find online at: www.nda.nebraska.gov or www.cumingco.com under Planning & Zoning

Nebraska Animal Feeding Operation Siting Matrix

A	Livestock Operation Size	Number		Points	Score
1	Number of animals (for multiple species or production phases, record separately)				
2	Animal Units (see Animal Units tab for calculator)				
		Yes	No		
1	Large livestock operation (1,000 animal units or more)				
2	Medium livestock operation (300 animal units to 999 animal units)				
3	Small livestock operation (less than 300 animal units)				

NDEQ STATUS

B	Environmental Protection Plans	Yes	No	Points	Score
1	NDEQ has issued letter that no construction and/or operating permit is required	☐	☐	30	0
2	All NDEQ construction and operating permit(s) will be in place prior to operation, as required, including the following (if not applicable, write NA):	☐	☐	30	0
3	Nutrient Management Plan				
4	Animal Mortality Management Plan				
5	Request for Inspection of Animal Feeding Operation (Title 130 - Form A)				
6	Permit Application (Title 130 - Form B)				
7	Applicant Disclosure (Title 130 - Form C)				
8	Livestock Feeding Operation Narrative				
9	Livestock Feeding Operation Site Plan, Construction Drawings, and Maps				
10	Construction Quality Assurance Plan				
11	Manure Production and Storage/Treatment Calculations				
12	Operation and Maintenance Plan				
13	Chemical Management Plan				
14	Emergency Response Plan				
15	Sludge Management Plan				
16	Livestock Operation Closure Plan				
17	Best Management Practices for Odor Control				
	SUBTOTAL (subtotal not to exceed 30 points for this section)				0

SETBACKS/SEPARATION DISTANCES

C	Siting relative to dwellings and public places (refer to Separation Distances tab)	Yes	No	Points	Score
1	Separation meets or exceeds county setbacks, or an impact easement / distance waiver is in place	☐	☐	30	0
	If YES, move to Section D. If NO, answer questions C2-C7.				
	Enter number of dwellings (Formula may be used to calculate points, number = N)	Number	Formula		
2	Within 1.5 times the separation distance for odor and the separation distance for odor		(5-N) x 2	0	0
3	Within the separation distance for odor and 1/2 the separation distance for odor		-1 x N^2	0	0
4	Within 1/2 the separation distance of odor		-10 x N^2	0	0
		Yes	No	Points	Score
5	If dwellings or public places exist within 1.5 times the separation distance for odor, have verified that none are located downwind of the site for prevailing wind direction(s) - via representative wind rose (see tab) or documented local weather data	☐	☐	5	0
6	If dwellings or public places exist within the county setback (or separation distance for odor if no county setback), have verified that none are located downwind of the site for prevailing wind direction(s) - via representative wind rose or documented local weather data	☐	☐	15	0
7	Was the Nebraska Odor Footprint Tool or other third-party, science-based tool used to assess siting relative to impacts on private dwellings and public places?	☐	☐	2	0
	SUBTOTAL (total not to exceed 30 points for this section)				0

OTHER CONSIDERATIONS

D	Environmental and Zoning Compliance Record	Yes	No	Points	Score
1	Owner has operated an animal feeding operation (AFO) for at least 5 years AND has been issued NO judicial enforcement action by a State or Federal Department of Justice within the last 5 years	☐	☐	5	0
	SUBTOTAL				0
E	**Water Quality Protection - Livestock Facilities**	**Yes**	**No**	**Points**	**Score**
1	The majority of animals housed within a confinement building	☐	☐	2	0
	For only the facility that contains the majority of manure or effluent, select any that describe the livestock waste control facility:				
2	Open lot with stockpile	☐	☐	0	0
3	Vegetative treatment system for runoff	☐	☐	1	0
4	Runoff containment structures	☐	☐	2	0
5	Roofed manure containment	☐	☐	2	0
6	Concrete-equivalent containment structure	☐	☐	2	0
7	Clay-lined or Geomembrane-lined containment structure	☐	☐	1	0
8	Additional storage capacity (25% or more than NDEQ requirements)	☐	☐	2	0
9	Select the smallest separation distance between any well used for domestic purposes and a Livestock Waste Control Facility:				
	100 to 150 feet	☐	☐	0	0
	151 to 300 feet	☐	☐	1	0
	301 feet to 1,000 feet	☐	☐	2	0
	SUBTOTAL (total not to exceed 15 points for this section)				0
F	**Odor and Dust Control for Facilities**	**Yes**	**No**	**Points**	**Score**
	Check all that apply for the majority of animal confinement or manure storage:				
1	Biofilter treatment of exhaust air from fans (primarily for odor control)	☐	☐	3	0
2	Oil/water sprinkling for dust control in animal areas	☐	☐	2	0
3	Electrostatic/Ionization system for dust control in animal areas	☐	☐	2	0
4	Windbreaks placed to intercept air emissions	☐	☐	2	0
5	Solids routinely separated from liquids and:	☐	☐	1	0
	Stockpiled for later application to land	☐	☐	0	0
	Composted, dried and used for bedding, or equivalently treated.	☐	☐	1	0
6	Cover on manure storage or first (settling) cell of multi-cell system	☐	☐	1	0
	Impermeable cover with flare or gas treatment	☐	☐	2	0
7	Aerobic treatment	☐	☐	1	0
8	Anaerobic digester	☐	☐	3	0
9	Other supplemental odor reduction measures (supported by verifiable scientific data)	☐	☐	2	0
	SUBTOTAL				0

G	Manure Application Practices	Yes	No	Points	Score
1	Select the primary method of manure application under normal conditions for the majority of manure applied and indicate any control practices followed for application to 50% or more of the land receiving manure:				
1a	Subsurface application (also referred to as "injection")	☐	☐	3	0
1b	Surface-applied solids	☐	☐	-2	0
	Incorporated within 2 days of application	☐	☐	3	0
	Incorporated within 3 to 7 days of application	☐	☐	2	0
	Incorporated prior to planting but more than 7 days after application	☐	☐	1	0
1c	Surface-applied slurry or effluent (excl. sprinkler irrigation)	☐	☐	-5	0
	Application equipment discourages drift and encourages entry into soil	☐	☐	2	0
	Incorporated within 2 days of application	☐	☐	3	0
	Incorporated within 3 to 7 days of application	☐	☐	1	0
1d	Sprinkler irrigation	☐	☐	-3	0
	Utilize drop nozzles or distribution hoses	☐	☐	1	0
	Utilize a monitoring and alarm system	☐	☐	1	0
	Irrigation distribution system has a complete disconnect from the water source or appropriate mechanical devices, as specified by NDEQ, during application	☐	☐	1	0
	Irrigation distribution system does NOT have a complete disconnect from the water source during application or appropriate mechanical devices, as specified by NDEQ	☐	☐	-2	0
2	Cover conditions for manure application (Indicate all that apply for the selected method and majority of land receiving manure)				
	Conservation tillage is implemented	☐	☐	1	0
	No-till farming is implemented	☐	☐	2	0
	Application is primarily to fields with a growing crop	☐	☐	1	0
	Application is primarily to fields with an established crop canopy	☐	☐	2	0
	Cover crops or additional approved erosion-control practices are used	☐	☐	2	0
	SUBTOTAL (total not to exceed 6 points for this section)				0

H	Manure Application Separation	Yes	No	Points	Score
1	Additional separation provided, above and beyond minimum requirements, from land application areas to closest dwelling or public place. Applies to all application areas.				
	Additional 50 to 100 feet	☐	☐	1	0
	Additional 101 to 500 feet	☐	☐	2	0
	Additional 501 to 1,320 feet	☐	☐	3	0
	Additional 1,321 to 2,640 feet	☐	☐	4	0
	Additional 2,641 feet and greater	☐	☐	5	0
2	Vegetative buffer (minimum 50 feet width) will be maintained between land application areas and any dwellings or public places	☐	☐	2	0
3	Vegetative buffer (minimum 50 feet width) will be maintained between land application areas and any surface waters	☐	☐	3	0
4	Vegetative buffers present on 25 to 50% of natural surface drains on all application areas	☐	☐	1	0
5	Vegetative buffers present on 51 to 100% of natural surface drains	☐	☐	3	0
	SUBTOTAL				0

I	Additional Assurance of Environmental Protection	Yes	No	Points	Score
1	Assurance that the following plans will be kept current, displayed and/or readily accessible on site, and included in training procedures during operation:				
	Operation and Maintenance Plan	☐	☐	1	0
	Animal Mortality Composting Plan	☐	☐	1	0
	Chemical Management Plan	☐	☐	1	0
	Emergency Response Plan	☐	☐	1	0
	BMP for Odor Control Plan	☐	☐	1	0
	Nutrient Management Plan	☐	☐	5	0
2	Assurance that earthen livestock waste control facilities having compacted-soil liners will be constructed to meet and be verified as having a permeability rate ≤ 0.125 inch/day	☐	☐	1	0
3	Assurance that earthen livestock waste control facilities having geomembrane liners will be installed according to the construction quality assurance / quality control plan and documentation will be maintained	☐	☐	1	0
	SUBTOTAL				0
J	**Traffic**	**Yes**	**No**	**Points**	**Score**
1	Main entrance to livestock operation located on minimum maintenance road	☐	☐	-3	0
2	Livestock operation has a cost-share agreement with the county for road maintenance	☐	☐	5	0
3	Vehicle entrance and turnaround is designed so that traffic will not be required to back into the livestock operation from the county road	☐	☐	3	0
4	Heavy vehicle route established that avoids bridges or roads with weight restrictions	☐	☐	3	0
5	For the primary application method under normal conditions, the livestock operation can avoid county roads to apply:				
	Up to 25% of manure nutrients generated	☐	☐	1	0
	25 to 50% of manure nutrients generated	☐	☐	2	0
	More than 50% manure nutrients generated	☐	☐	3	0
	SUBTOTAL				0
K	**Authorized Representative and Manager Residency**	**Yes**	**No**	**Points**	**Score**
1	Authorized representative lives or will live within one year of beginning operation:				
2	On the site or within the separation distance for odor	☐	☐	5	0
3	Between separation distance for odor and 10 miles of the livestock operation	☐	☐	3	0
4	Between 10 miles and 50 miles of the livestock operation	☐	☐	1	0
5	Manager lives or will live within one year of beginning of operation:				
6	On the site or within the separation distance for odor	☐	☐	5	0
7	Between separation distance for odor and 10 miles of the livestock operation	☐	☐	3	0
8	Between 10 miles 50 miles of the livestock operation	☐	☐	1	0
	SUBTOTAL				0
L	**Neighbor - Community Communication**	**Yes**	**No**	**Points**	**Score**
1	Communication with 100% of the property owners within a one-mile radius	☐	☐	5	0
	SUBTOTAL				0
M	**Economic Impact Factors**	**Yes**	**No**	**Points**	**Score**
1	Will add property value as of county permit issue date by:				
	$50,000-$250,000	☐	☐	1	0
	$250,000-500,000	☐	☐	2	0
	$500,000-$1,000,000	☐	☐	3	0
	More than $1,000,000	☐	☐	4	0
2	Will create the following number of new full-time or equivalent jobs:				
	1 to 3	☐	☐	1	0
	4 to 9	☐	☐	2	0
	10 or more	☐	☐	3	0
	SUBTOTAL				0

N	Landscape and Aesthetic Appearance	Yes	No	Points	Score
	Check all that will apply:				
1	Landscaping plan will be implemented	☐	☐	2	0
2	Visual barriers (i.e. fences, gating, trees) will be put in place	☐	☐	2	0
3	Animal mortality will be managed so as to not be viewable from a public road	☐	☐	1	0
	Handling of animal mortalities will be viewable from public road	☐	☐	-3	0
4	Site designed to facilitate clean surface water drainage away from livestock operation	☐	☐	2	0
5	Separation distance of at least 1.5 times county required distance from centerline of frontage road to livestock facility	☐	☐	3	0
	SUBTOTAL				0
	Cummulative Points				0

Total Score (A project that reaches <u>75 points</u> or above shall be granted a conditional/special use permit by the county) = 0