

# Core Values are Important

By Paul Schneider Jr.,  
AG-USA

William Albrecht said, "It has been proven, again and again, that a balanced approach to soil chemistry is the key to successful plant growth and that when this occurs soil pH, aeration, drainage, structure and beneficial soil biology also improve."

"Thus, if we can balance our soil chemistry, including the trace elements, improved productivity and plant and animal health will be a natural outcome."

## What we believe

At AG-USA, we believe that God created soil and plants to work together to meet each other's needs.

We believe that improving the soil and allowing the soil to feed the plant is far superior to applying NPK.

We believe that when true balance is brought to the soil, plants will:

- Yield better
- Resist insects and disease
- Be much more nutrient dense
- Thrive

Furthermore, we believe that sea minerals have the ability to improve health in plants, animals and man.

We believe the interaction between plants and soil is key to producing great crops. William Albrecht was right in his belief that balancing soil chemistry is key to successful farming.

## Carbon sequestration - another key

Liquid carbon (sugars) are manufactured by the plant through photosynthesis, then sequestered by the plant through its roots to feed the microbial life in the soil. Why is the plant willing to spend so much energy to sequester sugars to feed soil microbes?

- Soil microbials digest and unlock soil nutrients, so that the plant has no lack of nutrients.

- Soil microbes structure the soil using the sugars secreted by the plant as gums and glues to bind soil particles together, creating air gaps in the soil.
- Structured soil allows air to flow down into the soil, supporting deeper and deeper levels of beneficial aerobic bacteria.
- Once the soil is flocculated and air flows naturally down into the soil, nitrogen fixing bacteria contained in GroPal Balance supply the plant with more than enough nitrogen in a form that will not leach out or wick off.
- Structured soil has trillions of tiny storage reservoirs to efficiently store moisture, helping the plant survive arid times.

As the plant sequesters large amounts of sugars (liquid carbon) into the soil, there is a natural build-up of more and more organic matter in the soil. That's because these sugars are carbon, and carbon is organic matter! One farmer using Soil Balance saw his organic matter go from 0.4 to an average of 4.7 in just 8 years.

Do you need more organic matter? Carbon sequestration is the answer.

Carbon sequestration is up to 10 times more effective than green manures, crop residues, mulching, composting and even humic acids at building organic matter in the soil. (To understand this better, see the article on our website and in our information packet by Dr. Christine Jones.)

## What do you believe?

If you believe that the best way to feed the plant is through feeding and building up the soil,

If you are thrilled at the prospect of a thriving soil food web,

If you are amazed at the power of mycorrhizal fungi to help grow robust plants,

Then GroPal Balance is what you've been looking for!

GroPal Balance does more than fish emulsion, kelp, humic and fulvic acids, compost teas and biologicals to improve the soil. It balances pH better than lime. How do we know this?

For many years AG-USA has sold some very good soil building products, including fish emulsion, kelp, humic and fulvic acids, liquid calcium and a great biological. We saw good results with these. However, what we are seeing with GroPal Balance far exceeds the results we saw before.

You see, GroPal Balance has an amazing ability to balance the soil and "switch on" carbon sequestration.

Scientists are now discovering that carbon sequestration is the all-important key for building up the soil.

- For many farmers, no other fertilizer is needed. GroPal Balance digests trace minerals, potassium and phosphorus, then makes them available to the plant.
- Want to save money on lime? GroPal Balance frees up calcium in the soil while balancing other nutrients. This helps to balance pH without applying lime.
- Tired of the high cost of inputs? How about just \$20 to \$40 per acre per year for great results?

Just imagine having the best looking pasture and hay in your area.

Imagine your cattle not diminishing over the winter, and breeding in a shorter amount of time.

Imagine buyers competing for your cattle because they look so good!

## Dryland farming

Would you like to grow mineral rich grass even in dry spells, resulting in more consistent weight gains and milk production? Once GroPal Balance has

been activated by 1.1" of moisture, it is like a center pivot for dryland farmers.

Our customers have reported that their grass is green all the way down to the roots, while their neighbor's grass is brown and dry.

Why? Not only does carbon sequestration highly structure the soil so that rains soak in instead of running off, but our bacteria actually manufacture moisture.

Human beings create moisture when we breathe, enabling us to fog up our eyeglasses to clean them. In much the same way, GroPal Balance bacteria create moisture as they digest soil nutrients. They don't just capture moisture from the air, they actually create moisture by stripping off Oxygen and Hydrogen atoms as they digest nutrients. These atoms then join together to make H<sub>2</sub>O, leaving a trail of moisture as our bacteria travel through the soil. How amazing is that?

## So what is in GroPal Balance?

It is a liquid that contains:

- Low sodium sea minerals
- Fish and kelp
- Humic and fulvic acids
- 70 aerobic bacteria
- Mycorrhizal fungi plus other fungi
- Molasses

GroPal Balance also has the energy needed to empower plants to start sequestering huge amounts of sugars! Just spray on GroPal Balance and watch carbon sequestration build your organic matter and create new top soil faster than you can imagine.

## Benefits of highly structured soil

Highly structured soil keeps grass green and growing even when rains shut off, resulting in:

- Nutrient rich soil
- More mineral rich grass
- Thicker grass and clover

- Less and less weeds (calcium and pH is key to fewer weeds)
- Balanced nutrients for more consistent weight gains and more consistent milk production
- Higher stocking rates
- Better gains in the winter

## Benefits of a good soil food web

Balancing the Soil Food Web results in the balance of Calcium and pH for better mineral uptake, resulting in:

- Faster, more dependable breed back
- Tastier beef and milk
- Greater customer loyalty

It minimize variables for more consistent production.

## Dairy cattle

One of the biggest problems dairy farmers face is poor nutrient uptake by the plant. Nutrients may be in the soil, but when the soil is out of balance the plant isn't able to absorb these nutrients.

When there is too much or too little of one nutrient it can block absorption of other nutrients. This can cause a calcium deficiency in dairy cows, which can lead to Milk Fever, which may lead to the death of a good cow.

The solution? When you balance the nutrients in the soil, it helps to improve calcium uptake.

Take a look at the soil tests in the chart on the left. The second soil test was taken only 4 months after GroPal Balance was applied, but look at the difference in nutrient availability. Even the trace minerals are already coming up.

When you are able to balance the nutrients in the soil it can really help with calcium uptake by the plant, thus helping to prevent milk fever.

## Core values

Are our core values your core values? If so, I would encourage you to carefully consider GroPal Balance. Call or write today for a free information packet.

Call 678-378-2911 or go to [www.AG-USA.net](http://www.AG-USA.net) today.

# GroPAL Balance

Seaminal  
**GroPAL**  
The Grower's Best Friend

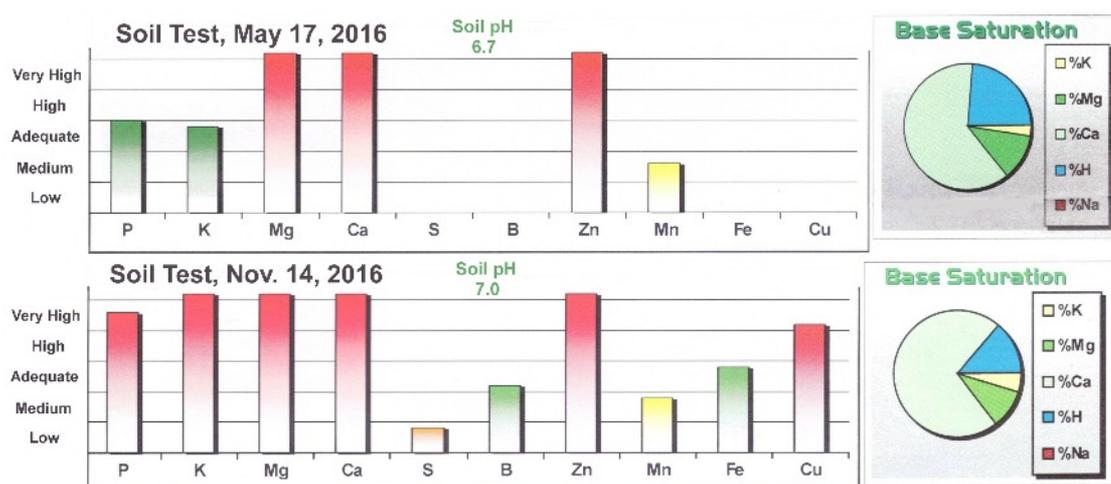
with



## GroPal Balance is like a center pivot for dryland farmers!

Replaces LIME and other fertilizers

The following before and after lab tests show how GPB makes soil nutrients available. Even though nothing else was applied this year but GPB, within only 5 months the NPK and trace minerals had gone way up. The nutrients are already in the soil. GroPal Balance simply works to free them up.



Call AG-USA now at 678-378-2911 for more information, or go to: [www.AG-USA.net](http://www.AG-USA.net) OMRI and WSDA listed.

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