# **Meat Goat Project**



## Health

### Develop a preventative health program

- Know your breeder's health program
- Daily observation
- Clean, cool, fresh water
- Regular feeding schedule
- Vaccinate for CDT/7-8way clostridial
- Regular de-worm/external parasite control
- Fly control program
- Insure safe pen environment
- Exercise essential
- Blanketed? Washing? Clipping?
- Mineral program?
- Internal parasite management
  - o Immediately after purchase
  - o 3 weeks later and periodic
  - Thiabendazole
    - Safeguard
    - Valbazen
  - Morantel tartrate
    - Rumatel

Your veterinarian can give you more options Ivomec, Prohibit, Cydectin?

- External parasite management (lice)
  - Biting and sucking
  - Lots of options
    - Pour on
    - Spray/dip
    - Powders
  - Treat twice, 14 days apart

#### **Hoof trimming**

- Prevents disease and lameness
- Trim hooves every 4-6 weeks
- Trim hooves 1-2 weeks before show to provide time for healing if quicked.

### Signs of a sick goat

- Normal rectal Temp 102-104
- Does not eat as quickly
- May not clean up feed
- Head hanging down
- Dull appearing eyes
- Walk abnormally
- Look for signs of scours:
  - Changed feed too quickly
  - o Too much high energy feed
  - Internal parasites
  - Respiratory/Metabolic disorder
- Signs of specific diseases
- Treat sick animals immediately
- Limited over the counter drugs available
- Consult your veterinarian for more options and better treatment
  - Restricted drugs will not mention goats on the label
  - Drug label: Species/class of animal, route of admin, approved dose rate, specific conditions for treatment, withdrawal times

#### **Show Box - Must Haves**

**Rectal Thermometer** 

Syringe/Needles

Drench Gun

Fly Control (Bait and Spray)

De-wormer (Anthelmintic)

External Parasite Control (pour-on, spray, dust)

**Hoof Trimmers** 

**Probiotic Therapy Paste** 

Disinfectant

#### Consult with Veterinarian for Show Box meds!

## **Common Health Issues**

## **Barn Cough**

- Goats have tendency to cough due to dust contact; picking ground, running, etc
- Can be sign of allergies, clearing throat, etc.
- Caution should be taken to ensure cough is not symptom of primary respiratory infection

#### Coccidiosis

- Scours, bloody scours, dehydration, weakness and weight loss
- Separate & consider mass treatment
- Consult veterinarian for advice/treatment
  Corid, sulfadimethoxine (Albon)
- Most show goat rations are medicated with a coccidiostat

#### E.coli

- Watery scours, yellow scours dehydration, weakness
- Separate & consider mass treatment
  - Neomycin (Rx) only approved
- Consult veterinarian for treatment

## **Enterotoxaemia (overeating disease)**

- Clostridium organism normally present in small intestine
- Stress induced
- Abrupt change in feeding
- Consume large amount of grain/alfalfa
- Organism colonizes rapidly and releases toxin causing death with little symptoms, usually just off feed or orts
- Vaccinate and boost

#### **Pinkeye**

- Very contagious (watch all livestock/humans)
- Excessive tearing of eye and clouding of pupil
- Dry, dusty pens and constant exposure to sunlight

- Flies are a vector
- Most goats recover without treatment, however daily cleaning and antibiotic therapy will quicken healing

#### Polioencephalomalacia (Polio)

- Caused by disruption of the action of thiamine production in the rumen
- Thiamine produced by rumen microflora
- Can be induced by high Sulphur diet
- Depressed, head pushers, star gazing, act/are blind, and can progress to convulsions/death
- Treat with thiamine therapy
- Investigate cause with your veterinarian

#### Respiratory disease (Pneumonia)

- Inflammation of lung tissue (pulmonary parenchyma then bronchioles)
- Occurs when infectious and noninfectious agents cause lungs to become inflamed
- Usually Pasteurella multocida or Mannhaeimia haemolytica
- Both cause outbreak of acute pneumonia of all ages
- Usually associated as secondary infection due to management practices or severe stress
- Causes:
  - Transportation stress
  - Viral infection
  - Lung parasites
  - o Prior bacterial infection
  - Overcrowding
  - Poor housing conditions
  - Sudden environmental changes
  - Other stressful conditions
- Infections break down tissue defense barriers
- Loss of natural protection allows secondary
- Can cause death without overt signs of sickness

#### Symptoms:

- Fever with 104 106 temp
- Increased respiration rate
- Moist, painful cough, difficulty breathing
- Crackling sounds, nasal and ocular discharge
- Loss of appetite
- Depression

#### Treatment

- Ceftiofur (Naxel) (Prescription Only) is only FDA approved treatment for goat pneumonia
- Consult veterinarian for options

## Vaccination available

- Contact veterinarian for options
- Mannhaemia/Pasteurella
- Inforce 3? (BRSV, IBR, PI3)

## Ringworm/show fungus

- Transmitted animal to animal, animal to human or infected equipment
- Use prevention program
- Fly management
- Blankets
- Necessary clipping only
- Over the counter topicals
  - Fungicides
  - Bleach
  - o Oils
- Consult veterinarian for other treatment options
  - Treat both external and internal

#### Soremouth

- Contagious disease that causes scabs on lips and around mouth
- Caused by a virus that is zoonotic
- lodine rubbed on lesions after scabs are removed will help dry up area and reduce infection
- Live-virus vaccine available to prevent soremouth
- Once they get it they are immune

### Tetanus (lock jaw)

- Cause Tetanus organism in open wound
- Common with banding or injury
- Stiff, sawhorse stance
- No treatment, seldom recover
- Vaccinate and boost with CDT combo with clostridials

## **Urinary calculi (Water Belly)**

- Metabolic disease of mainly male goats caused by formation of stones in urinary tract
- Cannot urinate, restless, kicks at belly, stretch, and attempt to urinate
- Cause: high Phosphorus, Ca:P imbalance, alfalfa, water quality, silica, dehydration
- Most reputable show feeds account for Ca:P ratio, and add ammonium chloride
- If issues, add additional ammonium chloride, test water and water management
- Consult veterinarian for treatment
  - o Pain relief, palpation, removal

## **Less Common Health Issues**

#### Blue tongue

- Be aware, can travel north during summer, usually along river systems
- Vector is gnats, no see ums.
- Lethargic, swollen tongues, off feed
- Vaccine available
- Consult veterinarian

#### **Caseous Lymphadenitis**

- Infected lymph nodes, external and internal
- Consult veterinarian for treatment options
  - Formaldehyde injection
  - o Removal of abscess node

## **Meat Goat Quality Assurance Principles**

Adapted from: Introduction to a Meat Goat Quality Assurance Program and HACCP, Roger Merkel, Langston University

#### **Key Principles**

- Consistently producing a safe meat product demanded by consumers and mandated by law
- Responsible production of high quality, high value, edible products belongs to the producer
- An effective quality assurance program focuses on the total production environment

## **Preferred Production Practices in Herd Health**

- 1. Establish and follow a herd health program
- 2. Establish a valid veterinarian-client-patient relationship
  - Use any off-label drugs in accordance with guidelines for their use within such relationship
- Store and administer drugs according to labeled use or veterinarian authorized off-label use and follow all withdrawal periods
- 4. Use proper injection technique, including preferred injection site
  - Subcutaneous (SC) administration is preferred to intramuscular (IM) or intravenous (IV) injections.
  - ii. When administering drugs SC, use proper tenting technique to avoid entering the muscle.
  - iii. If IM injections must be given, ensure that all injections are given in front of the point of shoulder
  - iv. When giving IM injections, proper technique calls for pulling back slightly on plunger to ensure vein or artery is not penetrated
  - v. Proper injection technique also includes needle selection depending on viscosity of drug, injection method and age of animal
  - vi. Generally 18 and 20 gauge needles are sufficient for most injections
  - vii. Needle length of 1 to 1 % inches should be used for IM or IV, while % to % inch needles are suitable for SC
  - viii. Avoid using dull needles because of animal discomfort and lesion formation
  - ix. Dispose of needles in appropriate sharps container
  - x. Provide training to all person treating animals

#### **Preferred Production Practices in Nutrition/Feed**

- 1. Provide proper nutrition to all animals
- 2. Ensure feed and water are contaminant free
- 3. Comply with FDA regulations regarding ruminant protein
- Take proper care with fed medications and other feed additives
- Record use of chemicals on pasture to prevent contaminated harvested feeds

### <u>Preferred Production Practices in Management and Care</u>

- 1. Provide proper care to all animals
- 2. Use proper gathering and handling techniques to reduce animal stress
- 3. Provide training in proper goat care and handling techniques to all caretakers
- 4. Inspect facilities periodically to maintain good working condition

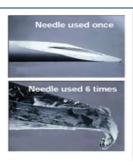
## **Preferred Practices in Record Keeping**

- 1. Identify each animal
- 2. Keep and maintain records on all animals
- 3. Periodically review records for completeness and accuracy

#### **Preferred Practice in Biosecurity**

- 1. Establish a biosecurity plan for your farm
- 2. Minimize or avoid contact between your animals and animals not on your farm
- 3. Establish a quarantine protocol for animal entering your farm
- 4. Establish a protocol for visitors to your farm
- Do not allow persons who have had contact with livestock in foreign countries on your farm for a period of 5 days





- Hypodermic needles are disposable and inexpensive
- Reuse no more 10 times during multi-dose event
- Consider tissue damage caused by re-used needle and lesion possibility on prized goat project
- Never save a needle for later use, dispose of properly
- When treating sick animals consider new needle each animal to avoid contamination