

Setbacks from County Ordinances

| County Name | Setback from Residence |
|-------------------|------------------------|
| Appanoose County | |
| Audubon County | 1000 |
| Cass County | |
| Cedar County | 1000 |
| Chickasaw County | 1200 |
| Delaware County | 1000 |
| Dubuque County | |
| Floyd County | |
| Franklin County | |
| Grundy County | 1200 |
| Jefferson County | |
| Johnson County | 1000 |
| Keokuk County | |
| Kossuth County | 1600 |
| Lee County | |
| Linn County | 1000 |
| Lyon County | |
| Marion County | |
| Monroe County | |
| Osceola County | 1250 |
| Shelby County | |
| Wapello County | |
| Washington County | |
| Winnebago County | 1600 |
| Winneshiek County | |
| Woodbury County | 1250 |

| Other governmental entities | |
|-----------------------------|----------------------|
| Baker County Oregon | 10,560 |
| Lincoln County, SD | 2640 |
| Union County, SD | prohibited |
| McCook County, SD | 3x height with blade |
| Yankton County, SD | 1320 |

Residential Setback Distance (Feet)

Ice Blade

Recommendations for setbacks from Research studies:

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|---|---|-----------------------------|
| 1 | Rutgers University Study, Author Terry Matlisky | 1700' |
| 2 | "A method for defining wind turbine setback standards", Authors: Jonathan Rogers, Nathan Siegers, and Mark Costello, School of Aerospace Engineering, Georgia Institute of Technology | 1439' to 1935' |
| 3 | "Wind Turbine Impacts 2009" Kurt C. Kielisch and Erik Kielisch, Appraisal Group One (recommendation based on author's reference search) | 1500'-7920' |
| 4 | "Modelling of Ice Throws from Wind Turbines" Author: Joakim Renström, Department of Earth Sciences, Uppsala University, Uppsala Sweden | 784' throw (1148' downwind) |
| 5 | "Analysis of throw distances of detached objects from horizontal-axis wind turbines", Authors: Hamid Sarlak and Jens Sørensen Section of Fluid Mechanics, Department of Wind Energy, Technical University of Denmark, DK-2800 Lyngby, Denmark | 2296' |
| 6 | "Analysis of blade fragment risk at a wind energy facility", authors: Scott Larwood (1) David Simms (2) (1) Department of Mechanical Engineering, University of the Pacific, Stockton, California, USA (2) National Wind Technology Center, National Renewable Energy Laboratory, Golden, Colorado, USA | 3.5x turbine height |