N		
<u>ÖAT</u>	REPRODUCTIVE ASPECT	S
a tion Aqienne	FEMALE:	
HEVRE Cherie	 Age of puberty 	7-10 months
	Breeding weight	60-75% of adult weight
	Estrous cycle	
	- length	
		tail wagging mounting bleating
	Ovulation	12-36 brs from onset of standing bea
	Gestation length	146-155 davs
	Breeding season	
,	Seasonal anestrous	
b.	 Buck effect on estrou 	spositive
-/	ΜΔΙΕ·	
	• Age of puberty	
e	Breeding age	
	Breeding season	all year
	Breeding ratio	1 buck:20-30 does
Pr		
	PHYSIOLOGICAL DATA	
	Temperature	101.7-104.5°F (38.7-40.3°C)
	Heart rate	
	Respiration rate	
	Ruminal movements	1-1.5/minute
		ты
	Provide proper housing	
	Practice good sanitation	
	Provide adequate nutrition	
	• Provide clean water	
	 Observe how much feed (hay, minerals, concentrate) is left over 	
	Observe your animals daily	
	Observe the feces of your animals	
	 Clean pastures and exercise lots 	
	 Become familiar with the common diseases 	
	 Investigate the source of strange smells 	
	 Use your veterinarian 	for diagnosis
	A HEALTHY GOAT	
	• Eats well	Chews its cud
	Has a shiny coat	 Has strong legs and feet
	 Is sociable 	 Has bright and clear eyes

(6 3) (6 r, 5)

... 2 ... BASIC MEAT GOAT FACTS

SIGNS OF ILLNESS

- Off feed, off water
- No sign of cud chewing
- Standing apart from group
- Rough hair coat
- Abnormal temperature
- Heavy mucous in nose and mouth
- Diarrhea
- Runny eyes
- Limping
- Hair falling out
- Swelling on any part of body
- Pale mucosa of eyes and mouth

PURCHASED ANIMALS

• Isolate animals for a month upon arrival on farm

- Vaccinate
- Take fecal samples, have them analyzed, treat goats with the 3 dewormers of different families, take another fecal sample 12 days later to confirm absence of eggs
- Test for certain diseases (check with your veterinarian)
- Coccidiosis control program
- Identification tag
- Hoof trimming, other

HERD HEALTH PRACTICES

VACCINATION PROGRAM

If possible, always weigh animals prior to vaccination to 1) calculate and inject the correct dosage of the vaccine and 2) assess body condition

- Enterotoxemia and tetanus Clostridium perfringens types C, D + Tetanus Toxoid in one vaccine
 - Adult malesOnce a year
 - Breeding females......Once a year (4 to 6 weeks before kidding) or twice a year: - 4 to 6 wk before breeding, then 4 to 6 wk before kidding
 - Kids.....Week 8, then booster on week 12

DEWORMING PROGRAM

If possible, always weigh animals prior to deworming to 1) calculate and inject or drench the correct dosage of the dewormer and 2) assess body condition. 3) *Administer all drugs orally:* pour-on drugs applied as such are poorly absorbed. 4) Underdosing of goats because of failure to weigh the animals or because of underestimating their live weight is a very common but costly mistake because this may lead to faster parasite resistance to dewormers. Therefore, determine the dose according to the heaviest animal in the group. On the other hand, overdosing of certain dewormers can cause health problems. 4) Goats metabolize drugs much more rapidly that other species of livestock and require a higher dosage. *RULE OF THUMB: goats should be given a dose 1.5 to 2 times the dose for sheep or cattle; levamisole, 1.5X; all others, 2X.* 5) Administer all drugs orally: pour-on drugs applied as such are poorly absorbed. 6) If deworming animals before kidding, make sure that the dewormer used is safe for pregnant does. 7) Natural immunity and resilience wanes following the time of kidding (also called the periparturient period). This means that even the resistant does can become susceptible to parasites during this period. 8) Kids and pregnant does are more susceptible to parasite burdens.

... 3 ... BASIC MEAT GOAT FACTS

Become familiar with *the FAMACHA system* which a new method of selective deworming. The FAMACHA system is based on the level of anemia of an animal by comparing the color of the lower mucus membrane of the eye to a colored chart. Anemic animals will have a pale color, whereas healthy animals will have a red color. The advantages of using the FAMACHA system include decreased number of treated animals, slower resistance to dewormers, selection of more resistant animals, identification of anthelmintic resistance, and decreased costs because only animals that need treatment are treated. The FAMACHA system should be used with good management and alternative means of controlling parasites such as alternative forages, good nutrition, sound pasture management, and exposing goats to browse type forages.

COCCIDIOSIS CONTROL

Coccidiosis usually strikes young animals during periods of stress such as weaning. Level of control depends on the level of infestation

- At weaning:
- Coccidiostat drench and/or
- Coccidiostat in water tank (4 oz. in 25 gallons of water)
- At other times (if necessary): Mineral with Bovatec

- Decoquinate in feed

KID HEALTH PRACTICE

AT BIRTH

- Dip navel in iodine
- Kids should ingest 10% of their live weight in colostrum during first 12 to 24 hours of life.
- Colostrum should be ingested or bottle-fed (in case of weak kids) as soon as kids have a suckling reflex. In cases of extremely weak kids, they should be tube-fed. It is very important to make sure that the tube is inserted into the esophagus (you should be able to see the tube go down as it is inserted). The producer must be certain that all newborn kids get colostrum soon after birth (within the first hour after birth, and certainly within the first 6 hours) because the percentage of antibodies found in colostrum decreases rapidly after parturition.

CASTRATION

• Elastrator (method of choice: bloodless, less pain)

The question is: why castrate if you will sell your buck kids for meat at 4 to 5 months of age? However, if not castrated, buck kids should be separated from doe kids at weaning, otherwise some unplanned breeding may occur.

FLUSHING

Feeding strategy to increase ovulation rate

- Starting 3-4 weeks before the breeding season, and throughout the breeding season, increase the plane of nutrition of does to be bred. Overly conditioned and fat does will not respond to flushing.
 - Switch does to high quality pasture or
 - Supplement does with 1/2 lb cracked corn or 1/2 lb whole cottonseed/head/day.

AFTER BREEDING

To insure proper embryo development

- During the first month of pregnancy
 - Keep the plane of nutrition similar to that of flushing period

... 4 ... BASIC MEAT GOAT FACTS

IMPORTANT PRODUCTION TRAITS ADAPTABILITY REPRODUCTION - Ability to survive in given environment - Conception rate - Ability to reproduce in given environment - Kidding or prolificacy rate - Is a lowly heritable trait - Non-seasonality **GROWTH RATE** CARCASS CHARACTERISTICS - Pre-weaning gain - Dressing percent - Post-weaning gain - Lean:fat:bone - Muscle distribution **BODY CONDITION SCORE** To monitor and fine tune nutrition program To "head off" parasite problem • Visual evaluation is not adequate, has to touch and feel animal Areas to be monitored - Tail head - Ribs - Pins - Hocks - Shoulder - Back bone - Edge of loin - Longissimus dorsi • Scale - Thin: 1 to 3 - Moderate: 4 to 6 - Fat: 7 to 9 Recommendations - End of pregnancy 5 to 6 - Start of breeding season 5 to 6 - Animals should never have a body condition score of 1 to 3 - Pregnant does should not have a body condition score of 7 or above toward the end of pregnancy because of the risk of pregnancy toxemia - A body condition score of 5 to 6 at kidding should not drop off too quickly during early lactation FENCING Perimeter Fence · Smooth electrified wire At least 42 inches tall - 6 to 8 inches near the ground - 8 to 12 inches at the top strands - Example (inches from the ground): 6 - 14 - 22 - 32 - 42 - (52) Perimeter Fence • Woven wire (6" X 6") - Effective - Costs at least twice as much as 5 strands of smooth electrified wire - Horned goats can get caught - Place an electric wire offset about 9 inches from the woven wire fence and about 12 to 15 inches from the ground - Reduces control of forage growth at fence line • Woven wire (6" X 12") - Effective - Cheaper - Horned goats usually do not get caught P.O. Box 314, Lancaster, ON KOC 1N0 • Phone (613) 347-1103 • Fax (613) 347-1105 • www.canadianmeatgoat.com

Interior Fences

- Two to three strands of wires (braided or tape) with tread-in posts
- Electronet

GRAZING MANAGEMENT

In a pasture situation, goats are "top down" grazers. They start to eat seedheads or the top of the canopy and progressively take the forage down. This behavior results in uniform grazing. Goats do not like to graze close to the ground. Grazing goats have been observed to 1) select grass over clover, 2) prefer browse over herbaceous plants, 3) graze along fence lines before grazing the center of a pasture, 4) refuse to graze forage that has been trampled and soiled. These observations have been put to use in the grazing management of goats: it is preferable to give them a daily allowance of forage and to move the fence accordingly rather than to let them roam freely in a large pasture. This type of management, called control grazing, was developed in Europe and is implemented very successfully in New Zealand and numerous other parts of the world. Control grazing results in better animal performance, higher stocking rates, and increased pasture productivity.

SO, YOU WANT TO GET IN THE GOAT BUSINESS

Are you really, really ready?

- Are your fences, pens, chutes goat proof?
- Is your grazing land adequate?
- Do you have sufficient supplemental feed on hand?
- Is your predator controller in place?
- In your medicine cabinet, do you have
 - Dewormers - Vaccines
 - Iodine - Antibiotic ointment
 - Insecticidal powder - Thermometer
 - Stomach tube - Hoof trimmers
- Do you know the address and phone number of your county extension office?
- Do you the names of your county extension livestock, forage, and 4-H agents?
- Have you discussed your new venture with your local veterinarian?
- Have you alerted your next door neighbors to the possibility of excessive noises, exotic odors, sexual activity during the breeding season, animals getting out, and allayed their fears of the spreading of diseases?

Jean-Marie Luginbuhl, Extension Meat Goat Specialist North Carolina State University College of Agriculture & Life Sciences

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