

RAISING CALVES & REPLEACEMENT HEIFERS

Calf Creep Ration -

Cracked, Shelled Corn or Milo	1,115#
Course Ground or Rolled Oats	400#
Soybean Meal 44%	425#
White Salt	10#
CALF CREEP	50#
	<u>2,000#</u>

Feed up to 1# to 1.5# per day until weaning. After weaning, feed 1# to starter for each month of age. Provide drinking water, high quality legume hay, plain white salt, and DAIRY FC 11 W/SEL.

Six Months to Fifteen Months -

- Replacement heifer should gain between 1.5 to 1.8 lbs. (1.31 – 1.5 for small breeds) daily. This rate of gain will permit breeding at 15-17 months of age or 800 to 850 lbs.
- If adequate energy is not fed, puberty is delayed, and a 24-month calving age will not be possible. Feeding excess energy makes heifers too fat at breeding age and may reduce conception rates and milk production. The reduced milk production will be permanent due to the accumulation of fatty tissue in the mammary gland.
- Feed from 2-6 lbs. of grain mix according to body conditions and type of forage feed free choice. Also supply salt, premix and clean, fresh water free choice.
 - When older heifers are fed corn silage as the only 1-2 lbs. of soybean meal will be needed. Also, limit the amount fed to insure adequate growth. Over fattening will probably result from unlimited feeding corn silage.

Fifteen to Twenty-Two Months -

- Bred heifers up to the seventh month of pregnancy frequently need little supplement grain when fed forages with a NE_L value of .54 or higher. Example: Corn silage NE_L .695, wheatlage, NE_L .609, alfalfa hay NE_L .564.
- Provide salt premix and clean fresh water free choice.

Replacement Heifers (Last two months of pregnancy) may be placed in Dry Cow Lot. -

Two Examples of Replacement Ration (One Ton each) -

The RATION DRY MATTER should contain about 12% crude protein.

	14% Protein Heifer Developer	14% Protein Heifer Developer
Cracked Corn	1050#	1630#
Rolled/Course	600#	300#
Ground/Crimped oats		
Soybean Meal 44%	280#	20#
Salt	20#	50#
Heifer Developer	50#	

DRY COW PROGRAM

The dry cow period is the beginning of the next lactation and must be managed as effectively as the lactating cow periods. It has been shown that cows replace body condition more effectively in late lactation than in the dry period. Cows should be dried off in the condition they should be in at freshening. If weight gain is limited to the weight of the developing fetus, metabolic disorders will be kept to the minimum.*

*Normally no more than 100 lbs. should be put on during the dry period.

Management suggestion

- Dry period: A 55 day dry period is ideal. The acceptable range is 50-60 days. Heavy producers may need to have water and feed reduced to aid in the reduction of milk flow. Dry cows must be separated from the milking herd.
- Mastitis control and herd health programs must be implemented. Parasite control both internal and external must be adequate to maintain the dry cow condition.
- Milk fever is a metabolic disease that can be prevented with a controlled dry cow program. Calcium should be between 60-80 grams per cow per day and phosphorus at 30-40 grams per cow per day.
- Displaced abomasum are controlled by feeding as much long stem dry hay as possible with adequate calcium and selenium.
- Lead feeding helps to condition the rumen to the large amounts of concentrates necessary in early lactation. Begin 14 days before calving and increase grain 1/2 to 1 lb. per day until calving.
- Calving facilities must be clean, well bedded and adequately lighted. Calves should receive colostrum in the first 2-4 hours after birth.
- De-worming: Gro-Tec, Inc. recommends de-worming at the beginning of the dry cow stage, not at freshening as is commonly suggested. Parasites take nutrition from the cow's bloodstream which is the same source of nutrition supplied to the calf. Since the calf gains 60% of its body weight during the last 60 days before birth, the presence of worms will decrease the nutrition available to the calf at this critical time. De-worming can be repeated at freshening for continued protection.
- Observe cows frequently. Adjust energy intake when necessary to maintain desired dry cow condition. Maintain adequate water supply. Feed or offer approximately two ounces of loose white salt daily and offer mineral free choice.
- Gro-Tec, Inc. offers a specific designed Dry Cow product called Dry Cow Plus that should be fed at 4 oz. per head per day.

LACTATION PERIOD

Fresh Cow

- ❖ The fresh cow grain mix intake for the first three days after calving should be approximately 1 to 1.5% of body weight. Then increase grain allowance by 1 to 2 lbs. of body weight (28 lb. daily for a 1,400 lb. cow). This level should be reached within 10 to 14 days after freshening.
- ❖ Increase grain mix to 1 to 2 lb. daily beyond production needs as long as cows continue to increase in production.
- ❖ Limit most cows to a maximum grain mix intake of 25 % of body weight unless observed closely.
- ❖ The two most common deficiencies found in dairy rations are insufficient energy or shortage of phosphorus.
 - Energy can be short and limiting milk production when insufficient grain is being fed.
 - Phosphorus is a very critical element, shortages of which affect not only milk production, but also reproduction. A phosphorus shortage may result in cows no cycling, silent heats, poor conception, retained placentas and a host of other problems.*

Lactation

- ◆ It is as critical during lactation as it is for the whole life cycle of a dairy cow that you always make available clean, fresh drinking water, loose white salt and high quality grains and forages for maximum performance.
- ◆ Knowing the quality of the forages** you are feeding your lactating cow can be added performance for you when you balance them with the proper Gro-Tec Dairy Premix.
- ◆ When changing forages during lactation, it is important to change the diet over a two or three week period, if possible, which will cause less adverse conditions on your milk production.
- ◆ By the end of the lactation period the lactating cow should have put on all the weight lost during the early lactation. This will put her in the best condition going into the dry period.

* A Gro-Tec Dealer or Field Sales Manager can balance your milk cows' diet with the Gro-Tec Dairy Products to make sure your feeding rations are not deficient in any ingredient needed for maximum milk production.

** Forage testing doesn't cost -- it pays !!

AG LAND

CALF CREEP/DECOX

MEDICATED

MINERAL FOR CALVES AND GROWING CATTLE ON PASTURE

For the prevention of coccidiosis in ruminating and nonruminating calves and cattle caused by *Elmeria bovis* and *Eimeria zuernii*. Feed at least 28 days during periods of coccidiosis exposure or when experience indicates that coccidiosis is likely to be a hazard. Coccidiostats are not indicated for use in adult animals due to continuous previous exposure.

ACTIVE DRUG INGREDIENT

Decoquinatate.....816 G/TON

GUARANTEED ANALYSIS

Calcium (Ca), Min.....23.0%
 Calcium (Ca), Max27.0%
 Phosphorus (P), Min.....6.0%
 Salt (NaCl), Min.....4.0%
 Salt (NaCl), Max.....6.0%
 Iodine (I), Min75 ppm
 Magnesium (Mg), Min.....1.5%
 Potassium (K), Min.....0.80%
 Selenium (Se), Min.....5 ppm
 Vitamin A, Min300,000 IU/lb
 Vitamin D, Min200,000 IU/lb
 Vitamin E, Min300 IU/lb

INGREDIENTS

Calcium Carbonate, Monocalcium Phosphate, Salt, Potassium Sulfate, Magnesium Sulfate, Magnesium Oxide, Dried Molasses, Mineral Oil, Distillers Dried Grains with Solubles, Manganese Amino Acid Complex, Yeast Concentrate, Potassium Chloride, Zinc Sulfate, Zinc Amino Acid Complex, Niacin Supplement, Choline Chloride, Zinc Oxide, Manganous Oxide, Ferrous Sulfate, Copper Sulfate, Cobalt Glucoheptonate, Vitamin E Supplement, Potassium Iodide, Copper Amino Acid Complex, Vitamin A Supplement, D-Activated Animal Sterol (Source of Vitamin D3), Vitamin B12 Supplement, Sodium Selenite, Cobalt Carbonate, Natural and Artificial Flavors.

FEEDING DIRECTIONS

CALF CREEP/DECOX can be fed as a top dress at the rate of one (1) ounce per head per day. CALF CREEP/DECOX can be mixed in the following suggested rations at 50 lbs. per ton as shown below and self-fed with high quality forage.

MIXING DIRECTIONS

	18% PROTEIN	18% PROTEIN	16% PROTEIN	16% PROTEIN
Shelled, Cracked Corn	1465 lbs.	1090 lbs.	1560 lbs.	1190 lbs.
Oats, Rolled or Course	0 lbs.	400 lbs.	0 lbs.	400 lbs.
Soybean Meal 48%	475 lbs.	450 lbs.	380 lbs.	350 lbs.
Salt	10 lbs.	10 lbs.	10 lbs.	10 lbs.
Calf Creep/Decox	50 lbs.	50 lbs.	50 lbs.	50 lbs.
	2000 lbs.	2000 lbs.	2000 lbs.	2000 lbs.

WARNING: Do not feed to breeding animals or animals producing milk for food.

GRO-TEC, INC.
10324 W. US HWY 36
MODOC, IN 47358

NET WT. 50 LBS. (22.68 kg.)

LOT.#

AG LAND
HEIFER DEVELOPER/BOVATEC^R
MEDICATED

Mixing Mineral for Growing Cattle

For increased rate of gain in pasture cattle (slaughter, stocker, feeder cattle and dairy and beef replacement heifers).

For control of coccidiosis caused by *Eimeria bovis* and *Eimeria zuernii*.

Active Drug Ingredient

Lasalocid (as lasalocid sodium) 1400 G/Ton

GUARANTEED ANALYSIS

Calcium (Ca), Min	21.00%
Calcium (Ca), Max	25.00%
Phosphorous (P), Min	4.50%
Salt (NaCl), Min	5.50%
Salt (NaCl), Max	6.50%
Iodine (I), Min	75 ppm
Magnesium (Mg), Min	1.60%
Potassium (K), Min	1.00%
Selenium (Se), Min	20 ppm
Vitamin A, Min	300,000 IU/lb
Vitamin D, Min	200,000 IU/lb
Vitamin E, Min	300 IU/lb

INGREDIENTS

Calcium Carbonate, Monocalcium Phosphate, Sodium Bentonite, Salt, Potassium Sulfate, Magnesium Sulfate, Dried Molasses, Distillers Dried Grains with Solubles, Magnesium Oxide, Mineral Oil, Zinc Sulfate, Ferrous Sulfate, Choline Chloride, Potassium Chloride, Zinc Oxide, Copper Sulfate, Manganous Oxide, Manganese Sulfate, Potassium Iodide, Yeast Concentrate, Sodium Sesquicarbonate, Vitamin E Supplement, Vitamin A Supplement, D-Activated Animal Sterol (Source of Vitamin D3), Niacin Supplement, Zinc Amino Acid Complex, Manganese Amino Acid Complex, Vitamin B12 Supplement, Sodium Selenite, Cobalt Carbonate, Cobalt Glucoheptonate, Natural and Artificial Flavors.

FEEDING DIRECTIONS

Hand feed HEIFER DEVELOPER/BOVATEC continuously at a rate of not less than 60 mg. nor more than 200mg. of lasalocid per head per day. The drug must be contained in at least one (1) pound of feed. Hand feed HEIFER DEVELOPER/BOVATEC at the rate of 0.065 lbs. per hundred pounds of body weight (1 mg. lasalocid per 2.2 lbs. body weight) for control of coccidiosis. Feed continuously up to 800 lbs. body weight.

CAUTION: The safety of Lasalocid in unapproved species has not been established. Do not allow horses or other equines access to Lasalocid, as ingestion may be fatal. Feeding undiluted, could be inadequately mixed or mixing errors resulting in excessive concentrations of Lasalocid fatal to cattle.

GRO-TEC, INC.
10324 W US Hwy 36
Modoc, IN 47358

AG LAND

DAIRY NO. 11

MINERAL FOR LACTATING DAIRY COWS

GUARANTEED ANALYSIS

Calcium (Ca), Min.....	13.0%
Calcium (Ca), Max	17.0%
Phosphorus (P), Min.....	15.0%
Iodine (I), Min	50 ppm
Magnesium (Mg), Min.....	5.00%
Potassium (K), Min.....	1.40%
Selenium (Se), Min.....	20 ppm
Vitamin A, Min	625,000 IU/lb
Vitamin D, Min	120,000 IU/lb
Vitamin E, Min	800 IU/lb

INGREDIENTS

Monocalcium Phosphate, Calcium Carbonate, Magnesium Oxide, Potassium Chloride, Potassium Sulfate, Magnesium Sulfate, Mineral Oil, Copper Sulfate, Sodium Sesquicarbonate, Dried Molasses, Zinc Oxide, Manganous Oxide, Zinc Sulfate, Manganese Sulfate, Vitamin E Supplement, Distillers Dried Grains with Solubles, Dried Aspergillus Oryzae Fermentation Solubles, Dried Bacillus Subtilis Fermentation Solubles, Choline Chloride, Vitamin A Supplement, Ferrous Sulfate, Niacin Supplement, Potassium Iodide, Yeast Concentrate, Zinc Amino Acid Complex, D-Activated Animal Sterol (Source of Vitamin D3), Manganese Amino Acid Complex, Copper Amino Acid Complex, Cobalt Carbonate, Sodium Selenite, Cobalt Glucoheptonate, Natural and Artificial Flavors.

FEEDING DIRECTIONS

DAIRY NO. 11 is designed to be fed at 8-12 OZ. per head per day.

AG LAND'S DAIRY NO. 11 is designed to be mixed into the dairy cows ration when the primary forage being fed contains high levels of calcium-such as a legume forage (alfalfa). DAIRY NO. 11 may be fed on a free choice basis by mixing 3 parts DAIRY NO. 11 with one (1) part salt.

The amount of AG LAND'S DAIRY NO. 11 needed to balance the ration will vary with production, kind, quality and amount of forage being fed. For determination of the optimum levels of DAIRY NO. 11 required, contact your GRO-TEC representative for a ration analysis.

GRO-TEC, INC.
10324 W. US HWY 36
MODOC, IN 47358

NET WT. 50 LBS. (22.68 kg.)

LOT.#

AG LAND

DAIRY NO. 21

MINERAL FOR LACTATING DAIRY COWS

GUARANTEED ANALYSIS

Calcium (Ca), Min.....	18.0%
Calcium (Ca), Max	22.0%
Phosphorus (P), Min.....	10.0%
Iodine (I), Min	50 ppm
Magnesium (Mg), Min.....	5.00%
Potassium (K), Min.....	1.40%
Selenium (Se), Min.....	20 ppm
Vitamin A, Min	625,000 IU/lb
Vitamin D, Min	120,000 IU/lb
Vitamin E, Min	800 IU/lb

INGREDIENTS

Monocalcium Phosphate, Calcium Carbonate, Magnesium Oxide, Potassium Chloride, Potassium Sulfate, Magnesium Sulfate, Mineral Oil, Copper Sulfate, Sodium Sesquicarbonate, Dried Molasses, Distillers Dried Grains with Solubles, Zinc Oxide, Manganous Oxide, Zinc Sulfate, Manganese Sulfate, Vitamin E Supplement, Dried Aspergillus Oryzae Fermentation Solubles, Dried Bacillus Subtilis Fermentation Solubles, Choline Chloride, Vitamin A Supplement, Ferrous Sulfate, Niacin Supplement, Potassium Iodide, Yeast Concentrate, Zinc Amino Acid Complex, D-Activated Animal Sterol (source of Vitamin D3), Manganese Amino Acid Complex, Copper Amino Acid Complex, Cobalt Carbonate, Sodium Selenite, Cobalt Glucoheptonate, Natural and Artificial Flavors.

FEEDING DIRECTIONS

DAIRY NO. 21 is designed to be fed at 8-12 OZ. per head per day.

AG LAND'S DAIRY NO. 21 is designed to be mixed into the dairy cows ration when the primary forage being fed contains moderate to high levels of calcium such as a legume forage (clover). DAIRY NO. 21 may be fed on a free choice basis by mixing 3 parts DAIRY NO. 21 with one (1) part salt.

The amount of AG LAND'S DAIRY NO. 21 needed to balance the ration will vary with production, kind, quality and amount of forage being fed. For determination of the optimum levels of AG LAND'S DAIRY NO. 21 required, contact your GRO-TEC representative for a ration analysis.

GRO-TEC, INC.
10324 W. US HWY 36
MODOC, IN 47358

NET WT. 50 LBS. (22.68 kg.)

LOT.#

AG LAND

DAIRY NO. 31

MINERAL FOR LACTATING AND DRY DAIRY COWS

GUARANTEED ANALYSIS

Calcium (Ca), Min.....	20.50%
Calcium (Ca), Max	24.50%
Phosphorus (P), Min.....	7.50%
Iodine (I), Min	50 ppm
Magnesium (Mg), Min.....	5.00%
Potassium (K), Min.....	1.40%
Selenium (Se), Min.....	20 ppm
Vitamin A, Min	625,000 IU/lb
Vitamin D, Min	120,000 IU/lb
Vitamin E, Min	800 IU/lb

INGREDIENTS

Calcium Carbonate, Monocalcium Phosphate, Magnesium Oxide, Potassium Chloride, Potassium Sulfate, Magnesium Sulfate, Mineral Oil, Copper Sulfate, Sodium Sesquicarbonate, Dried Molasses, Distillers Dried Grains with Solubles, Zinc Oxide, Manganous Oxide, Zinc Sulfate, Manganese Sulfate, Vitamin E Supplement, Dried Aspergillus Oryzae Fermentation Solubles, Dried Bacillus Subtilis Fermentation Solubles, Choline Chloride, Vitamin A Supplement, Ferrous Sulfate, Niacin Supplement, Potassium Iodide, Yeast Concentrate, Zinc Amino Acid Complex, D-Activated Animal Sterol (Source of Vitamin D3), Manganese Amino Acid Complex, Copper Amino Acid Complex, Cobalt Carbonate, Sodium Selenite, Cobalt Glucoheptonate, Natural and Artificial Flavors.

FEEDING DIRECTIONS

DAIRY NO. 31 is designed to be fed at 8-12 OZ. per head per day.

AG LAND'S DAIRY NO. 31 is designed to be mixed into the dairy cows ration when the primary forage being fed contains slightly higher levels of calcium-such as a legume mixture (alfalfa/clover). DAIRY NO. 31 may be fed on a free choice basis by mixing 3 parts DAIRY NO. 31 with one (1) part salt.

The amount of AG LAND'S DAIRY NO. 31 needed to balance the ration will vary with production, kind, quality and amount of forage being fed. For determination of the optimum levels of AG LAND'S DAIRY NO. 31 required, contact your GRO-TEC representative for a ration analysis.

GRO-TEC, INC.
10324 W. US HWY 36
MODOC, IN 47358

NET WT. 50 LBS. (22.68 kg.)

LOT.#

AG LAND

DAIRY NO. 41

MINERAL FOR LACTATING DAIRY COWS

GUARANTEED ANALYSIS

Calcium (Ca), Min.....	22.00%
Calcium (Ca), Max	26.00%
Phosphorus (P), Min.....	6.00%
Iodine (I), Min	50 ppm
Magnesium (Mg), Min.....	5.00%
Potassium (K), Min.....	1.40%
Selenium (Se), Min.....	20 ppm
Vitamin A, Min	625,000 IU/lb
Vitamin D, Min	120,000 IU/lb
Vitamin E, Min	800 IU/lb

INGREDIENTS

Calcium Carbonate, Monocalcium Phosphate, Magnesium Oxide, Potassium Chloride, Potassium Sulfate, Magnesium Sulfate, Mineral Oil, Distillers Dried Grains with Solubles, Copper Sulfate, Sodium Sesquicarbonate, Dried Molasses, Zinc Oxide, Manganous Oxide, Zinc Sulfate, Manganese Sulfate, Vitamin E Supplement, Dried Aspergillus Oryzae Fermentation Solubles, Dried Bacillus Subtilis Fermentation Solubles, Choline Chloride, Vitamin A Supplement, Ferrous Sulfate, Niacin Supplement, Potassium Iodide, Yeast Concentrate, Zinc Amino Acid Complex, D-Activated Animal Sterol (Source of Vitamin D3), Manganese Amino Acid Complex, Copper Amino Acid Complex, Cobalt Carbonate, Sodium Selenite, Cobalt Glucoheptonate, Natural and Artificial Flavors.

FEEDING DIRECTIONS

DAIRY NO. 41 is designed to be fed at 8-12 OZ. per head per day.

AG LAND'S DAIRY NO. 41 is designed to be mixed into the dairy cows ration when the primary forage being fed contains moderate levels of calcium-such as a mixture of legume/grass forages and corn silage. DAIRY NO. 41 may be fed on a free choice basis by mixing 3 parts DAIRY NO. 41 with one (1) part salt.

The amount of AG LAND'S DAIRY NO. 41 needed to balance the ration will vary with production, kind, quality and amount of forage being fed. For determination of the optimum levels of AG LAND'S DAIRY NO. 41 required, contact your GRO-TEC representative for a ration analysis.

GRO-TEC, INC.
10324 W. US HWY 36
MODOC, IN 47358

NET WT. 50 LBS. (22.68 kg.)

LOT.#

AG LAND

DAIRY NO. 51

MINERAL FOR LACTATING DAIRY COWS

GUARANTEED ANALYSIS

Calcium (Ca), Min.....	23.00%
Calcium (Ca), Max	27.00%
Phosphorus (P), Min.....	5.00%
Iodine (I), Min	50 ppm
Magnesium (Mg), Min.....	5.00%
Potassium (K), Min.....	1.40%
Selenium (Se), Min.....	20 ppm
Vitamin A, Min	625,000 IU/lb
Vitamin D, Min	120,000 IU/lb
Vitamin E, Min	800 IU/lb

INGREDIENTS

Calcium Carbonate, Monocalcium Phosphate, Magnesium Oxide, Potassium Chloride, Potassium Sulfate, Magnesium Sulfate, Distillers Dried Grains with Solubles Mineral Oil, Copper Sulfate, Sodium Sesquicarbonate, Dried Molasses, Zinc Oxide, Manganous Oxide, Zinc Sulfate, Manganese Sulfate, Vitamin E Supplement, Dried Aspergillus Oryzae Fermentation Solubles, Dried Bacillus Subtilis Fermentation Solubles, Choline Chloride, Vitamin A Supplement, Ferrous Sulfate, Nacin Supplement, Potassium Iodide, Yeast Concentrate, Zinc Amino Acid Complex, D-Activated Animal Sterol (Source of Vitamin D3), Manganese Amino Acid Complex, Copper Amino Acid Complex, Cobalt Carbonate, Sodium Selenite, Colbalt Glucoheptonate, Natural and Artificial Flavors.

FEEDING DIRECTIONS

DAIRY NO. 51 is designed to be fed at 8-12 OZ. per head per day.

AG LAND'S DAIRY NO. 51 is designed to be mixed into the dairy cows ration when the primary forage being fed contains moderate levels of calcium-such as a mixture of quality grass forages and corn silage. DAIRY NO. 51 may be fed on a free choice basis by mixing 3 parts DAIRY NO. 51 with one (1) part salt.

The amount of AG LAND'S DAIRY NO. 51 needed to balance the ration will vary with production, kind, quality and amount of forage being fed. For determination of the optimum levels of AG LAND'S DAIRY NO. 51 required, contact your GRO-TEC representative for a ration analysis.

GRO-TEC, INC.
10324 W. US HWY 36
MODOC, IN 47358

NET WT. 50 LBS. (22.68 kg.)

LOT.#

AG LAND

DAIRY NO. 61

MINERAL FOR LACTATING DAIRY COWS

GUARANTEED ANALYSIS

Calcium (Ca), Min.....	22.00%
Calcium (Ca), Max	26.00%
Phosphorus (P), Min.....	4.00%
Iodine (I), Min	50 ppm
Magnesium (Mg), Min.....	5.00%
Potassium (K), Min.....	1.40%
Selenium (Se), Min.....	20 ppm
Vitamin A, Min	625,000 IU/lb
Vitamin D, Min	120,000 IU/lb
Vitamin E, Min	800 IU/lb

INGREDIENTS

Calcium Carbonate, Monocalcium Phosphate, Magnesium Oxide, Distillers Dried Grains with Solubles, Potassium Chloride, Potassium Sulfate, Magnesium Sulfate, Mineral Oil, Copper Sulfate, Sodium Sesquicarbonate, Dried Molasses, Zinc Oxide, Manganous Oxide, Zinc Sulfate, Manganese Sulfate, Vitamine E Supplement, Dried Aspergillus Oryzae Fermentation Solubles, Dried Bacillus Subtilis Fermentation Solubles, Choline Chloride, Vitamin A Supplement, Ferrous Sulfate, Niacin Supplement, Potassium Iodide, Yeast Concentrate, Zinc Amino Acid Complex, D-Activated Animal Sterol (Source of Vitamin D3), Manganese Amino Acid Complex, Copper Amino Acid Complex, Cobalt Carbonate, Sodium Selenine, Cobalt Glucoheptonate, natural and Artificial Flavors.

FEEDING DIRECTIONS

DAIRY NO. 61 is designed to be fed at 8-12 OZ. per head per day.

AG LAND'S DAIRY NO. 61 is designed to be mixed into the dairy cows ration when the primary forage being fed contains moderate levels of calcium-such as a mixture of grass forage, grass and corn silage. DAIRY NO. 61 may be fed on a free choice basis by mixing 3 parts DAIRY NO. 61 with one (1) part salt.

The amount of AG LAND'S DAIRY NO. 61 needed to balance the ration will vary with production, kind, quality and amount of forage being fed. For determination of the optimum levels of AG LAND'S DAIRY NO. 61 required, contact your GRO-TEC representative for a ration analysis.

GRO-TEC, INC.
10324 W. US HWY 36
MODOC, IN 47358

NET WT. 50 LBS. (22.68 kg.)

LOT.#

DAIRY ENERGY PAK

A Rumen By Pass Fat

GUARANTEED ANALYSIS

Crude Fat, Not less than	80%
Moisture, Not less than	6%

INGREDIENTS

Animal Fat, Sugar, Corn Syrup, Lecithin, Beta Carotene

Manufactured for:

GRO-TEC, INC.
10324 W. US HWY. 36
MODOC, IN 47358

NET WT. 40 LBS.

Lot. No.

GRO-TEC SELENIUM E

Mineral and vitamin premix for livestock feeds

GUARANTEED ANALYSIS

Calcium (Ca), Min.....	24.00%
Calcium (Ca), Max.....	28.00%
Selenium (Se), Min.....	200 ppm
Vitamin E, Min.....	5,000 IU/lb

INGREDIENTS

Calcium Carbonate, Corn Distillers Dried Grains with Solubles, Vitamin E Supplement, Sodium Selenite.

FEEDING DIRECTIONS

SWINE: Do not exceed 272 mg. or three (3) lbs. of GRO-TEC SELENIUM E per ton of complete feed.

MIXING DIRECTIONS

	<u>Total Dry Matter Per Day</u>	<u>GRO-TEC SELENIUM E Per Ton of Dry Matter</u>	<u>MG Per Head Per Day</u>
DAIRY	20 lbs.	3 lbs.	2.72
	30 lbs.	3 lbs.	4.08
	40 lbs.	3 lbs.	5.44
	50 lbs.	3 lbs.	6.80
BEEF	5 lbs.	3 lbs.	0.68
	10 lbs.	3 lbs.	1.36
	15 lbs.	3 lbs.	2.04
	20 lbs.	3 lbs.	2.72

NOTE: Do not exceed 3 mg. per head per day for Beef Cattle.

**Manufactured By
GRO-TEC, INC.
10324 W US HWY 36
MODOC, IN 47358**

NET WT 50 LB (22.7 kg)

LOT#

GRO-TEC

ADE MIX

MINIMUM GUARANTEE PER POUND

Vitamin A4,500,000.00 USP Units
Vitamin D31,000,000.00 USP Units
Vitamin E1,500.00,I Units

INGREDIENTS

Rice Mill By-Product, Calcium Carbonate, Vitamin A Supplement (Stability Improved), d-Activated Animal Sterol (Source of Vitamin D3, Stability Improved), Vitamin E Supplement, BHT and Ethoxyquin (Preservatives).

DIRECTIONS

For mixing purposes only in animal feeds. Contact your GRO-TEC representative for use in specific feeds.

NET WEIGHT 50 LBS. (22.7 KILOS)

GRO-TEC, INC.
10324 W. US HWY 36
MODOC, IN 47358

LOT NO.#

GRO-TEC YEAST EXTRA

For livestock, poultry and pet foods

GUARANTEED ANALYSIS

Crude Protein, Min.....	23.00%
Crude Fat, Min.....	5.00%
Crude Fiber, Max.....	10.00%
Saccharomyces Cervisiae, Min.....	12 Million CFU's/lb

INGREDIENTS

Processed Grain By-Products, Roughage Products, Sodium Bentonite, Calcium Carbonate, Dried Yeast, Brewers Dried Grains, *Saccheromyces cervisiae* Fermentation Extract Dehydrated, Dried *Aspergillus oryzae* Fermentation Extract, Dried *Bacillus licheniformis* Fermentation Extract, Dried *Bacillus subtilis* Fermentation Extract and Silicon Dioxide.

DIRECTIONS FOR USE

GRO-TEC YEAST EXTRA is a feed supplement designed to be mixed with nutritionally balanced complete feeds for Dairy, Beef, Swine, Poultry, Horses, and Companion Animals. It may be Top Dressed on Beef, Dairy, Horse, and Swine feeds.

Dairy	Complete Dairy Ration	5-15 lbs/ton
	Lactation Grain Ration	10-20 lbs/ton
	Top Dress	2.0 oz/head/day
Beef	Grower/Finisher Rations	5-20 lbs/ton
	Top Dress	1-2.0 oz/head/day
Swine	Gestation/Lactation & Starter Rations	10-20 lbs/ton
	Grower/Finisher Rations	5-10 lbs/ton
Poultry	Starter/Breeder & Layer Rations	5-10 lbs/ton
	Broiler Grower/Finisher Rations	2-5 lbs/ton
Horses	Grain Ration	10-20 lbs/ton
	Top Dress	1-2.0 oz/head/day
Cat/Dog	Complete Ration	10-20 lbs/ton

**Manufactured By
GRO-TEC, INC.
10324 W US HWY 36
MODOC, IN 47358**

NET WT 50 LB (22.7 kg)

LOT#
Patent Pending

AG LAND AG LAC

For the manufacture of livestock feeds and as a top dress for lactating dairy cows and lactating sows

GUARANTEED ANALYSIS

Crude Protein, Min.....	10.00%
Crude Fat, Min.....	2.50%
Crude Fiber, Max.....	12.00%
Total Lactic Acid Producing Bacteria, Min.....	5.8 Billion CFU's/lb

INGREDIENTS

Dried Extracted Streptomyces Fermentation Solubles, Corn Germ Meal, Processed Grain By Products, Dried Lactobacillus acidophilus Fermentation Product, Dried Lactobacillus lactis Fermentation Product, Dried Lactobacillus plantarium Product, Dried Enterococcus cermoris Fermentation Product, Dried Enterococcus dicetylactis Fermentation Product, Dried Bacillus subtilis Fermentation Product, Dried Aspergillus oryzae Fermentation Product, Extracted Streptomyces Fermentation Meal, Dried Fermented Corn Extractives and Dried Yeast.

FEEDING DIRECTIONS

Lactating Dairy Cows	Top Dress.....	1/2-1 oz/head/day
Lactating Sows	Top Dress.....	1/4-1 oz/head/day

MIXING DIRECTIONS FOR COMPLETE FEEDS

Cattle	Calves and Incoming Cattle.....	10 lbs./ton
	Beef, Dairy and Feedlot Cattle.....	5 lbs./ton
Horses	Creep.....	10 lbs./ton
	Maintenance and Work.....	5 lbs./ton
Poultry and Turkeys		5 lbs./ton
Swine	Starter, Grower, Finisher, Gestation.....	5 lbs./ton
	Lactation.....	10 lbs./ton
Sheep		5 lbs./ton

Store in a dry place. Do not expose to direct sunlight.

Manufactured By
GRO-TEC, INC.
10324 W US HWY 36
MODOC, IN 47358

NET WT 50 LB (22.7 kg)

LOT#

G-MANNA-CEL

For the manufacture of livestock feeds

GUARANTEED ANALYSIS

Crude Protein, Min.....	20.00%
Crude Fat, Min.....	1.00%
Crude Fiber, Max.....	10.00%
Niacin, Min.....	500 ppm
Pantothenate, Min.....	90 ppm
Riboflavin, Min.....	100 ppm

INGREDIENTS

Calcium Montmorillonite, Brewers Dried Yeast, Processed Grain By-Products, Dried Whey, Extracted Citric Acid Presscake, Silicon Dioxide, Yucca Schidigera Extract, Calcium Carbonate, Calcium Aluminosilicates, Niacin Supplement, Brewers Dried Grains, Vitamin B12 Supplement, Calcium Pantothenate, Riboflavin Supplement, Menadione Sodium Bisulfite Complex (source of Vitamin K activity), Mineral Oil, Biotin and Thiamine Mononitrate.

FEEDING DIRECTIONS

Dairy:	1-2 oz (28-56 gm)/head/day
Beef:	
Calves.....	8 lbs/per ton
Growers.....	4 lbs/per ton
Swine:	
Starters.....	8 lbs/per ton
Growers.....	4 lbs/per ton
Poultry:	
Layers.....	2-4 lbs/per ton
Broilers.....	2-8 lbs/per ton
Sheep/Goats:	4-10 lbs/per ton

Manufactured By
GRO-TEC, INC.
10324 W US HWY 36
MODOC, IN 47358

NET WT 50 LB (22.7 kg)

LOT#

AG LAND AG SILE

GUARANTEED ANALYSIS

Total Lactic Acid Producing Bacteria.....300 Billion CFU/lb

Contains a source of live (viable) naturally occurring microorganisms

INGREDIENTS

Calcium Carbonate, Dextrose, Iron Oxide, Cobalt Carbonate, Lactobacillus Plantarum Fermentation Product Dehydrated, Pediococcus Pentosaceus Fermentation Product Dehydrated, Pediococcus Acidilactici Fermentation Product Dehydrated, Enterococcus Faecium Fermentation Product Dehydrated, Lactobacillus casei Fermentation Product Dehydrated, Streptococcus Lactis Fermentation Product Dehydrated, Dried Aspergillus Oryzae Fermentation Extract, Dried Bacillus Subtillis Fermentation Extract.

FEEDING DIRECTIONS

AG SILE is designed to be used as a forage inoculant and preservative and is to be applied at the rate of one-half to one pound of AG SILE per one ton of Silage or Haylage, as indicated below.

PRODUCT	RECOMMENDED MIN.	MOISTURE MAX.
Corn Silage	65%	75%
Alfalfa Haylage	50%	65%
Oat Silage	70%	80%
High Moisture Ear Corn	32%	42%
Sorghum Silage	65%	80%

TREATS 50 TO 100 TONS

	<u>HAYLAGE</u>	<u>SILAGE</u>
	Alfalfa, Grass	Corn
	Small Grain	Sorghum
Trench/Bunker	50-100 Tons	75-100 Tons
Conventional/Concrete	50-100 Tons	75-100 Tons
Oxygen Limiting Structure	75-100 Tons	100 Tons

Manufactured By
GRO-TEC, INC.
10324 W US HWY 36
MODOC, IN 47358

NET WT 50 LB (22.7 kg)

LOT#