

# Storm Report Summary - End of Season

From Winter Storm Reports, 2023-2024

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 \$90 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. 7) Severity Indices in this table are not the official MDSS severity index used by WisDOT in other reports. 8) This report is sorted by TOTAL Cost per Lane Mile.

Region NC County	Lane Miles	Severity Index	Snow Amount (inches)	Events this Season			Freez. Rain Events	Total Salt Avail. (tons)	Total Salt Used (tons)	Total Salt Remain. (tons)	Salt Used per LM (tons)	Total Thaw-Rox (tons)	Total Clear-Lane (tons)	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	Incident											Mat'l	Equip	Labor	Total		
IRON	240.51	103.24	93.1	0	32	13	12	6,813	2,085	4,728	8.7	0	0	34	784.0	685.0	\$957	\$555	\$351	\$1,863	\$448,165	0.08
VILAS	307.73	129.77	71.6	5	46	16	23	8,775	2,690	6,085	8.7	0	0	395	1815.0	170.0	\$1,004	\$569	\$281	\$1,854	\$569,045	0.07
ADAMS	202.74	65.34	45.6	10	20	5	8	4,280	2,054	2,226	10.1	0	0	16	602.0	129.0	\$1,236	\$294	\$178	\$1,708	\$346,350	0.16
MARATHON	905.42	82.52	40.3	16	24	14	9	14,350	7,072	7,278	7.8	0	0	43	2100.0	2556.0	\$858	\$440	\$271	\$1,569	\$1,420,414	0.09
SHAWANO	530.27	85.33	70.5	6	22	16	7	9,381	3,767	5,614	7.1	0	0	8	1647.0	1106.0	\$631	\$479	\$279	\$1,389	\$736,686	0.08
FLORENCE	137.43	77.24	52.6	4	27	10	5	3,735	1,121	2,614	8.2	0	0	13	418.0	161.0	\$846	\$327	\$195	\$1,368	\$188,061	0.11
PORTAGE	531.62	73.22	47.8	14	23	10	10	9,000	2,195	6,805	4.1	0	0	33	2273.0	1157.0	\$426	\$578	\$343	\$1,347	\$716,128	0.06
MENOMINEE	90.66	62.34	48.2	2	23	6	8	2,365	691	1,674	7.6	0	0	9	252.0	96.0	\$752	\$346	\$171	\$1,269	\$115,091	0.12
PRICE	319.53	79.29	35.0	13	30	4	16	5,925	1,713	4,212	5.4	0	0	0	866.0	552.0	\$630	\$399	\$227	\$1,257	\$401,547	0.07
LINCOLN	399.39	79.32	47.7	12	25	7	15	6,729	2,333	4,396	5.8	0	0	335	1087.0	502.0	\$707	\$313	\$209	\$1,229	\$490,996	0.07
MARQUETTE	246.61	65.94	49.5	13	24	3	6	4,857	1,050	3,807	4.3	0	0	16	535.0	548.0	\$534	\$412	\$261	\$1,207	\$297,164	0.06
ONEIDA	395.39	93.73	55.4	7	26	13	19	10,347	1,769	8,578	4.5	0	0	156	1786.0	537.0	\$479	\$423	\$303	\$1,205	\$476,319	0.05
WAUPACA	556.87	57.46	48.7	2	15	13	3	11,200	4,307	6,893	7.7	0	0	0	974.0	1000.0	\$666	\$311	\$205	\$1,181	\$657,784	0.13
WOOD	443.36	82.08	42.0	18	28	8	13	7,100	2,084	5,016	4.7	0	0	89	1045.0	978.0	\$485	\$357	\$248	\$1,091	\$483,602	0.06
FOREST	314.49	101.61	67.3	1	37	6	11	7,614	1,682	5,932	5.3	0	0	0	712.0	516.0	\$527	\$325	\$199	\$1,051	\$330,409	0.05
WAUSHARA	343.69	60.22	52.8	2	20	6	3	4,086	1,404	2,682	4.1	0	0	49	805.0	478.0	\$452	\$330	\$199	\$981	\$337,120	0.07
LANGLADE	300.29	84.91	59.1	11	28	8	10	5,257	881	4,376	2.9	0	0	1	813.0	417.0	\$347	\$345	\$211	\$903	\$271,250	0.03
GREEN LAKE	154.11	49.59	47.3	1	16	7	4	1,830	373	1,457	2.4	0	0	0	269.0	254.0	\$258	\$279	\$194	\$730	\$112,557	0.05
<b>Region Total</b>	--	--	--	--	--	--	--	123,644	39,271	84,373	--	0	0	1197	--	--	--	--	--	--	\$8,398,687	
<b>Region Average</b>	79.62	54.1		7.6	25.9	9.2	10.1	6,869	2,182	4,687	6.1	0	0	67	1043.5	657.9	\$655	\$394	\$240	\$1,289	\$466,594	0.08

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Region NE County	Lane Miles	Severity Index	Snow Amount (inches)	Events this Season			Freez. Rain Events	Total Salt Avail. (tons)	Total Salt Used (tons)	Total Salt Remain. (tons)	Salt Used per LM (tons)	Total Thaw-Rox (tons)	Total Clear-Lane (tons)	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	Incident											Mat'l	Equip	Labor	Total		
BROWN	860.16	59.76	64.6	49	22	4	4	20,338	8,929	11,409	10.4	0	0	26	2279.0	3371.0	\$818	\$683	\$401	\$1,902	\$1,635,180	0.17
OUTAGAMIE	567.52	64.45	47.5	1	17	19	1	11,682	6,467	5,215	11.4	0	0	0	2020.0	1410.0	\$1,100	\$395	\$383	\$1,879	\$1,066,236	0.18
MANITOWOC	419.96	34.16	30.8	26	15	2	0	8,700	3,788	4,912	9.0	0	0	140	1896.0	775.0	\$855	\$572	\$305	\$1,732	\$727,266	0.26
SHEBOYGAN	543.53	70.51	54.4	18	21	24	4	10,434	3,101	7,333	5.7	0	0	52	1650.0	1739.0	\$719	\$535	\$421	\$1,675	\$910,533	0.08
CALUMET	219.46	67.63	53.1	18	19	19	3	2,625	1,292	1,333	5.9	0	0	0	1044.0	488.0	\$600	\$547	\$393	\$1,540	\$337,928	0.09
MARINETTE	414.39	95.04	63.7	32	32	15	10	9,050	2,817	6,233	6.8	0	0	0	1243.0	902.0	\$627	\$440	\$322	\$1,388	\$575,356	0.07
WINNEBAGO	688.27	49.39	45.8	13	15	12	2	11,886	4,997	6,889	7.3	0	18	10	1689.0	1796.0	\$662	\$384	\$320	\$1,367	\$940,637	0.15
FOND DU LAC	611.86	54.84	47.0	4	19	7	4	11,240	3,148	8,092	5.1	0	0	142	1331.0	1844.0	\$525	\$415	\$356	\$1,296	\$792,854	0.09
KEWAUNEE	126.39	67.52	60.1	3	18	15	8	1,770	789	981	6.2	0	0	210	285.0	198.0	\$665	\$343	\$230	\$1,238	\$156,256	0.09
OCONTO	481.73	74.62	49.2	16	19	13	9	7,241	3,389	3,852	7.0	0	0	0	1108.0	864.0	\$627	\$337	\$241	\$1,205	\$580,420	0.09
DOOR	267.29	68.64	56.0	8	22	20	1	4,988	1,128	3,860	4.2	0	0	48	450.0	848.0	\$428	\$437	\$340	\$1,204	\$321,904	0.06
<b>Region Total</b>	--	--	--	--	--	--	--	99,954	39,845	60,109	--	0	18	628	--	--	--	--	--	--	\$8,044,568	
<b>Region Average</b>	64.23	52.0	17.1	19.9	13.6	4.2	9,087	3,622	5,464	7.2	0	2	57	1363.2	1294.1	\$693	\$462	\$337	\$1,493	\$731,324	0.12	

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Region NW County	Lane Miles	Severity Index	Snow Amount (inches)	Events this Season			Freez. Rain Events	Total Salt Avail. (tons)	Total Salt Used (tons)	Total Salt Remain. (tons)	Salt Used per LM (tons)	Total Thaw-Rox (tons)	Total Clear-Lane (tons)	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	Incident											Mat'l	Equip	Labor	Total		
TREMPEALEAU	420.25	54.83	35.1	10	15	18	0	9,261	4,848	4,413	11.5	0	0	0	1188.0	1003.0	\$1,159	\$421	\$324	\$1,904	\$800,304	0.21
JACKSON	520.32	60.10	39.7	23	20	15	16	11,703	5,139	6,564	9.9	0	0	0	1158.0	1055.0	\$1,040	\$369	\$221	\$1,630	\$847,925	0.16
ASHLAND	255.69	90.08	65.4	9	30	8	10	4,475	2,096	2,379	8.2	0	0	7	905.0	403.0	\$896	\$445	\$278	\$1,619	\$413,837	0.09
DOUGLAS	465.66	87.46	57.1	41	33	15	10	10,432	4,416	6,016	9.5	0	0	0	2379.0	587.0	\$784	\$512	\$281	\$1,578	\$734,732	0.11
BAYFIELD	345.31	99.05	61.7	5	34	17	3	7,541	2,220	5,321	6.4	0	0	18	1420.0	537.0	\$604	\$508	\$299	\$1,411	\$487,194	0.06
DUNN	521.2	57.34	37.8	7	22	6	3	13,635	4,313	9,323	8.3	0	0	0	917.0	1080.0	\$815	\$322	\$252	\$1,390	\$724,492	0.14
BARRON	428.61	62.07	34.1	3	18	15	11	7,000	3,046	3,954	7.1	0	2	205	1284.0	686.0	\$653	\$385	\$274	\$1,311	\$561,962	0.11
CLARK	401.81	39.00	29.6	5	15	10	4	7,260	2,961	4,299	7.4	0	0	3	520.0	731.0	\$842	\$279	\$171	\$1,291	\$518,733	0.19
EAU CLAIRE	531.32	46.79	28.1	8	18	1	4	11,842	2,664	9,178	5.0	0	0	0	2209.0	500.0	\$560	\$402	\$272	\$1,235	\$655,983	0.11
PEPIN	109.41	45.20	28.9	10	15	4	6	1,202	375	827	3.4	0	0	0	362.0	282.0	\$362	\$478	\$315	\$1,154	\$126,275	0.08
RUSK	213.1	83.19	39.2	8	22	7	16	3,249	1,083	2,166	5.1	0	0	0	396.0	352.0	\$516	\$291	\$206	\$1,013	\$215,786	0.06
POLK	374.54	60.71	43.0	16	18	19	0	9,074	1,881	7,193	5.0	0	0	3	807.0	628.0	\$472	\$317	\$211	\$1,001	\$374,758	0.08
BURNETT	235.35	48.94	34.1	8	17	4	13	3,715	1,365	2,350	5.8	0	0	6	357.0	314.0	\$574	\$255	\$149	\$979	\$230,318	0.12
WASHBURN	385.68	57.29	18.9	18	20	5	9	7,845	2,150	5,695	5.6	0	0	0	622.0	531.0	\$521	\$268	\$185	\$973	\$375,441	0.10
TAYLOR	232.44	55.28	36.1	5	22	5	7	4,338	946	3,392	4.1	0	0	0	329.0	314.0	\$535	\$232	\$148	\$915	\$212,717	0.07
PIERCE	368.08	35.40	26.6	4	12	6	2	6,425	2,207	4,218	6.0	0	0	0	495.0	425.0	\$572	\$180	\$146	\$899	\$330,756	0.17
CHIPPEWA	653.17	48.57	32.6	6	16	6	5	13,874	1,818	12,056	2.8	0	0	47	870.0	1729.0	\$290	\$324	\$244	\$859	\$560,831	0.06
SAINT CROIX	653.47	31.17	19.4	1	12	2	2	16,486	3,299	13,187	5.0	0	0	2	406.0	1023.0	\$473	\$197	\$164	\$834	\$544,888	0.16
SAWYER	357.2	71.69	32.7	0	26	13	6	5,750	1,616	4,134	4.5	0	0	0	617.0	441.0	\$425	\$231	\$155	\$811	\$289,694	0.06
BUFFALO	311.87	73.17	35.2	8	27	7	10	3,478	982	2,496	3.1	0	0	0	624.0	406.0	\$324	\$261	\$162	\$746	\$232,717	0.04
<b>Region Total</b>	--	--	--	--	--	--	--	158,585	49,425	109,161	--	0	2	291	--	--	--	--	--	--	\$9,239,343	
<b>Region Average</b>	60.37	36.8		9.8	20.6	9.2	6.9	7,929	2,471	5,458	6.2	0	0	15	893.3	651.4	\$621	\$334	\$223	\$1,178	\$461,967	0.11

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Region SE County	Lane Miles	Severity Index	Snow Amount (inches)	Events this Season			Freez. Rain Events	Total Salt Avail. (tons)	Total Salt Used (tons)	Total Salt Remain. (tons)	Salt Used per LM (tons)	Total Thaw-Rox (tons)	Total Clear-Lane (tons)	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	Incident											Mat'l	Equip	Labor	Total		
MILWAUKEE	1574.67	54.75	37.1	5	15	0	5	55,265	21,776	33,489	13.8	0	0	0	5771.0	5724.0	\$1,083	\$566	\$653	\$2,302	\$3,624,497	0.25
WASHINGTON	591.04	75.45	57.3	19	22	13	6	16,230	5,974	10,256	10.1	0	0	0	1859.0	2027.0	\$919	\$550	\$412	\$1,881	\$1,111,745	0.13
WALWORTH	697.33	64.79	51.8	23	22	10	4	19,050	5,594	13,456	8.0	0	0	12	2213.0	2143.0	\$767	\$469	\$417	\$1,653	\$1,152,434	0.12
WAUKESHA	1059.84	53.09	45.7	12	14	3	4	41,600	9,787	31,813	9.2	0	0	14	3847.0	2119.0	\$739	\$464	\$364	\$1,567	\$1,660,556	0.17
RACINE	774.85	61.74	39.0	22	25	0	6	18,000	5,497	12,503	7.1	0	0	0	1970.0	1623.0	\$612	\$379	\$332	\$1,324	\$1,025,786	0.11
KENOSHA	674.4	54.09	4.5	3	17	7	4	13,300	2,624	10,676	3.9	0	0	9	2295.0	1840.0	\$312	\$517	\$421	\$1,249	\$842,473	0.07
OZAUKEE	321.1	44.04	37.1	11	16	5	5	9,951	2,194	7,757	6.8	0	0	0	702.0	573.0	\$555	\$343	\$263	\$1,160	\$372,386	0.16
<b>Region Total</b>	--	--	--	--	--	--	--	173,396	53,446	119,950	--	0	0	35	--	--	--	--	--	--	\$9,789,877	
<b>Region Average</b>	58.28	38.9		13.6	18.7	5.4	4.9	24,771	7,635	17,136	8.4	0	0	5	2665.3	2292.7	\$712	\$470	\$409	\$1,591	\$1,398,554	0.15

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				Anti- Icing	Storms	Incident											Mat'l	Equip	Labor	Total		
DANE	1665.78	60.21	42.7	17	19	0	5	53,583	13,894	39,689	8.3	0	0	171	3664.0	8574.0	\$781	\$631	\$743	\$2,155	\$3,589,746	0.14
COLUMBIA	801.13	67.74	50.1	25	16	19	9	24,992	8,171	16,821	10.2	0	0	156	2682.0	2000.0	\$1,114	\$515	\$342	\$1,970	\$1,578,329	0.15
SAUK	594.09	50.63	20.5	3	14	3	7	16,268	6,930	9,338	11.7	0	0	0	1067.0	1428.0	\$1,250	\$313	\$249	\$1,812	\$1,076,129	0.23
DODGE	667.73	53.30	59.0	23	18	8	2	19,970	6,245	13,725	9.4	0	0	110	1885.0	2161.0	\$801	\$545	\$382	\$1,728	\$1,153,436	0.18
JUNEAU	500.96	52.69	40.7	9	19	12	1	10,569	4,387	6,182	8.8	0	0	0	1127.0	1386.0	\$954	\$432	\$304	\$1,690	\$846,773	0.17
IOWA	457.1	54.55	46.3	13	19	4	6	8,478	3,593	4,885	7.9	0	0	19	1470.0	1364.0	\$770	\$481	\$396	\$1,647	\$752,914	0.14
MONROE	679.49	61.43	41.8	8	19	8	7	13,755	6,452	7,303	9.5	0	0	0	1275.0	1943.0	\$958	\$408	\$264	\$1,630	\$1,107,486	0.15
ROCK	791.89	50.66	42.0	11	21	2	3	15,286	5,224	10,062	6.6	0	0	16	1833.0	2745.0	\$615	\$463	\$480	\$1,558	\$1,233,550	0.13
VERNON	469.79	88.46	35.3	12	28	15	7	6,988	3,342	3,646	7.1	0	0	0	1015.0	1313.0	\$689	\$412	\$261	\$1,362	\$639,734	0.08
JEFFERSON	552.87	62.30	50.5	14	20	11	4	16,157	2,012	14,145	3.6	0	0	231	1493.0	1903.0	\$345	\$552	\$394	\$1,291	\$713,822	0.06
LAFAYETTE	294.51	71.67	46.2	5	26	8	4	3,507	1,599	1,908	5.4	0	0	1030	780.0	656.0	\$547	\$384	\$255	\$1,186	\$349,214	0.08
GREEN	311.98	61.51	40.9	9	20	9	3	3,846	1,386	2,460	4.4	0	0	7	757.0	725.0	\$523	\$401	\$260	\$1,184	\$369,370	0.07
GRANT	646.92	50.39	51.7	1	14	12	2	10,132	4,041	6,091	6.2	0	0	1133	1273.0	1348.0	\$606	\$346	\$226	\$1,178	\$761,794	0.12
RICHLAND	321.78	34.68	25.0	6	7	21	3	3,652	1,496	2,156	4.6	0	0	94	647.0	514.0	\$506	\$296	\$174	\$975	\$313,743	0.13
CRAWFORD	398.22	74.48	41.1	7	18	21	8	5,072	1,792	3,280	4.5	0	0	107	858.0	664.0	\$445	\$305	\$215	\$965	\$384,272	0.06
LA CROSSE	483.56	27.54	43.0	0	8	4	1	10,461	2,603	7,858	5.4	0	0	0	367.0	732.0	\$495	\$192	\$158	\$846	\$408,861	0.20
<b>Region Total</b>	--	--	--	--	--	--	--	222,716	73,167	149,549	--	0	0	3074	--	--	--	--	--	--	\$15,279,172	
<b>Region Average</b>	57.64	42.3		10.2	17.9	9.8	4.5	13,920	4,573	9,347	7.1	0	0	192	1387.1	1841.0	\$712	\$417	\$319	\$1,448	\$954,948	0.13

# Storm Report Summary - End of Season

From Winter Storm Reports, 2023-2024

*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 \$90 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. 7) Severity Indices in this table are not the official MDSS severity index used by WisDOT in other reports. 8) This report is sorted by TOTAL Cost per Lane Mile.*

Lane Miles	Severity Index	Snow Amount (inches)	Events this Season			Freez. Rain Events	Total Salt Avail. (tons)	Total Salt Used (tons)	Total Salt Remain. (tons)	Salt Used per LM (tons)	Total Thaw-Rox (tons)	Total Clear-Lane (tons)	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	Incident											Mat'l	Equip	Labor	Total		
<b>Statewide Total</b>	--	--	--	--	--	--	778,295	255,154	523,142	--	0	20	5225.0	--	--	--	--	--	--	\$50,751,648	--
<b>Statewide Average</b>	64.96	44.9	10.8	21.0	9.6	6.5	10,810	3,544	7,266	6.7	0.0	0.3	72.6	1284.6	1175.1	\$670	\$400	\$284	\$1,354	\$704,884	0.11