

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 cooperator anonymity

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

Housing Type or Manure Storage	Free Stall	Free Stall	Earthen Storage Basin	Free Stall	Free Stall
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Emitting Factor 29 29 63 29 29

Emitting Surface					
Width (ft)	330	114	380		
Length (ft)	1572	320	950		

Emitting Area (sq ft) 518760 36480 361000 0 0

Odor Control Technology	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 1504 106 2274 0 0

Total Odor Emitting Factor (TOEF) 3884

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
Northeast	17043	6682	5531	4799	3783	2473
Southeast	14305	7339	5324	4341	2853	1438
Southwest	15704	7629	5465	4351	2876	1133
Northwest	11499	6861	5671	4983	4008	2916

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

