



The Agricultural Operations Act



- * Proclaimed November 28, 1996
- * Proclamation provided:
 - **Regulations**
 - Appointment of the Agricultural Operations Review Board
 - Repeal of The Pollution (by Livestock) Control Act, 1984

Agricultural Operations Act

Intensive Livestock Provisions

- ** ensure that ILO's develop and operate according to plans which protect ground and surface water Nuisance Provisions
- * protects farmers from unwarranted nuisance lawsuits
- * provides a mechanism for resolving disputes of nuisance

Intensive Livestock Provisions

Deals with establishment of any new or expanding ILO

- * submit plans for approval
- * producer follows his/her plan of how the manure will be stored and handled

Intensive Livestock Provisions

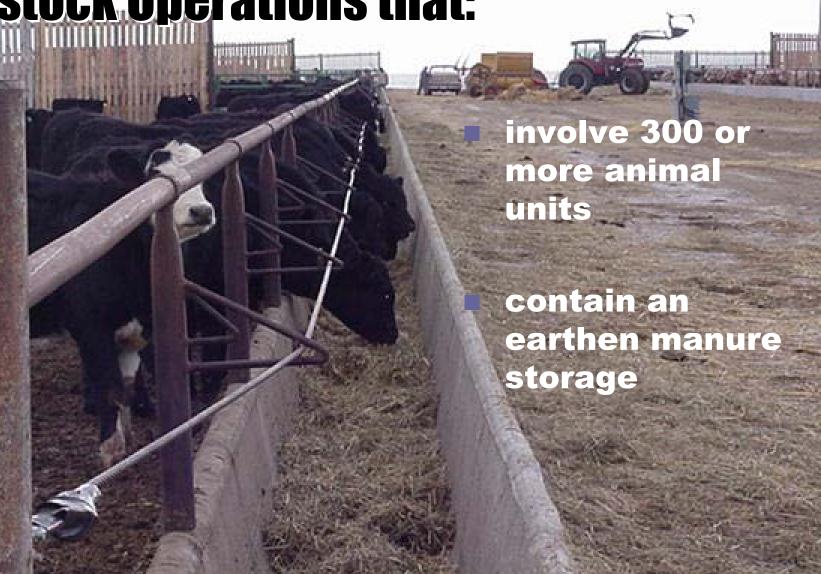
*** WASTE STORAGE**

- Cattle Pen area
- Storage Pond
- Site Specific Evaluation
- Design based on conditions
- Sensitive sites may be refused

*** WASTE MGT.**

- manure and dead animals
- use manure as a fertilizer
- written agreements for access to land

Approval is required for Intensive Livestock Operations that:







Definitions

* Animal Unit is essentially 1000 pounds of cattle, pig, chicken, horse, sheep, goats, elk, deer or bison

- Intensive Livestock
 Operation means
 confining animals to a
 space of less than 370
 square meters per animal unit
 - 11 cows per acre

Animal units are used in defining an intensive livestock operation.

Animal unit (AU) is a means to compare different livestock operations based on animal weight or nutrient output

1 AU = 1 cow or bull

= 1.5 feeder animals

= 2 replacement heifers

= 4 calves

Information for Waste Storage Plans

Holding ponds

- *** Location**
- *** Size**
- *** Groundwater Records**
- *** Water Table**
- * Soils
- *** Construction Techniques**
- *** Monitoring**



* Prescreening - well records, topographical maps,

air photos.

* Test holes - minimum 1 m. below holding pond.
- soils analysis

waler levels after 24 hr.

Detailed site investigation may be required - consultant.



Typical Holding Pond Design

- *** Topographic survey to define runoff area.**
- * 7.5 cm(3 in.) runoff from contributing area.
- Shallow evaporation ponds, or
- Deep holding ponds for large feedlots or limited area - may require emptying.
- **Disc and compact surface.**
- *** Engineered design may be required.**
- * Monitoring wells may be required.













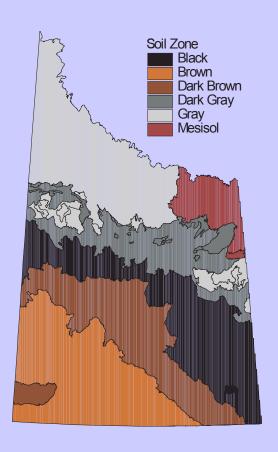
Information for Waste Utilization Plan

Manure Use

- *** Nutrient Content**
- * Volume
- *** Method of Application**
- *** Crop Nutrient Requirements**
- *** Land Areas**

Manure Utilization

- Balance nutrient application to crop use according to:
 - Soil climatic zone
 - Intended cropping patterns (crop rotation, continuous cropping/summer fallow)
 - Manure nutrient content
 - manure nutrient losses: due to application method
 - soil tests
 - Manure application frequency



BMP's

- manure application to land should maintain minimum
 30 m separation distance from water courses
- 300 m setback (no incorporation)
- contaminated runoff shall be contained on operator's property (feedlots and stockpile areas)









Information for Waste Utilization Plans (cont'd)

DEAD ANIMALS

- expected death loss
- interim storage procedures
- final disposal





Making Application

- **Regional Specialist Lead Contact**
 - guides preparation of application
 - forwards package to Provincial Specialist
 - **Referrals based on set triggers**
 - Saskatchewan Environment
 - Saskatchewan Watershed Authority
 - Rural Municipality
 - Saskatchewan Government Relations and Aboriginal Affairs
 - Saskatchewan Hughways and Transportation
 - any other Agency Necessary

The Review

- **proximity of water resources**
- * adequacy of the geotech evaluation
- *** soil conditions**
- * adequacy of storage design
- * adequacy of dead animal management
- * nutrient balance of the management plan
- land area available for spreading

Permits, Approvals, Licenses

- *** Agriculture, Food & Rural Revitalization**
 - The Agricultural Operations Act
- * Saskatchewan Watershed Authority
- *** Saskatchewan Environment**
- *** Highways and Transportation**
- * Municipal Government
- * Health
- *** Local Municipality**

PFRA Assistance

*** Water Supply Development**

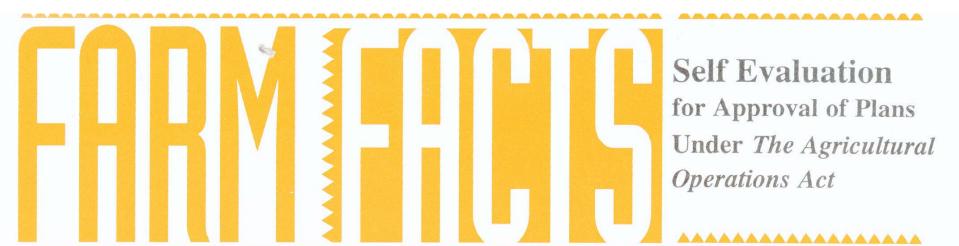
*** Site Survey**

Design for Runoff Containment

Rural Municipalities

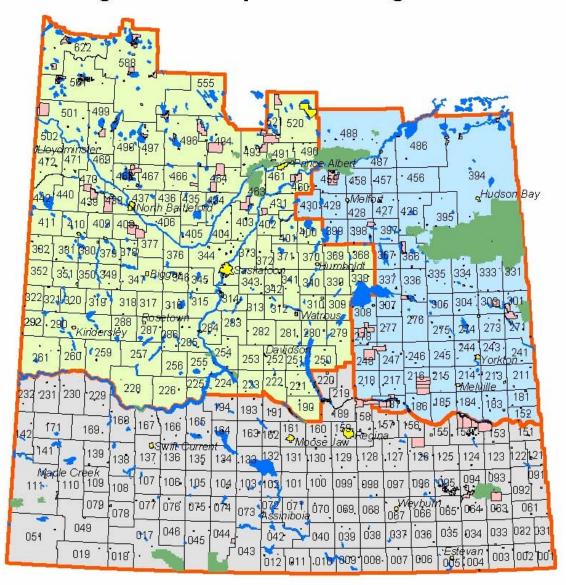
- * Authority for land use / siting
 - roughly 298 rural municipalities
 - about 1/2 have by laws in place
 - local support is critical





Produced by Saskatchewan Agriculture and Food

Agricultural Operations Regions



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