

## **15.2 Commercial Feedlots**

### **15.2.1 Purpose**

These regulations are designed to allow feedlots for feeding of livestock, furbearers, and poultry at the same time to protect the adjoining uses from odor, run off, and other incompatible or undesirable characteristics associated with feed lots.

### **15.2.2 General Requirements**

- a) All feedlots as defined by this Code are permitted as conditional uses subject to the provisions of this ordinance, the requirements of the North Dakota Department of Environmental Quality, and approval by the Commission.
- b) All commercial feedlots shall be designed and constructed with all reasonable preventative measures to avoid surface run-off including construction of sealed collection and retention ponds.
- c) Where appropriate, there shall be sufficient drainage to avoid pollution of the ground and surface water from the standing effluents.
- d) Commercial feedlots shall not be placed in the floodplains.
- e) An applicant, as part of the site approval application, shall submit a plan for removal and disposal of the liquid solid waste generated by the commercial feedlot.
- f) An “animal unit equivalent” is a unitless number developed from the nutrition and volume characteristics of manure for a specific livestock type. The term “animal units” is used to normalize the number of animals (e.g., head) for each specific livestock type which produce comparable bulk quantities of manure. The animal equivalent units for types of livestock and the number of livestock for facility size thresholds of 1,000 animal units (AU), and so forth, are listed in the following table.
- g) No feedlot shall be located nearer than one mile from a residence other than the owner/operator’s, residential development in an unincorporated area or city limits in the county, park, cemetery, church, or school.

### **15.2.3 Water Resource Setbacks**

An applicant of a new commercial feedlot operation that has more than 1,000 animal units shall not locate or establish that operation:

- a) Within a delineated source water protection area for a public water system.
- b) Within 1,200 feet of a private ground water well which is not owned by the operator or within 1,500 feet of a public ground water well which does not have a delineated source water protection area.
- c) Within 1,000 feet of surface water which is not included in a source water protection area.

**Equivalent Numbers of Livestock (hd=head)**

**For Four Sizes (a.u.=animal equivalent ) of Animal Feeding Operations**

<b>Livestock Type Equivalent</b>	<b>Animal Unit</b>	<b>300 a.u.</b>	<b>1,000 a.u.</b>	<b>2,000 a.u.</b>	<b>5,000 a.u.</b>
1 horse	1.5	200 hd	666 hd	1,333 hd	3,333 hd
1 dairy cow	1.33	225	750	1,500	3,750
1 mature beef	1.0	300	1,000	2,000	5,000
1 beef feeder-finishing	1.0	300	1,000	2,000	5,000
1 beef feeder-backgrounding	.75	400	1,333	2,667	6,667
1 mature bison	1.0	300	1,000	2,000	5,000
1 bison feeder	1.0	300	1,000	2,000	5,000
1 swine>55 lbs	0.4	750	2,500	5,000	12,500
1 goose or duck	0.2	1,500	5,000	10,000	25,000
1 sheep	0.1	3,000	10,000	20,000	50,000
1 turkey	0.0182	16,500	55,000	110,000	275,000
1 chicken	0.01	30,000	100,000	200,000	300,000

**Setback Distances for Animal Feeding Operations**

<b>Number of Animal Units</b>	<b>Hog Operations</b>	<b>Other Operations</b>
100-299	1 mile	0.50 mile
300-999	1.5 miles	1 mile
1,000 or more	2 miles	1.5 miles

**15.2.4 Application Procedure and Requirements**

The application for a conditional use permit to operate a facility for a commercial feeding operation shall include a scaled site plan. If the facility will handle more than 1,000 animal units, the scaled site plan shall be prepared by a registered land surveyor, a civil engineer, or other person having comparable experience or qualifications. The application shall also list or provide:

- a) The proposed number of animal units.
- b) Total acreage of the site of the facility.
- c) Existing and proposed roads and access ways within and adjacent to the site of the facility.
- d) Surrounding land uses and ownership, if the operation will have the capacity to handle more than 1,000 animal units.
- e) A copy of the permit application submitted by the applicant to the North Dakota State Department of Environmental Quality.