Meat Goat Management and Nutrition

Animal Science Fall Agent Training
Emporia, KS
October 10, 2006

- Meat
- Milk
- Mohair
Meat

Kiko

Boer

Spanish

Pictures courtesy of Oklahoma State University

Dairy

Alpine
Oberhaslis
Nubian
Toggenburgs
LaMancha
Saanens

Pictures courtesy of University of California, Irvine
Hair

Angora

Cashmere

Pictures courtesy of Oklahoma State University

Extension Focus

- Youth Livestock
  - Cheap (Inexpensive)
  - Easy

- Commercial
  - Ethnic demands
  - Noxious weed control
Terminology

- Kid- young goat
- Doe/Nanny- sexually mature female
- Billy/Buck- male Goat
- Wether- castrated male

Reproductive Summary

- Puberty 6-8 months of age
- Estrus 21 d
- Gestation 150 d
Facilities and Equipment

- Sheep and Goat netting
- Barbed wire 10+ strains
- Electric fence
- Many options no perfect solution

"if you can see through it or blow smoke thru it, a goat can get thru it"

-Unknown

Water Consumption

- 110 lb ~ 1 gallon/d
- Diet dependent
- Hot weather- increase
- Cold weather- decrease
- Lactation increase requirement
  ~ quart per pint produced
### Nutrient Requirements for meat and fiber producing goats

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Young Goats</th>
<th>Does (Dry &amp; pregnant)</th>
<th>Lactating does (80 lbs)</th>
<th>Buck (80-120 lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Daily Intake, lb</td>
<td></td>
<td></td>
<td></td>
<td>4.5</td>
</tr>
<tr>
<td></td>
<td>2.0</td>
<td>3.0</td>
<td>4.5</td>
<td>5.0</td>
</tr>
<tr>
<td>TDN, %</td>
<td></td>
<td></td>
<td></td>
<td>68</td>
</tr>
<tr>
<td></td>
<td>68</td>
<td>65</td>
<td>55</td>
<td>60</td>
</tr>
<tr>
<td>CP, %</td>
<td></td>
<td></td>
<td></td>
<td>14</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>12</td>
<td>10</td>
<td>11</td>
</tr>
<tr>
<td>Calcium, %</td>
<td></td>
<td></td>
<td></td>
<td>0.6</td>
</tr>
<tr>
<td></td>
<td>0.6</td>
<td>0.4</td>
<td>0.4</td>
<td>0.4</td>
</tr>
<tr>
<td>Phosphorous, %</td>
<td></td>
<td></td>
<td></td>
<td>0.3</td>
</tr>
<tr>
<td></td>
<td>0.3</td>
<td>0.2</td>
<td>0.2</td>
<td>0.2</td>
</tr>
</tbody>
</table>

Nutrition

Nutrient Requirement Calculator-
http://www2.luresext.edu/goats/research/nutritionmodule1.htm
Example

- Boer cross
- Wether 30 lb
- Gain .20 lb day
- Slightly active
  - TDN~60%
  - CP~12%
Example results

- Requirements
  - TDN 0.84 lb
  - CP 0.20 lb
  - C 2.04 g
  - P 1.43 g

Sample Diet

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount fed, lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fescue Hay</td>
<td>1</td>
</tr>
<tr>
<td>DGGS w/s</td>
<td>.5</td>
</tr>
<tr>
<td>Mineral Supplement</td>
<td>Free Choice</td>
</tr>
<tr>
<td>Vitamin Supplement</td>
<td>Free Choice</td>
</tr>
</tbody>
</table>
Minerals and Vitamins

- Complete goat mineral
- 50:50 trace mineralized salt and Dicalcium phosphate
- Standard beef mineral

Vitamin A & D depending on season

Youth Livestock Projects

- Nutrition
  - Commercial “Cabrito” feeds
    - Purina Goat Chow®
  - ACCO Cabrito ®
  - Local CO-OP
Drug Usage

- Consult veterinarian
- Injection sites

Diagrams from Lionel Dawson, D.V.M., M.S., Dip., ACT, Administration of Injectable Drugs and Vaccines in Goats. Proceedings of the Langston annual goat field day proceedings

Drug Usage

Intramuscular  Sub-cutaneous

Diagrams from Lionel Dawson, D.V.M., M.S., Dip., ACT, Administration of Injectable Drugs and Vaccines in Goats. Proceedings of the 2005 Langston annual goat field day proceedings
Drug Usage

- Approved drug use for goats
  - See the handout

**A Guide to Drug Usage in Goats**

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*American Institute for Goat Research*
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Cited Literature

Texas 4-H Meat Goat Guide
http://texas4-h.tamu.edu/publications/as34060.pdf

Types of Fencing for Goats
http://www.luresext.edu/goats/library/field/hart01.html

Nutrition for Production
http://www.luresext.edu/goats/library/field/hart06.pdf

A Guide to Drug Usage in Goats
http://www.luresext.edu/goats/library/field/DawsonA05.pdf

Administration of Injectable Drugs and Vaccines in Goats
http://www.luresext.edu/goats/library/field/DawsonB05.pdf