

Traits that influence productivity are controlled by two general factors:

GENETICS
and
ENVIRONMENT

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Genetic management comes down to two questions:

- 1. Which males and females to use as breeding stock?\$ SELECTION decisions
- 2. Which male(s) and females to match?
 - MATING decisions

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Selection

We split animals into two general groups based on traits of interest:

- 1. Those we like and use as breeding stock (or sell for breeding).
- 2. Those we dislike and remove from the breeding herd (sell as market animals).

Selection

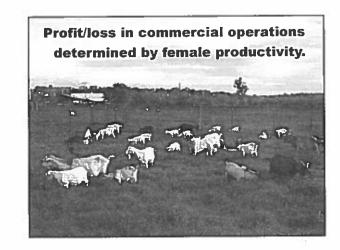
We may be choosing among individual animals within a breed.

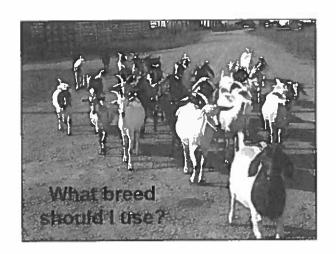
and/or

We may be choosing among different breeds.

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BREED OPTIONS

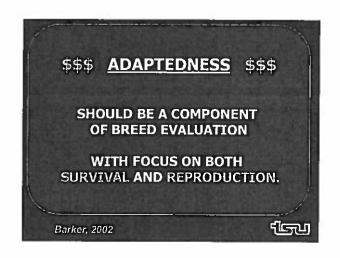
There are not many goat breed options in the US.

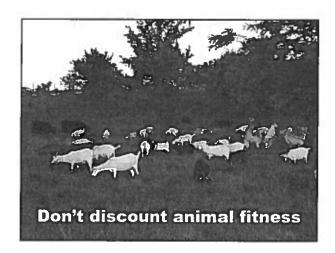
Outside of the hair sheep class, numerous sheep breed options are available for meat and fiber.

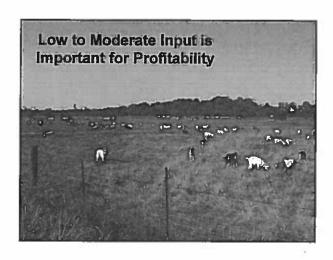
Consider heritage breeds.

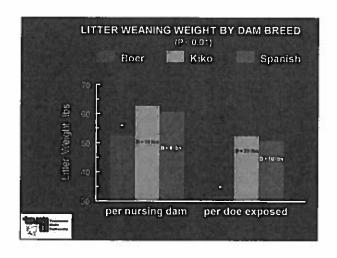


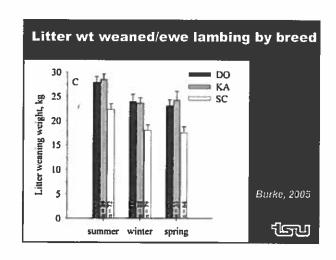




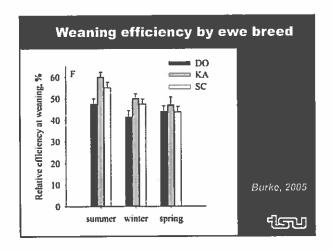




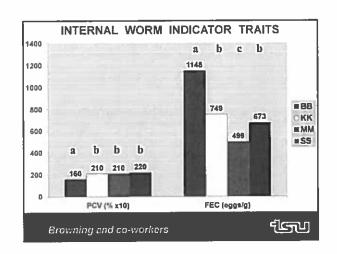


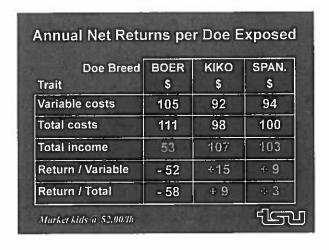


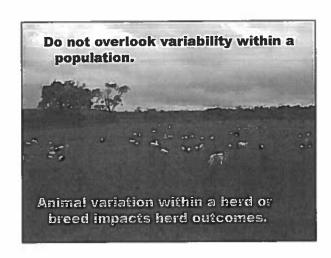
FLA Talk



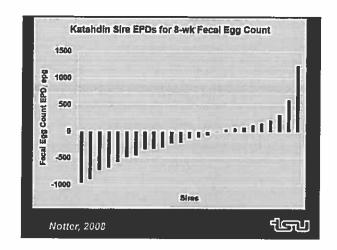
Breed	Fecal egg count (eggs per gram)	Packed cell volume	No. of dewormings	% animals dewormed
Suffolk	3.577	22.9	113	90.3
Gulf Coast Native	1,639	29.0	20	25.5
Katahdin	1,435	26.0	41	52.8
St. Croix	866	27.0	12	16.8

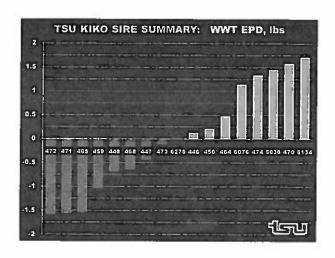


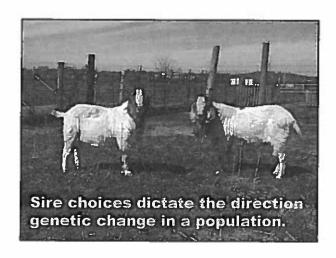


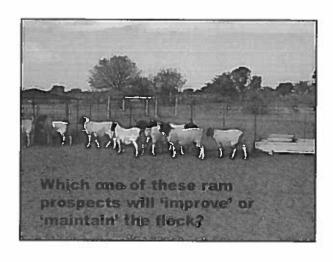


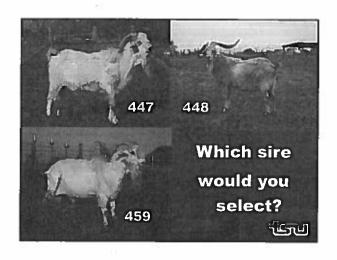
Weaning: TSU Spanish Does (4 Matings)				
Doe	Litter Size	Litter Wt		
640	2.25	87.1		
650	2.00	87.7		
622	2.25	79.1		
Span Avg	1.55	54.7		
Herd Avg	1.32	49.7		
636	1.00	37.7		
606	1.00	33.7		
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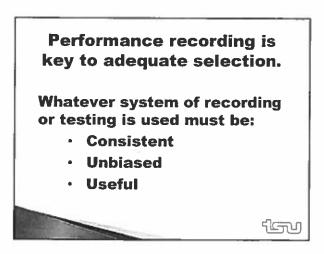


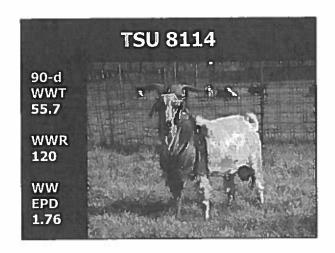












SELECTION

Visual Appraisal:

Animals still need to be assessed for conformation and structural soundness.

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SELECTION

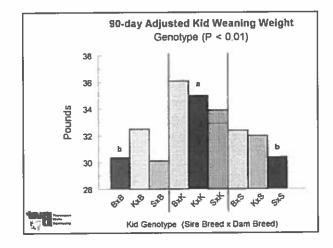
Determine what <u>set</u> of traits are important to achieving herd or flock objectives, then select animals that will best meet those objectives.



Mating and Mating Systems

- After selection, mating is designed to match up particular sires and dams to achieve the desired change in the next generation.
- Mating systems vary.

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How does a breed best fit within a production system.

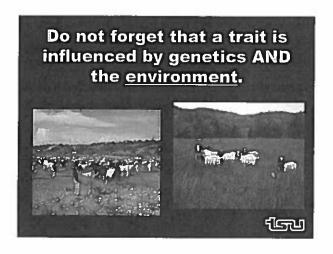
- ☐ Maternal Breed?
- ☐ Terminal Sire Breed?
- ☐ General or Multi-Purpose Breed?
- Novelty or Specialty Breed?

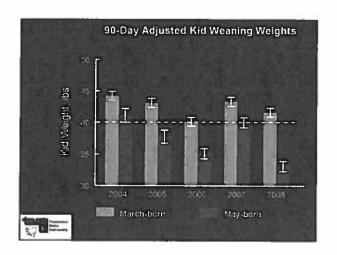
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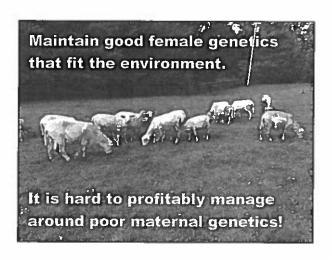
Change through genetic management depends on:

- Variability within and between breeds
- > Adequate selection techniques
- > Production environment

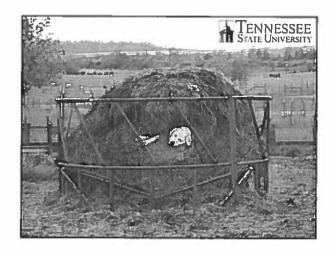
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FLA Talk