

# Livestock / Animal Husbandry Module

**Purpose:** Extend AOFS beyond crops to monitor, document, and support livestock management, including routine care and veterinarian tasks.

## Key Functions:

- **Animal Health & Veterinary Records**
  - Record vaccinations, medications, treatments, and veterinary visits
  - Track illness events or recovery periods
- **Routine Husbandry Activities**
  - Hoof trimming, grooming, and cleaning schedules
  - Feeding and watering events
  - Breeding, birthing, and growth tracking
- **Environmental Monitoring**
  - Barn / pen temperature, humidity, and air quality
  - Optional automated sensors for critical livestock areas
- **Production Metrics**
  - Milk yield, egg production, weight gain
  - Feed and water consumption

## Human Input & Logging:

- Staff and veterinarians manually log treatments, observations, and routine care events
- All events are timestamped, linked to individual animals or pens, and synchronized with Farm/HQ controllers

## Integration Guidelines:

- Data should follow AOFS standardized formats for logging and analytics
- Optional AI or analytics can provide predictive health insights, but **manual logging remains mandatory**
- Must support offline operation; sync to farm or HQ controllers when internet is available

## Benefits:

- Enables farms to maintain **comprehensive health and care records**
- Facilitates compliance with veterinary and animal welfare regulations
- Supports data-driven optimization of feeding, care, and production practices
- Enables research or experiments on different husbandry practices, feeding regimens, or housing conditions

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