

SOUTH DAKOTA ODOR FOOTPRINT TOOL

- Procedure to use SDOFT:
- 1 Select South Dakota County from drop down list where site is located.
 - 2 Select Odor Source Type from drop down list for each odor source at the site.
 - 3 Select housing or manure storage type from drop down list for each odor source at the site.
 - 4 Enter size (width and length) of emitting surface for each odor source at the site.
 - 5 Enter odor control technology if any from drop down list for each odor source at the site.
 - 6 View annoyance-free distances at bottom of page (scroll down).
 - 7 Select the annoyance-free curves to be graphed by checking the square on the left bottom of this page.

County of Site Hidden to provide cooperators anonymity

	Source 1	Source 2	Source 3	Source 4	Source 5
Source Type	Swine Barn	Swine Barn	Manure Storage	Dairy Barn	Dairy Barn

Housing Type or Manure Storage	Finishing - Deep Pit	Finishing - Deep Pit	Earthen Storage Basin	Free Stall	Free Stall

Emitting Factor	165	165	63	29	29
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Emitting Surface					
Width (ft)	39	39			
Length (ft)	200	200			

Emitting Area (sq ft)	7800	7800	0	0	0
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	A No Odor Control	A No Odor Control	A No Odor Control	A No Odor Control	A No Odor Control
Odor Control Factor	1	1	1	1	1

Source Emitting Factor	129	129	0	0	0
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Total Odor Emitting Factor (TOEF) 257

SETBACK DISTANCES FROM ODOR SOURCE AT VARIOUS ODOR ANNOYANCE-FREE FREQUENCIES IN FEET

Direction from source	99% Annoyance-free	98% Annoyance-free	97% Annoyance-free	96% Annoyance-free	94% Annoyance-free	91% Annoyance-free
North	6821	3748	2773	2239	1651	1218
East	4425	2302	1618	1444	1025	530
South	4740	2402	1793	1507	1122	645
West	4608	2234	1735	1332	1073	529

Select which annoyance-free curves to show on graph

- ☒ 99% Annoyance-free
- ☒ 98% Annoyance-free
- ☒ 97% Annoyance-free
- ☒ 96% Annoyance-free
- ☒ 94% Annoyance-free
- ☒ 91% Annoyance-free

