



ANSWERING THE DEMAND
for
BETTER HEALTH & LONGEVITY
BETTER PERFORMANCE & REPRODUCTION
through
BETTER NUTRITION
with
SUPERIOR LIVESTOCK NUTRITIONAL SUPPLEMENTS

THE NEED: Vitamin/Mineral Supplementation has become a must in the livestock industry for a number of reasons. Included among these reasons are improved genetics, increased performance expectations, confinement housing, weather, water pollution, molds, feed quality and availability.

Twenty-Six minerals are known to be required by at least some animal species. The include the following:

MAJOR ELEMENTS

TRACE OR MICROMINERALS

Calcium	arsenic	Iodine	Nickel
Phosphorous	Boron	Iron	Selenium
Potassium	Cadmium	Lead	Silicon
Magnesium	Chromium	Lithium	Tin
Sodium	Cobalt	Manganese	Vanadium
Sulfur	Copper	Molybdenum	Zinc
Chlorine	Flourine		

PRODUCT INFORMATION: Beef and Dairy Supplements

All supplements contain calcium and phosphorus in various ratios designed to be used as per the production requirements of the animal and it's feed composition individually or combined. They have to do with skeletal structure, milk production, breeding, cleaning, energy, etc.

All supplements contain the other major minerals of magnesium, sulfur, and potassium. Individually or combined, they have to do with milk production, butterfat production, nervousness, watery eyes, diarrhea, poor energy metabolism, 'Grass Tetany', etc..

All supplements contain the trace minerals iron, zinc, copper, cobalt, and manganese in a chelated form, as well as, an inorganic form. Typically chelates have been shown to be the most effective in being absorbed into the bloodstream assuring excellent availability of these elements. Individually or combined, these elements have to do with breeding, anemia, disease resistance, immune system response, energy production, heat failure, mastitis, scours, foot problems, etc.

Other trace minerals included are iodine and selenium,. Salt is included in some supplements, as well. However, not all and always at less than 10%. These elements individually or combined effect retained placentas, reproduction, bone formation, milk production, cell oxidation rate, metabolic rate, foot problems, solubility of protein blood neutrality, white muscle disease, etc.

All supplements contain kelp meal as a rich source of a wide spectrum, naturally chelated mineral base, as well as, a source of naturally occurring vitamins and amino acids. Kelp contains over 60 minerals, more than 12 vitamins,, including E, A, C, B12, and Thiamin, and 21 amino acids. It helps increase regularity of heat cycles, increases the number and durability of sperm, improves conception rates, as well as, assists in more efficient feed utilization.

All supplements contain probiotics. Probiotics contain specific strains of bacteria (Lactobacillus acidophilus) which will implant or grow in the intestine producing lactic acid to help in the control of pathogenic organisms and assist with better absorption of nutrients. Probiotics are necessary when antibiotics have been used, the animal is sick or recovering from an illness, and/or are under stress for various reasons such as hot or cold weather, calving, weaning, muddy lots, etc.

All supplements contain the major vitamins of A, D, and E to assure adequate availability of these vitamins. Various B vitamins are. also. included.

Available, as well, for the customers using these supplements is our computer ration balancing service.

GENERAL BEEF SUPPLEMENTS:**TYPICAL ANALYSIS**

		MB31	MB11	MBHP	FESCUE EQUALIZER
Calcium	Maximum	16.5	14.5	7.5	15.0
	Minimum	15.0	12.5	6.5	14
Phosphorous	Minimum	5.0	12.5	15	7.0
Magnesium	Minimum	5.0	5.0	5.0	5.0
Sulfur	Minimum	2.0	2.0	2.0	2.0
Potassium	Minimum	1.0	1.0	1.0	1.0
Salt	Maximum	9.5	9.5	5.0	9.5
	Minimum	8.5	8.5	4.0	8.5
Zinc	Minimum	.5	.5	.5	.5
Iron	Minimum	.05	.05	.05	.5
Copper	Minimum	.10	.10	.10	.13
Manganese	Minimum	.03	.03	.03	.03
Cobalt	Minimum	.003	.003	.003	.001
Iodine	Minimum	.03	.03	.03	.03
Selenium	Maximum	.003	.003	.003	.003
Vitamin A	IU/lb.	187,500	187,500	187,500	200,000
Vitamin D	IU/lb.	62,500	62,500	62,500	62,500
Vitamin E	IU/lb.	150	150	150	200

Note: Normal intake should be in the 2-4 oz./head/day range on most supplements. Supplements can be fed free-choice or force-fed in a grain mix. The MB31 would typically be used when grass is the forage source. MB11 would typically be used when legumes makes up at least 50% of the forage source, along with grass. MBHP would typically be used when legumes are the forage source. The Fescue Equalizer should be fed when fescue is the forage source. This supplement has been specifically designed to be fed with fescue.

GENERAL DAIRY SUPPLEMENTS: TYPICAL ANALYSIS

		MB3	MB2	MB2D	MBHP	MB13
Calcium	Maximum	20.0	17.0	13.5	7.5	5.5
	Minimum	18.0	14.5	11.3	6.5	4.5
Phosphorous	Minimum	6.0	6.0	12.0	15.0	15.5
Magnesium	Minimum	6.0	6.0	6.0	6.0	4.0
Sulfur	Minimum	4.0	4.0	4.0	2.0	2.0
Potassium	Minimum	2.0	2.0	2.0	2.0	2.0
Sodium	Maximum				5.0	7.5
	Minimum				4.0	8.5
Zinc	Minimum	.05				
Iron	Minimum	1				
Copper	Minimum	.025				
Manganese	Minimum	.03				
Cobalt	Minimum	.0025				
Iodine	Minimum	.02				
Selenium	Maximum	.003				
Vitamin A	IU/lb.	400,000				
Vitamin D	IU/lb.	125,000				
Vitamin E	IU/lb.	700				

Note: Normal intake will be in the 4-8 oz./head/day range depending upon the feedstuffs and production levels. It is recommended that the producer make use of the free computer ration balancing service offered to users of these supplements.

GENERAL SWINE SUPPLEMENTS:

The swine supplements are all designed to work with a corn and soybean base, when formulated, as recommended, all essential levels (protein, vitamins, minerals, amino acids, etc.) will be within or above the NRC requirements. Included in some supplements, along with the basics are: the mendenhaden fish soluble for immune system support, yeast cultures for better digestion, and performance, yucca shiggedera for odor control, the chelated trace minerals and kelp meal.

Supplements available:

Baby Pig Starter Supplement

Grower/Finisher Supplement

Sow (Both Gestating and Lactating) Supplement

For further information and recommendations, Contact:

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