphere. The consortium of beneficial bacteria and fungi fix nitrogen, improve availability and solubility of plant nutrients in addition to enhancing the plant's health. The coating contains a seed lubricant and up to 75 trace elements to support the microbes and seedlings during initial stages of growth. ProfitCoat PB is recommended for use on all plant seeds and is available with organic soybean inoculant (ProfitCoat PB + OSI). ProfitCoat PB is a "seedling and season-long plant health enhancement system."

ProfitCoat PB Enhances the Performance of Seeds

ProfitCoat PB is made with organic compliant materials and can be approved by organic certifying agencies for USDA-NOP programs.

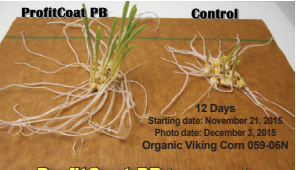
Biological Seed Coating System



1. Seed Lubricant
 - Improves plantability
2. Consortium of Beneficial Bacteria and Fungi (Biofertilizers)
 - Helps protect roots from pathogens throughout growing season
 - Improves nutrient uptake and absorption
3. Pop-up and Early Growth Stimulation
 - Complete on-seed nutritional package
 - Nutrient enhancer and stabilizer
4. Biofertilizants
 - Enhance microbial activity around seed
 - Improve seedling health
 - Improve nutrient availability
5. Energy Supply
 - Improves seedling vigor

Enhanced Advantages & Benefits

✓ Germination & Vigor with On-Seed Delivery	✓ Plant Health
✓ Microbial Colonization of Seedling Root	✓ Stem Diameter
✓ Early Vigor	✓ Standability
✓ Root Mass	✓ Soil Biology
	✓ Yield, Quality & Dry Down



ProfitCoat PB increased top growth 37% and root growth 42% at 12 days!

For more information, call ProfitProAG at 1-888-875-2425 (toll free) or go to www.profitproag.com to find a Service Rep in your area.

ProfitProAG

Made in the U.S.A.

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Featured Product of the Month



GroPAL™ is a highly concentrated ocean water concentrate that undergoes a number of natural solar concentration processes where the sodium levels gradually reduce and leave an ionic solution low in sodium, yet packed full of other minerals and trace elements.

These bio-essential building blocks of life are missing in many types of soil. GroPAL infuses these essential nutrients back into the soil, the plant and the ecosystem.

Minerals and the equally important trace elements have an absolutely remarkable effect on soil and plant health. They are an enzymatic activator, growth stimulator and a catalyst in the formation of all other nutrients in plants.

Naturally balanced by nature, GroPAL is safe, nutrient dense, OMRI listed and a viable alternative to chemicals. Additionally, GroPAL helps maintain

and enhances soil quality over time under sensible and sustainable soil management programs.

GroPAL for agricultural use

GroPAL is a cost effective and safe way to ensure that your soil and plants have access to invaluable minerals and trace elements that may be lacking in many soils and neglected by traditional fertilizer producers.

GroPAL reintroduces TRACE ELEMENTS long since lost or reduced from soil.

- Accelerates seed germination
- Ionic = Maximum nutrient absorption
- Promotes robust root and plant growth
- Promotes disease resistance
- Promotes pest resistance
- Promotes soil activity and helpful soil microbes

Guaranteed Analysis 0-0-2	Soluble Potash (K ₂ O)	2.0%
	Magnesium (Mg)	5.4%
	5.4% Water Soluble Magnesium (Mg)	
	Sulfur (S)	1.9%
	1.9% Combined Sulfur (S)	
	Sodium (Na)	1.8%
	Chlorine (Cl)	16.0%
Derived From: Ocean Water		

Gallon for gallon, **GroPal** is nature's most **nutrient dense, full spectrum** Ionic Mineral and Trace Element solution available for agricultural use.

DIRECTIONS FOR USE:

Typical Application Rates. Apply In-row, Foliar, Drip Line or directly on soil.

Fruit, Row Crops, Vegetables, Grass – 1/5 to 1 gal per Acre
Trees – 1/2 to 1 gal per Acre

Applications vary accordingly to plant size, climate conditions, soil type, crop type and desired results. For most applications, dilute with water for a 10 to 20 gal per acre tank mix.

For Trees, dilute to a 15 to 200 gal per acre mix.

Mix GroPal into your water first, then add in other items you are spraying.

Don't mix GroPal directly with other chemicals.

GroPal is not compatible with many NPK fertilizers and other chemicals. **Always jar test.**

To avoid burning, do not spray during the heat of the day or in bright sunshine.

ProfitPro, LLC makes no warranties of any kind, expressed or implied with respect to GroPal.

Information regarding the contents and levels of metals in this product is available on the internet
@ <http://www.aapfco.org/metals.htm>

Typical Analysis for



Element	unit	content	Element	unit	content
Sodium (Na)	mg/L	21500	Yttrium (Y)	µg/l	1.37
Potassium (K)	mg/L	19800	Zirconium (Zr)	µg/l	8.14
Calcium (Ca)	mg/L	40.9	Niobium (Nb)	µg/l	0.035
Magnesium (Mg)	mg/L	71200	Rhodium (Rh)	µg/l	0.980
Sulfur (S)	mg/L	18000	Palladium (Pd)	µg/l	2.63
Lithium (Li)	mg/L	8.62	Indium (In)	µg/l	0.01>
Boron (B)	mg/L	221	Antimony (Sb)	µg/l	5.44
Chloride (Cl)	mg/L	152000	Tellurium (Te)	µg/l	0.768
Sulphate (SO ₄ ²⁻)	mg/L	61000	Cesium (Cs)	µg/l	2.62
			Lanthanum (La)	µg/l	0.101
Silver (Ag)	µg/l	0.01>	Cerium (Ce)	µg/l	0.142
Aluminum (Al)	µg/l	246	Praseodymium (Pr)	µg/l	0.043
Arsenic (As)	µg/l	526	Neodymium (Nd)	µg/l	0.151
Beryllium (Be)	µg/l	0.01>	Samarium (Sm)	µg/l	0.061
Barium (Ba)	µg/l	2.64	Europium (Eu)	µg/l	0.051
Cadmium (Cd)	µg/l	0.60	Gadolinium (Gd)	µg/l	0.096
Cobalt (Co)	µg/l	49.5	Terbium (Tb)	µg/l	0.010
Chromium (Cr)	µg/l	42.2	Dysprosium (Dy)	µg/l	0.195
Copper (Cu)	µg/l	40.9	Holmium (Ho)	µg/l	0.045
Mercury (Hg)	µg/l	0.01>	Erbium (Er)	µg/l	0.132
Molybdenum (Mo)	µg/l	42.3	Thulium (Tm)	µg/l	0.017
Nickel (Ni)	µg/l	18.2	Ytterbium (Yb)	µg/l	0.148
Scandium (Sc)	µg/l	15.2	Lutetium (Lu)	µg/l	0.180
Selenium (Se)	µg/l	2660	Hafnium (Hf)	µg/l	0.597
Tin (Sn)	µg/l	40.0	Tantalum (Ta)	µg/l	0.010
Zinc (Zn)	µg/l	443	Tungsten (W)	µg/l	3.21
Titanium (Ti)	µg/l	44.7	Platinum (Pt)	µg/l	0.038
Vanadium (V)	µg/l	3.05	Thallium (Tl)	µg/l	0.01>
Gallium (Ga)	µg/l	1.23	Bismuth (Bi)	µg/l	0.01>
Rubidium (Rb)	µg/l	4400	Thorium (Th)	µg/l	0.269
Strontium (Sr)	µg/l	109	Uranium (U)	µg/l	33.1

The above results are from analytical testing conducted by Balint Analitika in 2004. Prior and additional testing has confirmed the presence of other Trace Elements in naturally occurring concentrations. It was decided, for ethical reasons, not to use estimates or composite data from other reports.

ProfitPro®AG invites YOU to call in on the third THURSDAY of the month for the FREE TELECONFERENCE

**A cost-effective and convenient way to gain knowledge
on new crop production technologies**

It's Easy . . . It's FREE
Thursday, March 21, 2019
8:00 p.m. Central Time

UPCOMING SUBJECTS

- Soybean Seed Quality
- Dicamba Restrictions
- Fusarium Head Blight (FHB) of Wheat

Dennis Klockenga, CCA, *ProfitProAG Consultant* and Dr. Jim Ladlie, *ProfitProAG President*, will discuss the upcoming subjects and share their experiences at the recent trade shows.

For more information visit www.profitproag.com and click on “Monthly Teleconference.”

DIRECTIONS FOR CALLING IN

1. Dial the toll free number **1-855-212-0212** at 8 p.m. **SHARP** (Central Time) to get in from the beginning.
2. Enter the meeting ID No. **769-100-082#** (pound or hashtag key).
3. **All calls will be muted when joining the teleconference.**
4. **To ask a question** during the Q & A portion of the program, press *6 (star six). After asking the question please press *6 to re-mute your phone.
5. **NO FEE** or pre-registration required.
6. Access the teleconference anytime between 8 to 9 p.m. (CT)

Monthly Podcasts on Soundcloud

We've taken our monthly teleconference and created two half hour podcasts to be listened to at anytime on any device. The podcasts will be available on soundcloud using either the manure master or the profitproag channels



ProfitProAG

<https://soundcloud.com/user-331466437>

Manure Master

<https://soundcloud.com/user-873513634>