

**WN CALENDAR MONTH SALES BY JURISDICTION - MWH**  
 (Source: Jannell Marks)

Month	Year	MN			ND			SD			MNCO			WICO			NSP		
		Retail	Wholesale	Total	Total	Total	Retail	Wholesale	Total	Retail	Wholesale	Total	Retail	Wholesale	Total	Retail	Wholesale	Total	
January	2021	2,385,504	0	2,385,504	204,764	183,904	2,774,171	0	2,774,171	601,344	0	601,344	3,375,515	0	3,375,515				
February	2021	2,177,057	0	2,177,057	187,030	168,993	2,533,079	0	2,533,079	556,722	0	556,722	3,089,801	0	3,089,801				
March	2021	2,230,682	0	2,230,682	179,967	167,817	2,578,466	0	2,578,466	564,123	0	564,123	3,142,589	0	3,142,589				
April	2021	2,060,866	0	2,060,866	155,823	154,760	2,371,449	0	2,371,449	493,433	0	493,433	2,864,882	0	2,864,882				
May	2021	2,176,156	0	2,176,156	155,216	162,788	2,494,160	0	2,494,160	525,407	0	525,407	3,019,567	0	3,019,567				
June	2021	2,497,503	0	2,497,503	177,122	191,048	2,865,673	0	2,865,673	572,194	0	572,194	3,437,867	0	3,437,867				
July	2021	2,805,609	0	2,805,609	192,549	217,696	3,215,855	0	3,215,855	636,876	0	636,876	3,852,732	0	3,852,732				
August	2021	2,685,556	0	2,685,556	179,313	203,085	3,067,954	0	3,067,954	608,361	0	608,361	3,676,316	0	3,676,316				
September	2021	2,399,808	0	2,399,808	162,490	181,241	2,743,540	0	2,743,540	540,813	0	540,813	3,284,353	0	3,284,353				
October	2021	2,260,709	0	2,260,709	162,751	165,615	2,589,075	0	2,589,075	531,993	0	531,993	3,121,068	0	3,121,068				
November	2021	2,215,353	0	2,215,353	170,154	162,903	2,548,410	0	2,548,410	533,106	0	533,106	3,081,517	0	3,081,517				
December	2021	2,414,470	0	2,414,470	194,914	183,052	2,792,436	0	2,792,436	599,850	0	599,850	3,392,286	0	3,392,286				

Source: Jannell Marks

**Original Energy Loss Factors -- 4-Year Average 1985-1988**

	No Dak	So Dak	Minn	Minn Co	Wisc Co	NSP Co
Bulk(UT)	0.9992	1	0.985	0.9866	0.9799	0.9855
Bulk(T)	0.996	1	0.9798	0.9816	0.9788	0.981
Tran(UT)	0.9942	0.9835	0.9753	0.9769	0.9671	0.9753
Tran(T)	0.9918	0.9825	0.9739	0.9754	0.9644	0.9736
Subtran(UT)	0.9881	0.9741	0.9677	0.9693	0.945	0.9653
Subtran(t)	0.9828	0.967	0.9621	0.9636	0.9372	0.9593
Primary	0.9754	0.9529	0.9523	0.9539	0.9251	0.9491
Large secondary	0.9642	0.9321	0.9372	0.9388	0.9048	0.9331
Small Secondary	0.9591	0.9267	0.9296	0.9314	0.899	0.926

Original Overall Loss Factor (Gr	0.9613	0.9340	0.9396	0.9407	0.9104	0.9357	
Budget Losses:	0.0602	0.0489	0.0817	0.0782	0.0754	0.0778	(See row 17 of "Summary" tab in "Loss_Factor_Calc_2022A.xlsx")
Adjustment Factors:	0.97768	1.01836	0.97738	0.97988	1.01556	0.98558	(this row links to LD22FC.xlsx)

	No Dak	So Dak	Minn	Minn Co	Wisc Co	NSP Co
Bulk(UT)	0.9769	1	0.9627	0.9667	0.9951	0.9713
Bulk(T)	0.9738	1	0.9576	0.9618	0.994	0.9668
Tran(UT)	0.972	1	0.9532	0.9572	0.9821	0.9612
Tran(T)	0.9697	1	0.9519	0.9558	0.9794	0.9596
Subtran(UT)	0.966	0.992	0.9458	0.9498	0.9597	0.9514
Subtran(t)	0.9609	0.9848	0.9403	0.9442	0.9518	0.9455
Primary	0.9536	0.9704	0.9308	0.9347	0.9395	0.9354
Large secondary	0.9427	0.9492	0.916	0.9199	0.9189	0.9196
Small Secondary	0.9377	0.9437	0.9086	0.9127	0.913	0.9126

**Northern States Power Company, a Minnesota Corporation**  
**Calculation of the E-10 - Energy Allocator**  
**2021 Actual WN**

**Updated**  
**Sales**

Month	Year	MN State			ND State	SD State	NSPM		
		Retail	Wholesale	Total	Total	Total	Retail	Wholesale	Total
January	2021	2,385,504	0	2,385,504	204,764	183,904	2,774,171	0	2,774,171
February	2021	2,177,057	0	2,177,057	187,030	168,993	2,533,079	0	2,533,079
March	2021	2,230,682	0	2,230,682	179,967	167,817	2,578,466	0	2,578,466
April	2021	2,060,866	0	2,060,866	155,823	154,760	2,371,449	0	2,371,449
May	2021	2,176,156	0	2,176,156	155,216	162,788	2,494,160	0	2,494,160
June	2021	2,497,503	0	2,497,503	177,122	191,048	2,865,673	0	2,865,673
July	2021	2,805,609	0	2,805,609	192,549	217,696	3,215,855	0	3,215,855
August	2021	2,685,556	0	2,685,556	179,313	203,085	3,067,954	0	3,067,954
September	2021	2,399,808	0	2,399,808	162,490	181,241	2,743,540	0	2,743,540
October	2021	2,260,709	0	2,260,709	162,751	165,615	2,589,075	0	2,589,075
November	2021	2,215,353	0	2,215,353	170,154	162,903	2,548,410	0	2,548,410
December	2021	2,414,470	0	2,414,470	194,914	183,052	2,792,436	0	2,792,436
<b>Total Sales</b>		28,309,274	0	28,309,274	2,122,093	2,142,900	32,574,268	0	32,574,268
<b>Percent Losses (*)</b>		8.17%	0.00%	8.17%	6.02%	4.89%	8.17%	0.00%	8.17%
<b>Losses</b>		2,516,967	0	2,516,967	135,826	110,061	2,762,854	0	2,762,854
<b>Energy (Total Sales Plus Losses)</b>		<b>30,826,242</b>	<b>0</b>	<b>30,826,242</b>	<b>2,257,919</b>	<b>2,252,961</b>	<b>35,337,122</b>	<b>0</b>	<b>35,337,122</b>

**Calculation of Energy Allocator - E10**

**Method of Applying TLM's**

	Total Energy Less Co. Use	TLM's	Total Energy Less Co Use Adjusted for Transm. Losses	Energy Allocator (1)
MN	30,826,242	0.9458	29,155,459	86.8458%
ND	2,257,919	0.9660	2,181,150	6.4970%
SD	2,252,961	0.9920	2,234,937	6.6572%
WHSL	0	0.0000	0	0.0000%
	35,337,122		33,571,546	100.0000%

**Notes:**

\* Percent Losses are a 5 year average of losses based on 2017 through 2021

**XCEL (Minnesota Co) Electric Utility - Demand Allocations- WEATHER NORMALIZED**

**Weather Normalized Actual kW**

	<u>January</u>	<u>February</u>	<u>March</u>	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>	<u>Total kW</u>	<u>Allocation Factors</u>
<u>Production</u>														
Minnesota	4,342,092	4,334,184	4,004,020	3,861,528	5,225,999	6,424,525	6,451,852	6,400,069	5,840,308	4,398,941	4,172,556	4,462,890	59,918,964	87.2981%
North Dakota	368,958	377,117	335,449	278,839	343,307	387,272	418,112	401,524	363,580	311,568	328,670	354,754	4,269,151	6.2199%
South Dakota	316,628	316,307	292,287	293,030	368,640	467,970	504,397	489,625	423,720	358,313	297,940	320,227	4,449,082	6.4820%
NSP-MN Total Retail	5,027,679	5,027,607	4,631,755	4,433,397	5,937,947	7,279,767	7,374,361	7,291,218	6,627,608	5,068,822	4,799,166	5,137,872	68,637,197	100.0000%
NSP-MN Total Wholesale	0	0	0	0	0	0	0	0	0	0	0	0	0	0.0000%
<b>TOTAL</b>	<b>5,027,679</b>	<b>5,027,607</b>	<b>4,631,755</b>	<b>4,433,397</b>	<b>5,937,947</b>	<b>7,279,767</b>	<b>7,374,361</b>	<b>7,291,218</b>	<b>6,627,608</b>	<b>5,068,822</b>	<b>4,799,166</b>	<b>5,137,872</b>	<b>68,637,197</b>	<b>100.0000%</b>

2021 Wholesale municipals included the following:  
 None  
 Source of Transmission Loss Multipliers: newTLM21.xlsx  
**Includes** Company Use

	<u>Transmissi on Loss Multipliers</u>	<u>HSDS Demand</u>	<u>Production</u>
Minnesota	0.9486	56,839,129	86.9632%
North Dakota	0.9624	4,108,631	6.2862%
South Dakota	0.9917	4,412,155	6.7506%
Retail		<b>65,359,915</b>	<b>100.0000%</b>
Wholesale		0	0.0000%
<b>Total</b>		<b>65,359,915</b>	<b>100.0000%</b>