



HOW EXTREME WINTER STORMS AFFECT KANE COUNTY



FEMA NRI Expected Annual Loss Estimates for Kane County

EXPECTED ANNUAL LOSS TABLE FOR COLD WAVE EVENTS

Annualized Frequency	Building Value	Population Equivalence	Agriculture Value	Total	Expected Annual Loss Rating
1.3 events per year	\$663	\$1,442,223	\$101,648	\$1,544,533	Relatively High

EXPECTED ANNUAL LOSS TABLE FOR ICE STORM EVENTS

Annualized Frequency	Building Value	Population Equivalence	Agriculture Value	Total	Expected Annual Loss Rating
0.5 events per year	\$76,084	\$134,494	N/A	\$210,578	Relatively Moderate

EXPECTED ANNUAL LOSS TABLE WINTER WEATHER EVENTS

Annualized Frequency	Building Value	Population Equivalence	Agriculture Value	Total	Expected Annual Loss Rating
3.6 events per year	\$17,029	\$169,000	\$865	\$186,894	Relatively Moderate

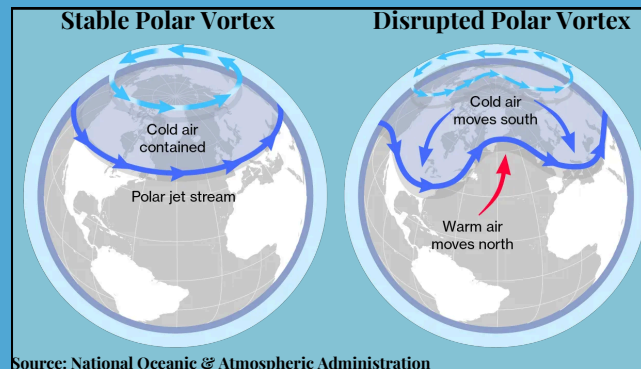


Got questions?

Kane County Environmental and Water Resources

☎ 630-232-3497

Kane County Government Center, 719 Batavia Avenue, Building A - 1st Floor, Geneva, IL 60134



Source: National Oceanic & Atmospheric Administration

The Arctic is warming 4 times faster than the rest of the planet due to climate change. This will lead to the disruption of the polar vortex and an increased frequency of extreme cold events

WINTER STORM PREPAREDNESS

in Kane County



PREPARING FOR A WINTER STORM

- Make a plan to stay warm even if the power goes out
- Gather emergency supplies
- Learn emergency skills such as CPR
- Sign up for local weather alerts or watch local news
- Familiarize yourself with warning signs of frostbite and hypothermia

NWS Windchill Chart

Wind (mph)	Temperature (°F)															
	40	35	30	25	20	15	10	5	0	-5	-10	-15	-20	-25	-30	-35
5	36	31	25	19	13	7	1	-5	-11	-16	-22	-28	-34	-40	-46	-52
10	34	27	21	15	9	3	-4	-10	-16	-22	-28	-35	-41	-47	-53	-59
15	32	25	19	13	6	0	-7	-13	-19	-26	-32	-39	-45	-51	-58	-64
20	30	24	17	11	4	-2	-9	-15	-22	-29	-35	-42	-48	-55	-61	-68
25	29	23	16	9	3	-4	-11	-17	-24	-31	-37	-44	-51	-58	-64	-71
30	28	22	15	8	1	-5	-12	-19	-26	-33	-39	-46	-53	-60	-67	-73
35	28	21	14	7	0	-7	-14	-21	-27	-34	-41	-48	-55	-62	-69	-76
40	27	20	13	6	-1	-8	-15	-22	-29	-36	-43	-50	-57	-64	-71	-78
45	26	19	12	5	-2	-9	-16	-23	-30	-37	-44	-51	-58	-65	-72	-79
50	26	19	12	4	-3	-10	-17	-24	-31	-38	-45	-52	-60	-67	-74	-81
55	25	18	11	4	-3	-11	-18	-25	-32	-39	-46	-54	-61	-68	-75	-82
60	25	17	10	3	-4	-11	-19	-26	-33	-40	-48	-55	-62	-69	-76	-84

Frostbite Times: 30 minutes 10 minutes 5 minutes

Wind Chill (°F) = $35.74 + 0.6215T - 35.75(V^{0.16}) + 0.4275T(V^{0.16})$
 Where, T = Air Temperature (°F) V = Wind Speed (mph) Effective 11/01/01

Source: <https://www.redcross.org/get-help/how-to-prepare-for-emergencies/types-of-emergencies/winter-storm.html>

STAYING SAFE DURING A STORM

Stay warm

Wear warm clothes and remain indoors. Be cautious when using fireplaces and space-heaters as they can quickly become fire hazards.

If you do not have a warm place to stay, visit the link below for warming center options.

<https://www.kanehealth.com/Pages/Warming-Cooling-Centers.aspx>

Refrain from traveling if possible

If necessary to travel take the following precautions:

- 1) Travel in daylight
- 2) Bring several bottles of water, an emergency kit, blankets, and high calorie snacks
- 3) Always let someone know your travel route and destination
- 4) If you get stuck in your car, stay in your car and run your heater for 10 minutes every hour

WINTER STORM ESSENTIALS

- ☐ Cell Phone and charger
- ☐ Blankets and/or sleeping bag
- ☐ Flashlight and batteries
- ☐ First-aid kit
- ☐ Water
- ☐ Non-perishable food
- ☐ Extra dry clothing
- ☐ Windshield scraper and snow shovel in car



Watch for the warning signs of hypothermia

Shivering

Disorientation

Slow reaction time

Pale, dry skin

