MARKET LAMB NUTRITION

GAME PLAN

- Purchase date & show date = time on feed
- Purchase weight & show weight = total gain Frame size/growth potential – show weight
- Gain lbs/day
- Lambs ½ to ¾ lb/day
- Feed requirement light, moderate, heavy
 - 2 to 4 lb/day

NUTRIENTS

- Water
- Protein
- Energy fats & carbohydrates
- Minerals
- Vitamins



Most critical of all nutrients

 Primary roles – maintenance of body temperature, transport of nutrients and waste, establishment of an appropriate medium for the many chemical reactions that must take place

WATER (cont.)

- Makes up more than 70% of lean tissue
 - Pulling water = losing muscle
 - Potential for urinary calculi
- Regulates feed consumption
 - Pulling water = decreased consumption
- 1-1.5 gallons for each 4 lb of DM consumed
- Clean, fresh water a must!

PROTEIN

- Primary constituent of animal body
- Primary roles body tissue maintenance, provides for carriers of other nutrients, and is a major component of meat, milk, and fiber
- Quantity more important than quality
 - Bypass protein vs. rumen degradable protein
- Young, fast growing animals require more protein

PROTEIN (cont.)

- Blood, feather, fish, poultry by-products, and meat meals – 50 to 90%
- Soybean, cottonseed, sunflower, linseed, and peanut meals – 35 to 50%
- Legume hays 15 to 25%
- Grains 8 to 13%
- Urea non-protein nitrogen

PROTEIN (cont.)

 Protein in excess of requirement is used as energy

 Using protein as an energy source is very expensive

ENERGY (carbohydrates & fats)

- Most common limiting nutrient
- Necessary for efficient nutrient utilization.
 Inadequate energy reduces growth and causes weight loss
- Grains and protein supplements are high in energy while hays are intermediate

MINERALS - MACRO

- Sodium, chlorine, calcium, phosphorus, magnesium, potassium, and sulfur
- Salt (sodium and chlorine) can be fed free choice or ½ to 1 percent of ration
- 2:1 calcium to phosphorus ratio
- Urinary calculi caused by rations high in phosphorus in relation to calcium

MINERALS - MACRO (cont.)

- 10 to15 lb ammonium chloride per ton of feed helps prevent urinary calculi
 - Extra ammonium chloride added to feed or water is not good
- Roughages high Ca, low P
- Grains low Ca, intermediate P
- Protein supplements intermediate in Ca, high in P

MINERALS - MICRO

 lodine, copper, iron, manganese, zinc, molybdenum, cobalt, selenium, and fluoride

- Copper levels above 11 ppm can be toxic to sheep
 - Watch adding several supplements because they can contain copper

VITAMINS

- Dietary vitamins A, D, and E
- Microorganisms synthesize Bvitamins, C, and K
- Dietary sources of B-vitamins and vitamin K are required by young before the rumen becomes functional
 - Can be useful to give added Bcomplex injections monthly
 - Stimulates appetite and reduces possibility of thiamin deficiency

"MAGIC" RATION

- No such thing as a "Magic" ration
 - Fixed cost versus fixed ingredient
- Commercially prepared ration balanced
- Mix your own
- County ration mixed and sold by local feed store
- Key find a balanced ration, weigh it out, learn how to feed it, learn how animals respond to it

COMPLETE FEEDS

- Complete balanced diet protein, energy, minerals, vitamins, fiber
- Fresh and palatable; minimal dust/fine particles
- Lambs textured or loose feed
- Typically 14-16% crude protein; no urea

COMPLETE FEEDS (cont.)

- Fiber 10 to 15%
 - Needed for rumen health
- Fat 2.5 to 4%
 - Higher fat levels give more "bloom"
- Ca:P ratio ≥ 2-3:1
 - Prevention of urinary calculi
- P content 0.38 to 0.45%
 - Higher levels cause rectal prolepses

COMPLETE FEEDS (cont.)

- Urinary acidifier (0.5%)
 - Ammonium chloride more effective than ammonium sulfate
- Coccidiostat
 - Deccox prevent coccidiosis
 - Doesn't prevent the problem only helps reduce incidence of coccidia
- Fed at 1.5 to 4.0% of body weight

MANAGEMENT AND FEEDING

- Getting started on feed and water
 - Never run out of either one
- Self fed (ad libitum) vs. hand fed Individual feeding stalls – keep track of intake Can feed together but must watch animals closely
- Feeding hay keeps rumen and microbes happy
 - Small handful every other day
 - Will decrease risk of thiamine deficiency
 - Help prevent wool picking in sheep
- Feeding regularly (2X/day, at the same time each day)

MANAGEMENT AND FEEDING

- Weigh animals regularly
 - Monitor weight as you go along

- Lambs breed differences
 - eat at different speeds

 Exercise – any type is better than none at all

MANAGEMENT AND FEEDING

- The feeding program will dictate how your animals will develop and mature
- A good feeding program cannot make up for a lack of superior genetics, but it will allow your animal to reach their genetic potential
- A poor feeding program can cause an animal with great genetic potential to be wasted.

FEEDING FOR THE "BIG" SHOW

- Start 30 to 45 days before show
 - Weighing animals = predicted weight at shows
 - Know where you stand at home and previous weight breaks at show
- 2 to 3 weeks before show start regulating feed and exercise
 - Goal is to have them where want them before you leave the house.
 - Too heavy = decrease in feed or Inc. in exercise
 - Feed and water at show athletes don't change programs before a contest



- Using supplements
 - Decrease normal feed volume but retain energy levels
- Many different supplements available
 - Add bloom
 - Decrease fat
 - Learn how to use them before you get to the show
 - Animals all react different to stress
 - Previous show experience will help animals

AT THE SHOW

- I feed hay doesn't weigh much, keeps the animal feeling full
- I give lot's of water 20 to 60 oz/ day
- Watch the level of electrolytes
 - Can actually dehydrate the animal
- Monitor weight
 - Most animals will loose ½ to 1 lb overnight

AT THE SHOW

- Several shows starting to have you turn in your own weights
 - Must do your homework before you get to the show
 - Know which class you want the animal to fall into

AT THE SHOW

- Most common problems
 - Not enough feed and water
 - Too much electrolytes
 - Too much "stuff"
 - Too much "fiddling around"
 - Get the animal where you want him and leave him alone.