

ANNUAL WINTER MAINTENANCE DATA 2024/2025



Wisconsin Department of Transportation
Division of Transportation System Development
Bureau of Highway Maintenance
Winter Operations Unit

November 2025

Contents

Section 1: Summary3

Table 1.1 – Statewide Summary: This Winter Versus Last Winter, by the Numbers5

Table 1.2 – Highway Categories for Winter Maintenance6

Figure 1.1 – WisDOT Snow Plowing Classification Map7

Table 1.3 – County Winter Service Groups8

Table 1.4 – Winter in Wisconsin, 2024-20259

Section 2: Winter Weather 14

Winter Weather Recap, 2024-2025 14

Figure 2.1 – Statewide Snowfall, 2024-2025 15

Figure 2.2 – Winter Severity Index, 2024-2025 16

Figure 2.3 – 2024-2025 Winter Severity Index vs 5 – Year Average Severity (2019-2020 to 2023-2024) 17

Table 2.1 – Storms and Incidents 18

Section 3: Winter Operations 24

Statewide Materials Use, 2024-2025 24

Figure 3.1 – Salt use per Lane Mile and Average Severity Index, 1992 – 2025 24

Figure 3.2 – Salt Used per Lane Mile and Severity Index per Group 25

Figure 3.3 – United States Salt Prices over Time (Through 2024-2025) 28

Figure 3.4 – Salt Prices Across the United States in 2024-2025 28

Figure 3.5 – Statewide Sand Use from 1998-2025 29

Table 3.1 – Statewide Brine Agent Usage 30

Figure 3.6 – Total Gallons of Brine Used 31

Figure 3.7 – Total Gallons of Brine per Lane-Mile 32

Figure 3.8 – Counties using Direct Liquid Application (DLA) – Total Gallons 33

Figure 3.9 – Winter Costs by Activity Code, 2024-2025 34

Figure 3.10 – State Funded High-Capacity Brine Makers 35

Figure 3.11 – Roadway Weather Information System (RWIS) Locations 36

Figure 3.12 – 2024-2025 Salt Use per Lane-Mile vs 5-Year Average 37

Figure 3.13 – Tons of Salt per Lane-Mile, 2024-2025 38

Table 3.2 – Labor Hours/Lane Miles/Severity Index Ranking 39

Section 4 – Winter Performance Measures 42

Performance and Costs, 2024 – 2025 42

Table 4.1 – Statewide Performance Measures for Winter 43

Table 4.2 – Average Patrol Sections Lengths by Winter Service Group 43

Table 4.3 – Maintenance Crew Reaction Times	44
Table 4.4 – Percentage to Bare/Wet Pavement	44
Table 4.5 – Total Winter Costs Relative to Winter Severity, 2024-2025	45
Figure 4.1 – Statewide Average Winter Costs per Lane Mile and Winter Severity Index, 2000-2001 thru 2024-2025	45
Figure 4.2 – Total Winter Maintenance Cost by Region, 2023-24 vs 2024-25 vs 5-Year Average	46
Figure 4.3 – Winter Cost per Lane-Mile, 2024-2025	47
Figure 4.4 – Statewide Winter Costs by Category	48
Figure 4.5 – Regional Winter Costs by Category, 2024-2025	49
Table 4.6 – 2024-2025 Winter Expenses for County Services	50
Figure 4.6 – Costs per Lane Mile by Category	50
Figure 4.7 – Winter Crashes and Winter Severity Index	51
Table 4.7 – Crashes and Vehicle Miles Travel by Region	52
Figure 4.8 – Winter Crashes by Highway Type, 2024-2025	52
Table 4.8 – Winter Maintenance Sections	53
Table 4.9 – Storm Start vs Crew Out by Precipitation Type	54
Table 4.10 – Winter Maintenance Costs Per Lane Mile, Fiscal Year 2025	57
Figure 4.10 – 2024/25 Winter Costs vs 5-Year Average Costs	60
Table 4.11 – Cost per Lane Mile per Winter Severity Index	61
Table 4.12 – Winter Crashes per 100 Million Vehicle Miles of Travel	64
Table 4.13 – Motor Vehicle Crashes on Roads with Snow/Ice/Slush	66
Appendix	68
Figure A.1 – WisDOT Regional Organization	68
Table A.1 – Storm Report Summary, End of Season	69
Table A.2 – Anti-Icing Usage (Gallons)	75
Table A.3 – Actual Anti-Icing Costs, 2024-2025	78
Table A.4 – Salt Brine Used (Gallons)	81
Table A.5 – Annual Prewet Agent Usage for Salt (Gallons)	84
Table A.6 – History of Salt Use on State Trunk Highways	87

Section 1: Summary

ABOUT THIS REPORT

Every year, WisDOT gathers a multitude of data on winter weather and the state's response to it. Tracking and analyzing this data help us become more efficient by identifying good performance as well as areas that need improvement. In this way we use our limited resources to achieve the greatest benefit.

Through this report, WisDOT's Bureau of Highway Maintenance shares data with the department's regional maintenance staff and with our partners in the county highway departments. This allows regional and county staff to compare resource use with that of their peers across the state. The report has also been shared with the WisDOT Secretary's Office, the state legislature, national organizations such as Clear Roads, and the general public.

REPORT DATA SOURCES

Within many of the county-by-county tables in this report, the counties are grouped by region, in acknowledgement of the role that WisDOT's regional staff plays in coordinating winter maintenance in their counties. In some tables, counties are divided by Winter Service Group (Groups A, B, C, D, E and F), which reflect the difference in the level of service provided on roads in these counties and facilitate comparisons within these groups. See Table 1.3 for more information on Winter Service Groups.

In most tables, raw numbers (such as total salt used) are presented along with data that has been adjusted for differences between counties (such as salt used per lane mile per Winter Severity Index point). This allows more accurate comparisons between regions in different parts of the state.

This report presents data from several sources:

- The weekly winter storm reports completed by the county highway departments, which detail the counties' estimates of the weather they faced and the materials, equipment and labor they used in responding to it.
- Final cost and materials data as billed to WisDOT.
- Data on weather, crashes, travel and other topics from other bureaus within WisDOT and other agencies.
- Maintenance Decision Support System (MDSS)

The final billed amounts are considered the most accurate source of cost and materials data and are presented wherever possible.

When interpreting the data in this report, readers should remember that many factors affect a county's response to winter, including the local Winter Severity Index, local traffic generators, the mix of highway types and classifications in a county, the type of equipment being used, and the length of patrol sections. Some tables in this report give data that is adjusted for one or more of these factors (for example, salt use per lane mile per severity index point), while others provide raw data

WORKING WITH COUNTY HIGHWAY DEPARTMENTS

WisDOT's Bureau of Highway Maintenance, in partnership with the five WisDOT regional offices, is responsible for the maintenance of the state trunk and Interstate highway system. This system includes 34,697 lane miles of highway and ~4,600 bridges.

WisDOT contracts with the state's 72 county highway departments to provide snow and ice control on all state and U.S. owned highways in Wisconsin, including the Interstate system. This partnership was set up more than 100 years ago and is unique in the nation.

This relationship benefits both WisDOT and the county highway departments. WisDOT receives the services of a skilled, experienced work force at fair labor rates, and the counties are able to purchase more pieces and types of equipment than they could otherwise afford. This equipment is then available for use on both county and state roads, an arrangement that allows WisDOT and the counties to avoid duplicating equipment and facilities. This arrangement also allows for increased efficiencies in work crews, thus reducing labor costs to taxpayers.

Staff at WisDOT's five regional offices work closely with the county highway departments. Regional managers administer the contracts with the counties, and work with the counties to plan maintenance activities and set priorities. Regional staff oversee county highway departments' maintenance expenditures and are responsible for ensuring that the counties use resources efficiently and adhere to state guidelines for materials use. Regional staff also serve as a resource for the counties on state and federal rules and regulations and can provide training assistance.

Table 1.1 – Statewide Summary: This Winter Versus Last Winter, by the Numbers

		2023-2024 Winter	2024-2025 Winter
Infrastructure	Lane miles	34,736	34,697
	Patrol sections ⁴	754	754
	Average patrol section length ⁴	46.1	46.0
Weather	Average statewide Winter Severity Index (100=normal)	58.7	54.4
	Number of storms, statewide average and range across counties	Average: 21 Range: 7 - 46	Average: 26 Range: 12 - 48
	Snowfall (in), statewide average and range across counties	Average: 46.0 Range:19.4 – 93.1	Average: 49.3 Range:16.2 – 141.0
Materials ¹	Salt used	255,155 tons 7.3 tons per lane mile	332,458 tons 9.6 tons per lane mile
	Average cost of salt	\$91.21 per ton	\$94.27 per ton
	Total liquids used (prewet, anti-icing, direct liquid application)	14,788,855 gal.	17,657,518 gal.
	Sand used	5,225 cubic yd.	4,511 cubic yd.
Costs, Equipment and Performance	Total winter costs ²	\$72,256,176	\$89,046,744
	Total winter costs per lane mile	\$2,080	\$2,566
	Average crew reaction time from start of storm	2.65 hours	2.79 hours
	Percentage of roads to bare/wet pavement (Within WisDOT target times)	75%	70%
	Road Weather Information System (RWIS) stations	75	75
	Counties that used anti-icing agents during the winter season	69 out of 72 (96%)	64 out of 72 (89%)
Labor and Services	Regular county winter labor hours ³	92,491 hrs.	111,594 hrs.
	Overtime county winter labor hours	84,607 hrs.	98,000 hrs.

1. All material usage quantities are from the county storm reports except for salt. Salt quantities are from WisDOT's Salt Inventory Reporting System.
2. Costs refer to final costs billed to WisDOT for all winter activities, including activities such as installing snow fences and thawing culverts.
3. Labor hours come from county storm reports, and reflect salting, sanding, plowing and anti-icing efforts.
4. Patrol sections and average length include hybrid sections in some counties which may include a portion of county highway.

Table 1.2 – Highway Categories for Winter Maintenance

WisDOT policy in the “Highway Maintenance Manual” specifies two types of snow removal strategies in an effort to be cost-effective while recognizing the public need for clear roads during hours when most travel is done. High-volume highways with the most traffic typically receive 24-hour coverage, while on lower-volume highways, 18-hour coverage is sufficient. On 18-hour routes, the service hours can be adjusted based on the timing or severity of the storms; passing lanes, if present, may require less attention than the driving lanes and ramps.

Table 1.2 shows these categories and what percent of the highways fall into each group.

Category	Definition	Lane Miles	% of Total
1	Major urban freeways and highways with six lanes and greater	4,001	12%
2	High volume four-lane highways (Average Daily Traffic $\geq$ 25,000)	3,297	10%
3	All other four-lane highways (ADT < 25,000)	7,939	23%
4	High volume two-lane highways (ADT $\geq$ 5,000)	3,798	11%
5	All other two-lane highways (ADT < 5,000)	15,661	45%
Total		34,696	
<i>Sources: Level of Service (LOS) Model in the Maintenance Program Management (MPM)</i>			

Also see Figure 1.1 on the next page for a breakdown map of all categories in Wisconsin on the state highway network.

Figure 1.1 – WisDOT Snow Plowing Classification Map

For greater detail, please visit the GIS map online at:

<https://wisdot.maps.arcgis.com/apps/instant/portfolio/index.html?appid=21c938167cff47698b6a9c47faf1f114>

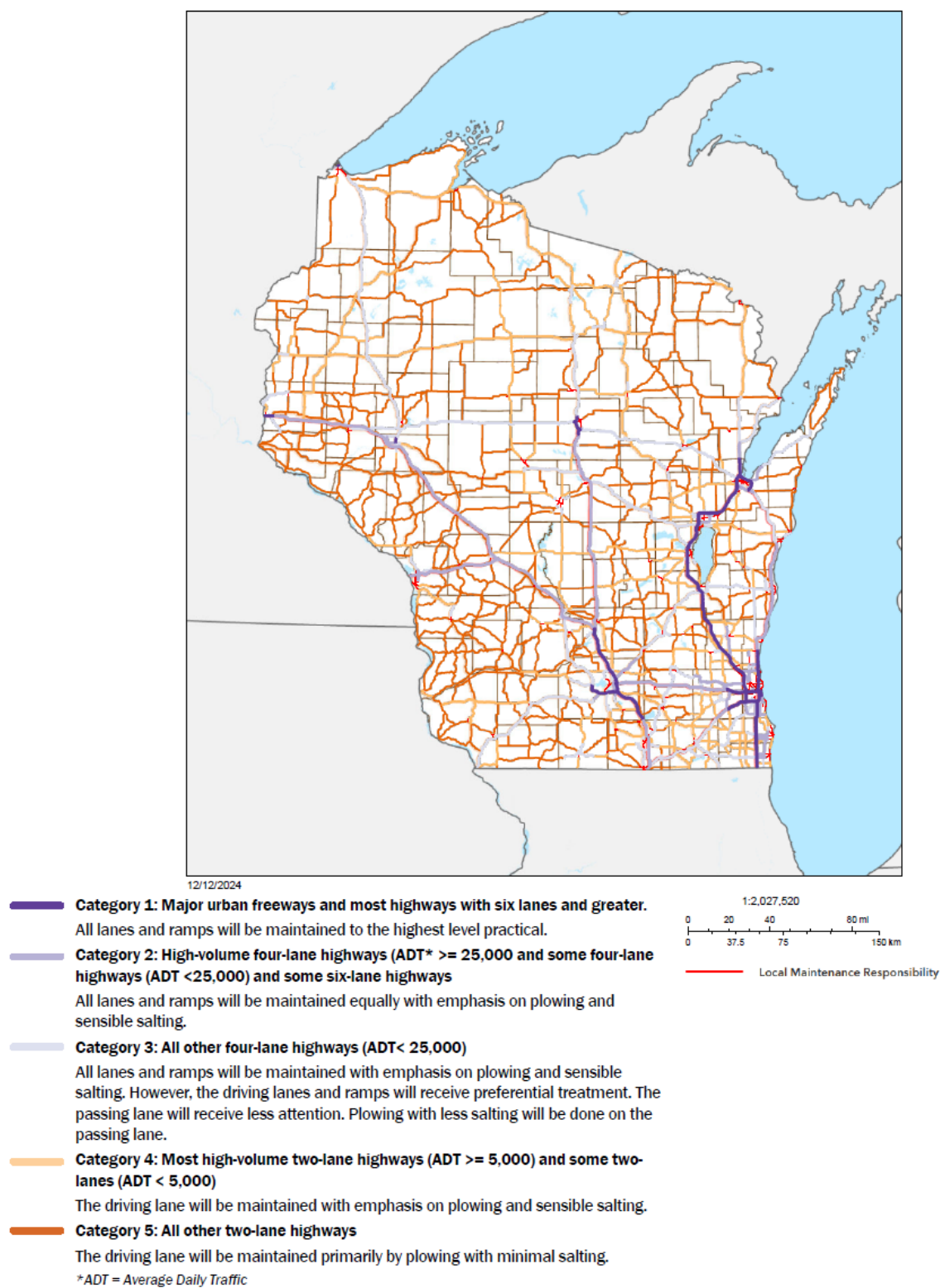


Table 1.3 – County Winter Service Groups

To fairly compare counties with similar levels of service, WisDOT assigns the 72 counties into six winter service groups – A, B, C, D, E, and F with winter service group A being the most urban and complex counties and F the most rural. Table 1.3 shows which counties are assigned to each group. These are the original assignments from when this method for comparison was developed over 20 years ago. Today’s definition of the group might not fit all the counties assigned to that group, but for now the counties are still assigned to the Winter Service Group in this table. Be sure to look at Chapter 4B if you are interested in a county by county comparison of plow routes in this table and winter patrol sections – a plow route is the same as a winter patrol section.

Winter Service Group	County Names	Number of Counties	% of Counties
A	Dane, Milwaukee, Waukesha	3	4%
B	Brown, Chippewa, Columbia, Dodge, Eau Claire, Fond du Lac, Grant, Jefferson, Kenosha, Marathon, Monroe, Outagamie, Portage, Racine, Rock, Sauk, St. Croix, Walworth, Washington, Waupaca, Winnebago	21	29%
C	Barron, Clark, Crawford, Douglas, Dunn, Iowa, Jackson, Juneau, La Crosse, Lincoln, Manitowoc, Oconto, Pierce, Shawano, Sheboygan, Vernon, Wood	17	24%
D	Bayfield, Buffalo, Door, Green, Lafayette, Marinette, Marquette, Oneida, Ozaukee, Polk, Richland, Trempealeau, Washburn, Waushara	14	19%
E	Ashland, Burnett, Calumet, Forest, Green Lake, Iron, Langlade, Pepin, Price, Rusk, Sawyer, Taylor, Vilas	13	18%
F	Adams, Florence, Kewaunee, Menominee	4	6%

Table 1.4 – Winter in Wisconsin, 2024-2025

Table 1.4 summarizes key data from this winter for all 72 counties, including total salt use and cost data. This table facilitates comparisons in these core areas across regions and counties and serves as a quick reference for commonly used data. The table uses a similar format to the Storm Report Summary (Table A-1 of the Appendix), but the cost data in Table 1.4 are actual billed costs as submitted to WisDOT by the counties, rather than estimates from the storm reports.

Table 1.4. Winter in Wisconsin, 2024-2025

County	Lane miles	MDSS Severity Index	Snowfall (inches)	Total salt used (tons)	Salt used (tons) per lane mile	Salt used per lane mile per Severity Index	Total salt costs	Total salt costs per lane mile	Total winter costs	Total winter costs per lane mile	Total winter costs per lane mile per Severity Index
North Central Region											
Adams	202.01	39.9	42.3	1,139	5.64	0.14	\$ 128,935	\$638	\$ 390,896	\$ 1,935	\$ 48.55
Florence	137.43	98.8	82.6	2,562	18.64	0.19	\$ 261,760	\$1,905	\$ 536,660	\$ 3,905	\$ 39.52
Forest	313.57	98.2	82.0	2,848	9.08	0.09	\$ 286,993	\$915	\$ 807,712	\$ 2,576	\$ 26.24
Green Lake	154.68	44.6	39.5	694	4.49	0.10	\$ 74,418	\$481	\$ 216,318	\$ 1,398	\$ 31.39
Iron	240.38	178.0	141.0	3,302	13.74	0.08	\$ 370,749	\$1,542	\$ 1,012,263	\$ 4,211	\$ 23.66
Langlade	298.94	78.8	70.8	2,916	9.75	0.12	\$ 299,269	\$1,001	\$ 727,540	\$ 2,434	\$ 30.90
Lincoln	402.93	75.6	82.1	4,602	11.42	0.15	\$ 493,150	\$1,224	\$ 1,036,570	\$ 2,573	\$ 34.05
Marathon	900.30	65.5	66.0	7,892	8.77	0.13	\$ 824,083	\$915	\$ 2,448,535	\$ 2,720	\$ 41.53
Marquette	251.86	42.3	34.3	1,480	5.88	0.14	\$ 155,829	\$619	\$ 704,867	\$ 2,799	\$ 66.15
Menominee	90.76	67.1	60.1	1,771	19.51	0.29	\$ 176,232	\$1,942	\$ 283,459	\$ 3,123	\$ 46.54
Oneida	391.33	89.7	66.2	2,065	5.28	0.06	\$ 213,748	\$546	\$ 990,227	\$ 2,530	\$ 28.20
Portage	531.60	56.6	62.0	4,643	8.73	0.15	\$ 451,021	\$848	\$ 1,619,333	\$ 3,046	\$ 53.78
Price	319.70	81.1	75.8	2,433	7.61	0.09	\$ 261,985	\$819	\$ 792,514	\$ 2,479	\$ 30.55
Shawano	530.50	62.8	85.1	8,098	15.26	0.24	\$ 718,212	\$1,354	\$ 1,842,578	\$ 3,473	\$ 55.32
Vilas	307.73	108.8	82.8	5,188	16.86	0.15	\$ 588,267	\$1,912	\$ 1,302,384	\$ 4,232	\$ 38.90
Waupaca	536.45	52.1	64.5	6,293	11.73	0.23	\$ 556,679	\$1,038	\$ 1,530,191	\$ 2,852	\$ 54.80
Waushara	344.82	49.2	57.7	1,826	5.30	0.11	\$ 198,541	\$576	\$ 557,739	\$ 1,617	\$ 32.86
Wood	437.76	50.7	62.7	4,968	11.35	0.22	\$ 515,331	\$1,177	\$ 1,222,523	\$ 2,793	\$ 55.09
Region total	6,392.75			64,720			\$ 6,575,201		\$ 18,022,308		
Region average	355.15	74.4	69.9	3,596	10.12	0.14	\$ 365,289	\$1,029	\$ 1,001,239	\$ 2,819	\$ 37.88

Sources: Cost data are final billed costs as billed to WisDOT by the counties in MPM. Salt data is taken from WisDOT's Salt Inventory Reporting System and inventories.



Table 1.4. Winter in Wisconsin, 2024-2025

County	Lane miles	MDSS Severity Index	Snowfall (inches)	Total salt used (tons)	Salt used (tons) per lane mile	Salt used per lane mile per Severity Index	Total salt costs	Total salt costs per lane mile	Total winter costs	Total winter costs per lane mile	Total winter costs per lane mile per Severity Index
Northeast Region											
Brown	856.26	58.2	49.5	12,289	14.35	0.25	\$ 921,675	\$1,076	\$ 2,867,140	\$ 3,348	\$ 57.52
Calumet	220.63	51.5	49.2	1,821	8.25	0.16	\$ 168,552	\$764	\$ 574,877	\$ 2,606	\$ 50.57
Door	266.89	68.5	63.2	2,414	9.04	0.13	\$ 228,268	\$855	\$ 776,430	\$ 2,909	\$ 42.48
Fond du Lac	612.34	44.9	50.5	6,195	10.12	0.23	\$ 562,692	\$919	\$ 1,397,827	\$ 2,283	\$ 50.80
Kewaunee	126.37	60.6	63.9	897	7.10	0.12	\$ 85,197	\$674	\$ 273,761	\$ 2,166	\$ 35.75
Manitowoc	420.33	57.0	37.3	5,433	12.93	0.23	\$ 472,128	\$1,123	\$ 1,306,681	\$ 3,109	\$ 54.50
Marinette	404.93	73.6	101.7	5,924	14.63	0.20	\$ 475,460	\$1,174	\$ 1,285,064	\$ 3,174	\$ 43.15
Oconto	479.21	64.5	53.8	4,389	9.16	0.14	\$ 361,039	\$753	\$ 1,214,899	\$ 2,535	\$ 39.34
Outagamie	591.16	51.6	55.7	7,835	13.25	0.26	\$ 654,693	\$1,107	\$ 2,090,349	\$ 3,536	\$ 68.51
Sheboygan	541.07	46.8	66.0	3,817	7.05	0.15	\$ 379,639	\$702	\$ 1,508,437	\$ 2,788	\$ 59.57
Winnebago	689.08	47.1	43.8	6,855	9.95	0.21	\$ 596,865	\$866	\$ 1,806,366	\$ 2,621	\$ 55.72
Region total	5,208.27			57,869			\$ 4,906,207		\$ 15,101,829		
Region average	473.48	56.8	57.7	5,261	11.11	0.20	\$ 446,019	\$942	\$ 1,372,894	\$ 2,900	\$ 51.09

Sources: Cost data are final billed costs as billed to WisDOT by the counties in MPM. Salt data is taken from WisDOT's Salt Inventory Reporting System and inventories.



Table 1.4. Winter in Wisconsin, 2024-2025

County	Lane miles	MDSS Severity Index	Snowfall (inches)	Total salt used (tons)	Salt used (tons) per lane mile	Salt used per lane mile per Severity Index	Total salt costs	Total salt costs per lane mile	Total winter costs	Total winter costs per lane mile	Total winter costs per lane mile per Severity Index
Northwest Region											
Ashland	256.01	116.3	73.2	2,302	8.99	0.08	\$ 243,575	\$951	\$ 827,836	\$ 3,234	\$ 27.81
Barron	428.61	51.5	48.0	2,627	6.13	0.12	\$ 247,201	\$577	\$ 1,011,436	\$ 2,360	\$ 45.85
Bayfield	345.45	106.8	113.5	4,112	11.90	0.11	\$ 385,459	\$1,116	\$ 1,119,474	\$ 3,241	\$ 30.35
Buffalo	311.06	38.0	34.8	1,697	5.46	0.14	\$ 171,635	\$552	\$ 423,244	\$ 1,361	\$ 35.85
Burnett	231.13	63.1	52.7	1,757	7.60	0.12	\$ 175,173	\$758	\$ 485,013	\$ 2,098	\$ 33.28
Chippewa	656.39	46.8	46.2	5,513	8.40	0.18	\$ 572,029	\$871	\$ 1,603,395	\$ 2,443	\$ 52.21
Clark	398.57	55.1	47.0	4,796	12.03	0.22	\$ 564,153	\$1,415	\$ 1,102,705	\$ 2,767	\$ 50.24
Douglas	465.42	83.7	77.0	6,068	13.04	0.16	\$ 510,562	\$1,097	\$ 1,389,688	\$ 2,986	\$ 35.66
Dunn	520.77	44.6	39.9	5,271	10.12	0.23	\$ 528,207	\$1,014	\$ 1,458,049	\$ 2,800	\$ 62.73
Eau Claire	531.67	43.3	34.4	5,989	11.26	0.26	\$ 645,015	\$1,213	\$ 1,510,111	\$ 2,840	\$ 65.63
Jackson	520.60	40.5	44.0	4,468	8.58	0.21	\$ 465,968	\$895	\$ 1,067,688	\$ 2,051	\$ 50.66
Pepin	109.51	39.3	26.6	480	4.38	0.11	\$ 49,954	\$456	\$ 229,972	\$ 2,100	\$ 53.48
Pierce	368.19	44.6	18.8	3,005	8.16	0.18	\$ 294,821	\$801	\$ 735,695	\$ 1,998	\$ 44.79
Polk	379.33	53.4	55.6	4,058	10.70	0.20	\$ 384,739	\$1,014	\$ 826,270	\$ 2,178	\$ 40.78
Rusk	212.86	55.5	46.9	1,940	9.11	0.16	\$ 203,991	\$958	\$ 421,857	\$ 1,982	\$ 35.70
Saint Croix	658.68	46.6	39.5	7,506	11.40	0.24	\$ 707,816	\$1,075	\$ 2,011,776	\$ 3,054	\$ 65.54
Sawyer	356.97	73.6	61.3	2,862	8.02	0.11	\$ 279,818	\$784	\$ 585,763	\$ 1,641	\$ 22.29
Taylor	232.78	64.9	52.9	1,386	5.95	0.09	\$ 164,768	\$708	\$ 610,157	\$ 2,621	\$ 40.39
Trempeleau	420.77	38.8	24.0	4,835	11.49	0.30	\$ 492,687	\$1,171	\$ 1,093,454	\$ 2,599	\$ 67.05
Washburn	385.27	67.5	51.9	3,888	10.09	0.15	\$ 368,310	\$956	\$ 936,325	\$ 2,430	\$ 35.98
Region total	7,790.04			74,560			\$ 7,455,878		\$ 19,449,909		
Region average	389.50	58.7	49.4	3,728	9.14	0.16	\$ 372,794	\$957	\$ 972,495	\$ 2,497	\$ 42.54

Sources: Cost data are final billed costs as billed to WisDOT by the counties in MPM. Salt data is taken from WisDOT's Salt Inventory Reporting System and inventories.

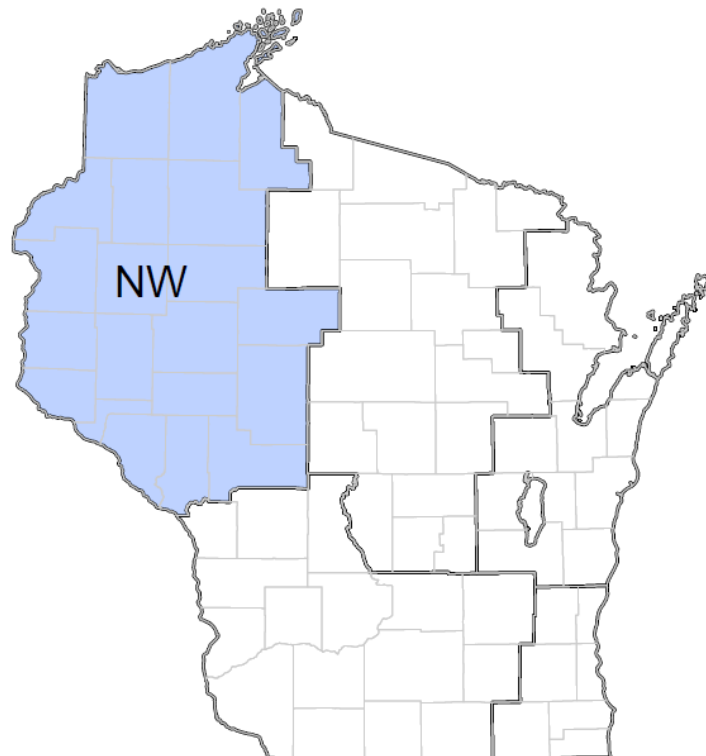


Table 1.4. Winter in Wisconsin, 2024-2025

County	Lane miles	MDSS Severity Index	Snowfall (inches)	Total salt used (tons)	Salt used (tons) per lane mile	Salt used per lane mile per Severity Index	Total salt costs	Total salt costs per lane mile	Total winter costs	Total winter costs per lane mile	Total winter costs per lane mile per Severity Index
Southeast Region											
Kenosha	709.66	29.7	16.3	6,776	9.55	0.32	\$ 564,170	\$795	\$ 1,465,375	\$ 2,065	\$ 69.48
Milwaukee	1,573.79	32.6	27.0	17,518	11.13	0.34	\$ 1,388,126	\$882	\$ 6,711,253	\$ 4,264	\$ 131.01
Ozaukee	301.07	39.9	46.5	1,872	6.22	0.16	\$ 148,749	\$494	\$ 785,672	\$ 2,610	\$ 65.49
Racine	761.75	30.3	29.8	4,810	6.31	0.21	\$ 420,298	\$552	\$ 1,365,829	\$ 1,793	\$ 59.25
Walworth	687.68	33.1	41.4	6,294	9.15	0.28	\$ 518,374	\$754	\$ 1,397,389	\$ 2,032	\$ 61.47
Washington	588.62	44.1	45.4	6,410	10.89	0.25	\$ 580,490	\$986	\$ 1,569,379	\$ 2,666	\$ 60.44
Waukesha	1,061.89	37.1	28.6	11,829	11.14	0.30	\$ 956,493	\$901	\$ 2,585,206	\$ 2,435	\$ 65.57
Region total	5,684.46			55,509			\$ 4,576,699		\$ 15,880,104		
Region average	812.07	35.2	33.6	7,930	9.77	0.28	\$ 653,814	\$805	\$ 2,268,586	\$ 2,794	\$ 79.27

Sources: Cost data are final billed costs as billed to WisDOT by the counties in MPM. Salt data is taken from WisDOT's Salt Inventory Reporting System and inventories.

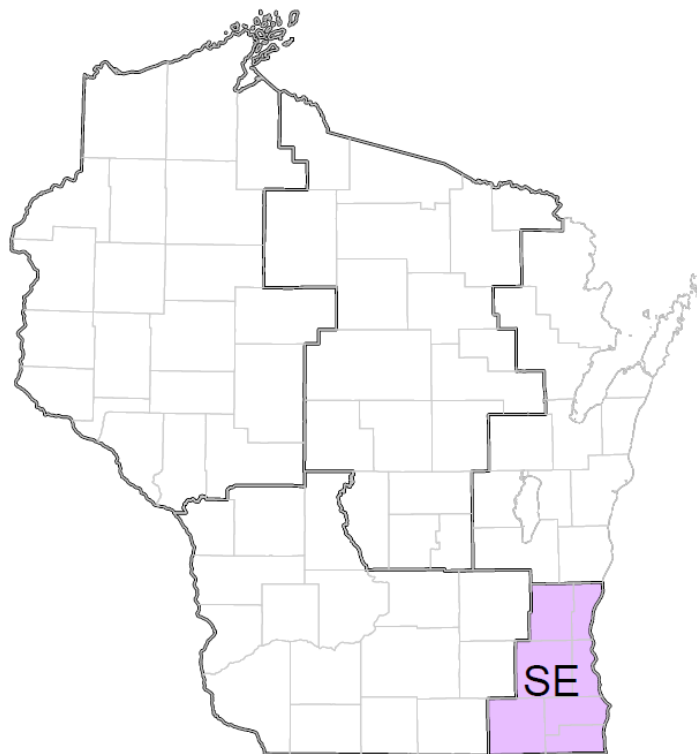
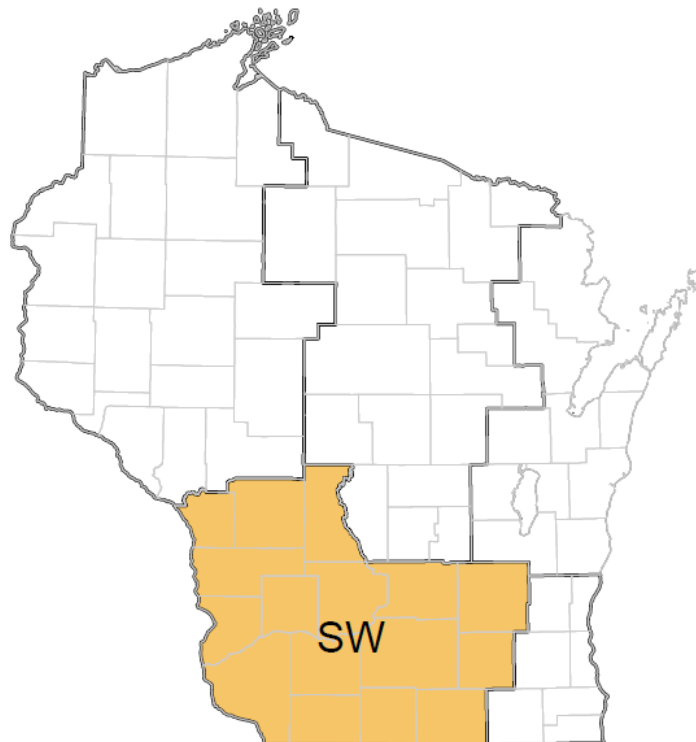


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County	Lane miles	MDSS Severity Index	Snowfall (inches)	Total salt used (tons)	Salt used (tons) per lane mile	Salt used per lane mile per Severity Index	Total salt costs	Total salt costs per lane mile	Total winter costs	Total winter costs per lane mile	Total winter costs per lane mile per Severity Index
Southwest Region											
Columbia	799.21	37.5	42.1	7,181	8.99	0.24	\$ 764,058	\$956	\$ 1,807,716	\$ 2,262	\$ 60.35
Crawford	398.35	33.0	30.2	1,992	5.00	0.15	\$ 198,144	\$497	\$ 561,748	\$ 1,410	\$ 42.71
Dane	1,667.53	31.9	16.2	14,851	8.91	0.28	\$ 1,389,014	\$833	\$ 4,780,149	\$ 2,867	\$ 89.98
Dodge	664.16	40.5	46.0	5,160	7.77	0.19	\$ 444,482	\$669	\$ 1,379,685	\$ 2,077	\$ 51.28
Grant	651.51	31.1	19.2	4,085	6.27	0.20	\$ 381,416	\$585	\$ 959,815	\$ 1,473	\$ 47.40
Green	311.98	27.3	19.8	1,364	4.37	0.16	\$ 152,741	\$490	\$ 579,881	\$ 1,859	\$ 68.21
Iowa	457.71	29.4	18.4	2,206	4.82	0.16	\$ 212,989	\$465	\$ 730,651	\$ 1,596	\$ 54.24
Jefferson	552.35	33.4	23.4	3,132	5.67	0.17	\$ 291,777	\$528	\$ 839,346	\$ 1,520	\$ 45.47
Juneau	500.97	34.1	26.4	6,197	12.37	0.36	\$ 660,104	\$1,318	\$ 1,359,351	\$ 2,713	\$ 79.60
LaCrosse	477.01	34.1	36.6	3,722	7.80	0.23	\$ 338,330	\$709	\$ 1,030,134	\$ 2,160	\$ 63.35
Lafayette	294.51	28.5	24.3	2,222	7.54	0.26	\$ 214,779	\$729	\$ 546,414	\$ 1,855	\$ 65.12
Monroe	673.53	39.8	31.8	9,974	14.81	0.37	\$ 1,008,970	\$1,498	\$ 1,658,455	\$ 2,462	\$ 61.87
Richland	321.53	30.3	18.4	1,768	5.50	0.18	\$ 185,446	\$577	\$ 474,570	\$ 1,476	\$ 48.74
Rock	787.75	32.2	24.0	7,018	8.91	0.28	\$ 648,814	\$824	\$ 1,602,160	\$ 2,034	\$ 63.10
Sauk	594.55	33.7	23.5	4,962	8.35	0.25	\$ 548,251	\$922	\$ 1,332,200	\$ 2,241	\$ 66.41
Vernon	468.42	36.5	33.5	3,966	8.47	0.23	\$ 377,008	\$805	\$ 950,318	\$ 2,029	\$ 55.57
Region total	9,621.07			79,800			\$ 7,816,324		\$ 20,592,594		
Region average	601.32	33.3	27.1	4,988	8.29	0.25	\$ 488,520	\$812	\$ 1,287,037	\$ 2,140	\$ 64.22
Statewide total	34,696.59			332,458			\$ 31,330,309		\$ 89,046,744		
Statewide average		54.4	49.3			9.6		\$903		\$ 2,566	\$ 47.17

Sources: Cost data are final billed costs as billed to WisDOT by the counties in MPM. Salt data is taken from WisDOT's Salt Inventory Reporting System and inventories.



Section 2: Winter Weather

Every winter is different. The number and type of storms, the range of temperatures, the amount of snow – these factors, along with many others, combine to create varying challenges for Wisconsin's county highway departments each year.

This section describes the weather Wisconsin experienced during this winter. The Winter Severity Index is a tool that WisDOT uses to facilitate comparisons from one winter to the next, and from county to county within the same season.

Winter Weather Recap, 2024-2025

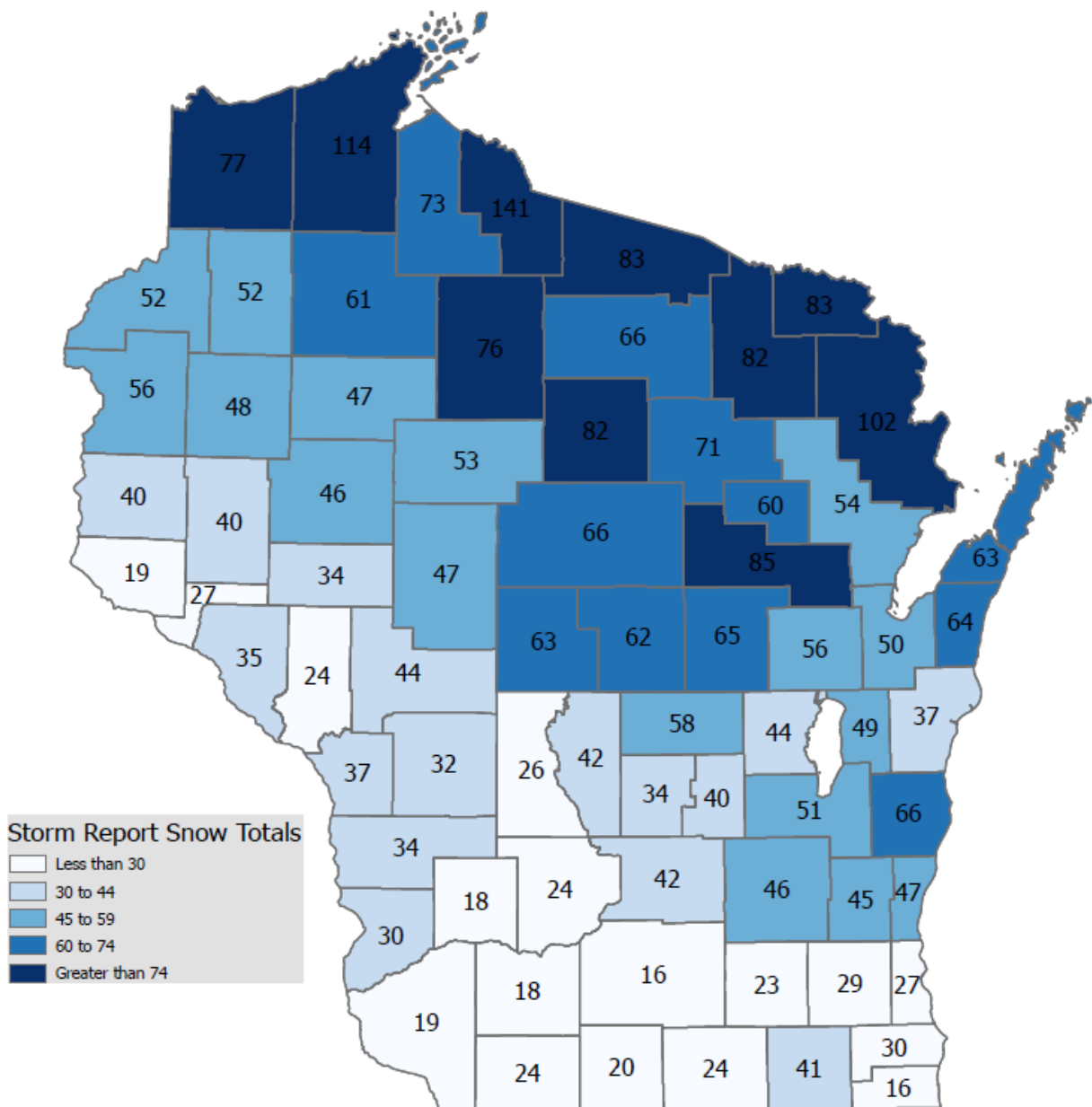
	Statewide Average	Range Across Counties
Total Snowfall	49.3 inches	16.2 - 141.0 inches
Winter Severity Index	54.4	27.3 - 178.0
Winter Storms	26	12-48
Frost Events	2.2	0 - 11
Freezing Rain Events	6.9	1-20

- 1. Data in this table is from Winter Storm Reports, 2024-2025
- 2. Winter Severity Index is calculated from the Maintenance Decision Support System (MDSS)

Figure 2.1 – Statewide Snowfall, 2024-2025

**From Winter Storm Reports*

Figure 2.1 shows the total snow fall received in Wisconsin this winter based on storm report data. Snowfall varied significantly across the state; the highest snowfall recorded was in Iron County, at 141 inches; the lowest was in Kenosha County, at 16 inches. This winter's statewide average total snowfall was 49.3 inches, just over 3 inches more than last year.



**Calculated from Maintenance Decision Support System (MDSS)*

MDSS Winter Severity

- Less than 40
- 41 to 65
- 66 to 90
- 91 to 115
- Greater than 115

The map displays the following severity scores by county (from north to south, west to east):

- St. Louis: 116
- Lake: 178
- Itasca: 107
- Beltrami: 109
- Becker: 84
- Polk: 74
- Yellowknife Bay: 90
- Hubbard: 98
- Grant: 99
- Wadena: 68
- Deer River: 74
- Deer Lake: 68
- Deer Lake: 61
- Deer Lake: 57
- Deer Lake: 47
- Deer Lake: 40
- Deer Lake: 33
- Deer Lake: 30
- Deer Lake: 28
- Deer Lake: 27
- Deer Lake: 32
- Deer Lake: 33
- Deer Lake: 30
- Deer Lake: 31
- Deer Lake: 33
- Deer Lake: 37
- Deer Lake: 41
- Deer Lake: 44
- Deer Lake: 40
- Deer Lake: 33
- Deer Lake: 37
- Deer Lake: 33
- Deer Lake: 45
- Deer Lake: 47
- Deer Lake: 52
- Deer Lake: 57
- Deer Lake: 58
- Deer Lake: 61
- Deer Lake: 63
- Deer Lake: 67
- Deer Lake: 74
- Deer Lake: 79
- Deer Lake: 81
- Deer Lake: 90
- Deer Lake: 109
- Deer Lake: 116
- Deer Lake: 178

** Calculated from Maintenance Decision Support System (MDSS)*

Difference vs 5-Yr Average

- 67% - 60%
- 59% - 45%
- 44% - 30%
- 29% - 15%
- 14% - 5%

Table 2.1 – Storms and Incidents

On the following pages, Table 2.1 gives details about the types of storms and other incidents (such as frost, ice, and drifting or blowing snow) that each county experienced this winter, as reported by the counties in their winter storm reports.

Storms and Incidents - Thru Week 30 (5/29/2025)

From Winter Storm Reports, 2024-2025

Region	County	Snow				Number of Storms	Types of Storms				Number of Incidents	Type of Incidents					Anti-icing applic.	
		Depth	Lane Miles	Salt Used	Tons/LM		Wet Snow	Dry Snow	Freezing Rain	Sleet		Drifting	Blowing Snow	Frost	Ice	Bridge Decks		Clean Up
NC	Adams	42.3	202.01	1,115	5.52	21	9	10	7	4	11	1	3	2	8	0	2	8
	Florence	82.6	137.43	2,230	16.23	35	17	11	6	4	22	7	5	1	4	2	13	4
	Forest	82.0	313.57	4,096	13.06	37	21	10	8	0	22	8	1	0	12	0	8	2
	Green Lake	39.5	154.68	616	3.98	21	9	9	7	2	6	3	1	2	1	0	2	0
	Iron	141.0	240.38	2,892	12.03	33	11	3	12	7	36	15	6	3	21	1	5	0
	Langlade	70.8	298.94	2,283	7.64	37	14	17	12	1	26	16	5	2	11	0	6	1
	Lincoln	82.1	402.93	2,569	6.38	33	18	16	13	4	13	1	3	0	4	1	11	6
	Marathon	66.0	900.30	8,086	8.98	33	20	11	7	2	24	8	4	1	13	3	10	4
	Marquette	34.3	251.86	1,409	5.59	34	25	6	3	6	6	1	0	2	5	0	4	2
	Oneida	66.2	391.33	1,860	4.75	33	8	21	11	4	19	1	3	4	7	3	7	4
	Portage	62.0	531.60	3,675	6.91	25	14	9	8	2	16	4	1	5	4	4	8	4
	Prize	75.8	319.70	2,050	6.41	40	17	30	18	8	12	5	0	3	5	1	5	11
	Shawano	85.1	530.30	6,192	11.68	34	19	11	10	1	18	7	4	0	0	2	11	5
	Vilas	82.8	307.73	3,504	11.39	48	19	16	10	5	18	3	3	0	6	0	10	0
	Waupaca	64.5	536.45	5,260	9.81	25	16	7	8	4	15	1	2	4	11	3	4	3
	Waushara	57.7	344.82	1,974	5.72	29	17	11	10	4	1	0	0	0	0	0	1	1
	Wood	62.7	437.76	4,706	10.75	35	21	12	17	7	10	6	7	0	4	0	7	7
	Menominee	60.1	90.76	1,789	19.71	28	19	5	11	1	18	2	1	0	7	0	10	1
	Region Average		69.9	355.14	3,128	9.25	32	16	12	10	4	16	5	3	2	7	1	7

Final totals as of 7/14/2025 12:34 PM

Page 1 of 6

Storms and Incidents - Thru Week 30 (5/29/2025)

From Winter Storm Reports, 2024-2025

Region	County	Snow Depth	Lane Miles	Salt Used	Tons/LM	Number of Storms	Types of Storms				Number of Incidents	Type of Incidents					Anti-icing applic.	
							Wet Snow	Dry Snow	Freezing Rain	Sleet		Drifting	Blowing Snow	Frost	Ice	Bridge Decks		Clean Up
NE	Brown	49.5	856.26	10,170	11.88	27	17	9	5	2	1	0	0	1	1	0	0	21
	Calumet	49.2	220.63	1,033	4.68	25	11	10	3	0	8	3	3	0	2	0	2	9
	Door	63.2	266.89	2,256	8.45	23	12	11	4	3	26	3	4	2	12	0	6	11
	Fond Du Lac	50.5	612.34	4,705	7.68	23	10	12	5	1	10	4	1	3	5	0	1	9
	Kewaunee	63.9	126.37	1,168	9.24	31	18	10	8	6	13	9	12	0	3	0	8	2
	Manitowoc	37.3	420.33	3,746	8.91	17	7	8	3	4	8	0	2	0	6	0	2	14
	Marquette	101.7	404.93	6,782	16.75	47	27	19	2	0	25	5	1	0	12	0	7	28
	Oconto	53.8	479.21	3,848	8.03	34	12	22	9	3	15	5	1	1	7	2	7	7
	Outagamie	55.7	591.16	4,996	8.45	26	19	3	5	0	5	0	0	2	0	1	3	2
	Sheboygan	66.0	541.07	1,849	3.42	25	15	12	4	0	17	4	4	3	4	3	8	19
	Winnebago	43.8	680.08	6,132	8.90	24	10	14	5	3	9	1	3	2	1	4	5	9
	Region Average	57.7	473.48	4,244	8.76	27	14	12	5	2	12	3	3	1	5	1	4	12

Storms and Incidents - Thru Week 30 (5/29/2025)

From Winter Storm Reports, 2024-2025

Region	County	Snow Depth	Lane Miles	Salt Used	Tons/LM	Number of Storms	Types of Storms				Number of Incidents	Type of Incidents					Anti-icing applic.	
							Wet Snow	Dry Snow	Freezing Rain	Sleet		Drifting	Blowing Snow	Frost	Ice	Bridge Decks		Clean Up
NW	Ashland	71.7	256.01	1,733	6.77	45	17	23	16	3	26	13	8	1	0	2	10	9
	Barron	48.0	428.61	2,963	6.91	21	17	7	6	10	21	4	2	4	12	8	10	2
	Bayfield	112.5	345.45	3,901	11.29	38	14	23	3	0	28	5	0	2	5	0	13	3
	Buffalo	34.8	311.06	1,540	4.95	33	7	22	12	6	8	6	2	0	3	2	3	7
	Burnett	51.7	231.13	2,027	8.77	31	10	18	8	6	19	10	5	4	9	1	9	3
	Chippewa	46.2	656.39	4,543	6.92	28	11	15	2	3	7	2	2	4	7	3	1	4
	Clark	47.0	398.57	4,756	11.93	22	5	14	10	5	10	0	1	6	3	1	2	2
	Douglas	75.0	465.42	4,764	10.24	33	9	19	9	5	35	6	0	2	8	3	15	19
	Dunn	39.9	520.77	6,329	12.15	30	9	17	10	2	15	3	4	9	5	4	5	3
	Eau Claire	34.4	531.67	5,795	10.90	24	6	14	5	1	0	0	0	0	0	0	0	6
	Jackson	44.0	520.60	4,750	9.12	21	17	4	8	7	21	1	3	4	7	7	10	17
	Pepin	26.6	109.51	447	4.08	16	2	14	6	5	8	4	4	3	3	4	7	7
	Pierce	18.8	368.19	2,327	6.32	17	12	4	4	1	5	1	1	2	3	0	2	0
	Polk	53.6	379.33	3,459	9.12	25	7	13	4	2	18	2	5	3	7	1	3	2
	Rusk	46.9	212.86	1,143	5.37	25	13	12	20	4	11	7	4	0	4	1	7	2
	St. Croix	36.5	658.68	4,279	6.50	23	7	15	5	7	5	2	2	4	2	3	3	0
	Sawyer	59.8	356.97	2,132	5.97	25	10	16	7	7	35	9	8	11	11	10	9	2
Taylor	52.9	232.78	1,376	5.91	30	14	13	10	4	17	9	9	1	15	1	9	0	
Trempealeau	24.0	420.77	4,592	10.91	14	4	11	1	0	24	8	12	4	13	8	12	1	
Washburn	49.9	385.27	3,460	8.98	24	9	14	7	5	13	1	0	3	3	0	6	8	
Region Average		48.7	389.50	3,316	8.16	26	10	14	8	4	16	5	4	3	6	3	7	5

Storms and Incidents - Thru Week 30 (5/29/2025)

From Winter Storm Reports, 2024-2025

Region	County	Snow Depth	Lane Miles	Salt Used	Tons/LM	Number of Storms	Types of Storms				Number of Incidents	Type of Incidents					Anti-icing applic.	
							Wet Snow	Dry Snow	Freezing Rain	Sleet		Drifting	Blowing Snow	Frost	Ice	Bridge Decks		Clean Up
SE	Kenosha	5.4	709.66	5,123	7.22	19	7	11	3	0	4	2	3	1	0	1	0	3
	Milwaukee	27.0	1573.79	14,496	9.21	13	5	7	1	0	3	0	2	0	0	2	1	2
	Ozaukee	46.5	301.07	2,117	7.03	19	10	9	7	5	1	0	0	1	1	0	0	5
	Racine	29.8	761.75	5,321	6.98	20	5	13	3	2	5	1	1	0	2	0	3	23
	Walworth	41.4	687.68	4,584	6.67	26	10	10	5	1	7	1	2	3	2	1	0	11
	Washington	45.4	588.62	5,542	9.42	23	13	12	6	5	7	2	2	2	3	5	2	8
	Waukesha	28.6	1061.89	9,846	9.27	21	8	10	5	7	6	0	2	0	2	4	2	15
	Region Average	32.0	812.07	6,718	7.97	20	8	10	4	3	5	1	2	1	1	2	1	10

Storms and Incidents - Thru Week 30 (5/29/2025)

From Winter Storm Reports, 2024-2025

Region	County	Snow Depth	Lane Miles	Salt Used	Tons/LM	Number of Storms	Types of Storms				Number of Incidents	Type of Incidents					Anti-icing applic.
							Wet Snow	Dry Snow	Freezing Rain	Sleet		Drifting	Blowing Snow	Frost	Ice	Bridge Decks	Clean Up
SW	Columbia	42.1	799.21	7,307	9.14	16	11	2	7	6	10	6	7	4	1	7	8
	Crawford	30.2	398.35	2,210	5.55	21	8	10	4	3	15	5	3	7	8	5	2
	Dane	16.2	1667.53	14,015	8.40	27	6	11	5	3	0	0	0	0	0	0	0
	Dodge	46.0	664.16	4,799	7.23	20	8	10	4	1	4	1	0	1	2	0	1
	Grant	19.2	651.51	3,854	5.91	14	4	7	6	2	6	0	1	2	3	0	2
	Green	19.8	311.98	1,193	3.83	18	6	8	3	1	10	1	2	5	2	1	3
	Iowa	18.4	457.71	2,554	5.58	20	6	9	6	1	6	0	3	3	3	0	0
	Jefferson	23.4	552.35	1,398	2.53	19	8	8	4	4	6	5	0	1	1	0	4
	Juneau	26.4	500.97	5,805	11.59	19	8	8	9	4	4	1	1	0	3	0	0
	La Crosse	36.6	477.01	2,067	4.33	16	5	12	1	0	4	0	0	1	4	0	0
	Lafayette	24.3	294.51	2,037	6.91	27	9	11	9	3	9	0	2	4	2	0	2
	Monroe	31.8	673.53	7,288	10.82	20	12	6	5	0	22	1	1	2	15	4	9
	Richland	18.4	321.53	1,622	5.04	12	3	7	2	1	30	1	1	5	10	1	20
	Rock	24.0	787.75	5,069	6.43	17	8	7	4	0	1	0	1	0	0	0	0
	Sauk	23.5	594.55	5,378	9.05	25	10	13	7	5	4	2	1	2	2	1	2
	Vernon	33.5	468.42	2,831	6.04	31	7	21	8	3	12	3	3	5	4	1	5
Region Average		27.1	601.32	4,339	6.77	20	7	9	5	2	9	2	2	3	4	1	4

Storms and Incidents - Thru Week 30 (5/29/2025)

From Winter Storm Reports, 2024-2025

Region	County	Snow Depth	Lane Miles	Salt Used	Tons/LM	Number of Storms		Types of Storms				Number of Incidents	Type of Incidents					Anti-icing applic.
						Wet Snow	Dry Snow	Freezing Rain	Sleet	Drifting	Blowing Snow		Frost	Ice	Bridge Decks	Clean Up		
Statewide Average		48.9	481.89	3,968.9	8.20	26.0	11.5	11.9	6.9	3.2	12.9	3.4	2.6	2.2	5.1	1.7	5.2	6.7

Section 3: Winter Operations

This section describes the counties' response to this winter season, including material and brine use. Most counties have added prewetting and anti-icing to their arsenal of best practices--strategies that help them use materials efficiently, save money and minimize environmental impacts.

There are also counties that have been using direct liquid applications (DLA) for deicing during a winter event, in which salt brine is used in place of prewetted rock salt during plowing.

Statewide Materials Use, 2024-2025

Total Salt Used	332,458 tons
Total Salt Used per Lane Mile	9.6 tons
Total Cost of Salt Used	\$31,330,308
Average Cost per Ton of Salt	\$94.27
Total Abrasives Used	4,511 cubic yards
Total Brine and Blends Used	17,657,518 gallons

1. Salt use data is from WisDOT Salt Inventory Reportings System (SIRS)

2. Cost data is actual costs as billed to WisDOT in MPM

Figure 3.1 – Salt use per Lane Mile and Average Severity Index, 1992 – 2025

Figure 3.1 plots the average statewide salt use per lane mile versus the average statewide Winter Severity Index.

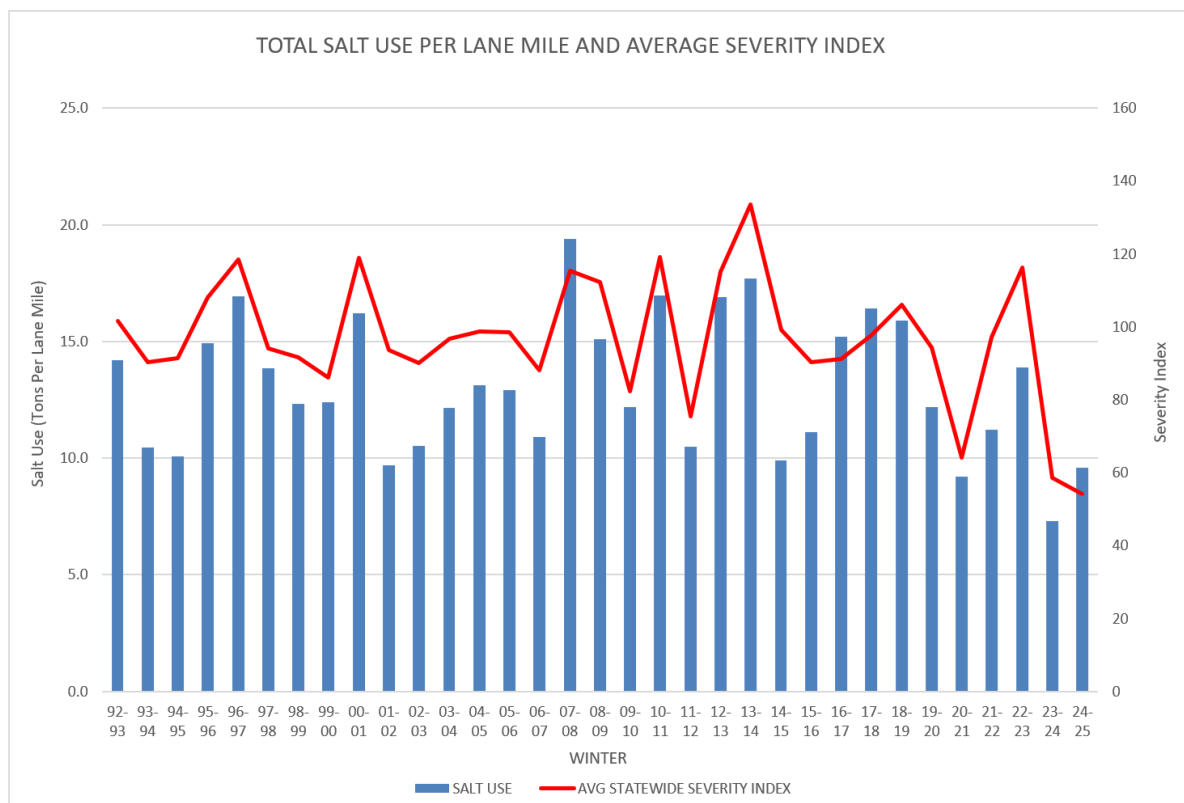
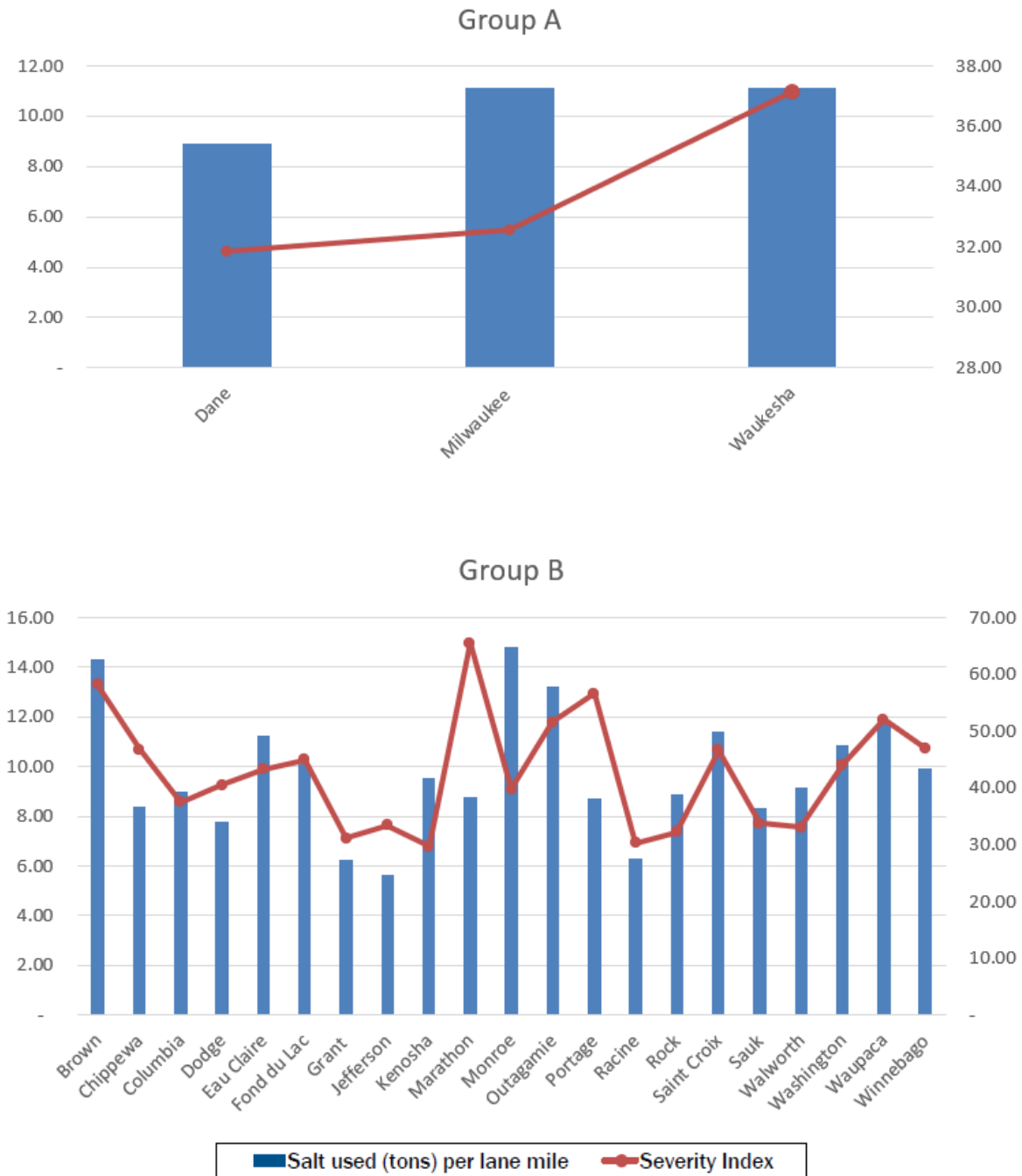


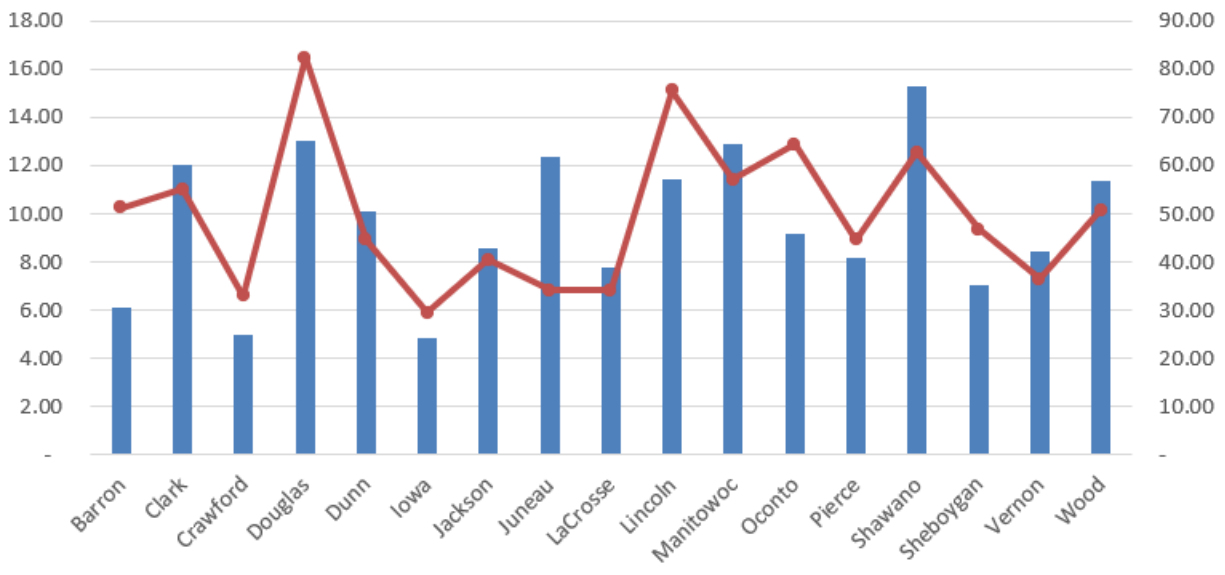
Figure 3.2 – Salt Used per Lane Mile and Severity Index per Group

**From Salt Inventory Reporting System, Salt Inventories, and MDSS*

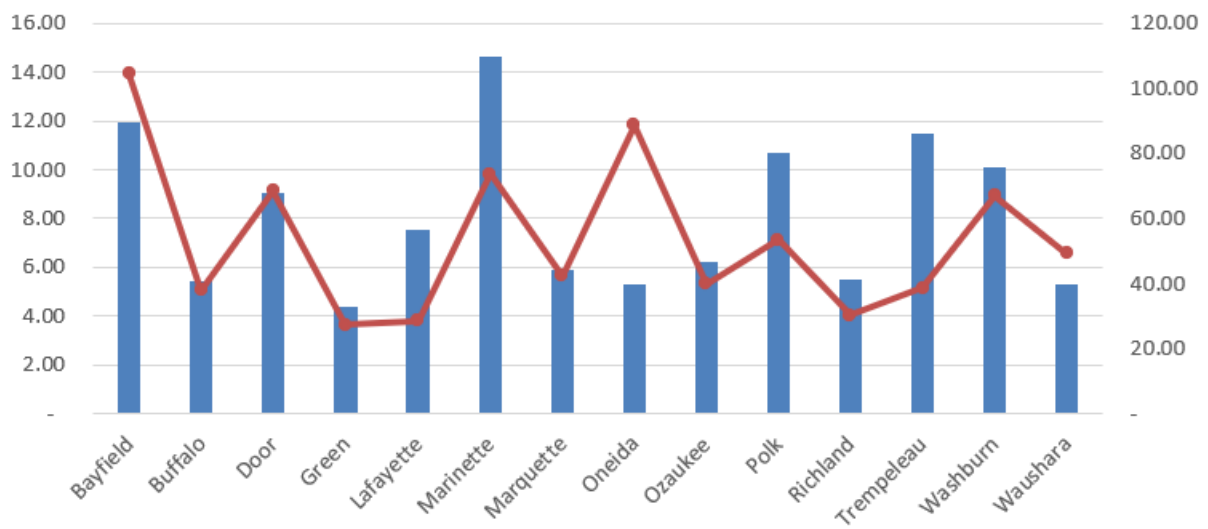
Figure 3.2 shows salt use per lane mile in each county, overlaid with severity index to allow a further “apples to apples” comparison of salt use in each county. The counties in Winter Service Groups A and B have more urban highways and tend to use more salt per lane mile for a given level of severity.



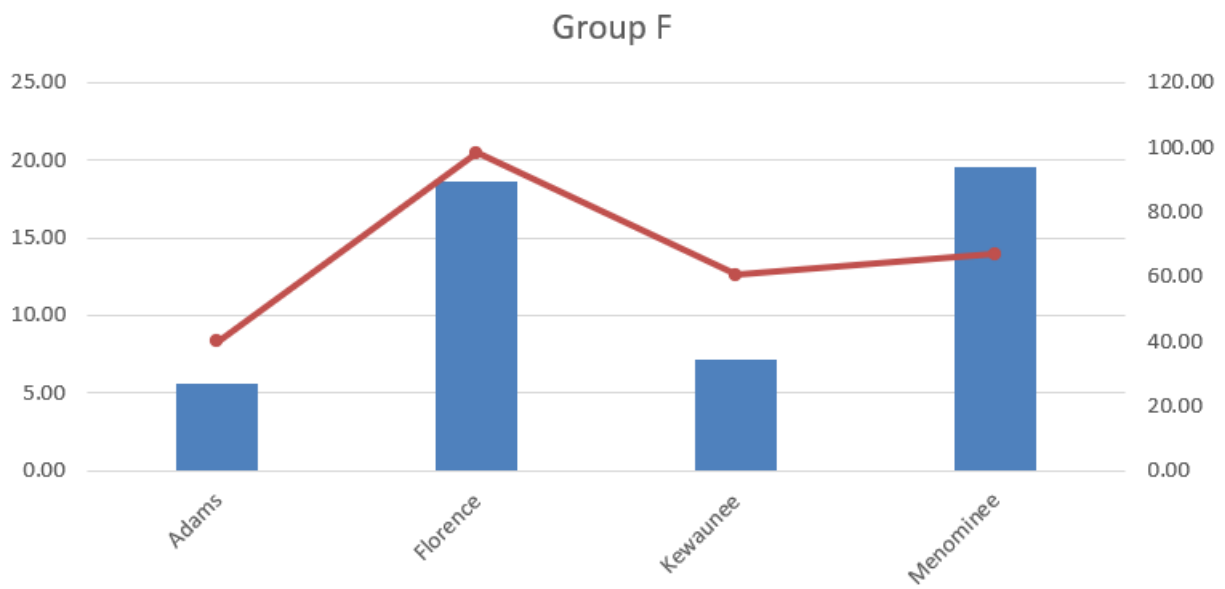
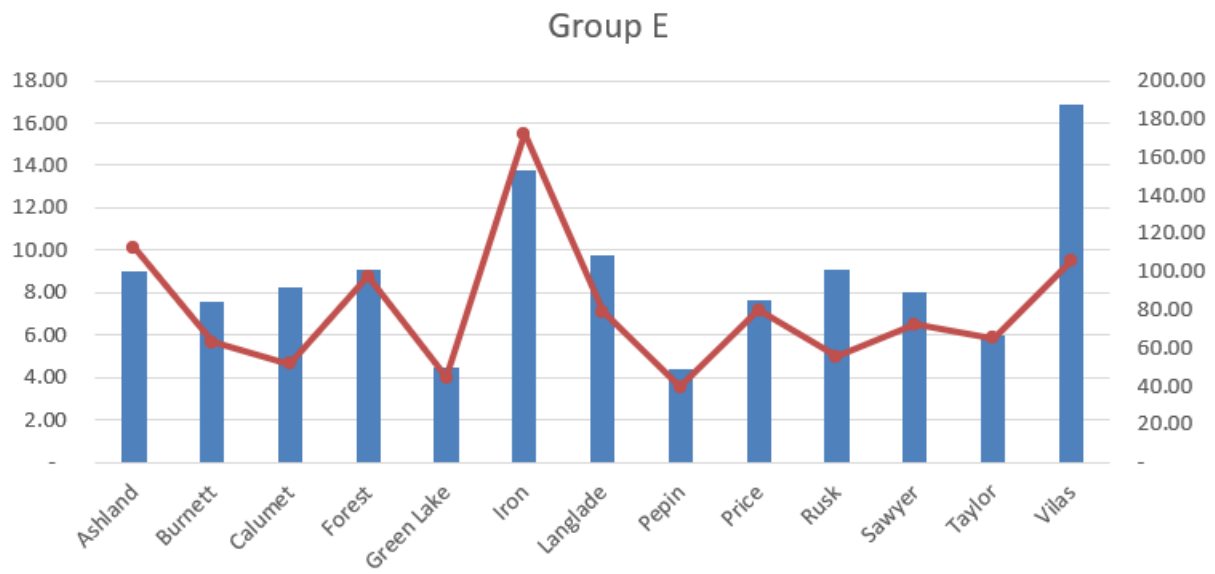
Group C



Group D



■ Salt used (tons) per lane mile ● Severity Index



■ Salt used (tons) per lane mile ● Severity Index

Figure 3.3 – United States Salt Prices over Time (Through 2024-2025)

***From historical data supplied by the Clear Roads group, 33 States reported their salt price of 2024-2025**

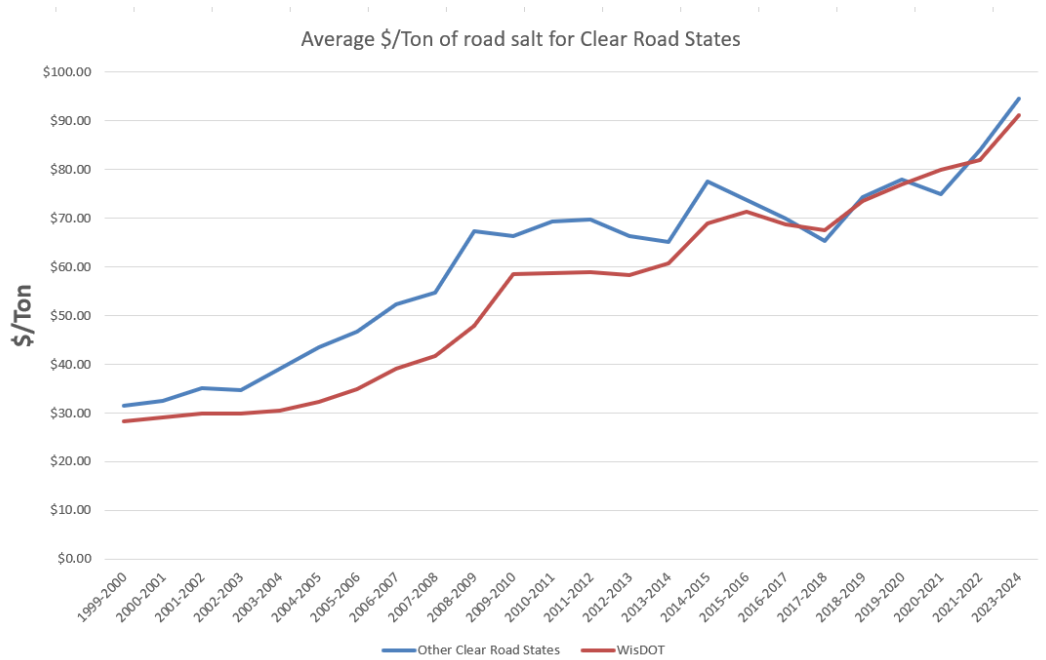


Figure 3.4 – Salt Prices Across the United States in 2024-2025

***From data supplied by the Clear Roads group**

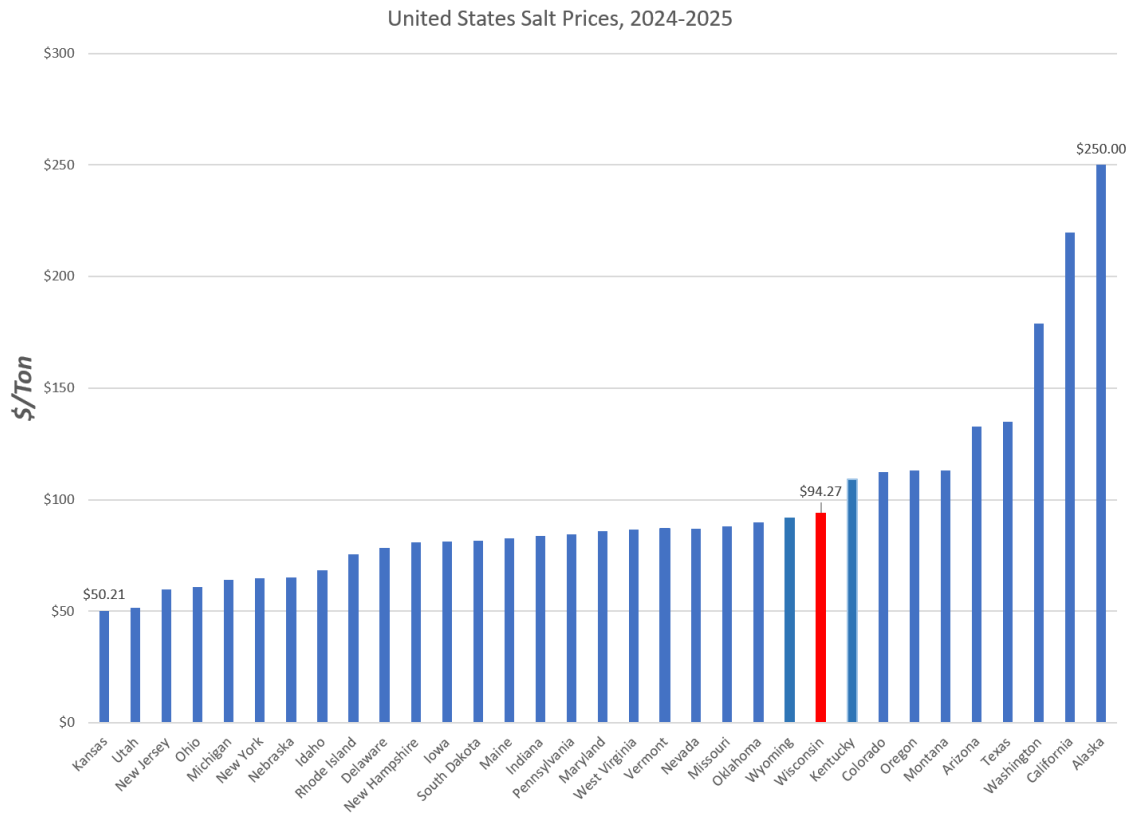


Figure 3.5 – Statewide Sand Use from 1998-2025

**From 2024-2025 Winter Storm Reports*

Figure 3.5 compares this winter's statewide sand use with previous years. The spikes in the figure are due to salt shortages during those years.

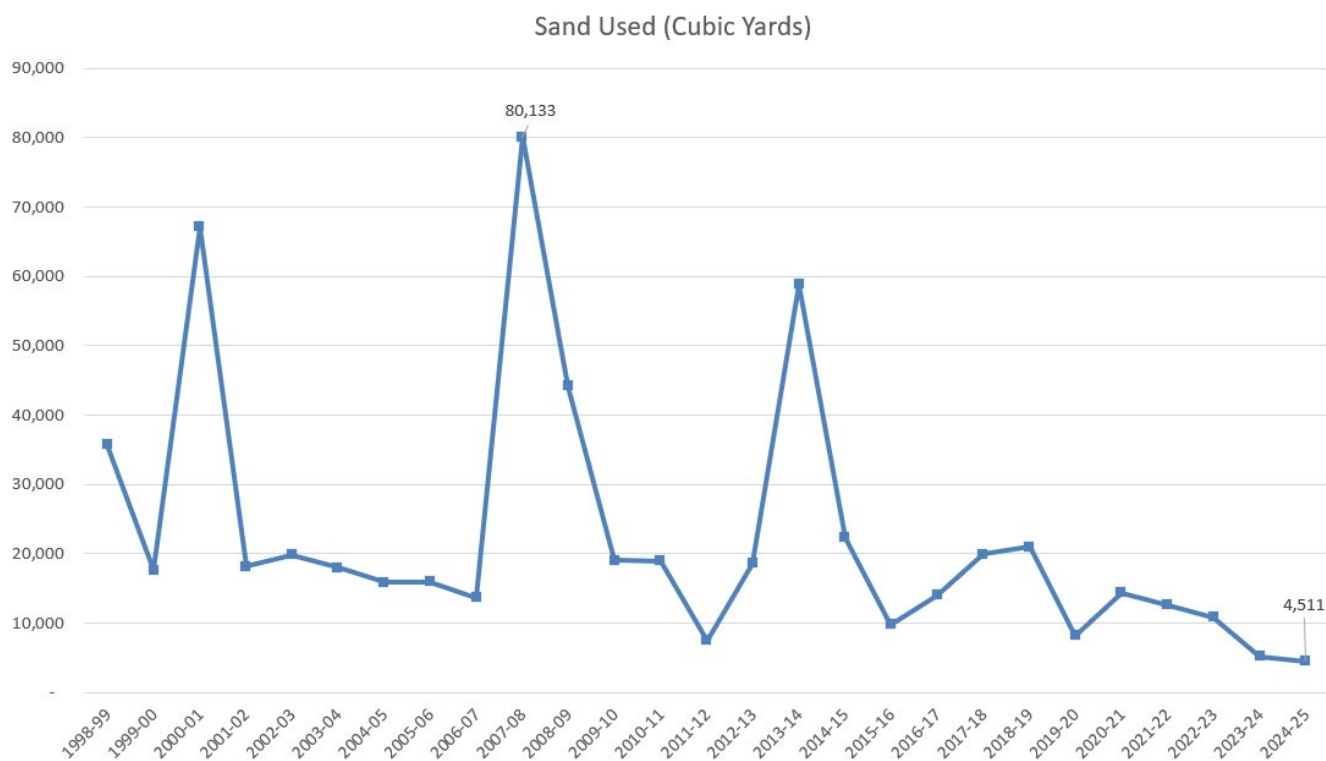


Table 3.1 – Statewide Brine Agent Usage

***From 2024-2025 Winter Storm Reports**

In addition to salt brine, some counties used calcium chloride, magnesium chloride, or agricultural-based products for prewetting this year. See Table 3.1 and Table A-5 in the Appendix for details. Organic blends seem to be preferred over the straight chemical products because they adhere to the pavement longer. The addition of the organics helps reduce corrosion of equipment. Although once the only option for prewetting, calcium chloride is a more corrosive chemical than other prewetting liquids and can damage equipment and be more difficult for operators to handle.

Statewide Brine Agent Usage						
Agent	Prewet Gallons Used	# counties using PreWet	Anti-Icing Gallons Used	# counties using Anti-Icing	Direct Liquid Gallons used	# counties using Direct Liquid
Salt (NaCl) Brine	7,212,520	71	3,062,096	64	6,392,662	26
Calcium Chloride						
CaCl ₂ - Liquid	28,931	13	2,054	2	480,077	7
Magnesium Chloride						
MgCl ₂ - Liquid	14,950	3	2,602	1	-	-
Proprietary Mixtures						
FreezeGuard	7	1		-	-	-
GeoMelt	410	1	3,425	1	-	-
IceBite 55	-	-	-	-	-	-
Beet 55	10,800	6	-	-	-	-
AMP	13,870	1	2,231	1	261,487	2
BeetHeat	144,637	16	20,216	8	4,543	1
Total Liquid Used	7,426,125		3,092,624		7,138,769	
Total (Anti-Icing, Prewet, DLA):	17,657,518					

****From 2024-2025 Winter Storm Reports***

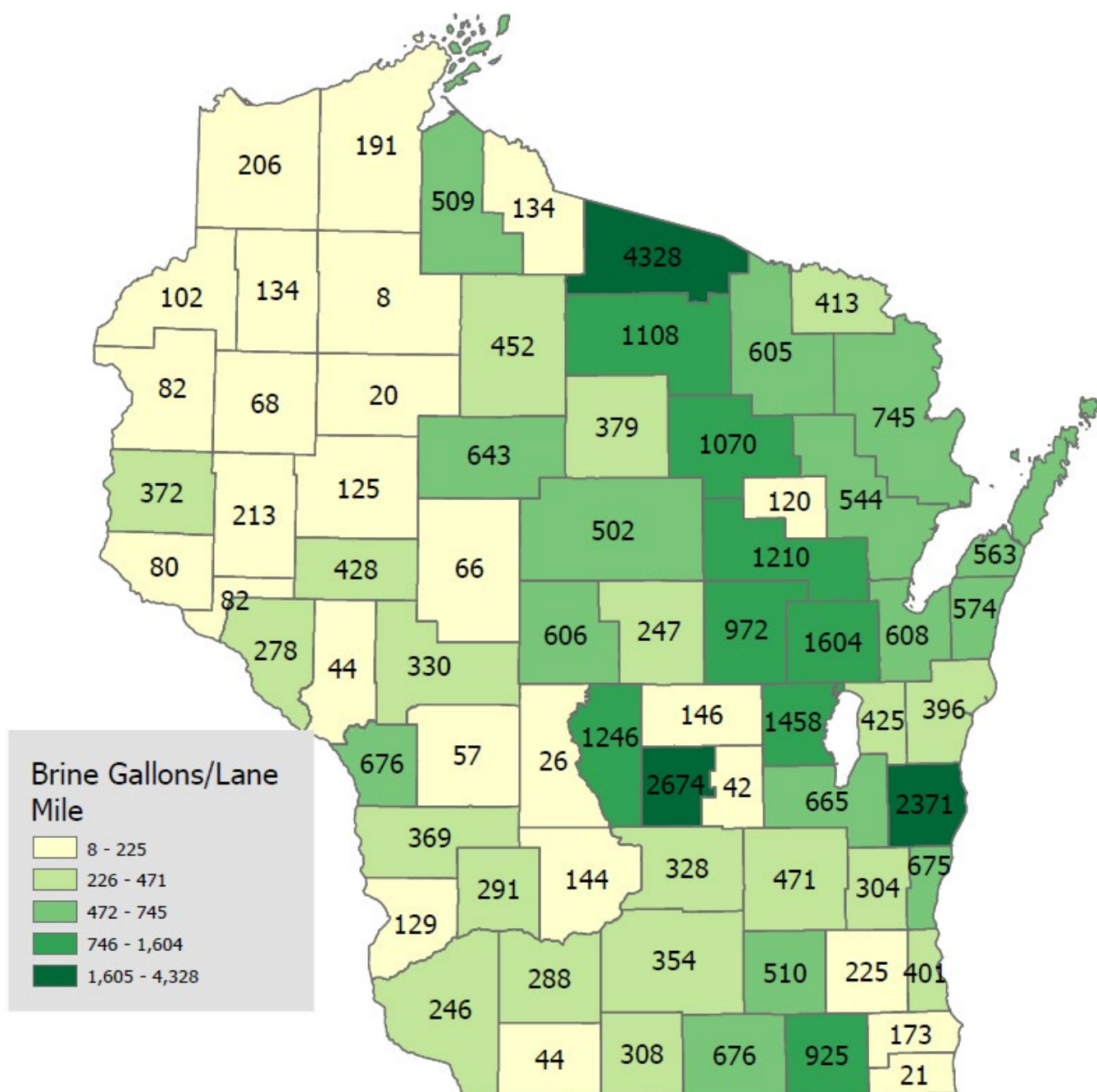
Gallons of Brine

2,773 - 86,331
86,332 - 203,241
203,242 - 407,007
407,008 - 673,371
673,372 - 1,331,813

Figure 3.7 – Total Gallons of Brine per Lane-Mile

**From 2024-2025 Winter Storm Reports*

Figure 3.6 shows the total gallons of brine used per lane mile in each county for this winter.



Statewide Average: 509 gallons/lane-mile

Figure 3.8 – Counties using Direct Liquid Application (DLA) – Total Gallons

**From 2024-2025 Winter Storm Reports*

Figure 3.8 shows the total gallons of Direct Liquid Application (DLA) applied in each county this winter.

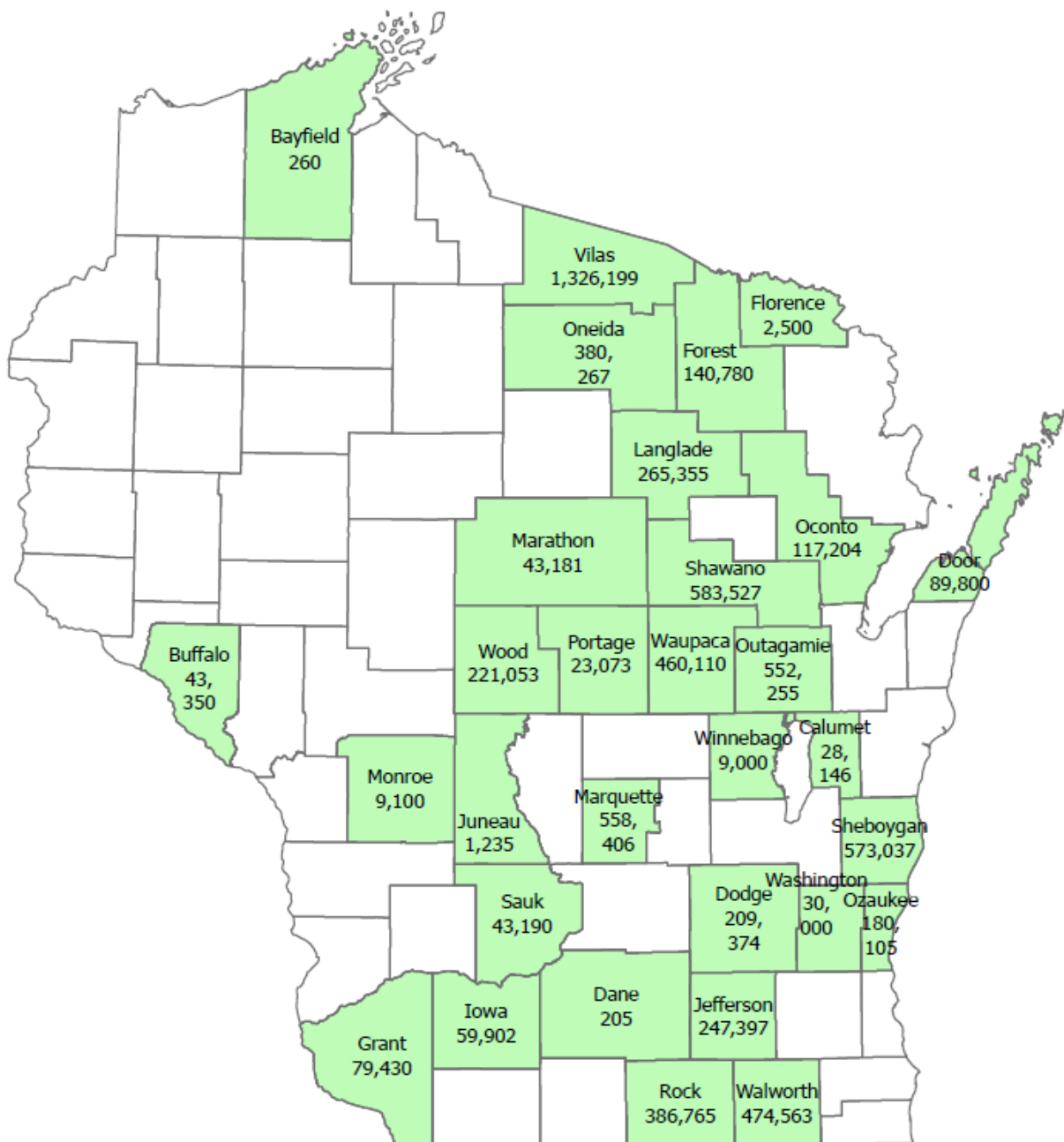
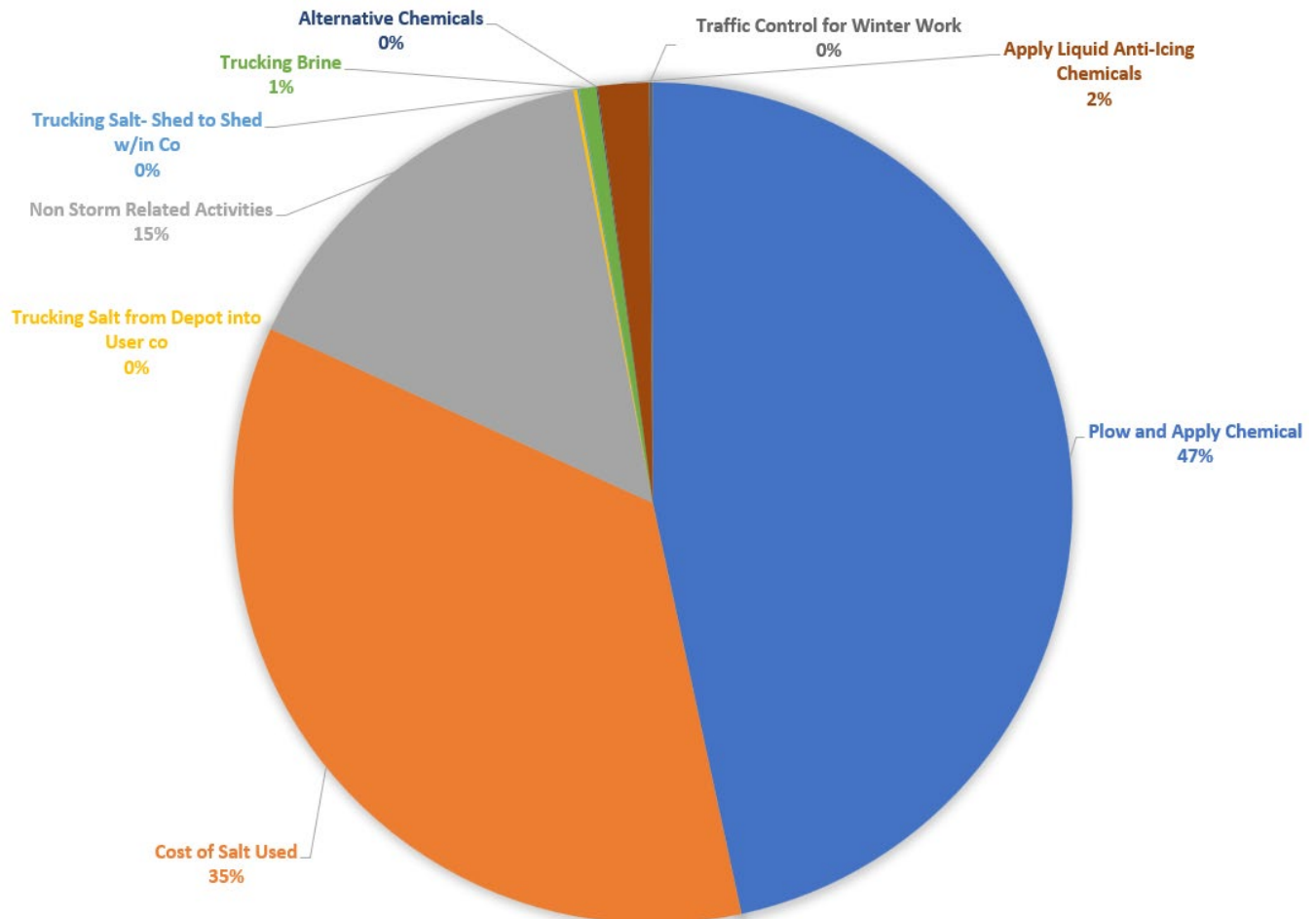


Figure 3.9 – Winter Costs by Activity Code, 2024-2025

**From invoices turned into Maintenance Program Management (MPM)*

Figure 3.9 shows the breakdown of winter costs by Activity codes turned in by the counties into MPM for this winter season.



Activity	Cost
Plow and Apply Chemical	\$41,505,000
Cost of Salt Used	\$31,330,309
Non-Storm Related Activities	\$13,514,624
Trucking Salt from Depot into User co	\$124,831
Trucking Salt- Shed to Shed w/in Co	\$51,562
Trucking Brine	\$603,478
Alternative Chemicals	\$39,023
Apply Liquid Anti-Icing Chemicals	\$1,752,170
Traffic Control for Winter Work	\$125,747
Total	\$89,046,744

Figure 3.10 shows the counties that have either received a state financed high capacity brine maker or have purchased a brine maker on their own.



Figure 3.11 – Roadway Weather Information System (RWIS) Locations

Figure 3.11 shows the locations of the 70 Roadway Weather Information System (RWIS) locations around the Wisconsin. They are Designed to provide maintenance crews with the most accurate information about current and future weather conditions.



Figure 3.12 – 2024-2025 Salt Use per Lane-Mile vs 5-Year Average

**From Salt Inventory Recording System (SIRS) and Physical Salt Inventories*

Figure 3.12 shows this winter's total salt use vs the 5-year's prior average total salt use, to show the increase or decrease from that average.

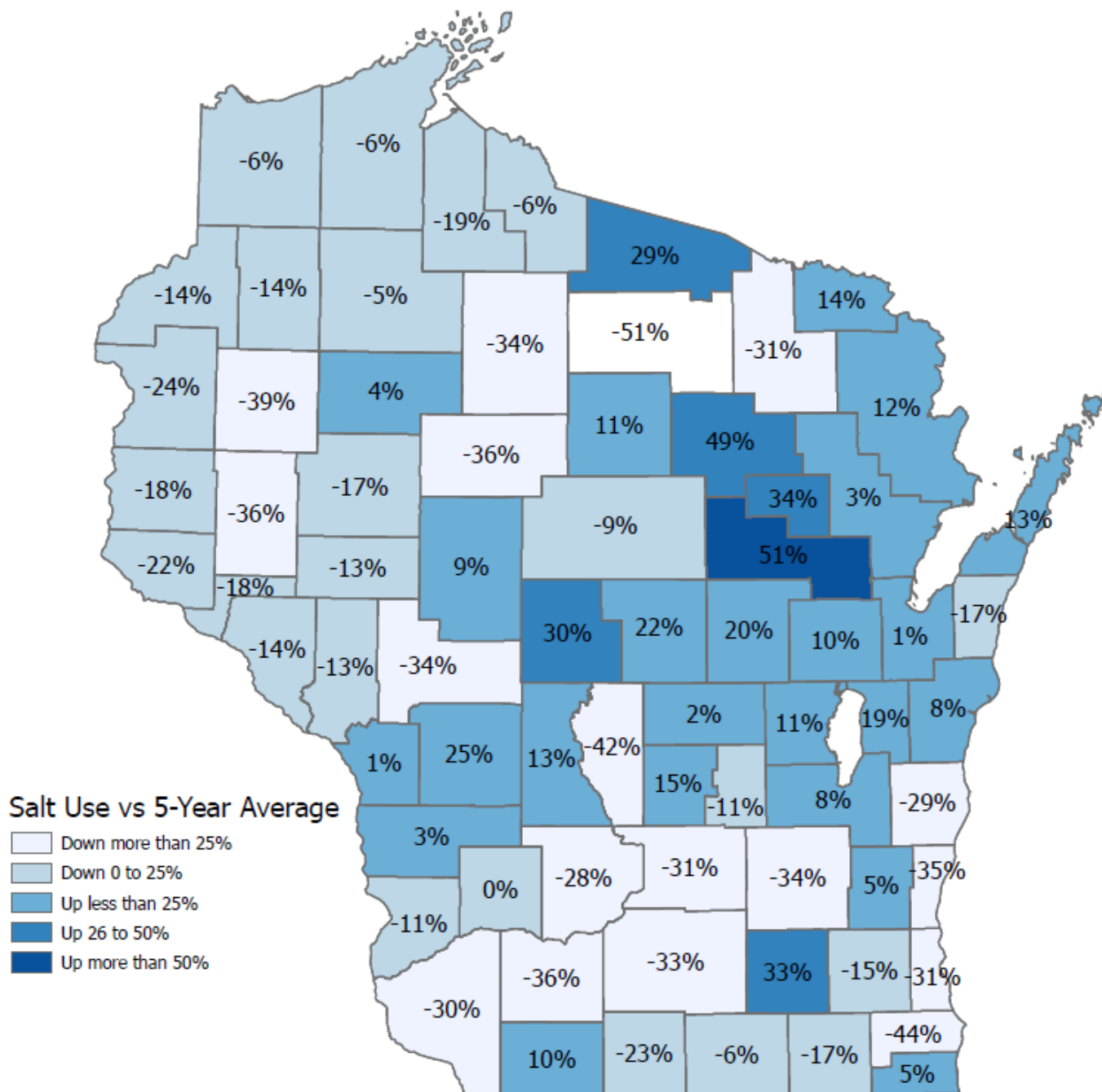


Figure 3.13 – Tons of Salt per Lane-Mile, 2024-2025

**From Salt Inventory Recording System and Physical Salt Inventories*

Figure 3.13 shows the tons of salt per lane mile used on the state highway network in each given county.

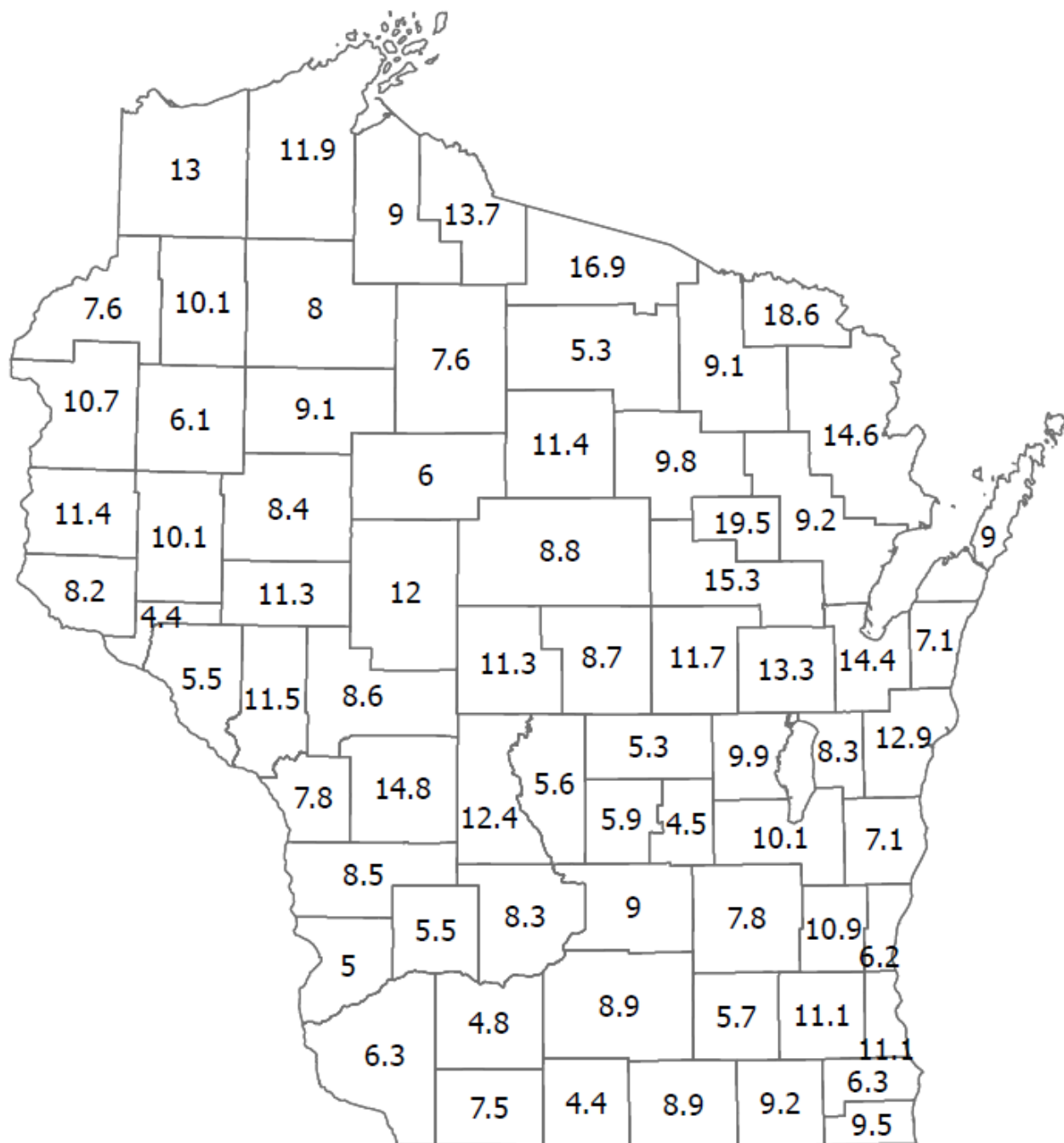


Table 3.2 – Labor Hours/Lane Miles/Severity Index Ranking

Table 3.2 shows what was turned in on winter storm reports by each county for the number of hours spent on winter maintenance that past year. As well as showing comparisons of total hours spent per lane mile as well as total hours spent per lane mile per severity index.

Table 3.2 Labor Hours/Lane Miles/Severity Index Rating (Group A)

From Winter Storm Reports 2024-2025

County	Region	Lane Miles	Severity Index	Salt per Lane Mi	Labor Cost per Lane Mi	Reg Hrs	OT Hrs	Total Hrs	% OT	Total Hrs per Lane Mi	Total Hrs per Lane Mi/SI
Dane	SW	1,667.53	31.86	8.4	\$739	4,399	7,582	11,981	63%	7.18	0.23
Milwaukee	SE	1,573.79	32.55	9.2	\$476	5,246	3,514	8,760	40%	5.57	0.17
Waukesha	SE	1,061.89	37.13	9.3	\$332	4,153	1,494	5,647	26%	5.32	0.14
Group A Avg		1,434.40	33.85	9.0	\$516	4,599	4,197	8,796	43%	6.02	0.18

Table 3.2 Labor Hours/Lane Miles/Severity Index Rating (Group B)

From Winter Storm Reports 2024-2025

County	Region	Lane Miles	Severity Index	Salt per Lane Mi	Labor Cost per Lane Mi	Reg Hrs	OT Hrs	Total Hrs	% OT	Total Hrs per Lane Mi	Total Hrs per Lane Mi/SI
Brown	NE	856.26	58.21	11.88	\$595	1,975	5,202	7,177	72%	8.38	0.14
Chippewa	NW	656.39	46.79	6.9	\$369	1,566	2,476	4,042	61%	6.16	0.13
Columbia	SW	799.21	37.48	9.1	\$331	2,555	1,817	4,372	42%	5.47	0.15
Dodge	SW	664.16	40.51	7.2	\$323	1,640	2,072	3,712	56%	5.59	0.14
Eau Claire	NW	531.67	43.28	10.9	\$370	2,015	1,308	3,323	39%	6.25	0.14
Fond Du Lac	NE	612.34	44.94	7.7	\$381	1,423	1,981	3,404	58%	5.56	0.12
Grant	SW	651.51	31.08	5.9	\$238	1,051	1,366	2,417	57%	3.71	0.12
Jefferson	SW	552.35	33.42	2.5	\$249	857	1,177	2,034	58%	3.68	0.11
Kenosha	SE	709.66	29.72	7.2	\$379	2,782	1,232	4,014	31%	5.66	0.19
Marathon	NC	900.30	65.49	9.0	\$464	3,270	3,949	7,219	55%	8.02	0.12
Monroe	SW	673.53	39.8	10.8	\$290	1,602	1,906	3,508	54%	5.21	0.13
Outagamie	NE	591.16	51.61	8.4	\$493	3,004	1,810	4,814	38%	8.14	0.16
Portage	NC	531.60	56.64	6.9	\$539	2,755	1,995	4,750	42%	8.94	0.16
Racine	SE	761.75	30.26	7.0	\$339	1,875	1,572	3,447	46%	4.53	0.15
Rock	SW	787.75	32.23	6.4	\$341	1,726	1,602	3,328	48%	4.22	0.13
Sauk	SW	594.55	33.74	9.1	\$359	1,654	2,175	3,829	57%	6.44	0.19
St. Croix	NW	658.68	46.6	6.5	\$323	1,232	2,002	3,234	62%	4.91	0.11
Walworth	SE	687.68	33.06	6.7	\$342	1,860	1,609	3,469	46%	5.04	0.15
Washington	SE	588.62	44.11	9.4	\$365	1,501	1,843	3,344	55%	5.68	0.13
Waupaca	NC	536.45	52.05	9.8	\$374	1,887	1,561	3,448	45%	6.43	0.12
Winnebago	NE	689.08	47.05	8.9	\$478	2,278	2,304	4,582	50%	6.65	0.14
Group B Avg		668.32	42.77	8.0	\$378	1,929	2,046	3,975	51%	5.94	0.14

Table 3.2 Labor Hours/Lane Miles/Severity Index Rating (Group C)

From Winter Storm Reports 2024-2025

County	Region	Lane Miles	Severity Index	Salt per Lane Mi	Labor Cost per Lane Mi	Reg Hrs	OT Hrs	Total Hrs	% OT	Total Hrs per Lane Mi	Total Hrs per Lane Mi/SI
Barron	NW	428.61	51.47	6.9	\$451	2,035	1,190	3,225	37%	7.52	0.15
Clark	NW	398.57	55.07	11.9	\$282	727	1,091	1,818	60%	4.56	0.08
Crawford	SW	398.35	33.02	5.5	\$267	1,012	769	1,781	43%	4.47	0.14
Douglas	NW	465.42	83.74	10.6	\$380	3,060	728	3,788	19%	8.14	0.10
Dunn	NW	520.77	44.63	12.2	\$441	1,420	1,930	3,350	58%	6.43	0.14
Iowa	SW	457.71	29.43	5.6	\$302	1,114	1,149	2,263	51%	4.94	0.17
Jackson	NW	520.60	40.48	9.1	\$273	1,376	1,282	2,658	48%	5.11	0.13
Juneau	SW	500.97	38.27	11.6	\$286	669	1,471	2,140	69%	4.27	0.11
La Crosse	SW	477.01	34.09	4.3	\$285	741	1,435	2,176	66%	4.56	0.13
Lincoln	NC	402.93	75.56	6.4	\$351	1,824	824	2,648	31%	6.57	0.09
Manitowoc	NE	420.33	57.04	8.9	\$408	1,798	1,374	3,172	43%	7.55	0.13
Oconto	NE	479.21	64.45	8.0	\$406	1,777	1,520	3,297	46%	6.88	0.11
Pierce	NW	368.19	44.61	6.3	\$198	655	605	1,260	48%	3.42	0.08
Shawano	NC	530.30	62.78	11.7	\$535	2,979	1,468	4,447	33%	8.39	0.13
Sheboygan	NE	541.07	46.8	3.4	\$447	1,562	1,905	3,467	55%	6.41	0.14
Vernon	SW	468.42	36.51	6.0	\$273	1,076	1,299	2,375	55%	5.07	0.14
Wood	NC	437.76	50.69	10.8	\$383	1,527	1,397	2,924	48%	6.68	0.13
Group C Avg		459.78	49.92	8.2	\$351	1,491	1,261	2,752	48%	5.94	0.12

Table 3.2 Labor Hours/Lane Miles/Severity Index Rating (Group D)

From Winter Storm Reports 2024-2025

County	Region	Lane Miles	Severity Index	Salt per Lane Mi	Labor Cost per Lane Mi	Reg Hrs	OT Hrs	Total Hrs	% OT	Total Hrs per Lane Mi	Total Hrs per Lane Mi/SI
Bayfield	NW	345.45	106.76	11.4	\$507	2,061	1,070	3,131	34%	9.06	0.08
Buffalo	NW	311.06	37.95	5.0	\$216	952	449	1,401	32%	4.50	0.12
Door	NE	266.89	68.48	8.5	\$561	767	1,268	2,035	62%	7.62	0.11
Green	SW	311.98	27.25	3.8	\$274	768	703	1,471	48%	4.72	0.17
Lafayette	SW	294.51	28.49	6.9	\$237	670	590	1,260	47%	4.28	0.15
Marinette	NE	404.93	73.55	16.8	\$522	1,756	1,725	3,481	50%	8.60	0.12
Marquette	NC	251.86	42.31	5.6	\$272	629	552	1,181	47%	4.69	0.11
Oneida	NC	391.33	89.72	4.8	\$508	2,605	817	3,422	24%	8.74	0.10
Ozaukee	SE	301.07	39.85	7.0	\$256	587	552	1,139	48%	3.78	0.09
Polk	NW	379.33	53.42	9.1	\$294	1,119	879	1,998	44%	5.27	0.10
Richland	SW	321.53	30.28	5.0	\$230	859	613	1,472	42%	4.58	0.15
Trempealeau	NW	420.77	38.76	10.9	\$315	1,287	915	2,202	42%	5.23	0.14
Washburn	NW	385.27	67.54	9.2	\$396	1,146	1,167	2,313	50%	6.00	0.09
Waushara	NC	344.82	49.23	5.7	\$300	1,504	346	1,850	19%	5.37	0.11
Group D Avg		337.91	53.83	7.8	\$349	1,194	832	2,025	42%	5.89	0.12

Table 3.2 Labor Hours/Lane Miles/Severity Index Rating (Group E)

From Winter Storm Report: 2024-2025

County	Region	Lane Miles	Severity Index	Salt per Lane Mi	Labor Cost per Lane Mi	Reg Hrs	OT Hrs	Total Hrs	% OT	Total Hrs per Lane Mi	Total Hrs per Lane Mi/SI
Ashland	NW	256.01	116.28	6.8	\$407	1,223	621	1,844	34%	7.20	0.06
Burnett	NW	231.13	63.06	8.9	\$293	586	675	1,261	54%	5.46	0.09
Calumet	NE	220.63	51.53	4.6	\$351	1,184	203	1,387	15%	6.29	0.12
Forest	NC	313.57	98.15	13.1	\$349	1,240	851	2,091	41%	6.67	0.07
Green Lake	NC	154.68	44.55	4.0	\$195	338	221	559	40%	3.61	0.08
Iron	NC	240.38	178.01	12.0	\$666	1,443	1,096	2,539	43%	10.56	0.06
Langlade	NC	298.94	78.77	7.6	\$355	1,132	790	1,922	41%	6.43	0.08
Pepin	NW	109.51	39.27	4.1	\$407	415	372	787	47%	7.19	0.18
Price	NC	319.70	81.14	6.4	\$414	979	1,307	2,286	57%	7.15	0.09
Rusk	NW	212.86	55.52	5.3	\$227	540	380	920	41%	4.32	0.08
Sawyer	NW	356.97	73.63	6.0	\$281	1,234	566	1,800	31%	5.04	0.07
Taylor	NW	232.78	64.89	5.9	\$264	549	565	1,114	51%	4.79	0.07
Vilas	NC	307.73	108.79	11.4	\$376	1,894	802	2,696	30%	8.76	0.08
Group E Avg		250.38	81.05	7.4	\$353	981	650	1,631	40%	6.42	0.09

Table 3.2 Labor Hours/Lane Miles/Severity Index Rating (Group F)

From Winter Storm Report: 2024-2025

County	Region	Lane Miles	Severity Index	Salt per Lane Mi	Labor Cost per Lane Mi	Reg Hrs	OT Hrs	Total Hrs	% OT	Total Hrs per Lane Mi	Total Hrs per Lane Mi/SI
Adams	NC	202.01	39.86	5.44	\$242	668	250	918	27%	4.54	0.11
Florence	NC	137.43	98.8	16.1	\$470	914	375	1,289	29%	9.38	0.09
Kewaunee	NE	126.37	60.59	9.2	\$248	404	165	569	29%	4.50	0.07
Menominee	NC	90.76	67.05	19.5	\$299	483	129	612	21%	6.74	0.10
Group F Avg		139.14	66.58	12.6	\$315	617	230	847	27%	6.29	0.10

Section 4 – Winter Performance Measures

Since weather can vary drastically from year to year, planning and budgeting for winter highway maintenance can be challenging. Throughout the winter, WisDOT staff and county highway departments evaluate progress in several areas, including materials use, money spent, and response time. When the season is complete, WisDOT can gather all the data and analyze this winter's performance across all regions and compared to previous winters.

Performance and Costs, 2024 – 2025

Total lane miles	34,697
Total patrol sections	754
Average lane miles per patrol section	46.0
Roads to bare/wet pavement within WisDOT Targets	70%
Total tons of salt/lane-mile	9.6
Total gallons of brine and blends/lane-mile	509
Average crew reaction time from start of storm	2.79 hours
Total winter costs	\$89,046,744
Total winter costs/lane-mile	\$2,566
Total winter crashes	5,635
Total winter crashes per 100 million VMT	18

- 1. Time to bare/wet pavement and crew reaction time data are from storm reports*
- 2. Cost data are actual costs billed to WisDOT by the counties*
- 3. Crash data is from WisDOT Bureau of Transportation Safety*

Table 4.1 – Statewide Performance Measures for Winter

Table 4.1 gives the statewide average values for time to bare/wet pavement, winter weather crashes per vehicle miles (VMT) traveled, and cost per lane mile per winter severity index.

	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025
Percentage of Roads to bare/wet pavement (Within WisDOT target times)	68%	72%	73%	75%	70%
Cost per lane mile	\$2,107	\$2,457	\$3,420	\$2,080	\$2,566
Winter Severity Index	64.1	97.1	116.2	58.7	54.4
Cost per lane mile per Winter Severity Index point	\$31.09	\$25.30	\$29.43	\$35.44	\$47.17
Winter weather crashes	23 per 100 million VMT	19 per 100 million VMT	25 per 100 million VMT	13 per 100 million VMT	18 per 100 million VMT

Table 4.2 – Average Patrol Sections Lengths by Winter Service Group

Table 4.2 shows the average patrol section length for the counties in each Winter Service Group. For county-by-county patrol section data, see Table 4.8.

Winter Service Group	Average Patrol Section Length (lane miles)	Min Lane Miles per Section	Max Lane Miles per Section
A	46.4	40.8	50.5
B	47.2	35.4	59.2
C	45.7	30.6	57.9
D	47.9	29.7	63.2
E	47.8	36.5	59.5
F	43.4	40.4	45.8
Statewide Average	46.0	29.7	63.2

Table 4.3 – Maintenance Crew Reaction Times

***From Winter Storm Reports 2024-2025**

Using data from the weekly winter storm reports, Table 4.3 shows the average reaction time to storm events in each Winter Service Group. As expected, average reaction times for Group A counties, which provide the highest level of service (24-hour coverage), were less than those counties that provide 18-hour coverage.

	10-Year Average reaction time (hours)										10-year Average	Average reaction time (hours)	Percent change
Winter Service Group	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2014-2015 to 2023-2024	2024-2025	2024-2025 vs. 10-year avg.
A	0.32	1.21	0.37	0.52	0.48	1.01	0.23	1.15	0.10	0.39	0.58	1.60	177%
B	1.67	2.4	1.07	1.34	1.16	1.26	1.30	1.13	1.15	1.21	1.37	1.57	15%
C	2.57	3.19	2.22	2.61	2.16	2.24	2.66	2.29	2.40	2.76	2.51	2.65	6%
D	2.86	3.91	2.06	2.7	2.61	2.90	3.02	2.53	2.37	3.01	2.80	2.50	-11%
E	3.77	6.72	3.94	5.04	4.4	4.29	4.39	3.98	4.73	4.43	4.57	4.30	-6%
F	4.78	8.62	3.64	5.13	3.91	5.27	5.04	4.30	4.58	4.07	4.93	4.58	-7%
Statewide average (unweighted)	2.66	4.34	2.22	2.89	2.45	2.83	2.77	2.56	2.56	2.65	2.79	2.87	3%

Table 4.4 – Percentage to Bare/Wet Pavement

****From Winter Storm Reports 2024-2025**

Table 4.4 shows the trend for average time to bare/wet pavement is as expected: More heavily traveled highways show a shorter average time to bare/ wet pavement. From storm to storm, however, most variability is due to weather effects (type, duration and severity of storms throughout the winter season). “Time to bare/wet pavement” is measured from the reported end time of a storm.

	Percent of Time the Highway Category Target Time to Bare/Wet Pavement was Met (Target Times: 4 hours for 24-Hour Roads; 6 hours for 18 Hour Roads)										
Highway Category	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
24-Hour Roads	75%	78%	79%	73%	73%	78%	74%	79%	82%	83%	77%
18-Hour Roads	67%	71%	70%	60%	65%	67%	62%	66%	66%	68%	63%
Target	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%	70%

Table 4.5 – Total Winter Costs Relative to Winter Severity, 2024-2025

**Costs from invoices entered in MPM and Winter Severity from MDSS*

Table 4.5 shows total winter maintenance costs statewide and for each region per lane mile, as well as relative to the region's average Winter Severity Index. The level of service provided in each county affects the total costs, and the mix of counties in a region affects the overall comparative costs.

Region	Average Winter Severity Index	Actual cost per lane mile	Relative cost per severity index point
SW	33.3	\$2,140	\$64.26
SE	35.2	\$2,794	\$79.38
NE	56.8	\$2,900	\$51.06
NC	74.4	\$2,819	\$37.89
NW	58.7	\$2,497	\$42.54
Statewide	54.4	\$2,566	\$47.17

Figure 4.1 – Statewide Average Winter Costs per Lane Mile and Winter Severity Index, 2000-2001 thru 2024-2025

**Costs from invoices entered in MPM and Winter Severity from MDSS*

Figure 4.1 shows the statewide average winter cost per lane mile and Winter Severity Index since the 1998-99 winter.

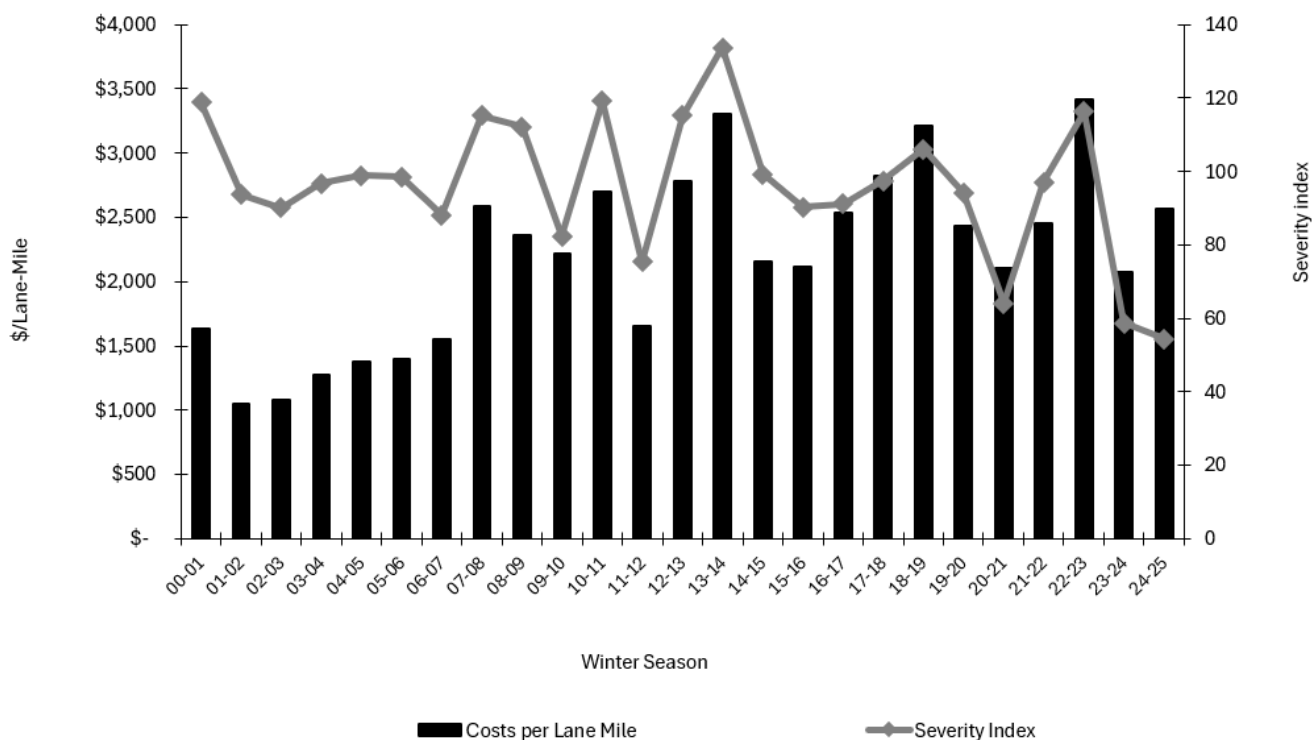
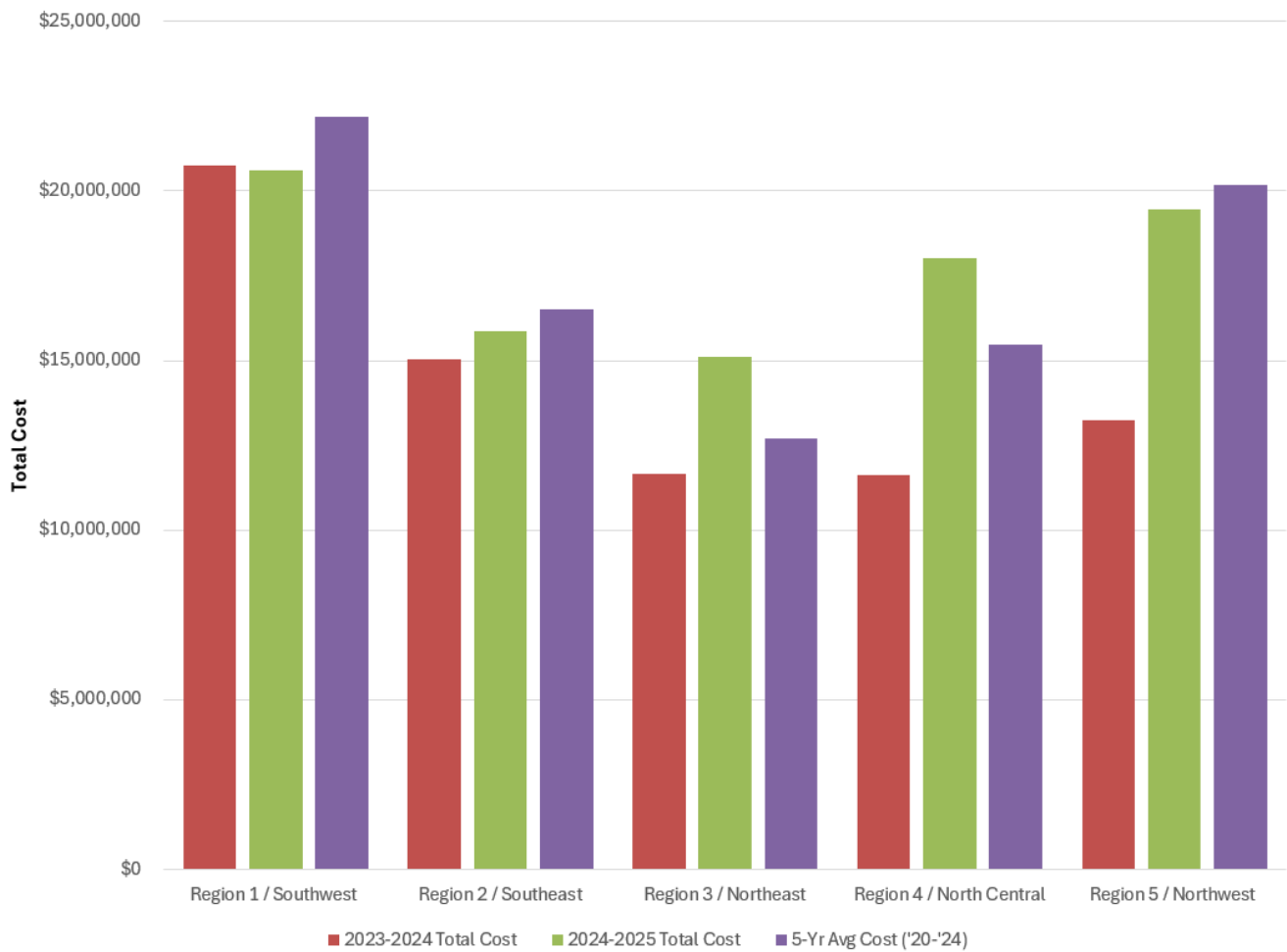


Figure 4.2 – Total Winter Maintenance Cost by Region, 2023-24 vs 2024-25 vs 5-Year Average

**Costs from invoices entered in MPM*

Figure 4.2 shows the last two winter's total cost per region versus the 5-year prior total average cost per region.



***Costs from invoices entered in MPM**

Cost Per Lane-Mile

- Less than \$1,700
- \$1,701 to \$2,300
- \$2,301 to \$2,900
- \$2,901 to \$3,500
- Greater than \$3,501

Figure 4.4 – Statewide Winter Costs by Category

**Costs from invoices entered in MPM*

Figure 4.4 shows the breakdown of the statewide winter maintenance costs by the five major cost categories which include: cost of salt used, labor costs, cost of other materials furnished by the county, and administration costs.

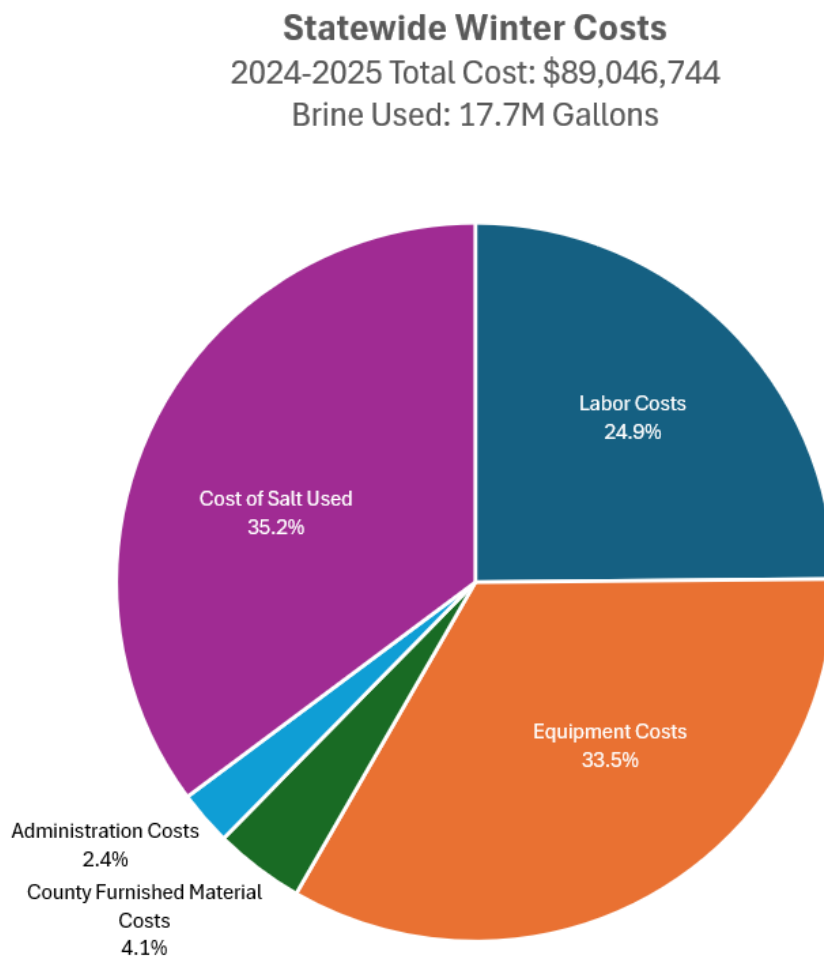


Figure 4.5 – Regional Winter Costs by Category, 2024-2025

**Costs from invoices entered in MPM*

Figure 4.5 shows the breakdown of costs by billing category for each of the five regions.



Table 4.6 – 2024-2025 Winter Expenses for County Services

***Costs from invoices entered in MPM**

Table 4.6 shows a more specific, detailed cost figures by region and for the state as a whole.

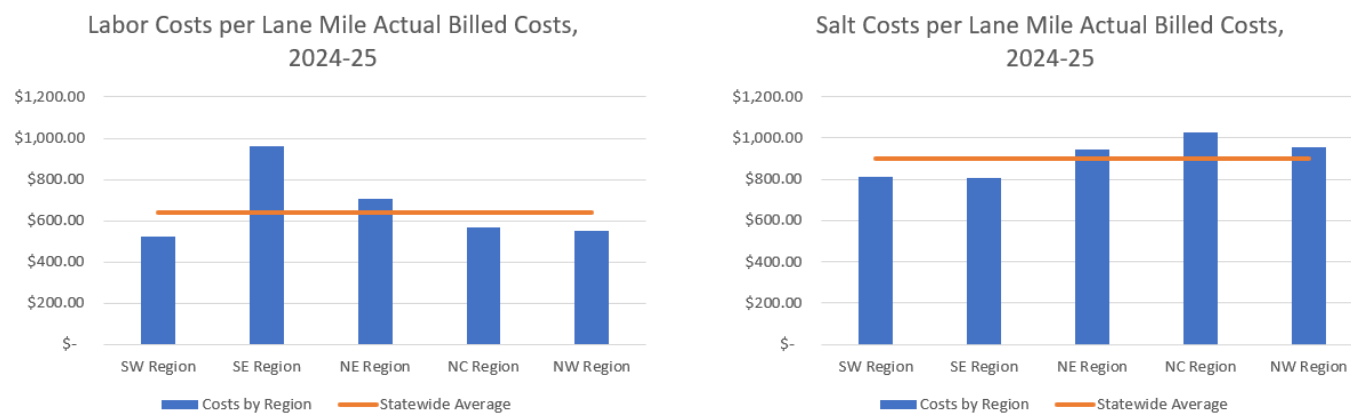
Winter 2024-25 Expenses for County Services

Region	Labor Costs	Equipment Costs	County Furnished Material Costs	Administration Costs	Cost of Salt Used	Total Costs for Winter	Five Year Average Cost for Winter ('19-'23 avg)	% Total Costs over Five Year Average
Southwest	\$5,023,050	\$6,644,701	\$577,221	\$531,297	\$7,816,324	\$20,592,594	\$22,186,100	-7%
Southeast	\$5,478,366	\$5,172,130	\$403,991	\$248,917	\$4,576,699	\$15,880,104	\$16,525,400	-4%
Northeast	\$3,692,436	\$5,182,150	\$896,617	\$424,418	\$4,906,207	\$15,101,829	\$12,694,100	19%
North Central	\$3,640,782	\$6,204,164	\$1,125,717	\$476,444	\$6,575,201	\$18,022,308	\$15,452,700	17%
Northwest	\$4,302,045	\$6,588,309	\$604,572	\$499,106	\$7,455,878	\$19,449,909	\$20,163,800	-4%
Totals	\$22,136,678	\$29,791,455	\$3,608,119	\$2,180,182	\$31,330,309	\$89,046,744	\$87,022,100	2%

Figure 4.6 – Costs per Lane Mile by Category

***Costs from invoices entered in MPM**

Figure 4.6 shows the distribution of costs by category for each region, which include: salt cost, equipment costs, labor costs, and county furnished material cost.



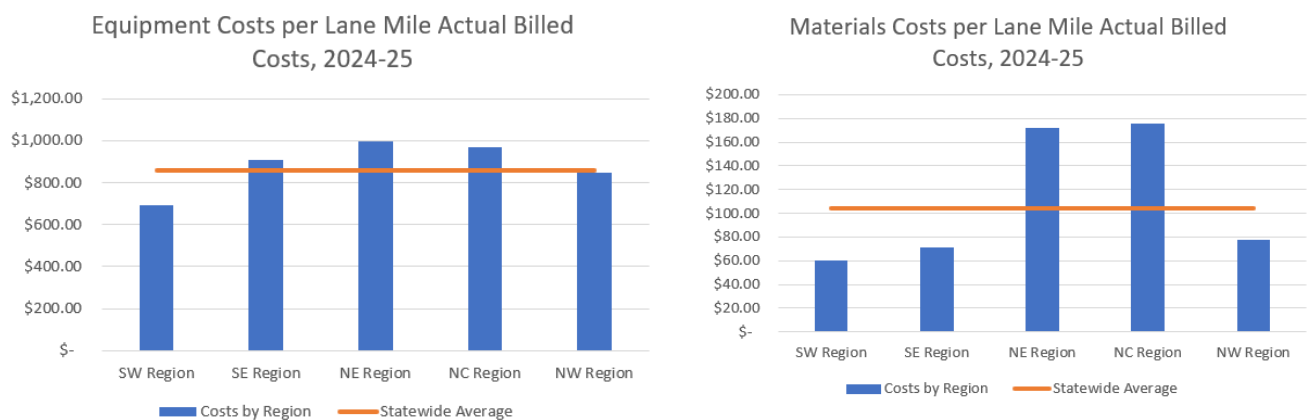


Figure 4.7 – Winter Crashes and Winter Severity Index

***Crash data from WisDOT Bureau of Transportation Safety**

Figure 4.7 shows the trends in total crashes statewide over the last 20 years overlaid with the Winter Severity Index. Crash rates tend to increase in more severe winters.

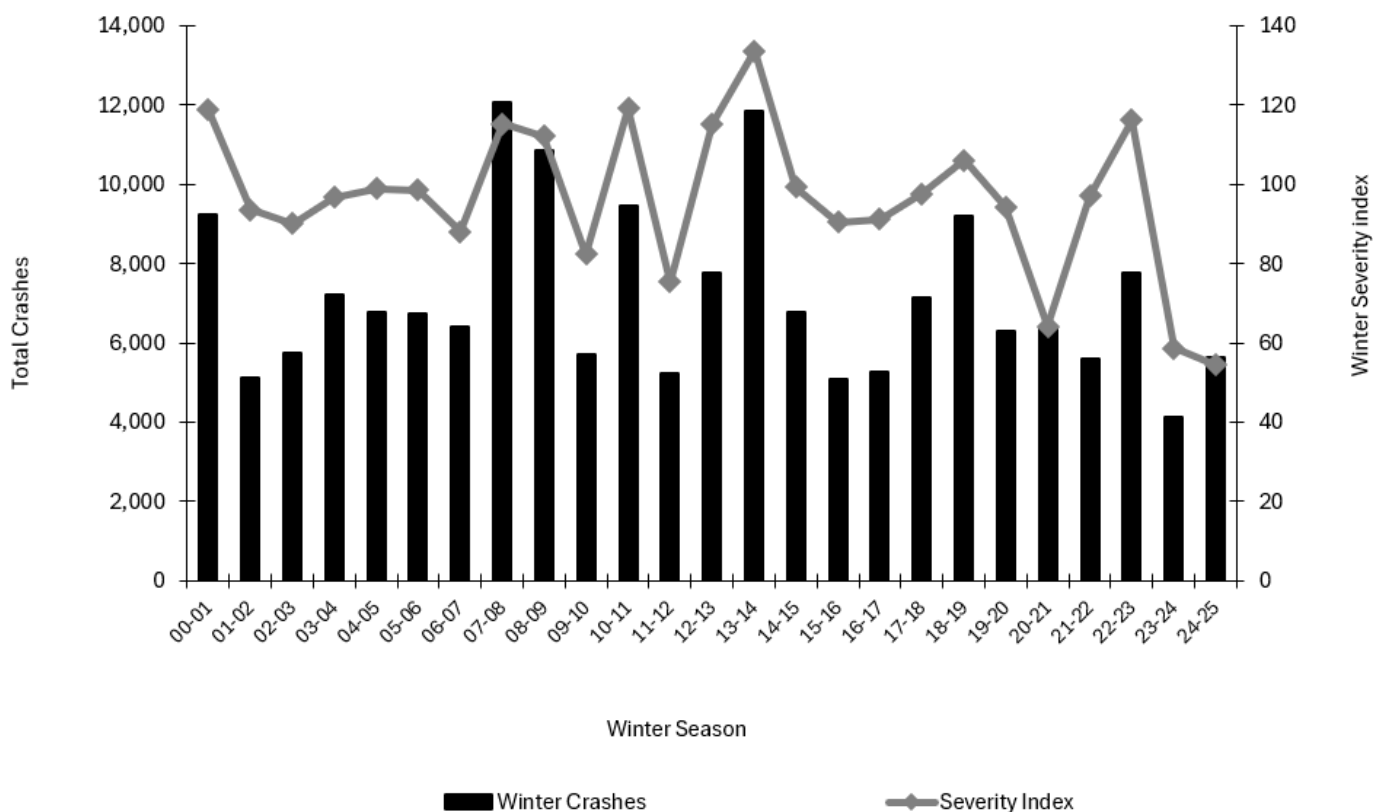


Table 4.7 – Crashes and Vehicle Miles Travel by Region

**Crash data from WisDOT Bureau of Transportation Safety and VMT data from Bureau of Planning and Economics*

Table 4.7 shows the winter severity index, vehicle miles traveled (VMT) during this winter season (November to April), the number of crashes that had snow/ice on the roadway during this winter season (November to April), and the number of crashes that occurred per 100 million VMT this winter season as well as the winter season prior.

Region	Winter Severity Index (2024-25)	VMT (100 million) (Nov 2024 - April 2025)	Snow/Slush/Ice Crashes (Nov 2024 - April 2025)	Crashes per 100M VMT (2022-2023)	Crashes per 100M VMT (2023-2024)
NC	74.4	40.5	881	13	22
NW	58.7	50.0	818	11	16
NE	56.8	60.5	1,176	15	19
SE	35.2	90.8	1,401	12	15
SW	33.3	80.0	1,359	15	17
Statewide	54.4	321.8	5,635	13	18

Figure 4.8 – Winter Crashes by Highway Type, 2024-2025

**Crash data from WisDOT Bureau of Transportation Safety*

Figure 4.8 shows the percentage of crashes that occurred on each type of roadway, which include: Urban state highways, rural state highways, urban interstate highways, and rural interstate highways.

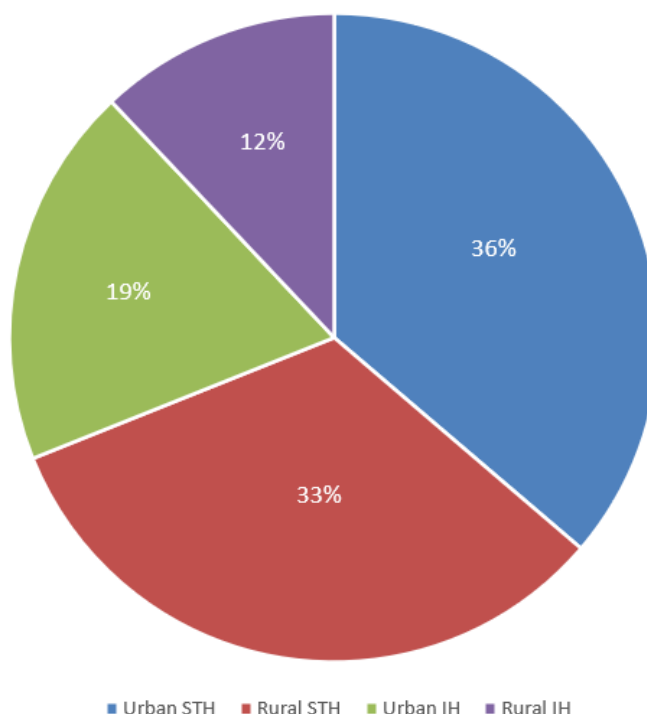


Table 4.8 – Winter Maintenance Sections

Table 4.8 shows the amount of lane miles and the number of patrol sections in each individual county as well as their winter service group.

NC Region				
County	Lane Miles	Winter Patrol Sections 2025	Lane Miles per Patrol Section	Winter Service Group
Adams	202.01	5	40.4	F
Florence	137.43	3	45.8	F
Forest	313.57	6	52.3	E
Green Lake	154.68	3	51.6	E
Iron	240.38	6	40.1	E
Langlade	298.94	6	49.8	E
Lincoln	402.93	10	40.3	C
Marathon	900.30	20	45.0	B
Marquette	251.86	5	50.4	D
Menominee	90.76	2	45.4	F
Oneida	391.33	10	39.1	D
Portage	531.60	15	35.4	B
Price	319.70	6	53.3	E
Shawano	530.50	14	37.9	C
Vilas	307.73	7	44.0	E
Waupaca	536.45	12	44.7	B
Waushara	344.82	6	57.5	D
Wood	437.76	10	43.8	C
Region Average			45.4	

NW Region				
County	Lane Miles	Winter Patrol Sections 2025	Lane Miles per Patrol Section	Winter Service Group
Ashland	256.01	5	51.2	E
Barron	428.61	14	30.6	C
Bayfield	345.45	6	57.6	D
Buffalo	311.06	7	44.4	D
Burnett	231.13	5	46.2	E
Chippewa	656.39	16	41.0	B
Clark	398.57	10	39.9	C
Douglas	465.42	9	51.7	C
Dunn	520.77	9	57.9	C
Eau Claire	531.67	9	59.1	B
Jackson	520.60	9	57.8	C
Pepin	109.51	3	36.5	E
Pierce	368.19	7	52.6	C
Polk	379.33	6	63.2	D
Rusk	212.86	5	42.6	E
Saint Croix	658.68	12	54.9	B
Sawyer	356.97	6	59.5	E
Taylor	232.78	4	58.2	E
Trempeleau	420.77	11	38.3	D
Washburn	385.27	7	55.0	D
Region Average			49.9	

NE Region				
County	Lane Miles	Winter Patrol Sections 2025	Lane Miles per Patrol Section	Winter Service Group
Brown	856.26	20	42.8	B
Calumet	220.63	6	36.8	E
Door	266.89	9	29.7	D
Fond du Lac	612.34	15	40.8	B
Kewaunee	126.37	3	42.1	F
Manitowoc	420.33	11	38.2	C
Marinette	404.93	9	45.0	D
Oconto	479.21	10	47.9	C
Outagamie	591.16	16	36.9	B
Sheboygan	541.07	10	54.1	C
Winnebago	689.08	18	38.3	B
Region Average			41.1	

SW Region				
County	Lane Miles	Winter Patrol Sections 2025	Lane Miles per Patrol Section	Winter Service Group
Columbia	799.21	16	50.0	B
Crawford	398.35	8	49.8	C
Dane	1667.53	33	50.5	A
Dodge	664.16	17	39.1	B
Grant	651.51	11	59.2	B
Green	311.98	7	44.6	D
Iowa	457.71	10	45.8	C
Jefferson	552.35	10	55.2	B
Juneau	500.97	10	50.1	C
LaCrosse	477.01	13	36.7	C
Lafayette	294.51	6	49.1	D
Monroe	673.53	13	51.8	B
Richland	321.53	7	45.9	D
Rock	787.75	14	56.3	B
Sauk	594.55	12	49.5	B
Vernon	468.42	11	42.6	C
Region Average			48.5	

SE Region				
County	Lane Miles	Winter Patrol Sections 2025	Lane Miles per Patrol Section	Winter Service Group
Kenosha	709.66	17	41.7	B
Milwaukee	1573.79	33	47.7	A
Ozaukee	301.07	6	50.2	D
Racine	761.75	13	58.6	B
Walworth	687.68	14	49.1	B
Washington	588.62	14	42.0	B
Waukesha	1061.89	26	40.8	A
Region Average			47.2	

	Lane Miles	Winter Patrol Sections 2025	Lane Miles per Patrol Section
Statewide Totals	34,696.6	754.0	46.0
Statewide Averages	481.9	10.5	46.0
Group A Averages	1,434.4	30.7	46.4
Group B Averages	668.3	14.5	47.2
Group C Averages	459.8	10.3	45.7
Group D Averages	337.9	7.3	47.9
Group E Averages	250.4	5.2	47.8
Group F Averages	139.1	3.3	43.4

Table 4.9 – Storm Start vs Crew Out by Precipitation Type

Table 4.9 shows the average time per category that it takes from the time a storm starts until a crew is on the roadway.

Table 4.9 Storm Start vs Crew Out by Precipitation Type (Group A)

From Winter Storm Reports 2024-2025

Notes: 1) A negative number indicates that the crews were on the road when the storm started. 2) A discrepancy is inherent in these calculations because an individual storm may have several precipitation types but when calculating the average time difference for a particular precipitation type this is not taken into account.

County	Region	Precipitation Type				
		Dry Snow	Wet Snow	Freezing Rain	Sleet	All Precip. Types
(Average Time in Hours)						
Dane	SW	1.10	0.10	0.00	1.50	0.70
Milwaukee	SE	0.00	0.00	0.00	0.00	0.00
Waukesha	SE	2.30	2.30	7.10	4.80	4.10
Group A Avg		1.13	0.80	2.37	2.10	1.60

Table 4.9 Storm Start vs Crew Out by Precipitation Type (Group B)

From Winter Storm Reports 2024-2025

Notes: 1) A negative number indicates that the crews were on the road when the storm started. 2) A discrepancy is inherent in these calculations because an individual storm may have several precipitation types but when calculating the average time difference for a particular precipitation type this is not taken into account.

County	Region	Precipitation Type				
		Dry Snow	Wet Snow	Freezing Rain	Sleet	All Precip. Types
(Average Time in Hours)						
Brown	NE	0.70	1.60	2.40	0.00	1.20
Chippewa	NW	2.50	1.40	1.90	1.60	1.80
Columbia	SW	0.00	0.00	0.00	0.00	0.00
Dodge	SW	0.70	0.60	2.50	0.50	1.10
Eau Claire	NW	1.80	0.00	0.00	0.00	0.00
Fond Du Lac	NE	2.70	3.60	4.40	1.80	3.10
Grant	SW	4.20	4.60	3.10	0.50	3.10
Jefferson	SW	0.00	0.80	1.00	0.80	0.60
Kenosha	SE	0.50	0.90	4.30	0.00	0.00
Marathon	NC	4.70	3.40	3.90	4.80	4.20
Monroe	SW	1.70	1.70	0.50	0.00	0.00
Outagamie	NE	0.30	0.40	0.60	0.00	0.00
Portage	NC	3.60	2.70	4.30	3.80	3.60
Racine	SE	1.20	1.10	1.60	1.40	1.30
Rock	SW	0.80	2.40	1.00	0.00	0.00
Sauk	SW	6.40	3.50	2.90	2.80	3.90
St. Croix	NW	1.00	3.00	4.00	2.90	2.70
Walworth	SE	1.60	0.70	0.80	10.50	3.40
Washington	SE	0.40	0.70	0.50	0.60	0.50
Waupaca	NC	0.90	2.50	0.90	0.80	1.30
Winnebago	NE	0.50	1.90	0.90	1.00	1.10
Group B Avg		1.72	1.79	1.98	1.61	1.57

Table 4.9 Storm Start vs Crew Out by Precipitation Type (Group C)

From Winter Storm Reports 2024-2025

Notes: 1) A negative number indicates that the crews were on the road when the storm started. 2) A discrepancy is inherent in these calculations because an individual storm may have several precipitation types but when calculating the average time difference for a particular precipitation type this is not taken into account.

County	Region	Precipitation Type				
		Dry Snow	Wet Snow	Freezing Rain	Sleet	All Precip. Types
(Average Time in Hours)						
Barron	NW	6.40	6.80	5.60	7.20	6.50
Clark	NW	3.20	2.20	2.80	2.40	2.60
Crawford	SW	5.10	4.90	2.50	2.30	3.70
Douglas	NW	3.00	3.50	2.60	3.10	3.00
Dunn	NW	0.80	0.30	1.00	0.00	0.50
Iowa	SW	1.30	0.20	0.80	1.00	0.80
Jackson	NW	0.30	0.40	0.60	0.40	0.40
Juneau	SW	1.90	4.10	3.40	0.00	2.40
La Crosse	SW	0.30	7.00	0.00	0.00	0.00
Lincoln	NC	7.70	5.00	6.00	4.00	5.70
Manitowoc	NE	0.50	0.30	2.30	1.20	1.10
Oconto	NE	3.10	2.90	2.80	1.90	2.70
Pierce	NW	6.00	2.50	4.10	5.00	4.40
Shawano	NC	4.40	1.80	2.20	3.30	2.90
Sheboygan	NE	0.20	0.20	0.60	0.00	0.00
Vernon	SW	3.80	4.20	8.20	0.90	4.30
Wood	NC	3.00	3.90	2.90	6.10	4.00
Group C Avg		3.00	2.95	2.85	2.28	2.65

Table 4.9 Storm Start vs Crew Out by Precipitation Type (Group D)

From Winter Storm Reports 2024-2025

Notes: 1) A negative number indicates that the crews were on the road when the storm started. 2) A discrepancy is inherent in these calculations because an individual storm may have several precipitation types but when calculating the average time difference for a particular precipitation type this is not taken into account.

County	Region	Precipitation Type				
		Dry Snow	Wet Snow	Freezing Rain	Sleet	All Precip. Types
(Average Time in Hours)						
Bayfield	NW	7.00	6.40	3.50	0.00	4.23
Buffalo	NW	0.00	0.00	0.00	0.00	0.00
Door	NE	4.30	3.90	6.60	3.50	4.60
Green	SW	3.50	3.40	5.30	1.80	3.50
Lafayette	SW	1.20	1.10	0.70	1.40	1.10
Marinette	NE	0.10	0.00	0.00	0.00	0.00
Marquette	NC	0.60	0.60	0.50	0.00	0.40
Oneida	NC	6.50	5.30	5.70	5.30	5.70
Ozaukee	SE	2.20	1.70	1.20	2.20	1.80
Polk	NW	3.00	3.20	1.30	2.00	2.30
Richland	SW	5.10	7.00	0.00	1.00	3.30
Trempealeau	NW	0.50	0.90	1.80	0.00	0.00
Washburn	NW	8.10	5.50	6.70	6.50	6.70
Waushara	NC	3.60	1.20	0.80	0.00	1.40
Group D Avg		3.26	2.87	2.44	1.69	2.50

Table 4.9 Storm Start vs Crew Out by Precipitation Type (Group E)

From Winter Storm Report: 2024-2025

Notes: 1) A negative number indicates that the crews were on the road when the storm started. 2) A discrepancy is inherent in these calculations because an individual storm may have several precipitation types but when calculating the average time difference for a particular precipitation type this is not taken into account.

County	Region	Precipitation Type				
		Dry Snow	Wet Snow	Freezing Rain	Sleet	All Precip. Types
		(Average Time in Hours)				
Ashland	NW	7.10	4.10	5.00	4.30	5.10
Burnett	NW	4.70	6.20	2.90	2.20	4.00
Calumet	NE	4.30	3.30	2.30	0.00	0.00
Forest	NC	5.80	5.80	7.90	0.00	0.00
Green Lake	NC	2.70	1.70	2.90	3.80	2.70
Iron	NC	5.30	5.30	5.50	6.50	5.60
Langlade	NC	5.10	5.80	4.80	4.00	4.90
Pepin	NW	5.90	3.00	4.80	5.00	4.70
Price	NC	2.90	2.90	2.90	2.80	2.90
Rusk	NW	11.40	10.00	6.70	5.90	8.50
Sawyer	NW	7.00	4.50	5.70	6.50	5.90
Taylor	NW	7.90	4.30	5.50	3.80	5.40
Vilas	NC	4.80	6.20	5.70	8.00	6.20
Group E Avg		5.76	4.85	4.82	4.06	4.30

Table 4.9 Storm Start vs Crew Out by Precipitation Type (Group F)

From Winter Storm Report: 2024-2025

Notes: 1) A negative number indicates that the crews were on the road when the storm started. 2) A discrepancy is inherent in these calculations because an individual storm may have several precipitation types but when calculating the average time difference for a particular precipitation type this is not taken into account.

County	Region	Precipitation Type				
		Dry Snow	Wet Snow	Freezing Rain	Sleet	All Precip. Types
		(Average Time in Hours)				
Adams	NC	3.10	2.70	2.70	2.50	2.70
Florence	NC	5.90	4.60	3.40	8.40	5.60
Kewaunee	NE	3.30	5.40	5.20	5.90	4.90
Menominee	NC	1.60	3.60	4.20	11.00	5.10
Group F Avg		3.48	4.08	3.88	6.95	4.58

Table 4.10 – Winter Maintenance Costs Per Lane Mile, Fiscal Year 2025

*Costs from invoices entered in MPM

Table 4.10 shows a detailed breakdown of all costs associated with this past winter season for each individual county.

Table 4.10 Winter Maintenance Costs Per Lane Mile, 2025 Fiscal Year

County #	Total Labor	Labor \$'s per Lane Mile	Total Equipment	Equip \$'s per Lane Mile	Total Materials	Materials \$'s Lane Mile	Total Admin	Cost of Salt Used	Tons of Salt Used	Total FY 2025 Winter Costs	2025 LOS Lane Miles	Winter Costs Per Lane Mile
Southwest Region												
11 Columbia	\$420,928	\$527	\$506,724	\$709	\$12,583	\$16	\$43,422	\$764,058	7,181	\$1,807,716	769.21	\$2,262
12 Crawford	\$134,687	\$338	\$191,093	\$480	\$22,729	\$57	\$15,115	\$198,144	1,992	\$561,748	398.35	\$1,410
13 Dane	\$1,537,365	\$922	\$1,008,412	\$685	\$104,257	\$83	\$141,101	\$1,380,014	14,851	\$4,780,149	1,887.53	\$2,887
14 Dodge	\$254,044	\$383	\$254,216	\$759	\$138,054	\$208	\$38,887	\$444,482	5,160	\$1,379,685	664.16	\$2,077
22 Grant	\$249,908	\$384	\$297,177	\$456	\$7,298	\$11	\$24,016	\$381,416	4,085	\$659,815	651.51	\$1,473
23 Green	\$188,278	\$603	\$197,115	\$632	\$24,003	\$77	\$17,743	\$152,741	1,364	\$579,881	311.98	\$1,859
25 Iowa	\$234,284	\$512	\$257,486	\$563	\$4,366	\$10	\$21,516	\$212,989	2,206	\$730,651	457.71	\$1,596
28 Jefferson	\$183,188	\$332	\$316,202	\$572	\$25,393	\$46	\$22,776	\$391,777	3,132	\$839,346	552.35	\$1,520
29 Juneau	\$236,250	\$472	\$398,688	\$796	\$35,242	\$70	\$29,067	\$680,104	6,197	\$1,359,351	500.97	\$2,713
32 La Crosse	\$206,256	\$432	\$306,250	\$831	\$60,520	\$127	\$28,779	\$338,330	3,722	\$1,030,134	477.01	\$2,160
33 Lafayette	\$134,593	\$457	\$149,273	\$507	\$33,965	\$115	\$13,784	\$214,779	2,222	\$546,414	294.51	\$1,855
41 Monroe	\$222,174	\$330	\$396,616	\$589	\$3,697	\$5	\$26,968	\$1,009,970	9,974	\$1,658,455	673.53	\$2,462
52 Richland	\$112,894	\$351	\$183,405	\$508	\$807	\$3	\$12,020	\$185,446	1,768	\$474,570	321.53	\$1,476
53 Rock	\$368,091	\$467	\$499,620	\$834	\$45,987	\$58	\$39,648	\$648,814	7,018	\$1,602,160	787.75	\$2,034
56 Sauk	\$364,754	\$613	\$369,365	\$621	\$17,229	\$29	\$32,800	\$548,251	4,962	\$1,332,200	594.55	\$2,241
62 Vernon	\$175,357	\$374	\$333,060	\$711	\$41,071	\$88	\$23,824	\$377,008	3,966	\$850,318	468.42	\$2,029
SWR Totals	\$5,023,050	\$522	\$6,644,701	\$691	\$877,221	\$60	\$531,297	\$7,816,324	79,800	\$20,892,594	9,621.07	\$2,140

Table 4.10 Winter Maintenance Costs Per Lane Mile, 2025 Fiscal Year

County #	Total Labor	Labor \$'s per Lane Mile	Total Equipment	Equip \$'s per Lane Mile	Total Materials	Materials \$'s Lane Mile	Total Admin	Cost of Salt Used	Tons of Salt Used	Total FY 2025 Winter Costs	2025 LOS Lane Miles	Winter Costs Per Lane Mile
Southeast Region												
30 Kenosha	\$352,917	\$497	\$494,255	\$696	\$16,479	\$23	\$37,554	\$564,170	6,776	\$1,465,375	709.66	\$2,065
40 Milwaukee	\$3,136,188	\$1,993	\$2,174,391	\$1,392	\$12,557	\$8	\$0	\$1,388,126	17,518	\$6,711,253	1,573.79	\$4,264
45 Ozaukee	\$332,924	\$1,106	\$214,738	\$713	\$62,781	\$209	\$26,480	\$148,749	1,872	\$785,672	301.07	\$2,610
51 Racine	\$425,880	\$559	\$495,110	\$611	\$15,163	\$20	\$39,378	\$420,298	4,810	\$1,365,829	761.75	\$1,793
64 Walworth	\$262,603	\$425	\$475,759	\$692	\$74,083	\$108	\$36,571	\$518,374	6,284	\$1,397,389	687.68	\$2,032
66 Washington	\$387,987	\$659	\$528,460	\$868	\$31,307	\$53	\$41,135	\$580,490	6,410	\$1,569,379	588.62	\$2,666
67 Waukesha	\$549,866	\$518	\$819,426	\$772	\$191,622	\$180	\$67,800	\$956,493	11,829	\$2,585,206	1,061.89	\$2,435
SER Totals	\$5,478,368	\$964	\$5,172,130	\$910	\$403,991	\$71	\$248,917	\$4,576,699	55,509	\$15,880,104	5,684.46	\$2,794

County #		Northeast Region										Total FY 2025		2025 LOS		Winter Costs Per	
		Total Labor	Labor \$'s per Lane Mile	Total Equipment	Equip \$'s per Lane Mile	Total Materials	Materials \$'s Lane Mile	Total Admin	Cost of Salt Used	Tons of Salt Used		Winter Costs	Lane Miles	Lane Mile			
5	Brown	\$635,941	\$743	\$1,123,304	\$1,312	\$105,216	\$123	\$81,004	\$921,675	12,289	\$2,867,140	856.26	\$3,348				
8	Calumet	\$151,544	\$687	\$190,373	\$863	\$47,493	\$215	\$16,915	\$168,552	1,821	\$574,877	220.63	\$2,606				
15	Door	\$217,573	\$815	\$267,534	\$1,002	\$40,241	\$151	\$22,814	\$228,268	2,414	\$776,430	266.89	\$2,909				
20	Fond du Lac	\$339,459	\$554	\$430,373	\$703	\$30,543	\$50	\$34,760	\$562,692	6,195	\$1,397,827	612.34	\$2,283				
31	Kewaunee	\$74,057	\$596	\$97,212	\$769	\$9,445	\$75	\$7,850	\$95,197	897	\$273,761	126.37	\$2,166				
36	Manitowoc	\$323,418	\$769	\$358,268	\$852	\$118,126	\$281	\$34,742	\$472,128	5,433	\$1,306,691	420.33	\$3,109				
38	Marquette	\$295,654	\$730	\$464,294	\$1,147	\$15,967	\$39	\$33,699	\$475,460	5,924	\$1,295,064	404.93	\$3,174				
42	Oconto	\$324,063	\$676	\$466,645	\$974	\$27,619	\$58	\$35,532	\$361,039	4,389	\$1,214,869	479.21	\$2,535				
44	Outagamie	\$547,028	\$925	\$682,144	\$1,120	\$166,698	\$282	\$59,787	\$654,693	7,835	\$2,090,349	591.16	\$3,536				
59	Shesboygan	\$384,951	\$711	\$474,499	\$877	\$222,362	\$411	\$46,986	\$379,639	3,817	\$1,508,437	541.07	\$2,788				
70	Winnebago	\$398,748	\$579	\$647,514	\$940	\$112,908	\$164	\$50,331	\$596,985	6,855	\$1,806,366	689.08	\$2,621				
NER Totals		\$3,692,436	\$709	\$5,182,150	\$995	\$896,617	\$172	\$424,418	\$4,906,207	57,869	\$16,101,829	5,208.27	\$2,900				

Table 4.10 Winter Maintenance Costs Per Lane Mile, 2025 Fiscal Year

County #		North Central Region										Total FY 2025		2025 LOS		Winter Costs Per	
		Total Labor	Labor \$'s per Lane Mile	Total Equipment	Equip \$'s per Lane Mile		Total Materials	Materials \$'s Lane Mile		Total Admin	Cost of Salt Used	Tons of Salt Used	Total FY 2025 Winter Costs	Lane Miles	Lane Mile	Lane Mile	
1	Adams	\$80,778	\$400	\$150,732	\$746	\$19,556	\$97	\$10,896	\$128,935	1,139		\$390,896	202.01		\$1,935		
19	Florence	\$77,714	\$665	\$164,070	\$1,194	\$21,676	\$158	\$11,441	\$261,760	2,562		\$536,660	137.43		\$3,905		
21	Forest	\$110,866	\$563	\$294,311	\$939	\$94,075	\$300	\$21,678	\$286,993	2,848		\$807,712	313.57		\$2,576		
24	Green Lake	\$56,561	\$366	\$77,187	\$499	\$2,256	\$15	\$5,896	\$74,418	694		\$216,318	154.68		\$1,398		
26	Iron	\$240,621	\$1,001	\$359,314	\$1,495	\$14,878	\$62	\$26,702	\$370,749	3,302		\$1,012,263	240.38		\$4,211		
34	Langlade	\$153,338	\$513	\$235,198	\$787	\$21,914	\$73	\$17,820	\$299,269	2,916		\$727,540	298.94		\$2,434		
35	Lincoln	\$209,892	\$521	\$289,582	\$719	\$21,320	\$53	\$22,626	\$493,150	4,602		\$1,036,570	402.93		\$2,573		
37	Marathon	\$498,925	\$554	\$925,967	\$1,029	\$131,914	\$147	\$67,646	\$824,083	7,892		\$2,448,535	900.30		\$2,720		
39	Marquette	\$91,096	\$362	\$151,806	\$603	\$283,312	\$1,125	\$22,824	\$155,829	1,480		\$704,867	251.86		\$2,799		
73	Menominee	\$29,669	\$327	\$69,973	\$771	\$3,120	\$34	\$4,465	\$176,232	1,771		\$293,459	90.76		\$3,123		
43	Oneida	\$233,443	\$597	\$404,304	\$1,033	\$106,424	\$272	\$32,308	\$213,748	2,065		\$980,227	391.33		\$2,530		
49	Portage	\$428,561	\$806	\$649,503	\$1,222	\$41,597	\$78	\$48,651	\$451,021	4,643		\$1,619,333	531.60		\$3,046		
50	Price	\$181,408	\$567	\$278,266	\$870	\$48,775	\$153	\$22,079	\$261,985	2,433		\$792,514	319.70		\$2,479		
58	Shawano	\$380,208	\$717	\$613,512	\$1,156	\$83,851	\$158	\$46,795	\$718,212	8,098		\$1,842,578	530.50		\$3,473		
63	Vilas	\$163,527	\$531	\$385,893	\$1,254	\$134,976	\$439	\$29,722	\$588,267	5,188		\$1,302,384	307.73		\$4,232		
68	Waupaca	\$322,465	\$801	\$570,992	\$1,064	\$39,537	\$74	\$40,518	\$556,679	6,293		\$1,530,191	536.45		\$2,862		
69	Waushara	\$148,922	\$432	\$186,124	\$540	\$9,213	\$27	\$14,940	\$198,541	1,826		\$557,739	344.82		\$1,617		
71	Wood	\$232,998	\$532	\$397,431	\$908	\$47,324	\$108	\$29,439	\$515,331	4,968		\$1,222,523	437.76		\$2,793		
NCR Totals		\$3,640,782	\$570	\$6,204,164	\$971	\$1,125,717	\$176	\$476,444	\$6,575,201	64,720		\$18,022,308	6,392.75		\$2,819		

County #	Northwest Region											Total FY 2025		2025 LOS		Winter Costs Per	
	Total Labor	Labor \$'s per Lane Mile	Total Equipment	Equip \$'s per Lane Mile	Total Materials	Materials \$'s Lane Mile	Total Admin	Cost of Salt Used	Tons of Salt Used	Total FY 2025 Winter Costs	Lane Miles	Lane Mile	Lane Mile				
2	Ashland	\$140,946	\$551	\$348,866	\$1,363	\$70,140	\$274	\$24,311	\$243,575	2,302	\$827,836	256.01	\$3,234				
3	Barron	\$329,579	\$769	\$389,343	\$908	\$13,487	\$31	\$31,826	\$247,201	2,627	\$1,011,436	428.61	\$2,360				
4	Bayfield	\$269,299	\$751	\$419,628	\$1,215	\$24,542	\$71	\$30,546	\$395,459	4,112	\$1,119,474	345.45	\$3,241				
6	Buffalo	\$95,541	\$307	\$145,575	\$468	\$31	\$0	\$10,462	\$171,635	1,697	\$423,244	311.06	\$1,361				
7	Burnett	\$109,500	\$474	\$164,963	\$714	\$22,479	\$97	\$12,898	\$175,173	1,757	\$485,013	231.13	\$2,098				
9	Chippewa	\$440,655	\$671	\$517,917	\$789	\$29,838	\$45	\$42,956	\$572,029	5,513	\$1,603,395	656.39	\$2,443				
10	Clark	\$229,172	\$575	\$284,633	\$714	\$2,333	\$6	\$22,414	\$564,153	4,796	\$1,102,705	398.57	\$2,767				
16	Douglas	\$267,746	\$575	\$485,630	\$1,043	\$89,188	\$192	\$36,563	\$510,562	6,068	\$1,389,688	465.42	\$2,986				
17	Dunn	\$338,616	\$650	\$524,093	\$1,006	\$28,437	\$55	\$38,697	\$528,207	5,271	\$1,458,049	520.77	\$2,800				
18	Eau Claire	\$308,107	\$580	\$515,665	\$970	\$5,337	\$10	\$35,987	\$645,015	5,989	\$1,510,111	531.67	\$2,840				
27	Jackson	\$186,366	\$358	\$355,584	\$683	\$34,751	\$67	\$25,019	\$465,968	4,468	\$1,067,688	520.60	\$2,051				
46	Pepin	\$85,666	\$782	\$91,935	\$748	\$4,936	\$45	\$7,481	\$49,954	480	\$229,972	109.51	\$2,100				
47	Pierce	\$163,512	\$444	\$257,925	\$701	\$1,093	\$3	\$18,344	\$294,821	3,005	\$735,695	368.19	\$1,998				
48	Polk	\$133,918	\$353	\$260,769	\$687	\$28,478	\$75	\$18,366	\$384,739	4,058	\$926,270	379.33	\$2,178				
54	Rusk	\$69,667	\$327	\$119,423	\$561	\$19,711	\$93	\$9,065	\$203,991	1,940	\$421,857	212.86	\$1,982				
57	Sawyer	\$95,178	\$267	\$186,935	\$524	\$11,105	\$31	\$12,728	\$279,818	2,862	\$585,763	356.97	\$1,641				
55	St. Croix	\$446,462	\$678	\$644,218	\$978	\$159,022	\$241	\$54,258	\$707,816	7,506	\$2,011,776	658.68	\$3,054				
60	Taylor	\$169,003	\$722	\$229,972	\$988	\$28,869	\$124	\$18,546	\$164,768	1,366	\$610,157	232.78	\$2,621				
61	Trempealeau	\$220,760	\$525	\$344,665	\$819	\$10,345	\$25	\$24,997	\$492,687	4,835	\$1,093,454	420.77	\$2,599				
65	Washburn	\$213,351	\$554	\$310,570	\$806	\$20,452	\$53	\$23,642	\$368,310	3,888	\$936,325	385.27	\$2,430				
NWR Totals		\$4,302,045	\$552	\$6,588,309	\$846	\$604,572	\$78	\$499,106	\$7,455,878	74,560	\$19,449,909	7,790.04	\$2,497				

Table 4.10 Winter Maintenance Costs Per Lane Mile, 2025 Fiscal Year

	Total Labor		Labor \$'s per		Equipment		Equip \$'s per		Materials		Materials \$'s		Total Admin		Cost of		Tons of		Total FY 2025		2025 LOS		Winter Costs Per	
	Labor	Lane Mile	Lane Mile	Lane Mile	Total	Lane Mile	Lane Mile	Lane Mile	Lane Mile	Lane Mile	Lane Mile	Lane Mile	Admin	Salt Used	Salt Used	Salt Used	Salt Used	Winter Costs	Winter Costs	Lane Miles	Lane Mile			
STATEWIDE SUMMARY																								
	SW Region	\$5,023,050	\$522	\$6,644,701	\$691	\$577,221	\$60	\$531,297	\$7,816,324	79,800	\$20,592,594	9,621.07	\$2,140											
	SE Region	\$5,478,366	\$964	\$5,172,130	\$910	\$403,991	\$71	\$248,917	\$4,576,699	55,509	\$15,680,104	5,664.46	\$2,794											
	NE Region	\$3,692,436	\$709	\$5,182,150	\$995	\$896,617	\$172	\$424,418	\$4,906,207	57,869	\$15,101,829	5,208.27	\$2,900											
	NC Region	\$3,640,782	\$570	\$6,204,164	\$971	\$1,125,717	\$176	\$476,444	\$6,575,201	64,720	\$18,022,308	6,392.75	\$2,819											
	NW Region	\$4,302,045	\$552	\$6,688,309	\$846	\$504,572	\$78	\$499,106	\$7,455,878	74,560	\$19,449,909	7,790.04	\$2,497											
Statewide Totals		\$22,136,678	\$638	\$29,791,455	\$859	\$3,608,119	\$104	\$2,180,182	\$31,330,309	332,458	\$89,046,744	34,696.59	\$2,566											

Figure 4.10 – 2024/25 Winter Costs vs 5-Year Average Costs

**Costs from invoices entered in MPM*

Figure 4.10 shows a comparison of this past year's winter's cost versus the average cost for the past 5 prior winter seasons and the increase or decrease from that average.

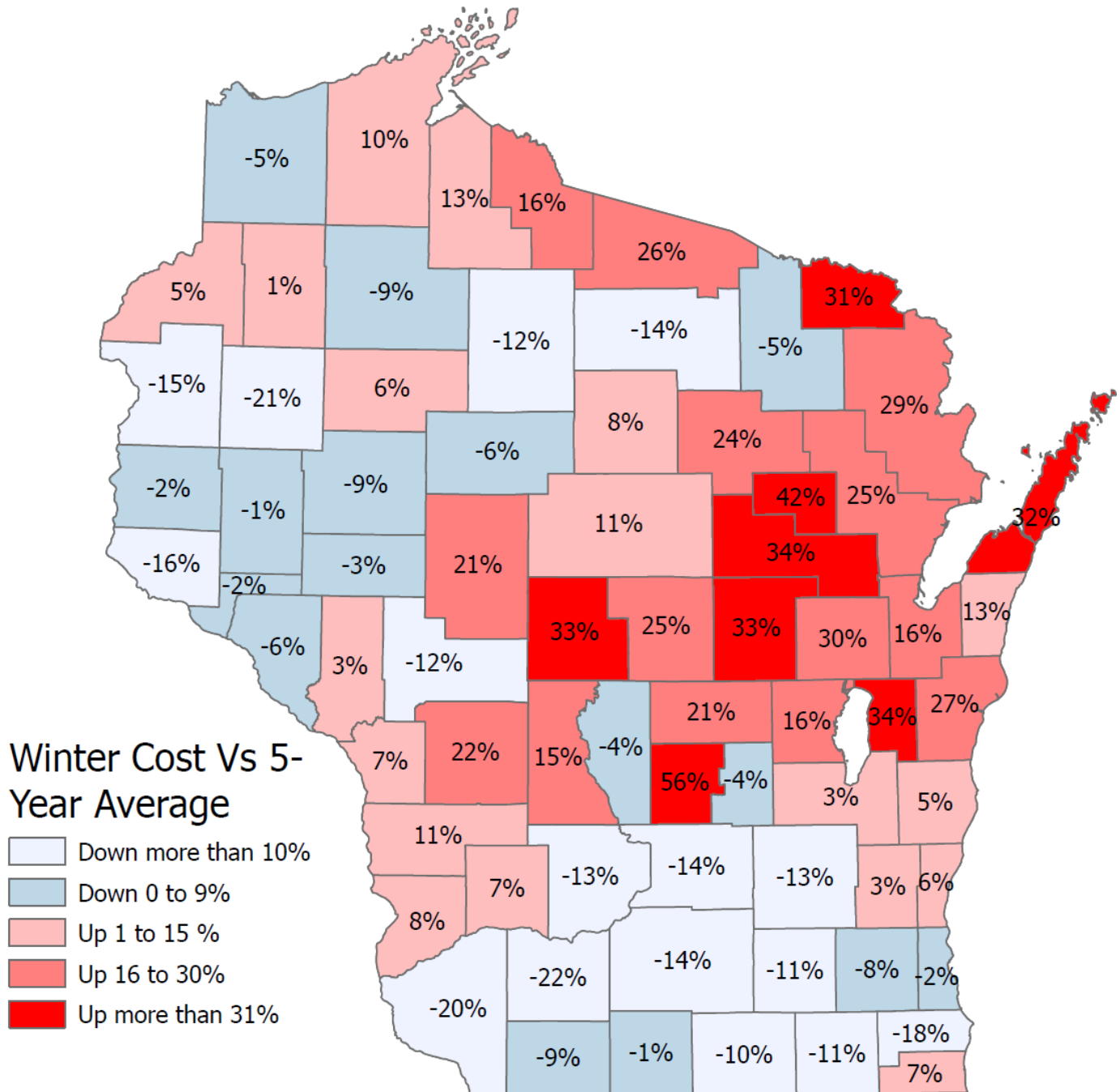


Table 4.11 – Cost per Lane Mile per Winter Severity Index

*Data in table 4.11 comes from information turned in on winter storm reports so it will differ from actual costs that were billed through invoices into MPM.

Table 4.11 Cost Per Lane Mile per Severity Index (Group A)

From Winter Storm Reports: 2024-2025

County	Region	Lane Miles	Severity Index	Snow Depth (in)	Salt (Ton)	Salt per LM	Salt per LM per SI	Total Cost	Total \$/LM	Cost per LM per SI
Dane	SW	1,667.53	31.86	16.2	14,015	8.4	0.26	\$3,604,688	\$2,162	67.85
Milwaukee	SE	1,573.79	32.55	27.0	14,496	9.2	0.28	\$2,694,079	\$1,712	52.59
Waukesha	SE	1,061.89	37.13	28.6	9,846	9.3	0.25	\$1,746,044	\$1,644	44.28
Group A Avg		1,434.40	33.85	23.9	12,786	9.0	0.27	\$2,681,604	\$1,839	54.91

Table 4.11 Cost Per Lane Mile per Severity Index (Group B)

From Winter Storm Reports: 2024-2025

County	Region	Lane Miles	Severity Index	Snow Depth (in)	Salt (Ton)	Salt per LM	Salt per LM per SI	Total Cost	Total \$/LM	Cost per LM per SI
Brown	NE	856.26	58.21	49.5	10,170	11.9	0.20	\$2,021,527	\$2,361	40.56
Chippewa	NW	656.39	46.79	46.2	4,543	6.9	0.15	\$1,050,078	\$1,600	34.19
Columbia	SW	799.21	37.48	42.1	7,307	9.1	0.24	\$1,486,853	\$1,860	49.64
Dodge	SW	664.16	40.51	46.0	4,799	7.2	0.18	\$980,621	\$1,476	36.45
Eau Claire	NW	531.67	43.28	34.4	5,795	10.9	0.25	\$1,116,331	\$2,100	48.51
Fond Du Lac	NE	612.34	44.94	50.5	4,705	7.7	0.17	\$1,008,066	\$1,646	36.63
Grant	SW	651.51	31.08	19.2	3,854	5.9	0.19	\$750,330	\$1,152	37.06
Jefferson	SW	552.35	33.42	23.4	1,398	2.5	0.08	\$503,882	\$912	27.30
Kenosha	SE	709.66	29.72	5.4	5,123	7.2	0.24	\$1,056,656	\$1,489	50.10
Marathon	NC	900.30	65.49	66.0	8,086	9.0	0.14	\$1,969,338	\$2,187	33.40
Monroe	SW	673.53	39.8	31.8	7,288	10.8	0.27	\$1,233,445	\$1,831	46.01
Outagamie	NE	591.16	51.61	55.7	4,996	8.5	0.16	\$1,241,396	\$2,100	40.69
Portage	NC	531.60	56.64	62.0	3,675	6.9	0.12	\$1,100,378	\$2,070	36.55
Racine	SE	761.75	30.26	29.8	5,321	7.0	0.23	\$1,043,196	\$1,369	45.26
Rock	SW	787.75	32.23	24.0	5,069	6.4	0.20	\$1,140,504	\$1,448	44.92
Sauk	SW	594.55	33.74	23.5	5,378	9.0	0.27	\$1,104,220	\$1,857	55.05
St. Croix	NW	658.68	46.6	39.5	4,279	6.5	0.14	\$946,597	\$1,437	30.84
Walworth	SE	687.68	33.06	41.4	4,584	6.7	0.20	\$921,344	\$1,340	40.53
Washington	SE	588.62	44.11	45.4	5,542	9.4	0.21	\$1,028,616	\$1,748	39.62
Waupaca	NC	536.45	52.05	64.5	5,260	9.8	0.19	\$1,063,414	\$1,982	38.08
Winnebago	NE	689.08	47.05	43.8	6,132	8.9	0.19	\$1,506,346	\$2,186	46.46
Group B Avg		668.32	42.77	40.2	5,395	8.0	0.19	\$1,155,864	\$1,722	40.85

Table 4.11 Cost Per Lane Mile per Severity Index (Group C)

From Winter Storm Report: 2024-2025

County	Region	Lane Miles	Severity Index	Snow Depth (in)	Salt (Ton)	Salt per LM	Salt per LM per SI	Total Cost	Total \$/LM	Cost per LM per SI
Barron	NW	428.61	51.47	48.0	2,963	6.9	0.13	\$757,911	\$1,768	34.36
Clark	NW	398.57	55.07	47.0	4,756	11.9	0.22	\$841,454	\$2,111	38.34
Crawford	SW	398.35	33.02	30.2	2,210	5.5	0.17	\$449,689	\$1,129	34.19
Douglas	NW	465.42	83.74	77.0	4,932	10.6	0.13	\$915,349	\$1,967	23.49
Dunn	NW	520.77	44.63	39.9	6,329	12.2	0.27	\$1,176,574	\$2,259	50.62
Iowa	SW	457.71	29.43	18.4	2,554	5.6	0.19	\$592,965	\$1,296	44.02
Jackson	NW	520.60	40.48	44.0	4,750	9.1	0.23	\$895,152	\$1,719	42.48
Juneau	SW	500.97	38.27	26.4	5,805	11.6	0.30	\$956,732	\$1,910	49.90
La Crosse	SW	477.01	34.09	36.6	2,067	4.3	0.13	\$589,104	\$1,235	36.23
Lincoln	NC	402.93	75.56	82.1	2,569	6.4	0.08	\$665,937	\$1,653	21.87
Manitowoc	NE	420.33	57.04	37.3	3,746	8.9	0.16	\$807,532	\$1,921	33.68
Oconto	NE	479.21	64.45	53.8	3,848	8.0	0.12	\$844,949	\$1,763	27.36
Pierce	NW	368.19	44.61	18.8	2,327	6.3	0.14	\$402,254	\$1,093	24.49
Shawano	NC	530.30	62.78	85.1	6,192	11.7	0.19	\$1,361,756	\$2,568	40.90
Sheboygan	NE	541.07	46.8	66.0	1,849	3.4	0.07	\$985,005	\$1,820	38.90
Vernon	SW	468.42	36.51	33.5	2,831	6.0	0.17	\$633,669	\$1,353	37.05
Wood	NC	437.76	50.69	62.7	4,706	10.8	0.21	\$958,300	\$2,189	43.19
Group C Avg		459.78	49.92	47.5	3,790	8.2	0.17	\$813,784	\$1,750	36.53

Table 4.11 Cost Per Lane Mile per Severity Index (Group D)

From Winter Storm Report: 2024-2025

County	Region	Lane Miles	Severity Index	Snow Depth (in)	Salt (Ton)	Salt per LM	Salt per LM per SI	Total Cost	Total \$/LM	Cost per LM per SI
Bayfield	NW	345.45	106.76	113.5	3,938	11.4	0.11	\$831,816	\$2,408	22.55
Buffalo	NW	311.06	37.95	34.8	1,540	5.0	0.13	\$347,821	\$1,118	29.46
Door	NE	266.89	68.48	63.2	2,256	8.5	0.12	\$576,885	\$2,162	31.56
Green	SW	311.98	27.25	19.8	1,193	3.8	0.14	\$360,097	\$1,154	42.36
Lafayette	SW	294.51	28.49	24.3	2,037	6.9	0.24	\$369,704	\$1,255	44.06
Marinette	NE	404.93	73.55	101.7	6,782	16.7	0.23	\$1,116,608	\$2,758	37.49
Marquette	NC	251.86	42.31	34.3	1,409	5.6	0.13	\$444,301	\$1,764	41.69
Oneida	NC	391.33	89.72	66.2	1,860	4.8	0.05	\$735,382	\$1,879	20.95
Ozaukee	SE	301.07	39.85	46.5	2,117	7.0	0.18	\$385,011	\$1,279	32.09
Polk	NW	379.33	53.42	55.6	3,460	9.1	0.17	\$612,182	\$1,614	30.21
Richland	SW	321.53	30.28	18.4	1,622	5.0	0.17	\$378,767	\$1,178	38.90
Trempealeau	NW	420.77	38.76	24.0	4,592	10.9	0.28	\$785,717	\$1,867	48.18
Washburn	NW	385.27	67.54	51.9	3,530	9.2	0.14	\$702,848	\$1,824	27.01
Waushara	NC	344.82	49.23	57.7	1,974	5.7	0.12	\$493,652	\$1,432	29.08
Group D Avg		337.91	53.83	50.9	2,736	7.8	0.16	\$581,485	\$1,692	33.97

Table 4.11 Cost Per Lane Mile per Severity Index (Group E)

From Winter Storm Report: 2024-2025

County	Region	Lane Miles	Severity Index	Snow Depth (in)	Salt (Ton)	Salt per LM	Salt per LM per SI	Total Cost	Total \$/LM	Cost per LM per SI
Ashland	NW	256.01	116.28	73.2	1,747	6.8	0.06	\$473,413	\$1,849	15.90
Burnett	NW	231.13	63.06	52.7	2,062	8.9	0.14	\$383,982	\$1,661	26.35
Calumet	NE	220.63	51.53	49.2	1,033	4.7	0.09	\$343,331	\$1,556	30.20
Forest	NC	313.57	98.15	82.0	4,096	13.1	0.13	\$743,225	\$2,370	24.15
Green Lake	NC	154.68	44.55	39.5	616	4.0	0.09	\$143,731	\$929	20.86
Iron	NC	240.38	178.01	141.0	2,892	12.0	0.07	\$692,543	\$2,881	16.18
Langlade	NC	298.94	78.77	70.8	2,283	7.6	0.10	\$566,694	\$1,896	24.07
Pepin	NW	109.51	39.27	26.6	447	4.1	0.10	\$153,915	\$1,405	35.79
Price	NC	319.70	81.14	75.8	2,050	6.4	0.08	\$586,844	\$1,836	22.62
Rusk	NW	212.86	55.52	46.9	1,143	5.4	0.10	\$249,685	\$1,173	21.13
Sawyer	NW	356.97	73.63	61.3	2,156	6.0	0.08	\$448,618	\$1,257	17.07
Taylor	NW	232.78	64.89	52.9	1,376	5.9	0.09	\$344,458	\$1,480	22.80
Vilas	NC	307.73	108.79	82.8	3,504	11.4	0.10	\$1,012,474	\$3,290	30.24
Group E Avg		250.38	81.05	65.7	1,954	7.4	0.10	\$472,532	\$1,814	23.64

Table 4.11 Cost Per Lane Mile per Severity Index (Group F)

From Winter Storm Report: 2024-2025

County	Region	Lane Miles	Severity Index	Snow Depth (in)	Salt (Ton)	Salt per LM	Salt per LM per SI	Total Cost	Total \$/LM	Cost per LM per SI
Adams	NC	202.01	39.86	42.3	1,115	5.5	0.14	\$302,717	\$1,499	37.59
Florence	NC	137.43	98.8	82.6	2,230	16.2	0.16	\$402,462	\$2,928	29.64
Kewaunee	NE	126.37	60.59	63.9	1,168	9.2	0.15	\$209,514	\$1,658	27.36
Menominee	NC	90.76	67.05	60.1	1,789	19.7	0.29	\$262,357	\$2,891	43.11
Group F Avg		139.14	66.58	62.2	1,575	12.7	0.19	\$294,262	\$2,244	34.43

Table 4.12 – Winter Crashes per 100 Million Vehicle Miles of Travel

**Crash data from WisDOT Bureau of Transportation Safety and VMT data from Bureau of Planning and Economics*

Table 4.12 shows the winter vehicle miles traveled (VMT) and the winter crashes that occurred from November to April this past winter season.

Table 4.12. Winter Crashes per 100 Million Vehicle Miles of Travel

Bureau of transportation Safety data, Nov. 1, 2024 - April 30, 2025 State, U.S. and Interstate Highways only

2024-25 WINTER VEHICLE MILES OF			
WisDOT REGION / COUNTY	TRAVEL (VMT)	2024-25 WINTER CRASHES	CRASH RATE PER 100M VMT
NORTH CENTRAL			
ADAMS	122,500,000	14	11
FLORENCE	45,600,000	10	22
FOREST	82,300,000	18	22
GREEN LAKE	107,900,000	13	12
IRON	65,400,000	18	28
LANGLADE	118,200,000	23	19
LINCOLN	227,900,000	29	13
MARATHON	890,100,000	240	27
MARQUETTE	155,200,000	35	23
MENOMINEE	16,400,000	3	18
ONEIDA	272,500,000	52	19
PORTAGE	484,500,000	134	28
PRICE	108,100,000	13	12
SHAWANO	342,300,000	53	15
VILAS	175,600,000	32	18
WAUPACA	312,300,000	67	21
WAUSHARA	191,300,000	55	29
WOOD	330,200,000	72	22
Region Total	4,048,300,000	881	22
NORTHEAST			
BROWN	1,250,300,000	217	17
CALUMET	227,100,000	44	19
DOOR	281,300,000	33	12
FOND DU LAC	617,500,000	128	21
KEWAUNEE	121,600,000	12	10
MANITOWOC	421,800,000	93	22
MARINETTE	473,000,000	46	10
OCONTO	351,500,000	52	15
OUTAGAMIE	837,800,000	152	18
SHEBOYGAN	536,400,000	132	25
WINNEBAGO	931,600,000	267	29
Region Total	6,049,900,000	1,176	19

NORTHWEST

ASHLAND	106,100,000	18	17
BARRON	331,000,000	38	11
BAYFIELD	180,900,000	20	11
BUFFALO	114,000,000	9	8
BURNETT	119,500,000	16	13
CHIPPEWA	485,500,000	89	18
CLARK	258,200,000	56	22
DOUGLAS	290,900,000	44	15
DUNN	359,200,000	71	20
EAU CLAIRE	543,600,000	125	23
JACKSON	326,500,000	32	10
PEPIN	44,700,000	5	11
PIERCE	177,200,000	39	22
POLK	247,600,000	26	11
RUSK	116,900,000	12	10
ST.CROIX	640,300,000	140	22
SAWYER	146,100,000	20	14
TAYLOR	111,200,000	15	13
TREMPEALEAU	234,300,000	21	9
WASHBURN	168,600,000	22	13
Region Total	5,002,300,000	818	16

SOUTHEAST

KENOSHA	812,200,000	195	24
MILWAUKEE	3,343,400,000	515	15
OZAUKEE	525,000,000	71	14
RACINE	844,000,000	173	20
WALWORTH	638,800,000	70	11
WASHINGTON	808,800,000	150	19
WAUKESHA	2,106,100,000	227	11
Region Total	9,078,300,000	1,401	15

SOUTHWEST

COLUMBIA	511,400,000	90	18
CRAWFORD	135,000,000	20	15
DANE	2,565,000,000	332	13
DODGE	502,100,000	56	11
GRANT	307,200,000	42	14
GREEN	181,700,000	17	9
IOWA	208,900,000	44	21
JEFFERSON	524,000,000	95	18
JUNEAU	367,200,000	41	11
LA CROSSE	539,400,000	195	36
LAFAYETTE	145,700,000	14	10
MONROE	416,100,000	113	27
RICHLAND	128,800,000	22	17
ROCK	833,600,000	147	18
SAUK	444,700,000	95	21
VERNON	189,800,000	36	19
Region Total	8,000,600,000	1,359	17

STATEWIDE TOTAL	32,179,400,000	5,635	18
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Table 4.13 – Motor Vehicle Crashes on Roads with Snow/Ice/Slush

Table 4.13 shows the total amount of crashes on each roadway type in each individual county. The roadway types include: Urban state highways, rural state highways, urban interstate highways, and rural interstate highways.

Table 4.13 Motor Vehicle Crashes on Roads with Snow/Ice/Slush

Bureau of transportation Safety data, Nov. 1, 2024 - April 30, 2025 State, U.S. and Interstate Highways only

NC Region

COUNTY	TOTAL					Urban State Highway			Rural State Highway		
		Urban STH	Rural STH	Urban IH	Rural IH	Non-div	Divided	Unkn	Non-div	Divided	Unkn
ADAMS	14	0	14	0	0	0	0	0	13	0	1
FLORENCE	10	0	10	0	0	0	0	0	10	0	0
FOREST	18	0	18	0	0	0	0	0	13	4	1
GREEN LAKE	13	0	13	0	0	0	0	0	12	0	1
IRON	18	6	12	0	0	5	0	1	11	0	1
LANGLADE	23	4	19	0	0	3	1	0	18	1	0
LINCOLN	29	7	22	0	0	4	3	0	12	10	0
MARATHON	240	132	74	23	11	47	85	0	26	48	0
MARQUETTE	35	0	11	0	24	0	0	0	11	0	0
MENOMINEE	3	0	3	0	0	0	0	0	3	0	0
ONEIDA	52	7	45	0	0	5	2	0	39	1	5
PORTAGE	134	36	56	25	17	15	20	1	17	38	1
PRICE	13	0	13	0	0	0	0	0	13	0	0
SHAWANO	53	6	47	0	0	2	4	0	18	29	0
VILAS	32	0	32	0	0	0	0	0	31	0	1
WAUPACA	67	8	59	0	0	4	4	0	42	17	0
WAUSHARA	55	0	28	0	27	0	0	0	26	1	1
WOOD	72	46	26	0	0	23	21	2	18	7	1
TOTAL	881	252	502	48	79	108	140	4	333	156	13

NE Region

						Urban State Highway			Rural State Highway		
COUNTY	TOTAL	Urban STH	Rural STH	Urban IH	Rural IH	Non-div	Divided	Unkn	Non-div	Divided	Unkn
BROWN	217	88	29	81	19	31	57	0	21	8	0
CALUMET	44	15	29	0	0	6	9	0	27	1	1
DOOR	33	5	28	0	0	0	5	0	25	3	0
FOND DU LAC	128	42	36	28	22	26	16	0	27	9	0
KEWAUNEE	12	0	12	0	0	0	0	0	12	0	0
MANITOWOC	93	35	26	6	26	19	16	0	26	0	0
MARINETTE	46	15	31	0	0	12	2	1	22	7	2
OCONTO	52	1	51	0	0	0	1	0	16	34	1
OUTAGAMIE	152	82	32	33	5	42	37	3	24	7	1
SHEBOYGAN	132	50	35	15	32	33	15	2	15	20	0
WINNEBAGO	267	120	43	95	9	56	58	6	24	19	0
TOTAL	1,176	453	352	258	113	225	216	12	239	108	5

NW Region

North Region

COUNTY	TOTAL	Urban State Highway				Rural State Highway					
		Urban STH	Rural STH	Urban IH	Rural IH	Non-div	Divided	Unkn	Non-div	Divided	Unkn
ASHLAND	18	7	11	0	0	5	2	0	9	1	1
BARRON	38	4	34	0	0	2	2	0	20	13	1
BAYFIELD	20	0	20	0	0	0	0	0	16	3	1
BUFFALO	9	0	9	0	0	0	0	0	9	0	0
BURNETT	16	0	16	0	0	0	0	0	14	2	0
CHIPPEWA	89	47	42	0	0	9	38	0	13	28	1
CLARK	56	0	56	0	0	0	0	0	21	34	1
DOUGLAS	44	27	13	4	0	12	10	5	7	6	0
DUNN	71	17	21	8	25	9	8	0	19	2	0
EAU CLAIRE	125	47	14	43	21	9	37	1	14	0	0
JACKSON	32	2	8	3	19	1	1	0	8	0	0
PEPIN	5	0	5	0	0	0	0	0	5	0	0
PIERCE	39	2	37	0	0	2	0	0	37	0	0
POLK	26	0	26	0	0	0	0	0	22	4	0
RUSK	12	0	12	0	0	0	0	0	12	0	0
ST. CROIX	140	19	53	25	43	6	13	0	34	19	0
SAWYER	20	0	20	0	0	0	0	0	15	5	0
TAYLOR	15	0	15	0	0	0	0	0	13	2	0
TREMPEALEAU	21	0	18	0	3	0	0	0	18	0	0
WASHBURN	22	0	22	0	0	0	0	0	12	8	2
TOTAL	818	172	452	83	111	55	111	6	318	127	7

SE Region

COUNTY	TOTAL
KENOSHA	195
MILWAUKEE	515
OZAUKEE	71
RACINE	173
WALWORTH	70
WASHINGTON	150
WAUKESHA	227
TOTAL	1,401

Urban STH	Rural STH	Urban IH	Rural IH
72	15	53	55
260	0	255	0
29	7	27	8
109	9	18	37
19	36	9	6
72	25	30	23
133	1	93	0
694	93	485	129

Urban State Highway			Rural State Highway		
Non-div	Divided	Unkn	Non-div	Divided	Unkn
26	43	3	8	7	0
83	161	16	0	0	0
17	11	1	4	3	0
41	64	4	7	2	0
12	6	1	20	15	1
34	37	1	16	8	1
31	100	2	1	0	0
244	422	28	56	35	2

SW Region

COUNTY	TOTAL
COLUMBIA	90
CRAWFORD	20
DANE	332
DODGE	56
GRANT	42
GREEN	17
IOWA	44
JEFFERSON	95
JUNEAU	41
LA CROSSE	195
LAFAYETTE	14
MONROE	113
RICHLAND	22
ROCK	147
SAUK	95
VERNON	36
TOTAL	1,359

Urban STH	Rural STH	Urban IH	Rural IH
23	22	12	33
2	18	0	0
166	51	60	55
10	39	0	7
2	40	0	0
5	12	0	0
0	44	0	0
28	22	3	42
0	15	1	25
132	14	43	6
0	14	0	0
27	36	20	30
2	20	0	0
44	25	42	36
31	34	18	12
0	36	0	0
472	442	199	246

Urban State Highway			Rural State Highway		
Non-div	Divided	Unkn	Non-div	Divided	Unkn
16	7	0	20	1	1
2	0	0	17	1	0
47	109	10	34	15	2
4	6	0	23	15	1
2	0	0	24	16	0
1	4	0	11	1	0
0	0	0	24	20	0
10	15	3	15	7	0
0	0	0	14	1	0
45	79	8	14	0	0
0	0	0	8	6	0
10	17	0	34	1	1
2	0	0	19	1	0
24	20	0	23	2	0
15	15	1	19	15	0
0	0	0	36	0	0
178	272	22	335	102	5

STH = State highways or non-interstate US highways

IH = Interstate highways Non-div = Non-divided

Rural = An unincorporated area or an incorporated area with a population under 5,000

Urban = An incorporated area with a population of 5,000 or more.

*2025 figures are preliminary at this time.

**Does not include deer or other animal crashes

Appendix

Figure A.1 – WisDOT Regional Organization

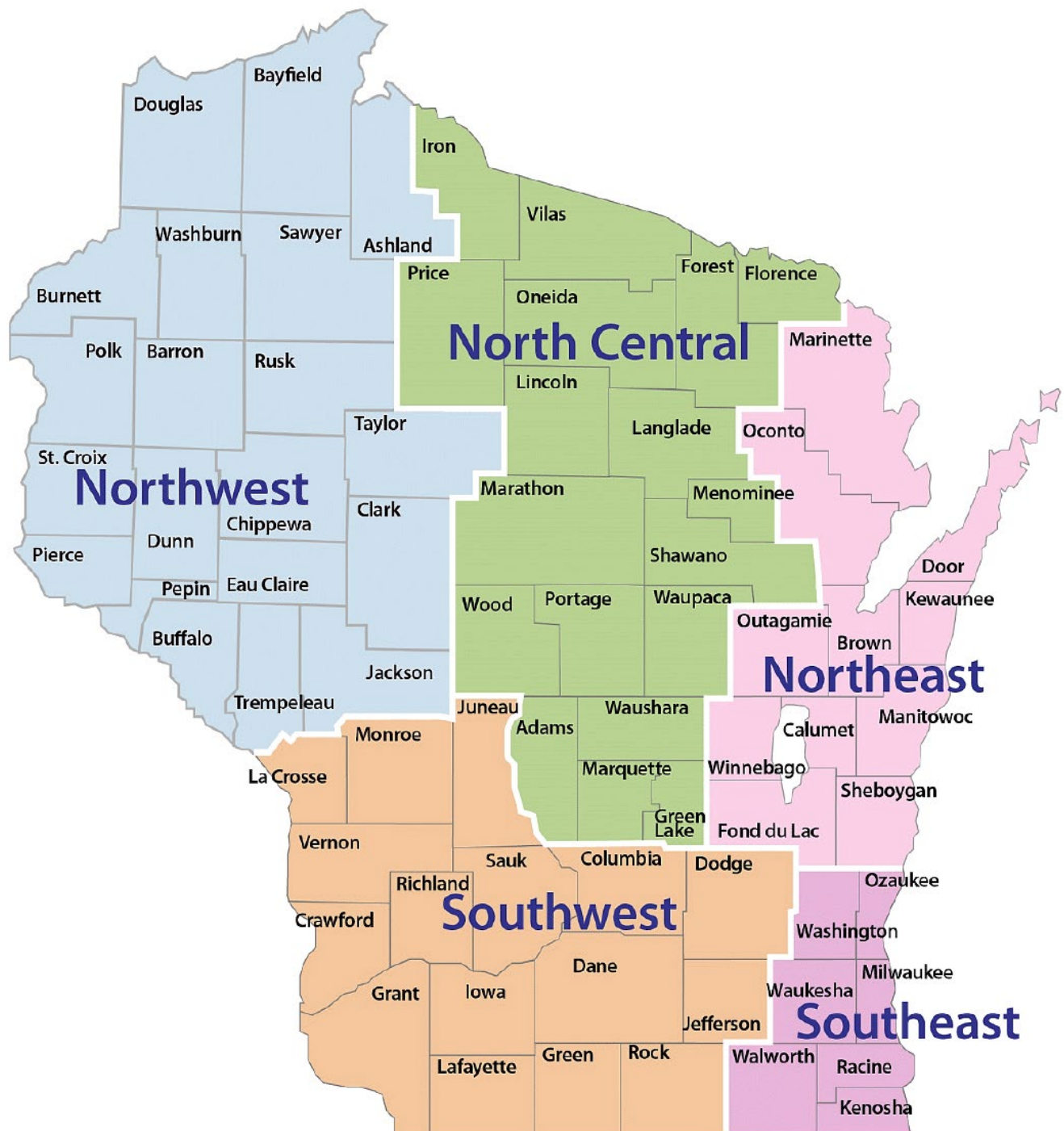


Table A.1 – Storm Report Summary, End of Season

Table A.1 shows the all the data from all the winter storm reports turned in by the counties.

Storm Report Summary - Thru Week 30 (5/23/2025 - 5/29/2025) From Winter Storm Reports, 2024-2025

General Notes: 1) Costs shown in table are estimated and do not include the Administrative Costs; 2) Material Costs includes Brine, Salt, Sand, and other Delcing and Anti-Icing Agents; 3) Equipment Costs are based on an estimated \$115 per hour per unit; 4) Labor Costs are based on each County's average labor rate; 5) Total Salt Available = salt in sheds plus "early fill" plus "seasonal fill" available; 6) Some Material Costs are estimated.

Region	County	Lane Miles	Severity Index	Snow Amount (inches)	Events			Freeze, Bains (# of times)	Total Salt Avail. (tons)	Total Salt Used (tons)	Total Salt Remain. (tons)	Salt Used per LM (tons)	Total NaCl Brine Used	Total Sand Used (CY)	Total Reg. Hours	Total OT Hours	Estimated Cost Per Lane Mile				Estimated Total Cost to Date	Salt per LM per Severity Index
					Anti-Icing	Storms	Incidents										Mart	Equip	Labor	Total		
NC	Adams	202.01	39.86	42.3	8	21	11	9	4,250	1,115	3,135	5.5	251,640	0	668.0	250.0	5874	\$383	\$242	\$1,499	\$302,813	0.14
	Florence	137.43	98.80	82.6	4	35	22	7	3,814	2,230	1,584	16.2	56,769	29	914.0	375.0	\$1,744	\$714	\$470	\$2,928	\$402,395	0.16
	Forest	313.57	98.15	82.0	2	37	22	8	7,632	4,096	3,536	13.1	189,645	5	1,240.0	851.0	\$1,438	\$584	\$349	\$2,371	\$743,474	0.13
	Green Lake	154.68	44.55	39.5	0	21	6	7	1,800	616	1,184	4.0	6,450	0	338.0	221.0	\$485	\$299	\$195	\$929	\$143,698	0.09
NC	Iron	240.38	178.01	141.0	0	33	36	12	6,805	2,892	3,913	12.0	32,156	110	1,443.0	1,096.0	\$1,384	\$880	\$666	\$2,880	\$692,294	0.07
	Langdale	298.94	78.77	70.8	1	37	26	12	5,281	2,283	2,998	7.6	319,965	78	1,132.0	790.0	\$1,002	\$539	\$355	\$1,896	\$566,790	0.10
	Lincoln	402.93	75.56	82.1	6	33	14	13	6,800	2,569	4,231	6.4	152,689	698	1,824.0	824.0	\$785	\$516	\$351	\$1,652	\$665,640	0.08
	Marathon	900.30	65.49	66.0	4	33	24	7	13,900	8,086	5,814	9.0	392,625	376	3,270.0	3,949.0	\$1,031	\$693	\$464	\$2,188	\$1,969,856	0.14
	Marquette	251.86	42.31	34.3	2	34	6	3	4,757	1,409	3,348	5.6	608,871	0	629.0	552.0	\$1,072	\$419	\$272	\$1,763	\$444,029	0.13
	Oncida	391.33	89.72	66.2	4	33	19	13	10,401	1,860	8,541	4.8	419,632	585	2,605.0	817.0	\$729	\$642	\$508	\$1,879	\$735,309	0.05
	Portage	531.60	56.64	62.0	4	25	16	9	9,005	3,675	5,330	6.9	131,283	222	2,755.0	1,995.0	\$727	\$803	\$539	\$2,069	\$1,099,880	0.12
	Price	319.70	81.14	75.8	11	40	12	18	6,100	2,050	4,050	6.4	144,596	0	979.0	1,307.0	\$781	\$640	\$414	\$1,835	\$586,550	0.08
	Shawano	530.30	62.78	85.1	5	34	18	10	9,065	6,192	2,873	11.7	641,789	0	2,979.0	1,468.0	\$1,278	\$756	\$535	\$2,569	\$1,362,341	0.19
	Vilas	307.78	108.79	82.8	0	48	18	10	8,713	3,504	5,209	11.4	1,328,100	263	1,894.0	802.0	\$2,167	\$747	\$376	\$3,290	\$1,012,432	0.10
	Waupaca	536.45	52.05	64.5	3	25	15	8	11,093	5,260	5,833	9.8	513,488	0	1,887.0	1,561.0	\$1,059	\$550	\$374	\$1,983	\$1,063,780	0.19
	Waushara	344.82	49.23	57.7	1	29	1	10	4,138	1,974	2,164	5.7	50,355	0	1,504.0	346.0	\$682	\$480	\$300	\$1,432	\$493,782	0.12
	Wood	437.76	50.69	62.7	10	35	10	17	7,150	4,706	2,444	10.8	265,370	111	1,527.0	1,397.0	\$1,240	\$566	\$383	\$2,189	\$958,257	0.21
	Menominee	90.76	67.05	60.1	1	28	18	11	2,374	1,789	585	19.7	10,930	10	483.0	129.0	\$1,987	\$605	\$299	\$2,891	\$262,387	0.29
Region Total		--	--	--	--	--	--	--	123,078	56,306	66,772	166.5	5,516,353	2,487	28,071.0	18,730.0	--	--	--	--	\$13,505,807	--
Region Average		--	74.42	69.9	3.7	32.3	16.3	10.2	6,838	3,128	3,710	9.3	306,464	138	1,559.5	1,040.6	\$1,133	\$598	\$394	\$2,125	\$750,323	0.13

Storm Report Summary - Thru Week 30 (5/23/2025 - 5/29/2025)

From Winter Storm Reports, 2024-2025

General Notes: 1) Costs shown in table are estimated and do not include the Administrative Costs; 2) Material Costs includes Brine, Salt, Sand, and other Deicing and Anti-Icing Agents; 3) Equipment Costs are based on an estimated \$115 per hour per unit; 4) Labor Costs are based on each County's average labor rate; 5) Total Salt Available = salt in sheds plus "early fill" plus "seasonal fill" plus "vendor reserve" available; 6) Some Material Costs are estimated.

Region	County	Lane Miles	Severity Index	Snow Amount (Inches)	Events			Freez. Rains (# of times)	Total Salt Avail. (tons)	Total Salt Used (tons)	Total Salt Remain. (tons)	Salt Used per LM (tons)	Total NaCl Brine Used	Total Sand Used (CY)	Total Reg Hours	Total OT Hours	Estimated Cost Per Lane Mile				Estimated Total Cost to Date	Salt per LM per Severity Index
					Anti-Icing	Storms	Incidents										Mat'l	Equip	Labor	Total		
NE	Brown	856.26	58.21	49.5	21	27	1	5	20,109	10,170	9,939	11.9	515,843	2	1,975.0	5,202.0	\$1,011	\$754	\$595	\$2,360	\$2,020,774	0.20
	Calumet	220.63	51.53	49.2	9	25	8	3	2,583	1,033	1,550	4.7	92,907	0	1,184.0	209.0	\$518	\$688	\$351	\$1,557	\$349,521	0.09
	Door	266.89	68.48	63.2	11	23	26	4	5,010	2,256	2,754	8.5	150,376	201	767.0	1,268.0	\$923	\$677	\$561	\$2,161	\$576,749	0.12
	Fond Du Lac	612.34	44.94	50.5	9	23	10	5	10,392	4,705	5,687	7.7	406,890	0	1,423.0	1,981.0	\$831	\$435	\$381	\$1,647	\$1,008,524	0.17
	Kewaunee	126.37	60.59	63.9	2	31	13	8	1,881	1,168	713	9.2	72,595	141	404.0	165.0	\$1,010	\$400	\$248	\$1,658	\$209,521	0.15
	Manitowoc	420.33	57.04	37.3	14	17	8	3	8,512	3,746	4,766	8.9	166,230	0	1,798.0	1,374.0	\$854	\$659	\$408	\$1,921	\$807,454	0.16
	Marquette	404.93	73.55	101.7	28	47	25	2	9,233	6,782	2,451	16.7	300,283	0	1,756.0	1,725.0	\$1,493	\$743	\$522	\$2,758	\$1,116,797	0.23
	Oconto	479.21	64.45	53.8	7	34	15	10	6,883	3,848	3,035	8.0	260,788	0	1,777.0	1,520.0	\$769	\$587	\$406	\$1,762	\$844,368	0.12
	Outagamie	591.16	51.61	55.7	2	26	5	5	9,798	4,996	4,802	8.5	948,003	0	3,004.0	1,810.0	\$1,027	\$580	\$493	\$2,100	\$1,241,436	0.16
	Shelbygan	541.07	46.80	66.0	19	25	17	5	10,490	1,849	8,641	3.4	1,281,390	0	1,562.0	1,905.0	\$814	\$560	\$447	\$1,821	\$985,288	0.07
Region Total	Winnebago	689.08	47.05	43.8	9	24	9	7	11,880	6,132	5,748	8.9	1,002,495	4	2,278.0	2,304.0	\$1,066	\$643	\$478	\$2,187	\$1,507,018	0.19
		--	--	--	--	--	--	--	96,771	46,685	50,086	96.4	5,197,740	348	17,928.0	19,457.0	--	--	--	--	\$10,661,450	--
Region Average		--	56.75	57.7	11.9	27.5	12.5	5.2	8,797	4,244	4,553	8.8	472,522	32	1,629.8	1,768.8	\$938	\$611	\$445	\$1,994	\$969,223	0.15

Storm Report Summary - Thru Week 30 (5/23/2025 - 5/29/2025)

From Winter Storm Reports, 2024-2025

General Notes: 1) Costs shown in table are estimated and do not include the Administrative Costs; 2) Material Costs includes Brine, Salt, Sand, and other Deliding and Antilcing Agents; 3) Equipment Costs are based on an estimated \$115 per hour per unit; 4) Labor Costs are based on each County's average labor rate; 5) Total Salt Available = salt in sheds plus "early fill" plus "seasonal fill" plus "vendor reserve" available; 6) Some Material Costs are estimated.

Region	County	Lane Miles	Severity Index	Snow Amount (Inches)	Events			Freez. Rate (# of times)	Total Salt Avail. (tons)	Total Salt Used (tons)	Total Salt Remain. (tons)	Salt Used per LM (tons)	Total NaCl Brine Used	Total Sand Used (CY)	Total Reg Hours	Estimated Cost Per Lane Mile			Estimated Total Cost to Date	Salt per LM per Severity Index
					Anti-Icing	Storms	Incidents									Matl	Equip	Labor		
NW	Ashland	256.01	116.28	79.2	9	46	26	20	4,604	1,747	2,857	6.8	117,143	15	1,223.0	\$814	\$628	\$407	\$1,849	\$479,362 0.06
	Barron	428.61	51.47	48.0	2	21	21	6	6,754	2,963	3,791	6.9	28,552	427	2,035.0	\$679	\$638	\$451	\$1,768	\$757,782 0.13
	Bayfield	345.45	106.76	113.5	3	39	28	3	7,501	3,938	3,563	11.4	65,632	13	2,061.0	\$1,107	\$793	\$507	\$2,407	\$831,498 0.11
	Buffalo	311.06	37.95	34.8	7	33	8	12	3,490	1,540	1,950	5.0	86,331	7	982.0	\$557	\$346	\$216	\$1,119	\$348,076 0.13
	Burnett	231.13	63.06	52.7	3	32	19	8	3,650	2,062	1,588	8.9	17,612	0	586.0	\$905	\$464	\$293	\$1,662	\$384,138 0.14
	Chippewa	656.39	46.79	46.2	4	28	7	2	13,956	4,543	9,413	6.9	69,435	38	1,566.0	\$740	\$491	\$369	\$1,600	\$1,050,224 0.15
	Clark	398.57	55.07	47.0	2	22	10	10	7,199	4,756	2,444	11.9	26,483	0	727.0	\$1,417	\$413	\$282	\$2,112	\$841,780 0.22
	Douglas	465.42	83.74	77.0	19	34	35	9	10,716	4,932	5,784	10.6	65,201	21	3,060.0	\$920	\$666	\$380	\$1,946	\$915,016 0.13
	Dunn	520.77	44.63	39.9	3	30	15	10	13,794	6,329	7,465	12.2	91,151	0	1,420.0	\$1,253	\$565	\$441	\$2,259	\$1,176,419 0.27
	Eau Claire	531.67	43.28	34.4	6	24	0	6	12,178	5,795	6,383	10.9	225,064	0	2,015.0	\$1,258	\$471	\$370	\$2,099	\$1,115,975 0.25
	Jackson	520.60	40.48	44.0	17	21	21	8	11,240	4,750	6,490	9.1	164,300	0	1,376.0	\$1,015	\$432	\$273	\$1,720	\$895,432 0.23
	Kenosha	109.51	39.27	26.6	7	16	8	7	1,177	447	731	4.1	9,031	0	415.0	\$441	\$557	\$407	\$1,405	\$153,862 0.10
	Pierce	368.19	44.61	18.8	0	17	5	4	6,518	2,327	4,192	6.3	29,438	0	655.0	\$636	\$259	\$198	\$1,093	\$402,432 0.14
	Polk	379.33	53.42	55.6	2	26	18	4	8,993	3,460	5,533	9.1	20,059	2	1,119.0	\$875	\$444	\$294	\$1,613	\$611,859 0.17
	Rusk	212.86	55.52	46.9	2	25	11	22	3,266	1,143	2,123	5.4	3,633	17	540.0	\$569	\$376	\$227	\$1,172	\$249,472 0.10
	St. Croix	658.68	46.60	39.5	0	24	5	5	15,987	4,279	11,708	6.5	193,756	12	1,232.0	\$672	\$442	\$323	\$1,437	\$946,523 0.14
	Sawyer	356.97	73.63	61.3	2	26	35	8	5,534	2,156	3,378	6.0	819	11	1,234.0	\$591	\$384	\$281	\$1,256	\$448,354 0.08
	Taylor	232.78	64.89	52.9	0	30	17	10	4,392	1,376	3,016	5.9	149,588	6	549.0	\$832	\$384	\$264	\$1,480	\$344,514 0.09
	Trempealeau	420.77	38.76	24.0	1	14	24	1	9,202	4,592	4,610	10.9	16,974	0	1,287.0	\$1,120	\$432	\$315	\$1,867	\$785,578 0.28
	Washburn	385.27	67.54	51.9	8	25	13	8	7,995	3,530	4,465	9.2	41,213	66	1,146.0	\$892	\$537	\$396	\$1,825	\$703,118 0.14
Region Total		--	--	--	--	--	--	--	158,146	66,665	91,484	164.0	1,421,415	635	25,198.0	--	--	--	--	\$13,435,414 --
Region Average		--	58.69	49.4	4.9	26.7	16.3	8.2	7,907	3,333	4,574	8.2	71,071	32	1,259.9	\$865	\$486	\$335	\$1,685	\$671,771 0.15

Storm Report Summary - Thru Week 30 (5/23/2025 - 5/29/2025)

From Winter Storm Reports, 2024-2025

General Notes: 1) Costs shown in table are estimated and do not include the Administrative Costs; 2) Material Costs includes Brine, Salt, Sand, and other Delcing and Ant-Icing Agents; 3) Equipment Costs are based on an estimated \$115 per hour per unit; 4) Labor Costs are based on each County's average labor rate; 5) Total Salt Available = salt in sheds plus "early fill" plus "vendor reserve" available; 6) Some Material Costs are estimated.

Region	County	Lane Miles	Severity Index	Snow Amount (inches)	Events			Freeze Rate (# of times)	Total Salt Avail. (tons)	Total Salt Used (tons)	Total Salt Remain. (tons)	Salt Used per LM (tons)	Total NaCl Brine Used	Total Sand Used (CY)	Total Reg Hours	Total OT Hours	Estimated Cost Per Lane Mile				Estimated Total Cost to Date	Salt per LM per Severity Index
					Anti-Icing	Storms	Incidents										Mat'l	Equip	Labor	Total		
SE	Kenosha	709.66	29.72	5.4	3	19	4	4	13.2%	5,123	8,153	7.2	1,713	0	2,782.0	1,232.0	\$602	\$508	\$379	\$1,489	\$1,056,684	0.24
	Milwaukee	1573.79	32.55	27.0	2	13	3	1	55.17%	14,496	40,677	9.2	630,827	0	5,246.0	3,514.0	\$810	\$425	\$476	\$1,711	\$2,692,755	0.28
	Ozaukee	301.07	39.85	46.5	5	19	1	7	9.857	2,117	7,740	7.0	203,241	0	587.0	552.0	\$694	\$329	\$256	\$1,279	\$385,069	0.18
	Racine	761.75	30.26	29.8	23	20	5	3	18.653	5,321	13,332	7.0	130,223	0	1,875.0	1,572.0	\$645	\$386	\$399	\$1,370	\$1,043,598	0.23
	Walworth	687.68	33.06	41.4	11	26	7	6	19.031	4,584	14,447	6.7	231,721	98	1,860.0	1,609.0	\$619	\$379	\$342	\$1,340	\$921,491	0.20
	Washington	588.62	44.11	45.4	8	23	7	8	16.106	5,542	10,564	9.4	178,679	0	1,501.0	1,843.0	\$913	\$470	\$385	\$1,748	\$1,028,908	0.21
Region Total	Waukesha	1061.89	37.13	28.6	15	21	6	6	41.013	9,846	31,167	9.3	232,741	0	4,153.0	1,494.0	\$794	\$519	\$332	\$1,645	\$1,746,809	0.25
		--	--	--	---	---	---	---	173,109	47,029	126,080	55.8	1,609,145	98	18,004.0	11,816.0	---	---	---	---	\$6,875,314	---
Region Average		--	35.24	32.0	9.6	20.1	4.7	5.0	24,730	6,718	18,011	8.0	229,878	14	2,572.0	1,688.0	\$725	\$401	\$366	\$1,512	\$1,267,902	0.23

Storm Report Summary - Thru Week 30 (5/23/2025 - 5/29/2025)

From Winter Storm Reports, 2024-2025

General Notes: 1) Costs shown in table are estimated and do not include the Administrative Costs; 2) Material Costs includes Brine, Salt, Sand, and other Delicing and Anti-Icing Agents; 3) Equipment Costs are based on an estimated \$115 per hour per unit; 4) Labor Costs are based on each County's average labor rate; 5) Total Salt Available = salt in sheds plus "early fill" plus "seasonal fill" plus "vendor reserve" available; 6) Some Material Costs are estimated.

Region	County	Lane Miles	Severity Index	Snow Amount (inches)	Events			Freez. Pairs (# of times)	Total Salt Avail. (tons)	Total Salt Used (tons)	Total Salt Remain. (tons)	Salt Used per LM (tons)	Total NaCl Brine Used	Total Sand Used (CY)	Total Reg Hours	Total OT Hours	Estimated Cost Per Lane Mile				Estimated Total Cost to Date	Salt per LM Index
					Anti-Icing	Storms	Incidents										Mat'l	Equip	Labor	Total		
SW	Columbia	799.21	37.48	42.1	22	16	10	7	25,042	7,307	17,735	9.1	261,763	35	2,555.0	1,817.0	\$1,039	\$491	\$331	\$1,861	\$1,487,330	0.24
	Crawford	398.35	33.02	30.2	9	21	15	6	5,080	2,210	2,870	5.5	51,252	4	1,012.0	769.0	\$578	\$284	\$267	\$1,129	\$449,737	0.17
	Dane	1667.53	31.86	16.2	12	27	0	6	53,209	14,015	39,194	8.4	590,643	26	4,399.0	7,582.0	\$857	\$565	\$739	\$2,161	\$3,603,532	0.26
	Dodge	664.16	40.51	46.0	18	20	4	4	19,894	4,799	15,095	7.2	92,939	0	1,640.0	2,072.0	\$650	\$503	\$323	\$1,476	\$980,300	0.18
	Grant	651.51	31.08	19.2	4	14	6	6	10,191	3,854	6,338	5.9	160,593	496	1,051.0	1,366.0	\$613	\$300	\$238	\$1,151	\$749,888	0.19
	Green	311.98	27.25	19.8	10	18	10	3	3,845	1,193	2,652	3.8	96,108	12	768.0	703.0	\$491	\$389	\$274	\$1,154	\$360,025	0.14
	Iowa	457.71	29.43	18.4	6	20	6	7	8,585	2,554	6,031	5.6	131,622	11	1,114.0	1,149.0	\$597	\$397	\$302	\$1,296	\$599,192	0.19
	Jefferson	552.35	33.42	23.4	8	19	6	6	16,145	1,398	14,748	2.5	281,501	0	857.0	1,177.0	\$338	\$325	\$249	\$912	\$509,743	0.08
	Juneau	500.97	38.27	26.4	2	19	4	9	9,682	5,805	3,877	11.6	11,603	0	669.0	1,471.0	\$1,239	\$385	\$286	\$1,910	\$956,853	0.30
	La Crosse	477.01	34.09	36.6	1	16	4	1	10,458	2,067	8,391	4.3	322,619	0	741.0	1,435.0	\$529	\$421	\$285	\$1,235	\$589,107	0.13
	Lafayette	294.51	28.49	24.3	4	27	9	9	3,558	2,037	1,522	6.9	12,976	225	670.0	590.0	\$689	\$330	\$237	\$1,256	\$369,905	0.24
	Monroe	673.53	39.80	31.8	2	20	22	6	13,503	7,288	6,215	10.8	38,062	0	1,602.0	1,906.0	\$1,106	\$436	\$290	\$1,832	\$1,233,907	0.27
	Richland	321.53	30.28	18.4	8	12	30	3	3,656	1,622	2,034	5.0	93,515	38	859.0	613.0	\$589	\$359	\$230	\$1,178	\$378,762	0.17
	Rock	787.75	32.23	24.0	6	17	1	6	15,312	5,069	10,243	6.4	532,530	96	1,726.0	1,602.0	\$732	\$375	\$341	\$1,448	\$1,140,662	0.20
	Sauk	594.55	33.74	23.5	4	25	4	7	16,138	5,378	10,760	9.0	77,753	0	1,654.0	2,175.0	\$1,026	\$473	\$359	\$1,858	\$1,104,674	0.27
	Vernon	468.42	36.51	33.5	10	31	12	9	7,046	2,831	4,215	6.0	167,146	0	1,076.0	1,299.0	\$646	\$434	\$273	\$1,353	\$633,772	0.17
	Region Total	--	--	--	--	--	--	--	221,344	69,427	151,920	108.4	2,922,625	943	22,393.0	27,726.0	--	--	--	--	\$15,135,389	--
	Region Average	--	33.59	27.1	7.9	20.1	8.9	5.9	13,834	4,339	9,495	6.8	182,664	59	1,399.6	1,732.9	\$732	\$401	\$314	\$1,451	\$945,962	0.20

Storm Report Summary - Thru Week 30 (5/23/2025 - 5/29/2025)

From Winter Storm Reports, 2024-2025

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Region	County	Lane Miles	Severity Index	Snow Amount (inches)	Events			Freez. Rains (# of times)	Total Salt Avail. (tons)	Total Salt Used (tons)	Total Salt Remain. (tons)	Salt Used per LM (tons)	Total NaCl Brine Used	Total Sand Used (CY)	Total Reg. Hours	Total OT Hours	Estimated Cost Per Lane Mile			Estimated Total Cost to Date	Salt per LM per Severity Index
					Anti-Icing	Storms	Incidents										Mat'l	Equip	Labor		
Statewide Total									772,448	286,112	486,342		16,667,278	4,511	111,594.0	98,000.0				\$61,613,374	
					6.8	26.1	13.0	7.4	10,728	3,974	6,755	8.2	231,490	63	1,549.9	1,361.1	\$900	\$510	\$364	\$1,773	\$855,741

Table A.2 – Anti-Icing Usage (Gallons)

*From Winter Storm Reports, 2024-2025

Table A.2 shows all total gallons and products used in anti-icing applications in each county throughout the state.

Region	County	# Applications	CaCl ₂	Salt Brine	MgCl ₂	FreezeGard	GeoMelt	Beet 55	AMP	Beet Heet
NC	ADAMS	8	0	65,129	0	0	0	0	0	0
	FLORENCE	4	0	18,374	0	0	0	0	0	0
	FOREST	2	0	27,164	0	0	0	0	0	0
	GREEN LAKE	0	0	0	0	0	0	0	0	0
	IRON	0	0	0	0	0	0	0	0	0
	LANGLADE	1	0	8,253	0	0	0	0	0	0
	LINCOLN	6	0	56,150	0	0	0	0	0	0
	MARATHON	4	0	56,929	0	0	0	0	2,231	0
	MARQUETTE	2	0	37,500	0	0	0	0	0	0
	MENOMINEE	0	0	0	0	0	0	0	0	0
	ONEIDA	4	0	27,204	0	0	0	0	0	0
	PORTAGE	4	0	31,000	0	0	0	0	0	0
	PRICE	11	0	87,229	0	0	0	0	0	0
	SHAWANO	5	0	43,019	0	0	0	0	0	0
	VILAS	0	0	0	0	0	0	0	0	0
	WAUPACA	3	0	5,293	0	0	0	0	0	0
	WAUSHARA	1	0	2,100	0	0	0	0	0	0
	WOOD	10	0	9,490	0	0	0	0	0	0
	Region Totals	65	0	474,834	0	0	0	0	2,231	0

Region	County	# Applications	CaCl ₂	Salt Brine	MgCl ₂	FreezeGard	GeoMelt	Beet 55	AMP	Beet Heet
NE	BROWN	21	0	121,445	0	0	3,425	0	0	0
	CALUMET	9	0	51,825	0	0	0	0	0	0
	DOOR	11	0	36,400	0	0	0	0	0	0
	FOND DU LAC	9	0	160,689	0	0	0	0	0	0
	KEWAUNEE	2	0	7,000	0	0	0	0	0	0
	MANITOWOC	14	100	130,000	0	0	0	0	0	0
	MARINETTE	28	0	160,000	0	0	0	0	0	0
	OCONTO	7	0	46,702	0	0	0	0	0	0
	OUTAGAMIE	2	0	16,018	0	0	0	0	0	0
	SHEBOYGAN	19	0	170,879	0	0	0	0	0	0
	WINNEBAGO	9	0	172,686	0	0	0	0	0	0
	Region Totals	131	100	1,073,644	0	0	3,425	0	0	0

Region	County	# Applications	CaCl ₂	Salt Brine	MgCl ₂	FreezeGard	GeoMelt	Beet 55	AMP	Beet Heet
NW	ASHLAND	9	0	22,388	2,602	0	0	0	0	0
	BARRON	2	0	5,145	0	0	0	0	0	0
	BAYFIELD	3	0	4,200	0	0	0	0	0	0
	BUFFALO	7	0	34,056	0	0	0	0	0	0
	BURNETT	3	0	805	0	0	0	0	0	630
	CHIPPEWA	4	0	7,912	0	0	0	0	0	0
	CLARK	2	0	5,930	0	0	0	0	0	0
	DOUGLAS	19	0	11,452	0	0	0	0	0	7,775
	DUNN	3	0	5,175	0	0	0	0	0	975
	EAU CLAIRE	6	0	105,710	0	0	0	0	0	0
	JACKSON	17	0	149,000	0	0	0	0	0	0
	PEPIN	7	0	6,396	0	0	0	0	0	0
	PIERCE	0	0	0	0	0	0	0	0	0
	POLK	2	0	2,345	0	0	0	0	0	1,005
	RUSK	2	0	1,325	0	0	0	0	0	375
	ST. CROIX	0	0	0	0	0	0	0	0	0
	SAWYER	2	0	118	0	0	0	0	0	50
	TAYLOR	0	0	0	0	0	0	0	0	0
	TREMPEALEAU	0	0	0	0	0	0	0	0	0
	WASHBURN	8	0	14,808	0	0	0	0	0	3,700
Region Totals		96	0	376,765	2,602	0	0	0	0	14,510

Region	County	# Applications	CaCl ₂	Salt Brine	MgCl ₂	FreezeGard	GeoMelt	Beet 55	AMP	Beet Heet
SE	KENOSHA	3	0	1,713	0	0	0	0	0	0
	MILWAUKEE	2	0	82,118	0	0	0	0	0	0
	OZAUKEE	5	0	13,235	0	0	0	0	0	0
	RACINE	23	0	93,300	0	0	0	0	0	0
	WALWORTH	11	1,954	147,256	0	0	0	0	0	0
	WASHINGTON	8	0	51,560	0	0	0	0	0	0
	WAUKESHA	15	0	110,125	0	0	0	0	0	0
Region Totals		67	1,954	499,307	0	0	0	0	0	0

Region	County	# Applications	CaCl ₂	Salt Brine	MgCl ₂	FreezeGard	GeoMelt	Beet 55	AMP	Beet Heet
SW	COLUMBIA	22	0	54,258	0	0	0	0	0	0
	CRAWFORD	9	0	40,100	0	0	0	0	0	0
	DANE	12	0	126,960	0	0	0	0	0	0
	DODGE	18	0	51,556	0	0	0	0	0	5,706
	GRANT	4	0	39,900	0	0	0	0	0	0
	GREEN	10	0	52,230	0	0	0	0	0	0
	IOWA	6	0	35,471	0	0	0	0	0	0
	JEFFERSON	8	0	27,656	0	0	0	0	0	0
	JUNEAU	2	0	11,603	0	0	0	0	0	0
	LA CROSSE	1	0	3,642	0	0	0	0	0	0
	LAFAYETTE	4	0	4,100	0	0	0	0	0	0
	MONROE	2	0	17,200	0	0	0	0	0	0
	RICHLAND	8	0	24,750	0	0	0	0	0	0
	ROCK	6	0	90,092	0	0	0	0	0	0
	SAUK	4	0	7,888	0	0	0	0	0	0
	VERNON	10	0	50,140	0	0	0	0	0	0
Region Totals		126	0	637,546	0	0	0	0	0	5,706

Region	# Applications	CaCl ₂	Salt Brine	MgCl ₂	FreezeGard	GeoMelt	Beet 55	AMP	Beet Heet
NC	65	0	474,834	0	0	0	0	2,231	0
NE	131	100	1,073,644	0	0	3,425	0	0	0
NW	96	0	376,765	2,602	0	0	0	0	14,510
SE	67	1,954	499,307	0	0	0	0	0	0
SW	126	0	637,546	0	0	0	0	0	5,706
Statewide Totals	485	2,054	3,062,096	2,602	0	3,425	0	2,231	20,216

Total Anti-Icing Liquid Used	3,092,624
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Table A.3 – Actual Anti-Icing Costs, 2024-2025

**Costs from invoices entered in MPM*

Table A.3 shows how the cost for anti-icing applications as it compares to the overall cost of winter in each county.

Table A-3 Actual Anti-Icing Costs, 2024-2025

From Invoices entered in MPM

	Cost to Apply Liquid Anti-Icing Chemicals	Total Winter Maintenance Costs	Anti-Icing as a % of Total Winter Costs
Southwest Region			
Columbia	\$44,166	\$1,807,716	2.44%
Crawford	\$31,743	\$561,748	5.65%
Dane	\$115,697	\$4,780,149	2.42%
Dodge	\$60,015	\$1,379,685	4.35%
Grant	\$12,448	\$959,815	1.30%
Green	\$35,291	\$579,881	6.09%
Iowa	\$11,574	\$730,651	1.58%
Jefferson	\$15,282	\$839,346	1.82%
Juneau	\$25,260	\$1,359,351	1.86%
La Crosse	\$10,710	\$1,030,134	1.04%
Lafayette	\$4,465	\$546,414	0.82%
Monroe	\$4,130	\$1,658,455	0.25%
Richland	\$11,551	\$474,570	2.43%
Rock	\$54,444	\$1,602,160	3.40%
Sauk	\$5,999	\$1,332,200	0.45%
Vernon	\$30,641	\$950,318	3.22%
Region Totals	\$473,414	\$20,592,594	2.30%
Southeast Region			
Kenosha	\$5,852	\$1,465,375	0.40%
Milwaukee	\$24,411	\$6,711,253	0.36%
Ozaukee	\$16,002	\$785,672	2.04%
Racine	\$49,628	\$1,365,829	3.63%
Walworth	\$59,804	\$1,397,389	4.28%
Washington	\$20,328	\$1,569,379	1.30%
Waukesha	\$122,673	\$2,585,206	4.75%
Region Totals	\$298,698	\$15,880,104	1.88%

**Northeast
Region**

Brown	\$84,294	\$2,867,140	2.94%
Calumet	\$33,059	\$574,877	5.75%
Door	\$15,458	\$776,430	1.99%
Fond du Lac	\$46,426	\$1,397,827	3.32%
Kewanee	\$4,107	\$273,761	1.50%
Manitowoc	\$26,200	\$1,306,681	2.01%
Marinette	\$46,329	\$1,285,064	3.61%
Oconto	\$12,767	\$1,214,899	1.05%
Outagamie	\$0	\$2,090,349	0.00%
Sheboygan	\$101,313	\$1,508,437	6.72%
Winnebago	\$50,914	\$1,806,366	2.82%
Region Totals	\$420,865	\$15,101,829	2.79%

North Central Region

Adams	\$27,002	\$390,896	6.91%
Florence	\$11,823	\$536,660	2.20%
Forest	\$19,410	\$807,712	2.40%
Green Lake	\$754	\$216,318	0.35%
Iron	\$0	\$1,012,263	0.00%
Langlade	\$1,913	\$727,540	0.26%
Lincoln	\$17,969	\$1,036,570	1.73%
Marathon	\$39,339	\$2,448,535	1.61%
Marquette	\$41,941	\$704,867	5.95%
Menominee	\$0	\$283,459	0.00%
Oneida	\$35,725	\$990,227	3.61%
Portage	\$23,366	\$1,619,333	1.44%
Price	\$52,386	\$792,514	6.61%
Shawano	\$14,756	\$1,842,578	0.80%
Vilas	\$3,517	\$1,302,384	0.27%
Waupaca	\$3,215	\$1,530,191	0.21%
Waushara	\$1,945	\$557,739	0.35%
Wood	\$18,881	\$1,222,523	1.54%
Region Totals	\$313,941	\$18,022,308	1.74%

**Northwest
Region**

Ashland	\$27,465	\$827,836	3.32%
Barron	\$2,503	\$1,011,436	0.25%
Bayfield	\$5,034	\$1,119,474	0.45%
Buffalo	\$9,939	\$423,244	2.35%
Burnett	\$4,300	\$485,013	0.89%
Chippewa	\$14,468	\$1,603,395	0.90%
Clark	\$3,517	\$1,102,705	0.32%
Douglas	\$12,784	\$1,389,688	0.92%
Dunn	\$4,562	\$1,458,049	0.31%
Eau Claire	\$26,797	\$1,510,111	1.77%
Jackson	\$35,692	\$1,067,688	3.34%
Pepin	\$16,553	\$229,972	7.20%
Pierce	\$4,031	\$735,695	0.55%
Polk	\$4,650	\$826,270	0.56%
Rusk	\$5,035	\$421,857	1.19%
Saint Croix	\$30,010	\$2,011,776	1.49%
Sawyer	\$2,025	\$585,763	0.35%
Taylor	\$639	\$610,157	0.10%
Trempealeau	\$7,318	\$1,093,454	0.67%
Washburn	\$27,932	\$936,325	2.98%
Region Totals	\$245,253	\$19,449,909	1.26%

STATEWIDE SUMMARY

SW Region	\$473,414	\$20,592,594	2.30%
SE Region	\$298,698	\$15,880,104	1.88%
NE Region	\$420,865	\$15,101,829	2.79%
NC Region	\$313,941	\$18,022,308	1.74%
NW Region	\$245,253	\$19,449,909	1.26%
Statewide Totals	\$1,752,170	\$89,046,744	1.97%

Table A.4 – Salt Brine Used (Gallons)

*From Winter Storm Reports, 2024-2025

Table A.4 shows the total gallons of brine used in all applications in each county, including anti-icing, pre-wetting, and direct liquid applications.

Region	County	PreWet (Gal)	Anti-Icing (Gal)	Direct Liquid (Gal)	Total (Gal)
North Central	ADAMS	186,511	65,129	0	251,640
	FLORENCE	35,895	18,374	2,500	56,769
	FOREST	21,701	27,164	140,780	189,645
	GREEN LAKE	6,450	0	0	6,450
	IRON	32,156	0	0	32,156
	LANGLADE	46,357	8,253	265,355	319,965
	LINCOLN	96,539	56,150	0	152,689
	MARATHON	349,566	59,160	43,181	451,907
	MARQUETTE	77,465	37,500	558,406	673,371
	MENOMINEE	10,930	27,204	0	38,134
	ONEIDA	26,093	31,000	380,267	437,360
	PORTAGE	77,210	87,229	23,073	187,512
	PRICE	57,367	43,019	0	100,386
	SHAWANO	15,243	0	583,527	598,770
	VILAS	5,614	5,293	1,326,199	1,337,106
	WAUPACA	55,782	2,100	460,110	517,992
	WAUSHARA	48,255	9,490	0	57,745
	WOOD	34,827	0	221,053	255,880
	Region Totals	1,183,961	477,065	4,004,451	5,665,477

Region	County	PreWet (Gal)	Anti-Icing (Gal)	Direct Liquid (Gal)	Total (Gal)
Northeast	BROWN	395,778	124,870	0	520,648
	CALUMET	13,802	51,825	28,146	93,773
	DOOR	24,176	36,400	89,800	150,376
	FOND DU LAC	246,318	160,689	0	407,007
	KEWAUNEE	65,595	7,000	0	72,595
	MANITOWOC	36,230	130,100	0	166,330
	MARINETTE	141,713	160,000	0	301,713
	OCONTO	96,882	46,702	117,204	260,788
	OUTAGAMIE	379,730	16,018	552,255	948,003
	SHEBOYGAN	538,955	170,879	573,037	1,282,871
	WINNEBAGO	822,942	172,686	9,000	1,004,628
	Region Totals	2,762,121	1,077,169	1,369,442	5,208,732

Region	County	PreWet (Gal)	Anti-Icing (Gal)	Direct Liquid (Gal)	Total (Gal)
Northwest	ASHLAND	105,209	24,990	0	130,199
	BARRON	24,131	5,145	0	29,276
	BAYFIELD	61,432	4,200	260	65,892
	BUFFALO	8,925	34,056	43,350	86,331
	BURNETT	22,057	1,435	0	23,492
	CHIPPEWA	74,128	7,912	0	82,040
	CLARK	20,553	5,930	0	26,483
	DOUGLAS	76,535	19,227	0	95,762
	DUNN	104,719	6,150	0	110,869
	EAU CLAIRE	121,805	105,710	0	227,515
	JACKSON	23,039	149,000	0	172,039
	PEPIN	2,635	6,396	0	9,031
	PIERCE	29,438	0	0	29,438
	POLK	27,784	3,350	0	31,134
	RUSK	2,455	1,700	0	4,155
	SAINT CROIX	244,891	0	0	244,891
	SAWYER	2,605	168	0	2,773
	TAYLOR	149,588	0	0	149,588
	TREMPEALEAU	18,639	0	0	18,639
	WASHBURN	32,931	18,508	0	51,439
Region Totals		1,153,499	393,877	43,610	1,590,986

Region	County	PreWet (Gal)	Anti-Icing (Gal)	Direct Liquid (Gal)	Total (Gal)
Southeast	KENOSHA	13,450	1,713	0	15,163
	MILWAUKEE	549,241	82,118	0	631,359
	OZAUKEE	9,901	13,235	180,105	203,241
	RACINE	38,764	93,300	0	132,064
	WALWORTH	12,074	149,210	474,563	635,847
	WASHINGTON	97,119	51,560	30,000	178,679
	WAUKESHA	128,271	110,125	0	238,396
Region Totals		848,820	501,261	684,668	2,034,749

Region	County	PreWet (Gal)	Anti-Icing (Gal)	Direct Liquid (Gal)	Total (Gal)
Southwest	COLUMBIA	207,505	54,258	0	261,763
	CRAWFORD	11,152	40,100	0	51,252
	DANE	463,838	126,960	205	591,003
	DODGE	45,980	57,262	209,374	312,616
	GRANT	41,263	39,900	79,430	160,593
	GREEN	43,878	52,230	0	96,108
	IOWA	36,249	35,471	59,902	131,622
	JEFFERSON	6,448	27,656	247,397	281,501
	JUNEAU	0	11,603	1,235	12,838
	LA CROSSE	318,977	3,642	0	322,619
	LAFAYETTE	8,876	4,100	0	12,976
	MONROE	11,762	17,200	9,100	38,062
	RICHLAND	68,765	24,750	0	93,515
	ROCK	55,673	90,092	386,765	532,530
	SAUK	34,521	7,888	43,190	85,599
	VERNON	122,837	50,140	0	172,977
Region Totals		1,477,724	643,252	1,036,598	3,157,574
Totals		7,426,125	3,092,624	7,138,769	17,657,518

Previous Use	2023-2024	4,384,595	4,933,212	5,471,049	14,788,855
	2022-2023	6,879,995	4,568,727	8,704,840	20,153,532
	2021-2022	5,019,721	3,357,674	5,997,509	14,374,904
	2020-2021	4,773,553	3,642,986	3,131,683	11,548,222
	2019-2020	5,164,583	3,787,748	2,446,637	11,398,968
	2018-2019	6,584,823	2,848,384	-	9,433,207
	2017-2018	3,359,432	2,383,143	-	5,742,575
	2016-2017	3,018,207	1,918,324	-	4,936,531
	2015-2016	2,111,119	1,909,303	-	4,020,422
	2014-2015	1,816,818	1,483,653	-	3,300,471
	2013-2014	3,060,116	872,780	-	3,932,896
	2012-2013	1,082,163	1,164,394	-	2,246,557
	2010-2011	1,674,472	714,760	-	2,389,232
	2009-2010	933,690	649,909	-	1,583,599
	2008-2009	1,028,457	467,943	-	1,496,400
	2007-2008	965,797	305,409	-	1,271,206
	2006-2007	530,733	456,875	-	987,608
	2005-2006	570,203	394,991	-	965,194
	2004-2005	398,661	246,813	-	695,474
	2003-2004	285,710	241,780	-	527,490
	2002-2003	174,413	228,524	-	402,937
	2001-2002	144,505	194,349	-	338,854
	2000-2001	111,816	48,149	-	159,965

Table A.5 – Annual Prewet Agent Usage for Salt (Gallons)

**From Winter Storm Reports, 2024-2025*

Table A.5 shows all total gallons and products used in pre-wetting applications in each county throughout the state.

Region	County	CaCl ₂	Salt Brine	MgCl ₂	FreezeGard	GeoMelt	Beet 55	AMP	Beet Heet
NC	ADAMS	0	186,511	0	0	0	0	0	0
	FLORENCE	0	35,895	0	0	0	0	0	0
	FOREST	0	21,701	0	0	0	0	0	0
	GREEN LAKE	0	6,450	0	0	0	0	0	0
	IRON	0	32,156	0	0	0	0	0	0
	LANGLADE	0	46,357	0	0	0	0	0	0
	LINCOLN	0	96,539	0	0	0	0	0	0
	MARATHON	0	335,696	0	0	0	0	13,870	0
	MARQUETTE	0	77,465	0	0	0	0	0	0
	MENOMINEE	0	10,930	0	0	0	0	0	0
	ONEIDA	0	16,704	0	0	0	0	0	9,389
	PORTAGE	0	77,210	0	0	0	0	0	0
	PRICE	0	57,367	0	0	0	0	0	0
	SHAWANO	0	15,243	0	0	0	0	0	0
	VILAS	0	5,614	0	0	0	0	0	0
	WAUPACA	0	55,782	0	0	0	0	0	0
	WAUSHARA	0	48,255	0	0	0	0	0	0
	WOOD	0	34,827	0	0	0	0	0	0
	Region Totals	0	1,160,702	0	0	0	0	13,870	9,389

Region	County	CaCl ₂	Salt Brine	MgCl ₂	FreezeGard	GeoMelt	Beet 55	AMP	Beet Heet
NE	BROWN	970	394,398	0	0	410	0	0	0
	CALUMET	0	12,936	0	0	0	0	0	859
	DOOR	0	24,176	0	7	0	0	0	0
	FOND DU LAC	117	246,201	0	0	0	0	0	0
	KEWAUNEE	0	65,595	0	0	0	0	0	0
	MANITOWOC	0	36,230	0	0	0	0	0	0
	MARINETTE	1,430	140,283	0	0	0	0	0	0
	OCONTO	0	96,882	0	0	0	0	0	0
	OUTAGAMIE	0	379,730	0	0	0	0	0	0
	SHEBOYGAN	0	538,955	0	0	0	0	0	0
	WINNEBAGO	2,193	820,749	0	0	0	0	0	0
	Region Totals	4,710	2,756,135	0	7	410	0	0	859

Region	County	CaCl ₂	Salt Brine	MgCl ₂	FreezeGard	GeoMelt	Beet 55	AMP	Beet Heet
NW	ASHLAND	0	94,755	10,454	0	0	0	0	0
	BARRON	0	23,407	0	0	0	0	0	724
	BAYFIELD	0	61,432	0	0	0	0	0	0
	BUFFALO	0	8,925	0	0	0	0	0	0
	BURNETT	0	16,807	0	0	0	877	0	4,373
	CHIPPEWA	470	61,523	0	0	0	571	0	11,564
	CLARK	0	20,553	0	0	0	0	0	0
	DOUGLAS	0	53,749	0	0	0	1,115	0	21,671
	DUNN	0	85,976	0	0	0	0	0	18,743
	EAU CLAIRE	2,451	119,354	0	0	0	0	0	0
	JACKSON	0	15,300	0	0	0	7,489	0	250
	PEPIN	0	2,635	0	0	0	0	0	0
	PIERCE	0	29,438	0	0	0	0	0	0
	POLK	0	17,714	3,386	0	0	0	0	6,684
	RUSK	0	2,308	0	0	0	0	0	147
	ST. CROIX	677	193,756	0	0	0	0	0	50,458
	SAWYER	0	701	0	0	0	0	0	1,904
	TAYLOR	0	149,588	0	0	0	0	0	0
	TREMPEALEAU	0	16,974	0	0	0	600	0	1,065
	WASHBURN	0	26,405	0	0	0	0	0	6,526
Region Totals		3,598	1,001,300	13,840	0	0	10,652	0	124,109

Region	County	CaCl ₂	Salt Brine	MgCl ₂	FreezeGard	GeoMelt	Beet 55	AMP	Beet Heet
SE	KENOSHA	13,450	0	0	0	0	0	0	0
	MILWAUKEE	532	548,709	0	0	0	0	0	0
	OZAUKEE	0	9,901	0	0	0	0	0	0
	RACINE	1,841	36,923	0	0	0	0	0	0
	WALWORTH	100	11,974	0	0	0	0	0	0
	WASHINGTON	0	97,119	0	0	0	0	0	0
	WAUKESHA	4,545	122,616	1,110	0	0	0	0	0
Region Totals		20,468	827,242	1,110	0	0	0	0	0

Region	County	CaCl ₂	Salt Brine	MgCl ₂	FreezeGard	GeoMelt	Beet 55	AMP	Beet Heet
SW	COLUMBIA	0	207,505	0	0	0	0	0	0
	CRAWFORD	0	11,152	0	0	0	0	0	0
	DANE	155	463,683	0	0	0	0	0	0
	DODGE	0	41,383	0	0	0	148	0	4,449
	GRANT	0	41,263	0	0	0	0	0	0
	GREEN	0	43,878	0	0	0	0	0	0
	IOWA	0	36,249	0	0	0	0	0	0
	JEFFERSON	0	6,448	0	0	0	0	0	0
	JUNEAU	0	0	0	0	0	0	0	0
	LA CROSSE	0	318,977	0	0	0	0	0	0
	LAFAYETTE	0	8,876	0	0	0	0	0	0
	MONROE	0	11,762	0	0	0	0	0	0
	RICHLAND	0	68,765	0	0	0	0	0	0
	ROCK	0	55,673	0	0	0	0	0	0
	SAUK	0	34,521	0	0	0	0	0	0
	VERNON	0	117,006	0	0	0	0	0	5,831
Region Totals		155	1,467,141	0	0	0	148	0	10,280

Region	CaCl ₂	Salt Brine	MgCl ₂	FreezeGard	GeoMelt	Beet 55	AMP	Beet Heet
NC	0	1,160,702	0	0	0	0	13,870	9,389
NE	4,710	2,756,135	0	7	410	0	0	859
NW	3,598	1,001,300	13,840	0	0	10,652	0	124,109
SE	20,468	827,242	1,110	0	0	0	0	0
SW	155	1,467,141	0	0	0	148	0	10,280
Statewide Totals	28,931	7,212,520	14,950	7	410	10,800	13,870	144,637

7,426,125

Table A.6 – History of Salt Use on State Trunk Highways

**From Salt Inventory Reporting System and Inventories*

Winter	Tons of Salt	Lane Miles	Tons/Lane Mile	Million Vehicle Miles Traveled STH System (Winter)
1959/60	93,673	19,521	4.8	8,828
1960/61	54,805	19,948	2.7	9,254
1961/62	109,412	19,966	5.5	9,558
1962/63	77,719	19,756	3.9	9,782
1963/64	82,033	19,717	4.2	10,064
1964/65	149,329	19,911	7.5	10,566
1965/66	111,634	19,505	5.7	11,122
1966/67	181,230	20,137	8.0	11,933
1967/68	137,729	22,395	6.2	12,140
1968/69	193,004	22,675	8.5	12,870
1969/70	199,353	22,831	8.7	13,853
1970/71	273,010	23,120	11.8	15,133
1971/72	223,249	25,543	8.7	14,325
1972/73	256,571	25,673	10.0	15,301
1973/74	218,189	N/A	N/A	16,198
1974/75	237,916	N/A	N/A	15,807
1975/76	257,154	N/A	N/A	16,198
1976/77	188,011	N/A	N/A	18,556
1977/78	210,054	N/A	N/A	19,621
1978/79	235,193	N/A	N/A	21,053
1979/80	220,180	N/A	N/A	20,403
1980/81	151,021	N/A	N/A	19,360
1981/82	192,740	N/A	N/A	20,210
1982/83	234,529	27,407	8.6	20,056
1983/84	224,368	27,416	8.2	20,873
1984/85	217,136	27,598	7.9	21,214
1985/86	304,296	27,632	11.0	22,110
1986/87	196,035	27,613	7.1	23,176
1987/88	224,573	27,743	8.1	24,346
1988/89	230,403	27,872	8.3	24,550
1989/90	297,004	28,024	10.6	25,370
1990/91	364,174	28,006	13.0	26,247
1991/92	337,079	28,104	12.0*	27,391
1992/93	416,594	28,182	14.8*	28,252
1993/94	314,489	28,221	11.1*	28,859
1994/95	295,479	28,312	10.4*	29,210
1995/96	440,488	28,374	15.5	30,077
1996/97	509,147	28,545	17.8*	31,122
1997/98	413,824	29,619	14.0*	32,083
1998/99	371,602	30,119	12.4	33,236
1999/00	346,963	30,340	11.4*	33,825
2000/01	521,056	30,553	17.1	34,657

2001/02	308,954	30,909	10.0	34,076
2002/03	328,922	30,975	10.6	35,088
2003/04	390,664	31,429	12.4	35,662
2004/05	407,924	31,810	12.8	36,013
2005/06	410,570	33,022	12.4	35,642
2006/07	405,793	33,221	12.2	27,911
2007/08	644,484	33,297	19.4	27,931
2008/09	569,985	33,531	17.0	26,888
2009/10	408,523	33,532	12.2	26,109
2010/11	573,253	33,776	17.0	26,998
2011/12	355,519	33,944	10.5	25,669
2012/13	621,207	34,192	18.2	26,512
2013/14	669,807	34,339	19.5	26,774
2014/15	388,797	34,435	11.3	28,218
2015/16	399,046	34,486	11.6	28,518
2016/17	526,198	34,621	15.2	29,350
2017/18	567,600	34,678	16.4	30,095
2018/19	553,443	34,774	15.9	30,022
2019/20	425,558	34,859	12.2	30,525
2020/21	324,265	35,177	9.2	27,764
2021/22	387,600	34,736	11.2	28,773
2022/23	483,874	34,723	13.9	30,785
2023/24	255,155	34,736	7.3	31,330
2024/25	332,458	34,697	9.6	32,180

A great deal of effort went into preparing this report, the group wishes to thank our county partners in their ongoing efforts to make Wisconsin's winter maintenance as safe and efficient as possible. Would like to thank you for taking the time to review this report, if you have any additional questions or require additional information please contact Cody Churchill at the Bureau of Highway Maintenance, e-mail: cody.churchill@dot.wi.gov.

