



Livestock Essentials

Modern Natural Remedies
and Ancient Wisdom
for All Pastured Livestock

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Practical Livestock Staff



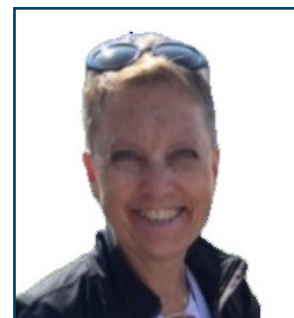
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Buy from these Dealers:

Turtle Creek Nutrition
Herb Miller
3914 Tollakson Rd
South Wayne, WI 53587
608-426-4985

Stoltzfus Mineral
David Stoltzfus
881 Peters Rd
New Holland, PA 17557
717-517-2431

William Yoder
2227 Audrain Rd 124
Clark, MO 65243

HOW PRACTICAL LIVESTOCK ESSENTIALS WAS BORN...

by Will Winter, DVM

When one needs something specific, something which doesn't seem to exist, the choices include doing without, settling for something less, or, in the extreme, opening a new business that fulfills that need. The latter option is exactly what I chose to do! This was the birth of Practical Livestock Essentials.

This story goes back to 1994, when I first met holistic livestock nutritionist Jerry Brunetti. He had come to speak at one of our first holistic veterinary conferences. The most common problem holistic veterinarians faced then as well as today is that we know we don't want to rely on chemical crutches any more, but we still need effective holistic tools to protect and save animals from illness or death. His words were stunning. For many of us veterinarians, we saw a vision unfold that helped make the murky darkness around true health and immunity become clear. Additionally, Jerry was one of those people whom one meets and knows almost instantly that they will become a best friend for life. And we did just that. Before long, he and I joined forces professionally, lecturing together under his leadership all over the world. We then became co-creators, expanding his line of natural livestock products via his facilities in Pennsylvania.



Jerry Brunetti

To meet increasing need, we later worked together to create a full line of similar products here in the Midwest. This being my fledgling Livestock Essentials, formed under the umbrella of Thousand Hills Cattle Company in Cannon Falls, Minnesota. Jerry, along with many other inspirational mentors, have guided the development and evolution of my product line from the very beginning. I still feel his presence today.

For reasons I do not understand, we lost Jerry to illness a few years ago, but his ideas, inspirations and passion continue as manifest in the art of creating necessary health and holistically-driven veterinary products. I have continued my devotion and life work to the formulation and creation of the all-natural, affordable, and effective products that all producers need.

I strive to investigate each ingredient of each product, tracing sources back as far as humanly possible. I continue to extensively research ethical manufacturers throughout the country. I only chose those that will execute my recipes with exacting standards of quality and accuracy. To insure affordable products, I have strived to keep the number of staff, inventory and facilities required to achieve my goals to a minimum. For example, virtually all mineral orders are created as soon as we put down the phone or take the order off of the computer. When the products arrive, producers can be assured that they are fresh and will guarantee maximal shelf life.

I have also continued to generate voluminous and detailed articles, blogs, e-blasts, lectures, and other means of communication to assure that producers understand exactly why these products work, as well as how to use them properly.

Much work still needs to be done with regard to improving livestock health, production and quality of life. Few would argue with the fact that the nutrient-density and safety of our meat, milk and egg supply is in trouble today. Our environment begs us to do a better job with agriculture. To rectify these problems, our community will always need to explore ways to find safe and effective alternatives to the offerings of the pharmaceutical and petrochemical industries. Intelligent and ethical farmers and ranchers have the power to change the world. Together, with your help, we can make the world a much better place.... one cow, one pig, one chicken, one farm, or one acre at a time! Start anywhere.

TO ORDER: 612-756-1232 or 712-363-3392

www.livestockessentials.com

WHY I RECOMMEND MY VITAMIN-MINERAL MIXES

by Will Winter, DVM

My decades of experience as a full-time veterinarian have also shown me that nutritional deficiencies are the root cause behind the cause of virtually every disease and ailment of livestock. The holistic cure involves eschewing the simplistic slapping of a band-aid on the problem. We look deeper to find the true causation as well as the true, sustainable, least expensive, and least invasive cure. When it comes to nutrition, it is no longer possible, if it ever was, for one to find soils and plants that are fully nutrient-dense. Plus, it's a proven fact that minerals and vitamins are not optional for life.

Hopefully, they can come from the soil and from the forages produced by the soil, but if not, we must provide them. Wild animals are most often migratory and can thus find the variety of trace minerals and nutrients required for peak health and fertility. We can restore these "missing links" that could otherwise destroy health and productivity. The root core of our product comes from the sea. Vast quantities of fertility and nutrition have run off our continent into the sea where it has been sequestered within the pure and nutrition-rich sea plants from areas where the ocean is most clean.

I utilize generous quantities as my product base. I then blend in heavy-metal tested, premium-quality limestone and phosphorus which has been ground into a rapidly-absorbable flour. To this quality base I add all the macro and trace minerals that are required for health, this done using scientifically calibrated ratio, and with the most powerful chelated forms of each mineral.

I avoid the use of anything that is of a GMO-base plus I ascertain country-of -origin for every ingredient.

All our mixes contain F.O.S. or Fructo-Oligo-Sacchride. This natural protein made from yeast enhances colonization and development of the gut microbiome and plays a crucial role in overall health and future productivity - For Life. We investigated the effect of FOS on the calf hindgut microbiome, short-chain fatty acids (SCA), and growth performance. It has been scientifically proven to reduce the incidence of diarrhea, or scours. The daily administration of FOS exhibits a time-dependent increase in the ADG and the concentration of SCFA. Concurrently, FOS delays the natural decline of Bifidobacterium, promoting the maturation and stabilization of the hindgut microbiome. It is thought that the axiom "ALL DISEASE BEGINS IN THE GUT" is one of the most accurate of all physiological concepts that refer to health and wellness of all living mammals.



TO ORDER: 612-756-1232 or 712-363-3392

www.livestockessentials.com

DR. WINTER'S GOLD - A COMPLETE MINERAL/VITAMIN

RECIPE FOR ALL CATTLE (BEEF & DAIRY), BISON, GOATS

Guaranteed Analysis:

Calcium	(Min)	9%
Calcium	(Max)	11%
Phosphorus	(Min)	6.4%
Salt	(Min)	14%
Salt	(Max)	17%
Magnesium	(Min)	4.1 %
Potassium	(Min)	2.0 %
Sulfur	(Min)	3.2 %
Copper	(Min)	3,995 PPM
Iron	(Min)	4,145 PPM
Zinc	(Min)	6,405 PPM
Manganese	(Min)	2,410 PPM
Selenium	(Min)	120.0 PPM
Vitamin A	(Min)	321,730 IU/LB
Vitamin D	(Min)	40,815 IU/LB
Vitamin E	(Min)	960 IU/LB

Ingredients:

Monocalcium Phosphate, Salt, Kelp Meal, Magnesium Sulfate, Potassium Sulfate, Calcium Carbonate, Magnesium Limestone, Magnesium Oxide, Dehydrated Yeast, Sodium Bentonite, Hydrated Sodium Calcium Aluminosilicate, Sodium Selenite, Copper Sulfate, Organic Soy Oil, Zinc Sulfate, Manganese Sulfate, Zinc Hydroxychloride, Selenium Yeast, Vitamin E Supplement, Basic Copper Chloride, Ethylenediamine Dihydroiodide, Vitamin A Supplement, Vitamin D Supplement, Cobalt Glucoheptonate and Cobalt Sulfate.

Feeding Directions: Feed at the maximum rate of 0.055 lb per head per day for cattle fed free choice or by mixing into a complete diet. See consultant for complete feeding instructions.

****CONTAINS COPPER, DO NOT FEED TO SHEEP.****

Follow label directions: The addition to feed of higher concentrations of this premix containing selenium is not permitted.

Can be used in an organic operation as long as the organic certifying agency approves the formula.

Net Weight 50 lbs (22.67 kg)

DR. WINTER'S LACTATING DAIRY - A COMPLETE MINERAL/VITAMIN

RECIPE FOR LACTATING DAIRY CATTLE

Guaranteed Analysis:

Calcium	(Min)	13%
Calcium	(Max)	16%
Phosphorus	(Min)	6.0%
Magnesium	(Min)	13.0%
Sulfur	(Min)	2.1%
Copper	(Min)	3,383 PPM
Zinc	(Min)	11,176 PPM
Manganese	(Min)	7,802 PPM
Selenium	(Min)	49.4 PPM
Vitamin A	(Min)	625,342 IU/LB
Vitamin D	(Min)	159,875 IU/LB
Vitamin E	(Min)	2,398 IU/LB

Ingredients:

Monocalcium Phosphate, Calcium Carbonate, Magnesium Oxide, Kelp Meal, Magnesium Limestone, Zinc Methionine Hydroxy Analogue Chelate, Zinc Sulfate, Manganese Methionine Hydroxy Analogue Chelate, Manganese Sulfate, Dehydrated Yeast, Vitamin E Supplement, Copper Sulfate, Copper Methionine Hydroxy Analogue Chelate, Selenium Yeast, Organic Soy Oil, Sodium Selenite, Vitamin A Supplement, Vitamin D Supplement, Ethylenediamine Dihydroiodide, Cobalt Glucoheptonate and Cobalt Sulfate.

Feeding Directions: Feed at the maximum rate of 0.055 lb per head per day for cattle fed free choice or by mixing into a complete diet. See consultant for complete feeding instructions.

Follow label directions: The addition to feed of higher concentrations of this premix containing selenium is not permitted.

Net Weight 50 lbs (22.67 kg)

TO ORDER: 612-756-1232 or 712-363-3392

www.livestockessentials.com

DR. WINTER'S SILVER HAIR SHEEP - A COMPLETE MINERAL/VITAMIN

RECIPE FOR HAIR SHEEP

Guaranteed Analysis:

Calcium	(Min)	9 %
Calcium	(Max)	11 %
Phosphorus	(Min)	6.4 %
Salt	(Min)	14 %
Salt	(Max)	17 %
Magnesium	(Min)	4.2 %
Potassium	(Min)	2.1 %
Sulfur	(Min)	3.1 %
Copper	(Min)	1,000 PPM
Zinc	(Min)	6,569 PPM
Manganese	(Min)	2,524 PPM
Selenium	(Min)	85.5 PPM
Vitamin A	(Min)	321,734 IU/LB
Vitamin D	(Min)	40,819 IU/LB
Vitamin E	(Min)	960 IU/LB

Can be used in an organic operation as long as the organic certifying agency approves the formula.

Ingredients:

Monocalcium Phosphate, Salt, Kelp Meal, Magnesium Sulfate, Potassium Sulfate, Calcium Carbonate, Magnesium Limestone, Magnesium Oxide, Sodium Bentonite, Hydrated Sodium Calcium Aluminosilicate, Dehydrated Yeast, Zinc Sulfate, Organic Soy Oil, Sodium Selenite, Zinc Hydroxychloride, Selenium Yeast, Vitamin E Supplement, Copper Sulfate, Manganese Sulfate, Manganous Oxide, Ethylenediamine Dihydroiodide, Vitamin A Supplement, Vitamin D Supplement, Cobalt Glucoheptonate and Cobalt Sulfate.

****WARNING: This product contains supplemental copper which can be toxic to sheep. This product should only be fed to sheep if the forages they are consuming is low in copper or contain high levels of molybdenum. This needs to be confirmed from actual forage analysis from a qualified laboratory.****

Feeding Directions: Feed at the maximum rate of 0.017 lb per head per day for sheep fed free choice or by mixing into a complete diet. See consultant for complete feeding instructions.

Follow label directions: The addition to feed of higher concentrations of this premix containing selenium is not permitted.

Net Weight 50 lbs (22.67 kg)

DR. WINTER'S SILVER WOOL SHEEP - A COMPLETE MINERAL/VITAMIN

RECIPE FOR WOOL SHEEP

Guaranteed Analysis:

Calcium	(Min)	9 %
Calcium	(Max)	11 %
Phosphorus	(Min)	6.4 %
Salt	(Min)	14 %
Salt	(Max)	17 %
Magnesium	(Min)	4.2 %
Potassium	(Min)	2.1 %
Sulfur	(Min)	3.1 %
Iron	(Min)	4,225 PPM
Zinc	(Min)	6,405 PPM
Manganese	(Min)	2,410 PPM
Selenium	(Min)	120.0 PPM
Vitamin A	(Min)	321,730 IU/LB
Vitamin D	(Min)	40,815 IU/LB
Vitamin E	(Min)	960 IU/LB

Ingredients:

Monocalcium Phosphate, Salt, Kelp Meal, Magnesium Sulfate, Potassium Sulfate, Calcium Carbonate, Magnesium Limestone, Magnesium Oxide, Sodium Bentonite, Hydrated Sodium Calcium Aluminosilicate, Dehydrated Yeast, Sodium Selenite, Zinc Sulfate, Organic Soy Oil, Zinc Hydroxychloride, Selenium Yeast, Vitamin E Supplement, Manganese Sulfate, Manganous Oxide, Ethylenediamine Dihydroiodide, Vitamin A Supplement, Vitamin D Supplement, Cobalt Glucoheptonate and Cobalt Sulfate.

Feeding Directions: Feed at the maximum rate of 0.017 lb per head per day for sheep fed free choice or by mixing into a complete diet. See consultant for complete feeding instructions.

Follow label directions: The addition to feed of higher concentrations of this premix containing selenium is not permitted.

Can be used in an organic operation as long as the organic certifying agency approves the formula.

Net Weight 50 lbs (22.67 kg)

TO ORDER: 612-756-1232 or 712-363-3392

www.livestockessentials.com

DR. WINTER'S SWINE - A COMPLETE MINERAL/VITAMIN

FOR ALL CLASSES OF SWINE

Guaranteed Analysis:

Crude Protein	(Min)	1.7 %
Crude Fiber	(Max)	1.7 %
Crude Fat	(Min)	0.1 %
Calcium	(Min)	14 %
Calcium	(Max)	16 %
Phosphorus	(Min)	6.0 %
Salt	(Min)	8 %
Salt	(Max)	10 %
Selenium	(Min)	8.1 PPM
Vitamin A	(Min)	151,800 IU/LB

Directions For Use: To be mixed at the rate of 60 pounds per ton of complete swine grower and sow feeds. To be mixed at the rate of 40 pounds per ton of complete finisher feeds. Thoroughly mix into the complete feed. **Follow label directions:** The addition to feed of higher concentrations of this premix containing selenium is not permitted.

Ingredients:

Monocalcium Phosphate, Calcium Carbonate, Kelp Meal, Salt, Choline Chloride, Dehydrated Yeast, Manganese Sulfate, Zinc Sulfate, Vitamin E Supplement, Organic Soy Oil, Manganese Methionine Hydroxy Analogue Chelate, Zinc Methionine Hydroxy Analogue Chelate, d-Calcium Pantothenate, Ferrous Sulfate, Niacin, Selenium Yeast, Basic Copper Chloride, Sodium Selenite, Riboflavin, Menadione Nicotinamide Bisulfite, Vitamin A Supplement, Copper Methionine Hydroxy Analogue Chelate, Pyridoxine Hydrochloride, Vitamin D Supplement, Thiamine Mononitrate, Vitamin B12, Folic Acid, Biotin, Calcium Iodate, Inulin, Dried *Enterococcus faecium* Fermentation Product, Dried *Pediococcus acidilactici* Fermentation Product, Dried *Bifidobacterium animalis* Fermentation Product, Dried *Lactobacillus reuteri* Fermentation Product, Bentonite and Hydrated Na-Ca Aluminum Silicate.

Can be used in an organic operation as long as the organic certifying agency approves the formula.

Net Weight 60 lbs (27.21 kg)

DR. WINTER'S POULTRY - A COMPLETE MINERAL/VITAMIN

MIX FOR ALL CLASSES OF POULTRY

Guaranteed Analysis:

Crude Protein	(Min)	4.3 %
Methionine	(Min)	3.2 %
Crude Fiber	(Max)	1.4 %
Calcium	(Min)	13 %
Calcium	(Max)	16 %
Phosphorus	(Min)	10.0 %
Salt	(Min)	9 %
Salt	(Max)	11 %
Selenium	(Min)	9.5 PPM
Vitamin A	(Min)	185,790 IU/LB

Directions For Use: To be mixed at the rate of 60 pounds per ton of complete poultry feed. Thoroughly mix into the complete feed. Follow label directions: The addition to feed of higher concentrations of this premix containing selenium is not permitted.

Can be used in an organic operation as long as the organic certifying agency approves the formula.

Ingredients:

Monocalcium Phosphate, Calcium Carbonate, Kelp Meal, Salt, DL- Methionine, Choline Chloride, Dehydrated Yeast, Vitamin E Supplement, Manganese Sulfate, Zinc Sulfate, Organic Soy Oil, Ferrous Sulfate, Niacin, Selenium Yeast, d-Calcium Pantothenate, Sodium Selenite, Basic Copper Chloride, Vitamin A Supplement, Riboflavin, Vitamin D Supplement, Menadione Nicotinamide Bisulfite, Pyridoxine Hydrochloride, Thiamine Mononitrate, Vitamin B12, Folic Acid, Biotin, Inulin, Dried *Enterococcus faecium* Fermentation Product, Dried *Pediococcus acidilactici* Fermentation Product, Dried *Bifidobacterium animalis* Fermentation Product and Dried *Lactobacillus reuteri* Fermentation Product.

Layer and Breeder Flocks will require the addition of 175 pounds of Oyster Shell or Calcium Carbonate per ton of complete feed.

Chick Starter, Turkey Starter and Turkey Grower feeds will require the addition of 12 pounds of Oyster Shell or Calcium Carbonate per 2000 pounds of complete feed. **Chick Grower feeds** will require the addition of 8 pounds of Oyster Shell or Calcium Carbonate per 2000 pounds of complete feed.

Net Weight 60 lbs (27.21 kg)

TO ORDER: 612-756-1232 or 712-363-3392

www.livestockessentials.com

DR WINTER'S EQUINE - A COMPLETE MINERAL/VITAMIN MINERAL AND VITAMIN SUPPLEMENT FOR ALL HORSES

Guaranteed Analysis:

Calcium (Ca)	(Min)	9.00%	Iodine (I)	(Min)	640 PPM
Calcium (Ca)	(Max)	10.80%	Cobalt (Co)	(Min)	26 PPM
Phosphorus (P)	(Min)	6.40%	Copper (Cu)	(Min)	4,000 PPM
Salt (NaCl)	(Min)	14.50%	Manganese (Mn)	(Min)	2,400 PPM
Salt (NaCl)	(Max)	17.40%	Selenium (Se)	(Min)	100 PPM
Sodium (Na)	(Min)	5.50%	Selenium (Se)	(Max)	120 PPM
Sodium (Na)	(Max)	6.50%	Zinc (Zn)	(Min)	6,400 PPM
Potassium (K)	(Min)	2.00%	Vitamin A	(Min)	320,000 IU/lb
Magnesium (Mg)	(Min)	4.00%	Vitamin D3	(Min)	40,000 IU/lb
Sulfur (S)	(Min)	2.90%	Vitamin E	(Min)	960 IU/lb
Sulfur (S)	(Max)	3.40%	Biotin	(Min)	240 mg/lb

Ingredients: Monocalcium Phosphate, Dicalcium Phosphate, Salt, Organic Dehydrated Kelp Meal, Potassium Sulfate, Magnesium Sulfate, Magnesium Limestone, Ground Limestone, Magnesium Oxide, Organic Vegetable Oil, Zinc Sulfate, Copper Sulfate, Hydrolyzed Yeast, Yeast Extract, Biotin, Sodium Bentonite, Selenium Yeast, Manganese Sulfate, Vitamin E Supplement, Zinc Amino Acid Complex, Copper Amino Acid Complex, Manganese Amino Acid Complex, Ethylenediamine Dihydriodide, Vitamin A Acetate, Vitamin 03 Supplement, Cobalt Glucoheptonate, Cobalt Sulfate and Sodium Selenite.

FEEDING DIRECTIONS: Feed Dr Winter's Equine Essentials free choice or incorporate into the grain mix for horses. Consumption should not exceed 0.055 lb which delivers the maximum level of 3 mg selenium per head per day.

Net Weight 50 lbs (22.7 kg)

SEA-90 LIVESTOCK SALT

		Redmond 10 Fine	Kansas Independent Salt Co.	White Stock Salt
Mineral Source	Fresh, pristine Sea of Cortez ocean water	Ancient underground salt mine	Ancient underground salt mine	Multiple artificial sources
Salt (NaCl)	75 - 80%	90 - 95%	95 - 97%	98% - 100%
Calcium (Ca)	1.0 - 1.5%	0.35 - 0.85%	0.0 - 1.0%	-
Magnesium (Mg)	0.5%	0.06%	0.0 - 0.5%	-
Sulfur (S)	0.5%	0.07%	-	-
Potassium (K)	0.3%	0.03%	-	-
Phosphorous (P)	0.003%	0.002%	-	-
Iron (Fe)	25 ppm	300 ppm	-	-
Boron (B)	15 ppm	1.07 ppm	-	-
Copper (Cu)	4 ppm	3 ppm	-	-
Manganese (Mn)	4 ppm	5 ppm	-	-
Chromium (Cr)	2 ppm	0.16 ppm	-	-
Zinc (Zn)	1 ppm	1 ppm	-	-
Selenium (Se)	1 ppm	0.23 ppm	-	-
Yttrium (Y)	1 ppm	0.04 ppm	-	-

Sea-90 provides 5x the minerals and trace elements vs. leading competitors.

The only mineral used by Dr. Maynard Murray, Sea-90 is the clear choice for your soil, plants, and animals.

Leave ancient earth salts as ancient history – choose fresh, pure Sea-90 Ocean Minerals today!

**SEA-90 INCLUDES
70+ ADD'L ELEMENTS!**

TO ORDER: 612-756-1232 or 712-363-3392

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Scan for more information:



Agriculture **SOIL MINERALIZER+**

FOR BROADCAST SPREADING

APPLICATION DIRECTIONS

Broadcast: Spread 50 - 100 lbs. per acre in the late fall and / or early spring.

Maximum of 150 lbs. per acre per year.

Fruit Trees: Spread 1 lb. for every 10 feet of tree height around the drip line of the tree.

Compost: Add 5 lbs. per 2,000 lbs. of compost.

Produce Garden: Top-dress 1 lb. per 100 sq. ft. in the early spring.

Flowers and Grasses: Top-dress about 1/3 lb. per 100 sq. feet.

Sea-90 for Soil has a cubic foot weight of 65 lbs.

Sea-90 is suitable for organic farming or conventional farming.

Sea-90 for Soil is a broadcast grain size, and is available with organic humate ("Plus") or without ("Raw / "Pro")



ALSO
AVAILABLE AS
LIQUID
CONCENTRATE



Scan for more information:



Agriculture **FOLIAR MINERALIZER**

FOR SPRAYING, DRIP IRRIGATION, AND HYDROPONICS

APPLICATION DIRECTIONS

Foliar (Pasture & Hay): Spray 5 lbs. per acre dissolved in 20 gallons of water at green-up and after each rotation or cutting.

Foliar (Crops, Vegetables & Small Fruits): Spray 3 lbs. per acre dissolved in 20 gallons of water every 14 days throughout the growing season.

Gardening: Add 1 tsp. per gallon of water and spray until runoff; apply every 1-2 weeks.

Hydroponics and Drip Irrigation: Add to nutrient solution at a rate of 1 lb. per 100 gallons or 1 tsp. per gallon.

Liquid Row Support: Add 6 lbs. per acre into starter solution in furrow at time of planting.

Compost Tea: Add 1 tsp. per 5 gal., pre-brew.

Limit brew time to 24 hours.

TO ORDER: 612-756-1232 or 712-363-3392

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IDAHO WHOLE APPLE

APPLE CIDER VINEGAR



Here's the **"Best Kept Secret"** regarding giving ACV to livestock! Just about everyone in our business is quickly learning that the raw (unpasteurized) ACV made from Idaho whole apples is the best money you will ever spend on your livestock. **Now it just got better!**

WHAT MAKES THIS VINEGAR SO SPECIAL?

- 1) First, it's made in Idaho, where the best apples in the US are grown and the climate is perfect. **ONLY** local apples!
- 2) Secondly, all the other commercial vinegars are made from either juice or, worse, juice concentrate. The real medicine comes from the rest of the apple, the skin, meat and core.
- 3) At Golden Valley Vinegar the emphasis is on making the strongest (60 grain) vinegar. It has the best taste, the most live enzymes, and the most beneficial microbes possible. Thirty years of scientific study and experimentation when into achieving the very best!
- 4) Taste it yourself and you will know the difference! It's very good for us too!



GIVING IT IS EASY!

Dosing Recommendations

	Dairy Cows 4-6 oz/day. For Mastitis or high SCC continue at the higher dose (1 oz per 100# of body weight) for 6 weeks.		Beef Cattle 3-6 oz/day. General rule of thumb: 1 oz daily per 250# body weight. This will vary depending on body weight, stress level, season, quality of ration, and overall health condition.
	Canine Calf 3-6 oz/day. Will vary depending on body weight, stress level, season, quality of ration, and overall health condition. General rule of thumb: 1 oz daily per 250# body weight.		Swine If possible mix 1-2 cups ACV with 20 gallons of drinking water. Or offer in pan free-choice 50:50 with water. Mix with molasses too (see above). Goal: 1/2-2 oz ACV/day.
	Sheep 1/2-1 oz/day. Offer free-choice 50:50 mix with water.		Kids/Lambs 1/2-1 oz/day. Side water 3 days of age.
	Goats 1/2-1 oz/day. Offer free-choice 50:50 mix with water.		Poultry Mix 1 oz of ACV/gallon of water or free-choice at 50:50 w/ water.
	Horses Offer in water, ideally 2-4 oz/day. Sprinkle on hay or 50:50 free-choice in pan. Used for colic, founder, or other therapy.		Rabbits Mix 1 oz of ACV/gallon of water or free-choice at 50:50 w/ water.

GOOD NEWS abounds for livestock producer who are hoping to be able to acquire the very best in bulk ACV and to do so at very affordable price. Of the dozens of ways to give it, in the water, on the feed or free choice it all works. Find the easiest way! This vinegar ships by the 275-gallon tote and shipping costs shrink rapidly with bulk orders. It's almost like you are getting the second tote shipped free if two or more totes are ordered!

TO ORDER: 612-756-1232 or 712-363-3392

www.livestockessentials.com

Grass-oline

A high energy supplement made with fermented molasses. Described as a hydrogen donor in the Krebs cycle. Contains therapeutic levels of zinc, copper, cobalt, iodine, high levels of vitamin A, D3, and E as well as the essential amino acid thiamine. Use Grass-oline in addition to vinegar if you need more energy. Energy is always a limiting factor, especially in an all grass environment. Check out this economical energy source. For only 10 to 15 cents per day (for cattle) Grass-oline provides more energy than straight molasses.

All ingredients in Grass-oline are organic.

FEEDING RATE: 1oz per 1,200 LB body weight

2000 lb. - 194 gal tote
570 lb. - 55.02 gal barrel
50lb. - 4.83 gal bucket

Apple Grass-oline

Apple Grass-oline is vinegar and Grass-oline mixed together. This is a good way to feed Grass-oline free choice as the vinegar will limit the livestock's consumption of Grass-oline.

FEEDING RATE: 6oz per 1,200 LB body weight

2374 lb. - 275 gal. tote
475 lb - 55 gal. barrel
43.25 lb - 5 gal. bucket

Natural Soda

Natural Soda is an OMRI listed sodium bicarbonate that is not as bitter as many bicarbs are. Steve Campbell recommends feeding natural soda free choice as a barometer. As long as the animals consumption is moderate (example: 1 oz per day for cattle) you know everything is going well. If consumption spikes you know something is stressing your animals. Natural Soda will keep them alkaline until you fix the problem!

50 lb bag



TO ORDER: 612-756-1232 or 712-363-3392

www.livestockessentials.com

Return on Investment

Grass-oline and Apple Cider Vinegar

One of our dealers from Wisconsin recently purchased 12 head Holstein steers weighing 621 pounds.

He gate cut the steers into four groups for a 90-day trial. He fed each group 10 pounds grain (cracked corn and bean meal) per day and free choice hay. The hay was a mixture of fair quality grass and grass and alfalfa mix. For mineral supplement, each calf got 1 ounce sea-90, 1.5 ounces ProMin, and 1 ounce of Will Winter's Gold Cattle mineral.

Group 1 was the control group, getting no ACV or Grass-oline.

Group 2 got ½ ounce of Grass-oline.

Group 3 got 3-4 ounces ACV.

Group 4 got 3-4 ounces ACV and ½ ounce Grass-oline.

Due to a family emergency, he couldn't weigh the steers exactly at the 90 day mark. He had to go 8 extra days, the weights were shrunk 3 percent before calculating average daily gain.

Weight Gain results were

Group 1 : 2.08 pounds per day

Group 2 : 2.34 pounds per day

Group 3 : 2.20 pounds per day

Group 4 : 2.84 pounds per day.

To figure the return on investment lets say a pound of weight gain is worth \$1.50 (conservative for 2025 prices).

The cost of feeding Grass-oline to Group 2 was \$0.046 per day. The 26 pounds extra weight gain was worth \$0.39 MORE THAN 800% ROI!

The cost of feeding ACV to Group 3 was \$0.152 per day. The .12 extra pound weight gain was worth \$0.18. 118% ROI.

The cost of feeding ACV and Grass-oline to Group 4 was \$0.198 per day. The .76 lb. extra weight gain was worth\$ 1.14. ROI 575%.

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ProMin

A powerful detox clay containing Montmorillonite and Zeolite clay. Zeolite (Clinoptilolite) is also a naturally occurring colloidal clay mineral (hydrous phyllosilicate smectite) that contains a blend of minerals comprised of electrolytes and trace minerals, and more notably than Montmorillonite is that Zeolite has a VERY strong Cation Exchange Capacity of around 250 (CEC) to grab, bind & remove heavy metals, toxins, nitrogen, methane, ammonium, and more. Zeolite allows for increased digestion time and reabsorption of fluid in the intestinal tract leading to optimum absorption of nutrients, minerals, and protein thus optimizing maximum growth while reducing cause for illness. Zeolite does not expand, and has a porous 'cage like' structure which is commonly referred to as nature's 'rock sponge' being able to hold over 50% of it's weight in water, gases, toxins, and odors to boot.

50 Pounds

By combining the two minerals, you get the benefits of both. They both provide digestive and intestinal support with multiple minerals and electrolytes. Montmorillonite has the capability for swelling and expanding which acts as an all absorbing gel or pudding like consistency. Zeolite does not swell to act as a scrubber of the intestinal tract, but is more of an absorber and adsorber of heavy metals, toxins, and microbes with 5 times the strength of Montmorillonite.

Recommended for dairy or other higher stress situations



Desert Dynamine

A detox clay containing Montmorillonite clay.

Montmorillonite (Brown Clay) is a naturally occurring colloidal clay mineral (hydrous phyllosilicate smectite) that contains a diverse mineral content focused on electrolytes, trace minerals, and most distinctly, a naturally occurring negative ionic charge called a Cation Exchange Capacity of 40 to 45 (CEC) which act like a 'magnet' to trap, bind, and remove heavy metals and toxins.

This negative charge directly contributes to absorption of trace minerals while acting as a catalyst, improving digestion and protein synthesis for optimal growth as well as detoxifying the intestinal tract and the animal feed of toxins. Montmorillonite expands and swells to allow for maximum intestinal reach in all the bends and nooks and crannies further allowing for optimized digestion thus leading to larger, stronger, and healthy animals.

Created by Jerry Brunetti

50 Pounds



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EMERGENCY CALF KIT

EMERGENCY CALF KIT INCLUDES:

1 50lb. Bucket Grass-oline 1 Quart AD&E Drench
1 Quart Lactic Culture 1 5lb. Vitamin C
1 - 10 lb. PDQ Rescue 1 8 oz. Red Scour Stop

All natural health kit to keep on hand for newborns, incoming cattle, weaning, and emergencies. Saving one calf will more than pay for the kit. Can also be used for goats, sheep, horses, and pigs. Includes feeding directions.

Comes with Will Winter's Holistic Calf Protocol.

Individual items can also be purchased separately.



RED SCOUR STOP



This is a super-probiotic concentrate which is used to get the digestive tract back into condition and to make it strong enough to repel the pathogens that cause scours, dysentery, coccidiosis, or other digestive upset. This helps repopulate the gut with non-pathogens. It can be mixed with milk or any feed, or may be given orally via stomach tube or syringe. Repeat daily as needed based on symptoms.

Quart or 8 ounce

FEEDING DIRECTIONS: Give 2-4 cc to calves. ½ to 1 cc to kids, lambs, or piglets

PDQ RESCUE

Ingredients :

Soluble Seaweed powder, Ascorbic Acid, Manganese, Amino Acid Chelate, Copper Methionine Hydroxy Analogue Chelate, Zinc Methionine Hydroxy Analogue Chelate, Fossil Shell Flour, and Cobalt Sulfate,

Feeding Directions:

Mix 1/2 cup into 1-5 gallons of room temperature or warmer water and stir a few seconds until fully dissolved. Then add this amount to each 100 gallons of drinking water. Repeat dosage as water is consumed do this for seven days.

Maintenance Level:

For animals under continual stress, exposure or adverse conditions, use a dose of 4 oz per 100 gallons of water.

Guaranteed Analysis :

Zinc 6000 ppm
Manganese 4800 ppm
Copper 2500 ppm

Net Weight : 10 lbs bags

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ALL NATURAL FLY AND PARASITE REPELLENT CONCENTRATE

A powerful fly deterrent made with neem oil, karanja oil, ACV, garlic essential oil and other proprietary essential oils. Neem oil and karanja oil give the spray a staying power that will last several days. Mix spray at a ratio of 1 to 10 with mineral oil or vegetable oil.

Spray on animals or put in oiler.

Approved for Organic Use

Gallon or Quart

Mineral Oil

Mineral Oil is used for diluting ALL NATURAL FLY AND PARASITE REPELLENT Spray.
Can be used for organic.



NATURAL LIVESTOCK EMERGENCY CARE

WE RECOMMEND YOU KEEP THESE ESSENTIALS ON HAND AT ALL TIMES

- | | |
|--|--|
| 1) SYRINGES (1CC-60 CC) + NEEDLES (12, 14, 18 GA.) + I.V. DRIP KIT*** | 13) KETOSIS/MILK FEVER: Molasses, AD & E Drench, IV Calcium *** |
| 2) ORGANIC IODINE/ SCRUB SOAP | 14) CALF SCOURS: Red Scour Stop, Apple Cider Vinegar, AD&E Drench |
| 3) SCALPEL BLADES /TROCAR (for bloat) | 15) DETOXIFICATION: Activated Charcoal, Desert Dynamine, PDQ Rescue |
| 4) BLOAT TUBE (rubber or plastic) also for DRENCHING | 16) INSECT/PARASITE: Apple Cider Vinegar, Salt Mate, Sulfur |
| 5) BALLING GUN (for pills or boluses) METAL DRENCH SYRINGE ** | 17) MINERAL OIL or VEGETABLE OIL (For bloat)** |
| 6) RECTAL THERMOMETER (digital is best)* | 18) INTERNAL PARASITES: Diatomaceous Earth, Kelp |
| 7) CALVING CHAINS OR STRAPS | 19) PNEUMONIA/RESPIRATORY: PDQ Rescue, Vitamin C, Zinc |
| 8) INJECTABLES*** ~ VIT A & D & E, ~ B-COMPLEX, ~ B-12, ~ VIT C, Multi-Min 90*** | 20) UDDER CARE/MASTITIS: Udder Soft, Count Down, Bag Liniment, Injectables |
| 9) URINE/BLOOD TEST STRIPS / pH STRIPS*** | 21) STRESS/WEAKENED/DOWNER: AD&E Drench, PDQ Rescue, ACV |
| 10) ORAL ELECTROLYTES- PDQ Rescue, ADE & E Drench, Molasses, ACV* | |
| 11) PINKEYE TOPICALS (Das Mucken, Salt Mate* for flies) | |
| 12) DIGESTIVE/RUMEN PROBIOTICS, AD&E Drench, Lactic Culture | |

* Indicates a product from Livestock Essentials
** Indicates that these products are widely-available.
*** Indicates a product available from a vet clinic or vet supply house.

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Refractometer / Brix Meter

0-32% Brix, Automatic Temperature Compensation

Easy to use - Accurate - Test Takes About 1 Minute
Compact and Portable, No Batteries - One Moving Part
Durable Protective Case - Will Last Practically Forever
Large Scale - Easy to Read
Precision Machined Aluminum Barrel
Monocular Eyepiece - Tight Focus

Brix Meter - \$95

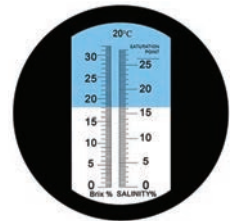


Satisfaction Guaranteed - 5 Year Warranty against defects!

Each refractometer includes: Hard shell case, calibration screwdriver, pipette, wipe cloth, complete instruction sheet, laminated Brix chart, and the High Brix Techniques brochure.

WHY IT IS CRITICAL TO MEASURE THE BRIX LEVELS:

The BRIX INDEX is perhaps the most important test you will ever perform for your farm, or, for that matter any fruit, vegetable or green that you are reading you get from the juice of any plant, fruit or vegetable is the indication of the DENSITY of that plant.



The sap of the plant is like our blood. If it is water and thin, that is an indication of poor health. Brix is related to the sugar level of the sap, and that is related to the ability of the plant to take in sunlight and CO₂ and, via the process of photosynthesis, convert it into a long-chain hydrocarbon, which is sugar. All the plant phytonutrients, vitamins, hormones and thousands of other powerful "medicines" are created within the living plant by combining chains of sugars. A low Brix plant will not provide ENERGY to the person or animal that eat it, nor will a low Brix plant have the necessary plant medicines that act as wormers, "antibiotics", immune tonics, antioxidants and other vital nutrients.



Sap Extractors - \$35

and...SAP EXTRACTORS

UNBREAKABLE PRECISION-WELDED STAINLESS STEEL TUBING ON A LARGE U.S. MADE VICE GRIPS

You can use other squeezers or devices but nothing gets the sap out of a leaf, stem, fruit or vegetable like this squeezer. Take a ball of plant material, roll it between the palms, and clamp it down with the powerful jaws.

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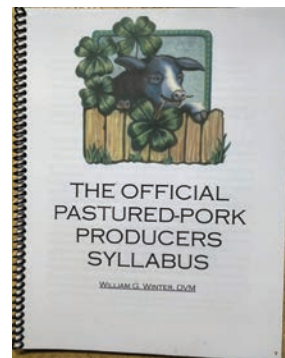
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The Official Pastured Pork Producers Syllabus

A comprehensive guide to raising pastured pork. In this book, Will tells not only how to raise pastured pork but also why pork should be raised on pasture and how to market it. Includes feed rations and information on health supplements. 92 pages.

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If you're reading this you hold the answer for some of health's most challenging mysteries. The solutions included here help mitigate environmental stressors unheard of just 50 years ago, restoring bio-energy, wellness, and life itself. Welcome to Essential Energy, where cutting-edge technology meets the wisdom of natural healing. Our international technology and development team doesn't just create products; they build solutions that amplify your health, vitality, and environment.

Why Essential Energy?

The world is awash in chaotic frequencies. These non-native Electromagnetic Frequencies (nnEMF) create electro-pollution that silently wreaks havoc on Nature's living world. If this is you, trust me when I tell you, you're not alone! That's where we come in. Our L.I.F.E. Technology changes the structure of modern-day electrical power, restoring balance to the environment through biophoton entrainment and harmonization. This approach optimizes your body's ability to heal and perform at its highest level.

Our mission? To empower you to thrive – not just survive. Whether you need to protect your home, energize your farm, or optimize performance, you'll find exactly what you need in these pages.

What Makes Us Different?

Many talk about blocking nnEMF. That's playing defense and just masks the symptoms. Essential Energy products transform light, creating harmonizing, beneficial frequencies that fuel life.

Our meticulously engineered products like the Essential Pro, Essential Elite and Essential Max- are infused with L.I.F.E. Technology to develop an environment where photons and frequency work for you. Our EMF SAFE FARM Certification Program ensures that food, livestock, and land are protected at the quantum level so they produce the most nutritious, healthy food possible.

And it's all for a greater cause - Essential Energy is a 508 (c)(1)(a) non-profit that helps design more EMF Safe places and educates people on how to steward all God has given them. Read more on the back page.

Science Meets Results

Backed by real-world testimonials, independent studies, and advanced research, our solutions deliver to help you achieve your goals. Our upgraded designs featuring mirror-finished stainless steel plates further enhance optical coherence, deepen harmonization, and raise life force energy.

The Journey Starts Now

This isn't just a product guide—it's a roadmap to a better, more energized future. Envision homes free from nnEMF stress, farms yielding nutrient-dense food, and individuals radiating vitality and clarity.

Welcome to Essential Energy—where light, frequency, and innovation converge to create a world truly worth living in. Our team is honored to be part of your journey.

Protect Your Farm, Boost Production & Earn the **EMF SAFE FARM** Certification

Earn your **EMF SAFE FARM** Certification by installing the Farm Guard or Ranch Guard.

This mark of excellence proves your commitment to top-tier, holistic agricultural stewardship—something more and more customers value when making buying decisions. Now, you can show them your care.

Welcome visitors with confidence.

Give EMF-sensitive guests peace of mind knowing your farm meets the EMF SAFE standard.

Certified Farms See Real Benefits:

- ✓ Increased fertility rates in livestock
- ✓ Thriving pollinators & soil microbes
- ✓ Higher yields & nutrient-dense crops
- ✓ Improved energy, growth, & production



How it Works

Step 1: Install Farm Guard (for small farms) or Ranch Guard (for large farms).

Step 2: Complete the 90 day launch—track results to verify performance.

Step 3: Earn the EMF SAFE FARM Certification, positioning your farm as a leader in sustainable agriculture.

Step 4: Start promoting your EMF SAFE FARM Certification to your customers!

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HAY CREEK HEMP

CHERRY WINE

CBD OIL



OUR MISSION: To provide the highest-quality, strongest, and most-wholesome CBDA oil that can be found. We strive for affordability as well as focusing on achieving noticeable, measurable results.

We believe that we produce the highest quality CBD oil that can be found. Our 30 ml/one oz. bottles contain OVER 3000 MG of unrefined, natural and organic CBDA.. In addition to the CBD oil from the hemp, we also extract oil from our organic sunflowers, cranberry seed mixing it along with organic coconut oil to make the cold extraction press flow and to enhance the maximum extraction of the FULL SPECTRUM oil. CBDA has been recognized as one of the most powerful of the entire CBD spectrum. We also have an all-natural, organic and very strong muscle/joint rub for topical use. You may also return your partial bottle for a FULL MONEY-BACK GUARANTEE if you are not completely satisfied.



We are located on organic family farms near Augusta, Wisconsin. In our rural Amish community we share planting, cultivating, harvesting and production with 28 Amish families. We started over two years ago with only two acres of organic hemp, we then expanded to four acres and we hope to double that production with the next crop. Our plants are carefully hand-harvested, then dried in our organic greenhouses, hand-trimmed and then processed via a cold press.



HEALTHY SOIL — ORGANIC PRODUCTION: Our farm land has never been farmed commercially with chemicals and has been in organic practice for over 40 years. There are no pesticide residues, and the soil has been improved in nutrient-density and high biological value using regenerative techniques, composting and cover crops. We use no artificial chemicals and our plants get healthier, and more nutrient-dense every year. **EVERYTHING HAS BEEN DONE BY HAND:** We do not use combines, tractors or moldboard plows, in fact no machines are used in our all-natural

production methods. We watch the plants to know exactly when to cultivate, water, nurture and harvest for maximum vitality and production within the plant. We follow our spiritual guidelines regarding our desire to honor the land, honor the plant spirits as well as the energy of the sun and rain.

WE USE ONLY CHERRY WINE HEMP SEEDS: This is the variety of hemp that wants to grow in this locale and climate and it's renowned as the variety that produces the highest percentage of CBDA cannabinoids. Cherry Wine also produces a leaf and seed crop that contains close to zero THC (less than 0.01%_making it legal to possess and use in all 50 states. Our CBD is always FULL SPECTRUM, pure with organic seed oil.



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Practical Livestock Solutions Order Page

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Dr Winters Silver Mineral & Vitamin (Hair Sheep) 50 Pounds	
Dr Winters Silver Mineral & Vitamin (Wool Sheep) 50 Pounds	
Dr Winters Complete Swine Mineral & Vitamin Mix 60 Pounds	
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Dr Winters Equine Essentials Vitamin & Mineral Supplement 50 Pounds	
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Idaho Whole Apple Cider Vinegar Organic 55 Gallon Barrel 475 Pounds	
Idaho Whole Apple Cider Vinegar Organic 5 Gallon Bucket 43.25 Pounds	
Idaho Whole Apple Cider Vinegar Conventional 275 Gallon Tote 2374 Pounds	
Idaho Whole Apple Cider Vinegar Conventional 55 Gallon Barrel 475 Pounds	
Idaho Whole Apple Cider Vinegar Conventional 5 Gallon Bucket 43.25 Pounds	
Grass-oline Organic Tote 231.75 Gallon Tote 2000 Pounds	
Grass-oline Organic Barrel 55.02 Gallon Barrel 570 Pounds	
Grass-oline Organic Bucket 4.83 Gallon Bucket 50 Pounds	
Apple Grass-oline 275 Gallon Tote 2374 Pounds	
Apple Grass-oline 55 Gallon Barrel 475 Pounds	
Apple Grass-oline 5 Gallon Bucket 43.25 Pounds	
Natural Soda 50 Pounds	
Sea 90 Premium Mineral Salt 25, 50, 2000 Pound Loose	
Sea 90 Premium Mineral Salt with Garlic 25, 50, 2000 Pound Loose	
Pro Min Detox Clay 50 Pounds	
Desert Dynamine Detox Clay 50 Pounds	
Calf Kit (Grass-oline, Lactic Culture, PDQ, AD&E, Vitamin C, RedScour Stop) 74 Pds	
Red Scour Stop per Quart or 8 Ounces	
Crop Products	
Sea 90 BioWave Max 5 Gallon, 2 1/2 gallons	
Sea 90 Liquid Mineralizer Concentrate 1 or 5 Gallons	
Sea 90 Lightning Rescue 1 or 5 Gallons	
Sea 90 Soil Mineralizer Plus 50 Pounds	
Sea 90 Foliar Mineralizer 50 Pounds	
Other Products	
Das Mucken Fly Spray per Gallon 10 Pounds, or per Quart 4 Pounds	
Mineral Oil per Gallon	
PDQ Rescue 10 Pounds	
Salt Mate	
Farm Guard	
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Hay Creek CBD Oil	
Pork Producers Syllabus Book	
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Sap Extractor	
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Please include your name, mailing address, shipping address, phone number. Please indicate the size of the product that you are ordering.

Is the delivery address residential or business? Residential will include an additional fee from the freight company.

Do you have the ability to unload product, such as a skid loader, pallet forks, etc? If not, additional fee is added by freight company.

We will calculate the most economical shipping rates possible for you.



Will Winter, DVM
willwinterdvm@gmail.com
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