HOUSING, EQUIPMENT AND STRUCTURES FOR SMALL RUMINANTS

Ann Starbard
ENVISION, PLAN, IMPLEMENT

✦ Take time to imagine ideas
✦ Think, Visit, Consult
✦ Plan and Share Plans
✦ Present & Future Use
✦ Alternatives

Housing, Equipment & Structures, Ann Starbard 19 May 2017
WHERE TO START?

* Shelter - site placement, weather patterns, seasonality, animal flow, noises, safety, space, ventilation, exercise, feed & water, storage

* End product production facility - connected?

* Site Layout - roads, pastures, visitors, use

* Regulations and permits
Considerations:

1. What Style building - Traditional barn, alternative bldg, special features

2. Pen - 16 sq.ft per animal, 1.5 ft. shared feeder space, 25 sq.ft maternity area

3. Feed Storage - hay- 250 ft³/ton square bales, 310 ft³/ton large round bales

4. Foundations, Water lines, Floors, Septic system, Heating and ventilation
Considerations:

5. Parlor Holding Area - 7 Sq.Ft/ Animal

6. Water consumption- 1-3 gal/animal/day; 25 animals per waterer

7. Pasture - .2-.5 acres/animal, browse area-goats

8. Exercise lot - 30-50 sq.ft/ animal

9. Lighting, outlet placement, gates, doors, flow

10. Milking area regulations
Sketch from “How to Build Animal Housing” Carol Ekarius
• Goat/Sheep Processing Facility
Equipment - Milking

Stands, Stanchion, parlor - headlocks

Vacuum system - Bucket milker, claw & pipeline

Filter; Cleaning - CIP, COP, Manual

Chill milk - buckets, bulk tank, plate cooler

Record Keeping
Equipment - Processing

- Pasteurizer - hot water jacket, steam
- Cheese Vat - heat/cool, agitate, proper size
- Whey table/sink, Make table, storage racks
- 3 bay sink, dishwasher, drying racks/area
- Regulations, record keeping, HACCP
- Aging room, refrigerated area (Walk-in, refrigerators), packaging, distribution
When in doubt, Ask!