

STATION (*Climatological*)
 Rosemount Research and Outreach Center (River Station, if different)
 STATE MN COUNTY Dakota RIVER
 TIME (local) OF OBSERVATION 08:00 TEMPERATURE 08:00 PRECIPITATION 08:00 STANDARD TIME IN USE
 TYPE OF RIVER GAGE ELEVATION OF RIVER GAGE ZERO FLOOD STAGE NORMAL POOL STAGE

MONTH Jan 2015
 WS FORM B-91 (03-09)
 U.S. DEPARTMENT OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 NATIONAL WEATHER SERVICE
RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS

DATE	TEMPERATURE		AT OBSN	24 HR AMOUNTS			PRECIPITATION											WEATHER (Observation Day)						RIVER STAGE			REMARKS (SPECIAL OBSERVATIONS, ETC.)																			
	MAX	MIN		Rain, melted etc. (inches)	Snow, ice pellets, hail (ins. and tenths)	AT OB Snow, ice pellets, hail ice on ground (in)	Draw a straight line (—) through hours precipitation was observed, and a wavy line (~~~~) through hours precipitation probably occurred unobserved											Mark 'X' for all types occurring each day						Condition	Gage reading at __ AM	Tendency																				
							A.M.			NOON			P.M.					Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds					Time of occurrence if different from above																		
	1	2		3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11																							
1	16	-7	M	M	M	M																																								
2	32	3	M	M	M	M																																								
3	27	3	M	M	M	M																																								
4	33	0	M	M	M	M																																								
5	2	-14	M	0.01	M	2																						8-day precip total. Snow accumulation was blown																		
6	0	-15	-6	0.05	0.5	3																																								
7	10	-9	-9	0.00	0.0	3																																								
8	4	-9	4	T	T	3																						1" snow had blown onto board -- not counted																		
9	16	-4	-4	0.07	2.3	4																						Snowfall of 2.3 includes some drifting from prev																		
10	7	-8	M	0.00	0.0	4																																								
11	21	-5	M	0.00	0.0	4																																								
12	16	-3	-2	0.00	0.0	4	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11																		
13	6	-15	-9	0.00	0.0	4																																								
14	17	-15	17	0.01	0.5	5																							1.6" snowfall reported is questionable -- may in																	
15	24	15	18	0.00	0.0	5																																								
16	36	14	26	0.00	0.0	4																																								
17	31	23	M	0.00	0.0	M																																								
18	38	23	M	0.00	0.0	M																																								
19	41	19	M	0.00	0.0	M																																								
20	37	23	28	0.00	0.0	T																																								
21	30	26	26	0.08	1.4	1																																								
22	28	22	22	0.00	0.0	1	1	2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10	11																		
23	29	18	29	0.00	0.0	1																																								
24	40	27	M	M	M	M																																								
25	42	24	M	M	M																																									
26	28	19	28	0.03	T	T																																								
27	46	28	31	0.00	0.0	T																																								
28	32	27	28	0.00	0.0	T																																								
29	33	26	30	0.00	0.0	T																																								
30	33	9	11	0.00	0.0	T																																								
31	27	9	M	M	M	M																																								
	25.2	8.2	SUM	0.25	4.7		CHECK BAR (for wire weight) NORMAL CHECK BAR																																							

CONDITION OF RIVER AT GAGE
 A. Obstructed by rough ice E. Ice gorge below gage
 B. Frozen, but open at gage F. Shore ice
 C. Upper surface smooth ice G. Floating ice
 D. Ice gorge above gage H. Pool stage

READING DATE OBSERVER

SUPERVISING OFFICE: MPX Twin Cities/Chanhasen STATION INDEX NO.: 21-7107-09

STATE **MN**

COUNTY **Dakota**

RIVER

TIME (local) OF OBSERVATION

TEMPERATURE **08:00**

PRECIPITATION **08:00**

STANDARD TIME IN USE

RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS

TYPE OF RIVER GAGE

ELEVATION OF RIVER GAGE ZERO

FLOOD STAGE

NORMAL POOL STAGE

Table with columns for DATE, TEMPERATURE (MAX, MIN, AT OBSN), PRECIPITATION (24 HR AMOUNTS, AT OB), WEATHER (Fog, Ice pellets, Glaze, Thunder, Hail, Damaging winds), RIVER STAGE (Condition, Gage reading, Tendency), and REMARKS.

SUMMARY row with values: 59.4, 37.0, SUM, 2.01, CHECK BAR (for wire weight) NORMAL CHECK BAR

CONDITION OF RIVER AT GAGE with legend: A. Obstructed by rough ice, B. Frozen, but open at gage, C. Upper surface smooth ice, D. Ice gorge above gage, E. Ice gorge below gage, F. Shore ice, G. Floating ice, H. Pool stage

Fog Ice pel Glaze Thund Hail Dam winds

OBSERVER

SUPERVISING OFFICE MPX Twin Cities/Chanhassen

STATION INDEX NO. 21-7107-09

STATE MN	COUNTY Dakota	RIVER
TIME (local) OF OBSERVATION	TEMPERATURE 08:00	PRECIPITATION 08:00
TYPE OF RIVER GAGE	ELEVATION OF RIVER GAGE ZERO	FLOOD STAGE
		NORMAL POOL STAGE

RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS

DATE	TEMPERATURE			PRECIPITATION		WEATHER (Observation Day)						RIVER STAGE			REMARKS (SPECIAL OBSERVATIONS, ETC.)		
	24 HRS ENDING AT OBSERVATION		AT OBSN	24 HR AMOUNTS Rain, melted snow, etc. (in and hundredths)	AT OB Snow, ice pellets, hail (ins. and tenths)	Mark 'X' for all types occurring each day						Time of occurrence if different from above	Condition	Gage reading at ___ AM		Tendency	
	MAX	MIN				Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds						
				Draw a straight line (-----) through hours precipitation was observed, and a wavy line (~~~~~) through hours precipitation probably occurred unobserved													
				A.M. NOON P.M.													
1	75	55	56	0.00													
2	68	52	59	0.00													
3	75	55	M	M													
4	77	60	M	M													
5	83	62	M	M													
6	84	66	70	4.00													
7	72	52	56	0.80													
8	69	54	58	0.00													
9	71	55	65	0.00													
10	79	59	66	T													
11	83	64	M	M													
12	79	67	M	M													
13	88	64	69	1.39													
14	85	67	71	0.00													
15	83	59	65	0.00													
16	80	61	68	0.00													
17	69	63		0.22													
18	87	66	M	M													
19	86	59	M	M													
20	81	64	71	0.60													
21	79	59	65	0.00													
22	80	60	66	0.00													
23	80	61	70	0.00													
24	82	65	70	0.34													
25	85	66	M	M													
26	84	68	M	M													
27	85	68	70	0.00													
28	84	70	71	1.30													
29	83	62	68	T													
30	81	60	72	0.00													
31	84	60	67	0.00													

80.0	61.4	SUM	8.65	CHECK BAR (for wire weight) NORMAL CHECK BAR		Fog	Ice pel	Glaze	Thund	Hail	Dam winds			
CONDITION OF RIVER AT GAGE		READING	DATE	OBSERVER		SUPERVISING OFFICE MPX Twin Cities/Chanhassen						STATION INDEX NO. 21-7107-09		
A. Obstructed by rough ice B. Frozen, but open at gage C. Upper surface smooth ice D. Ice gorge above gage E. Ice gorge below gage F. Shore ice G. Floating ice H. Pool stage														

STATION (Climatological) *(River Station, if different)*
Rosemount Research and Outreach Center
 STATE **MN** COUNTY **Dakota** RIVER _____
 MONTH **Aug** **2015**
 TIME (local) OF OBSERVATION RIVER _____ TEMPERATURE **08:00** PRECIPITATION **08:00** STANDARD TIME IN USE _____
 TYPE OF RIVER GAGE _____ ELEVATION OF RIVER GAGE ZERO _____ FLOOD STAGE _____ NORMAL POOL STAGE _____

WS FORM B-91
 (03-09)
 U.S. DEPARTMENT OF COMMERCE
 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
 NATIONAL WEATHER SERVICE
RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS

DATE	TEMPERATURE			PRECIPITATION			WEATHER (Observation Day)							RIVER STAGE		REMARKS <i>(SPECIAL OBSERVATIONS, ETC.)</i>											
	24 HRS ENDING AT OBSERVATION		AT OBSN	24 HR AMOUNTS		AT OB	Mark 'X' for all types occurring each day							Gage reading at ___ AM	Tendency												
	MAX	MIN		Rain, melted snow, etc. (in and hundredths)	Snow, ice pellets, hail (ins. and tenths)		1	2	3	4	5	6	7				8	9	10	11							
1	81	61	M	0.00																							
2	83	65	M	0.00																							
3	84	56	64	0.00																							
4	78	53	61	0.00																							
5	81	56	62	0.00																							
6	80	59	65	0.00																							
7	73	62	69	1.52																							
8	80	63	M	M																							
9	78	65	M	M																							
10	79	65	67	T																	3-day precip total						
11	80	60	64	0.00																							
12	80	59	64	0.00																							
13	82	63	74	0.10																							
14	83	67	71	0.00																							
15	90	68	M	M																							
16	87	68	M	M																							
17	80	62	62	0.60																	3-day precip total						
18	71	61	63	T																							
19	67	55	56	1.00																							
20	63	52	57	0.10																							
21	73	54	61	0.00																							
22	79	49	M	M																							
23	80	54	M	M																							
24	67	52	57	1.63																	3-day precip total						
25	65	42	55	0.00																							
26	72	49	57	0.00																							
27	74	53	M	M																							
28	74	58	M	M																							
29	73	54	M	M																							
30	73	56	M	M																							
31	79	61	M	M																							
	77.1	58.1	SUM	4.95			CHECK BAR (for wire weight) NORMAL CHECK BAR																				
CONDITION OF RIVER AT GAGE		READING		DATE		Fog		Ice pellets		Glaze		Thunder		Hail		Damaging winds											
A. Obstructed by rough ice B. Frozen, but open at gage C. Upper surface smooth ice D. Ice gorge above gage		E. Ice gorge below gage F. Shore ice G. Floating ice H. Pool stage				OBSERVER														SUPERVISING OFFICE MPX Twin Cities/Chanhausen		STATION INDEX NO. 21-7107-09					

STATION (Climatological) Rosemount Research and Outreach Center		(River Station, if different)		MONTH	Sep	2015
STATE MN		COUNTY Dakota		RIVER		
TIME (local) OF OBSERVATION		TEMPERATURE	PRECIPITATION	STANDARD TIME IN USE		
		08:00	08:00			
TYPE OF RIVER GAGE	ELEVATION OF RIVER GAGE ZERO	FLOOD STAGE	NORMAL POOL STAGE			

WS FORM B-91 (03-09)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS

DATE	TEMPERATURE			PRECIPITATION			WEATHER (Observation Day)						RIVER STAGE			REMARKS (SPECIAL OBSERVATIONS, ETC.)		
	24 HRS ENDING AT OBSERVATION		AT OBSN	24 HR AMOUNTS		AT OB	Mark 'X' for all types occurring each day						Condition	Gage reading at __ AM	Tendency			
	MAX	MIN		Rain, melted snow, etc. (in and hundredths)	Snow, ice pellets, hail (ins and tenths)		Draw a straight line (-----) through hours precipitation was observed, and a wavy line (~~~~~) through hours precipitation probably occurred unobserved											
				A.M.	NOON	P.M.	Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds	Time of occurrence if different from above					
			1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11													
1	83	66	M	M	0.0	0												
2	84	57	69	0.43	0.0	0												7-day precip total
3	78	57	68	0.01	0.0	0												
4	83	61	70	0.00	0.0	0												
5	87	64	M	M	0.0	0												
6	87	64	M	M	0.0	0												
7	80	63	M	M	0.0	0												
8	80	63	65	0.92	0.0	0												4-day precip total
9	78	52	56	0.00	0.0	0												
10	70	54	60	0.15	0.0	0												
11	69	48	50	0.00	0.0	0												
12	63	45	M	0.00	0.0	0	1	2	3	4	5	6	7	8	9	10	11	
13	68	45	M	0.00	0.0	0												
14	74	48	58	0.00	0.0	0												
15	83	58	66	0.00	0.0	0												
16	86	63	65	0.10	0.0	0												
17	83	64	70	0.82	0.0	0												
18	77	53	54	1.57	0.0	0												
19	58	46	M	M														
20	69	47	M	M														
21	71	49	M	0.27														
22	80	55	64	0.00			1	2	3	4	5	6	7	8	9	10	11	
23	72	62	63	0.01														
24	77	61	61	0.59														
25	65	61	62	0.09														
26	78	56	M	M														
27	78	56	M	M														
28	82	57	66	0.00														
29	73	47	47	0.00														
30	62	40	47	0.00														
31																		
	75.9	55.4	SUM	4.96														

CONDITION OF RIVER AT GAGE	READING	DATE	Fog	Ice pel	Glaze	Thund	Hail	Dam winds	OBSERVER		
A. Obstructed by rough ice B. Frozen, but open at gage C. Upper surface smooth ice D. Ice gorge above gage											
E. Ice gorge below gage F. Shore ice G. Floating ice H. Pool stage											
								SUPERVISING OFFICE MPX Twin Cities/Chanhassen		STATION INDEX NO. 21-7107-09	

STATE **MN** COUNTY **Dakota** RIVER

TIME (local) OF OBSERVATION RIVER TEMPERATURE **08:00** PRECIPITATION **08:00** STANDARD TIME IN USE

RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS

TYPE OF RIVER GAGE ELEVATION OF RIVER GAGE ZERO FLOOD STAGE NORMAL POOL STAGE

DATE	TEMPERATURE			PRECIPITATION														WEATHER (Observation Day)						RIVER STAGE			REMARKS (SPECIAL OBSERVATIONS, ETC.)											
	24 HRS ENDING AT OBSERVATION		AT OBSN	24 HR AMOUNTS		AT OB <i>Draw a straight line (-----) through hours precipitation was observed, and a wavy line (~~~~~) through hours precipitation probably occurred unobserved</i>	A.M.			NOON			P.M.			Mark 'X' for all types occurring each day						Time of occurrence if different from above	Condition	Gage reading at ___ AM	Tendency													
	MAX	MIN		Rain, melted snow, etc. (in and hundredths)	Snow, ice pellets, hail (ins. and tenths)		1	2	3	4	5	6	7	8	9	10	11	1	2	3	4					5		6	7	8	9	10	11	Fog	Ice pellets	Glaze	Thunder	Hail
					1		2	3	4	5	6	7	8	9	10	11	1	2	3	4	5	6	7	8	9	10		11										
1	49	37	M	M																																		
2	55	37	52	0.41																																	3-day precipitation accumulation	
3	67	43	48	0.00																																		
4	70	44	55	0.00																																		
5	61	53	58	0.00																																		
6	65	40	42	0.12																																		
7	49	32	M	M																																		
8	51	31	M	M																																		
9	59	38	43	0.00																																	3-day precip accumulation	
10	61	36	43	0.00																																		
11	59	36	41	0.00																																		
12	53	38	39	1.67																																		
13	44	30	M	M																																		
14	46	30	M	M																																		
15	57	33	M	M																																		
16	62	40	52	0.01																																	4-Day Precip Accumulation	
17	52	46	49	1.07																																		
18	57	48	53	0.84																																		
19	55	29	30	0.15																																		
20	34	23	24	0.00																																		
21	29	17	M	M																																		
22	29	16	M	M																																		
23	34	18	31	0.00																																	3-day precip accumulation	
24	47	27	33	0.00																																		
25	45	27	M	0.00																																		
26	50	35	M	M	M																																	
27	35	19	M	M	M																																	
28	27	8	M	M	M																																	
29	30	8	M	M	M																																	
30	32	22	30	0.20	3.0																																5-Day Precip Accumulation	
31																																						

48.8 31.4 SUM 4.47 3.0

CONDITION OF RIVER AT GAGE

A. Obstructed by rough ice B. Frozen, but open at gage C. Upper surface smooth ice D. Ice gorge above gage

E. Ice gorge below gage F. Shore ice G. Floating ice H. Pool stage

CHECK BAR (for wire weight) NORMAL CHECK BAR

READING DATE

Fog Ice pel Glaze Thund Hail Dam winds

OBSERVER

SUPERVISING OFFICE MPX Twin Cities/Chanhassen

STATION INDEX NO. 21-7107-09

Table with observation details: STATE MN, COUNTY Dakota, RIVER, TIME (local) OF OBSERVATION 08:00, TEMPERATURE 08:00, PRECIPITATION 08:00, STANDARD TIME IN USE, TYPE OF RIVER GAGE, ELEVATION OF RIVER GAGE ZERO, FLOOD STAGE, NORMAL POOL STAGE.

RECORD OF RIVER AND CLIMATOLOGICAL OBSERVATIONS

Main observation table with columns for DATE, TEMPERATURE (MAX, MIN, AT OBSN), PRECIPITATION (24 HR AMOUNTS, AT OB), WEATHER (Fog, Ice pellets, Glaze, Thunder, Hail, Damaging winds), RIVER STAGE (Condition, Gage reading at AM, Tendency), and REMARKS.

Summary and condition table: Includes SUM values (34.6, 23.6, 2.28, 1.0), CHECK BAR, and CONDITION OF RIVER AT GAGE with a legend (A-H).

Observer and office information: Includes FOG, Ice pel, Glaze, Thund, Hail, Dam winds, OBSERVER, SUPERVISING OFFICE (MPX Twin Cities/Chanhassen), and STATION INDEX NO. (21-7107-09).