

CUSTOM FORMULATION TO **IM-PRUV-ALL** MINERAL AND VITAMIN NUTRITION

Feed testing to achieve proper balancing of livestock rations is essential to profitable milk and meat production. Minerals and vitamins must be present in adequate amounts and in proper balance of efficiently utilize these balanced rations. Whenever a feeding ration is changed, a new and distinct formulation is needed to provide adequate mineral and vitamin nutrition.

Many problems of animal production, breeding, and health result from an imbalance of minerals and vitamins. Ration requirements vary for different kinds and sizes of livestock. Through a Custom Formulation, based on the present livestock ration and animal requirements, the proper level and balance of these essential nutrients can be achieved. Normally, underfeeding or overfeeding of minerals and vitamins reduces the efficient utilization of the ration which costs more money than the minerals and vitamins needed to balance the ration. A Custom Formulation to Im-Pruv-All Mineral and Vitamin Nutrition formulates for each specific feeding ration and considers the requirements of the animals being fed (including health and breeding problems). It is a custom, computerized formulation that truly informs a livestock feeder of those minerals and vitamins his animals need to get efficient feed utilization and production.

This program has been developed over a seven year period. Thousands of cattle have been fed minerals and vitamins on a custom formula basis. It is well recognized and documented that these nutrients must be present in proper amounts in livestock rations. A Custom Formulation to Im-Pruv-All Mineral and Vitamin Nutrition will consider each of the nutrients listed below. Following are some of the problems of animal health and production that can occur from overfeeding or underfeeding of these essential nutrients. An extreme shortage or excess of any of these can cause acute illness or death.

Nutrient	Shortage	Excess
Calcium	Poor bone development, restricted growth and production, tetany.	Poor phosphorus utilization, milk fever, decreased trace element utilization.
Phosphorus	Decreased appetite; stiff joints; weak heat periods; poor feed utilization and production.	Creates calcium deficiency, urinary calculi.
Magnesium	Tetany; nervousness.	Similar to excess calcium.
Potassium	Restricts growth and production; dehydration.	Tetany; diarrhea.
Sodium [salt]	Dehydration; reduced feed intake.	Excessive water intake; diarrhea.
Sulfur	Poor protein utilization; poor hair coat.	Effects copper utilization.
Manganese	Impaired growth, low conception rates, poor energy utilization.	Staggers; muscular weakness; weak sex drive.
Copper	Anemia; poor conception, faded hair; weak offspring; poor bone development.	Liver damage; kidney damage [bloody urine].
Cobalt	Depraved appetite; unthrifty anemia; fatty liver.	Blood cell imbalance; loss of weight; depraved appetite.
Zinc	Reproduction problem; rough hair coat; skin diseases.	Creates copper deficiency.
Iron	Respiratory problems, anemia; fatigue; listlessness.	Poor utilization of other trace elements; watery eyes; reduces gains and production.
Molybdenum	Decreased fiber digestion; similar to copper toxicity.	Diarrhea; created copper deficiency; causes weight loss.
Iodine	Goiter or big neck, dead offspring; low production.	Runny nose; irritability; bloody diarrhea; skin disorders.
Vitamin A	Runny eyes; blindness; skin diseases; irregular heat periods; abortions.	Fragile bones; swelling of joints; loss of hair.
Vitamin D	Poor calcium and phosphorus uptake; milk fever.	Diarrhea; thirst; soft hooves and bones.
Vitamin E	Reproductive failure; prolonged gestation; weak or dead offspring; milk flavor.	None known.
Vitamin K	Internal bleeding; hemorrhage.	Excessive blood clotting.

A Custom Formulation to Im-Pruv-All Mineral and Vitamin Nutrition gives our customers the knowledge and tools to more profitably feed the proper minerals and vitamins to their livestock.

THE **IM-PRUV-ALL** PROGRAM MAY BE YOUR ANSWER!

WEILER BROS. INC. **IM-PRUV-ALL**

Lanc., Lebanon & Berks Co.

Ray Weiler 717-733-4302

Clarence Weiler 717-866-6710

Melvin R. Weaver 717-569-6576

Chester County

Richard Breckbill 215-932-3307

York County

Bair's Mill 717-252-3114

Washington County

Hagerstown, MD area

Carl Eby 301-842-2630

Columbia, Luzerne,

Montour, Northumberland

Dale A. Brown 717-752-5387

Union & Snyder Counties

Norman Brouse 717-524-5454

DeKalb plot days set

DeKalb Seed Company will be holding plot days in the upcoming weeks. On October 4, Jerry Roman will host an open house from 9 a.m. to 1 p.m. at the farm of Daniel Beeler. To get to the farm, take Route 896 to Nine Points and go 3/4 of a mile south on Route 896.

On Monday, another field day will also be held three miles west of Ephrata on Route 322 at the DeKalb plot there. The time is 12:30 p.m. to 3 p.m.

On October 5 from 10 a.m. to 2 p.m. dealer Ed Arnold will host an open house at Arnold Acre Plot. To get to the plot, take 422 east of Lebanon for one mile. At the light, go left on Prescott Road to the first crossroad and turn left.

This coming Wednesday, Paul Campbell will be the host of an open house at the farm of Earl Hershey. Take Route 272 south of Lancaster to Little Britain. Go left at Little Britain to the first road, then turn left to the plot. The time is 9 a.m. to 1 p.m.

Paul Campbell will host a plot day on October 8, also, from 9 a.m. to 1 p.m. The plot is south of Lancaster on Route 324. Follow the road for three miles to get to the plot.

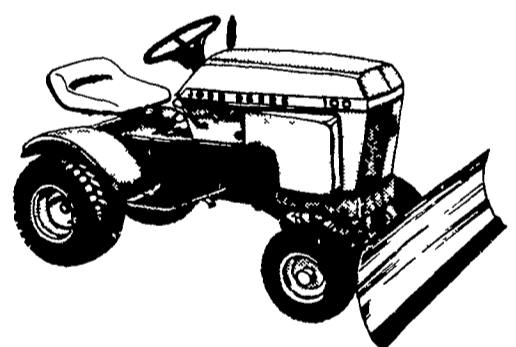
On October 12 from 9:30 a.m. to 12 p.m., C. Henry Brenneman will host a field day at plot one near Lititz. To arrive at the plot, go west of Lititz and turn left at Lincoln Avenue. The plot is 1/2 mile on the right.

C. Henry Brenneman will again host a field day on October 12 from 1 - 4 p.m. at plot two. To get to the plot, go towards Lancaster on the Route 30 by-pass. Turn off on Prospect Road to old Route 30. Turn left past the Catholic Convent to the plot.

On Wednesday, October 13, at 10 a.m. to 2 p.m., Bernard Bengler will host a field day on the farm of Dale Bucher. The Bucher farm can be reached by taking Route 501 to Schaefferstown.

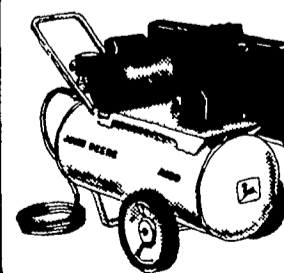
At Schaefferstown, go west on Route 897 to a "Y" in the road. Keep right to the first farm on the right. This will be the Bucher farm.

Field days will be continuing in the upcoming weeks. Those dates will be announced in the future.



Lawn Tractor with Snow Blade

Keep on top of winter weather with a John Deere Lawn and Garden Tractor with front-mounted blade. The tractor is available in six models, from 8 to 19.9 horsepower. The capacity-matched blade comes in sizes 42 to 54 inches wide and has the muscle you need for any snow removal chore. Steel box-beam construction. Angles left or right. Protective rubber cutting edge available.



Air Compressors

Put air power to work with a John Deere Compressor Models from 1/3 to 2 hp. Spray paint, operate air tools, inflate tires and let compressed air provide the muscle.

A. B. C. GROFF, INC.
New Holland 717-354-4191

LANDIS BROS. INC.
Lancaster, PA 717-393-3906

ADAMSTOWN EQUIPMENT INC.

Mohnton, RD2, PA 19540
(near Adamstown)
Phone [215] 484-4391