STATION (Climatological)	(River Station, if different)	MONTH	
Rosemount Research and Outreach Center		Jan	2020

STATE	COUNTY	RIVER
MN	Dakota	

TIME (local) OF OBSERVATION RIVER	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 24 HRS ENDING AT OBSERVATION MAX	MIN	AT OBSN	PRECIPITATION 24 HR AMOUNTS Rain, melted snow, etc. (in and hundredths)	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 A.M. 1 2 3 4 5 6 7 8 9 10 11	NOON P.M. 1 2 3 4 5 6 7 8 9 10 11	WEATHER (Observation Day) Mark 'X' for all types occurring each day Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds	Time of occurrence if different from above	RIVER STAGE Condition	Gage reading at ___ AM	Tendency	REMARKS (SPECIAL OBSERVATIONS, ETC.)
1	20	6	M	M	M	M													
2	34	16	33	1.30	4.0	5													13-day precip and snowfall total
3	35	29	29	0.00	0.0	5													
4	36	21	M	0.00	0.0	M													
5	29	22	M	0.00	0.0	M													
6	36	17	19	0.00	0.0	4													
7	32	18	18	0.00	0.0	3													
8	27	-3	-2	0.00	0.0	3													
9	24	-2	24	0.00	0.0	3													
10	36	18	18	0.00	0.0	3													
11	21	-2	M	M	M	M													
12	14	-2	M	M	M	M	1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11											
13	18	5	12	0.09	1.0	3													3-day precip and snowfall total
14	31	12	30	0.38	3.0	5													
15	30	10	15	0.00	0.0	5													
16	22	-10	-10	T	0.0	5													
17	6	-10	6	0.00	0.0	5													
18	24	6	M	M	M	M													
19	25	-2	M	M	M	M													
20	10	-3	M	M	M	M													
21	14	-8	-2	0.32	M	M													4-day precip total. Snow totals are way off due
22	32	-2	32	0.00	0.0	6	1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11											
23	35	28	28	0.16	1.7	7													
24	31	27	27	0.05	0.5	7													
25	31	27	M	M	M	M													
26	31	23	M	M	M	M													
27	27	22	22	T	T	6													
28	25	17	17	0.00	0.0	6													
29	20	15	16	0.00	0.0	6													
30	20	16	16	0.00	0.0	6													
31	26	16	25	T	0.0	6													
	25.9	10.5	SUM	2.30	10.2				Fog	Ice pel	Glaze	Thund	Hail	Dam winds					

CHECK BAR (for wire weight) **NORMAL CHECK BAR**

READING	DATE

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

OBSERVER

SUPERVISING OFFICE
MPX Twin Cities/Chanhassen

STATION INDEX NO.
21-7107-09

STATION (Climatological)	(River Station, if different)	MONTH	
Rosemount Research and Outreach Center		Feb	2020

STATE	COUNTY	RIVER
MN	Dakota	

TIME (local) OF OBSERVATION RIVER	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 24 HRS ENDING AT OBSERVATION MAX	MIN	AT OBSN	PRECIPITATION 24 HR AMOUNTS Rain, melted snow, etc. (in and hundredths)	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 A.M. 1 2 3 4 5 6 7 8 9 10 11	NOON P.M. 1 2 3 4 5 6 7 8 9 10 11	WEATHER (Observation Day) Mark 'X' for all types occurring each day Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds	Time of occurrence if different from above	RIVER STAGE Condition	Gage reading at ___ AM	Tendency	REMARKS (SPECIAL OBSERVATIONS, ETC.)
1	32	18	M	0.00	0.0	M													
2	43	19	M	0.00	0.0	M													
3	42	25	25	0.00	0.0	2													
4	31	8	9	0.00	0.0	2													
5	23	4	8	0.00	0.0	2													
6	25	5	5	0.00	0.0	1													
7	29	5	19	0.04	0.3	1													
8	29	-8	M	M	M	M													
9	16	-7	M	M	M	M													
10	26	-5	4	0.33	4.5	5													3-day precip and snowfall total
11	27	4	21	0.00	0.0	5													
12	30	14	27	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	33	-12	-12	T	0.0	4													
14	0	-18	-14	0.00	0.0	4													
15	21	-15	M	0.00	0.0	M													
16	34	11	M	0.00	0.0	M													
17	24	13	24	0.00	0.0	2													
18	35	15	16	0.23	2.5	4													
19	20	-2	-2	0.00	0.0	4													
20	13	-16	-14	0.00	0.0	4													
21	16	-15	16	0.00	0.0	2													
22	34	9	M	0.00	0.0	M	1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11											
23	38	16	M	0.00	0.0	M													
24	41	17	21	0.00	0.0	1													
25	42	21	M	M	M	M													
26	37	17	M	M	M	M													
27	29	10	M	M	M	M													
28	24	12	M	M	M	M													
29	26	6	M	M	M	M													
30																			
31																			
	28.3	5.2	SUM	0.60	7.3				Fog	Ice pel	Glaze	Thund	Hail	Dam winds					

CHECK BAR (for wire weight) **NORMAL CHECK BAR**

READING	DATE

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

OBSERVER

SUPERVISING OFFICE
MPX Twin Cities/Chanhassen

STATION INDEX NO.
21-7107-09

STATION (Climatological)	(River Station, if different)	MONTH	
Rosemount Research and Outreach Center		Mar	2020

STATE	COUNTY	RIVER
MN	Dakota	

TIME (local) OF OBSERVATION RIVER	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 24 HRS ENDING AT OBSERVATION MAX	MIN	AT OBSN	PRECIPITATION 24 HR AMOUNTS Rain, melted snow, etc. (in and hundredths)	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 A.M. 1 2 3 4 5 6 7 8 9 10 11	NOON P.M. 1 2 3 4 5 6 7 8 9 10 11	WEATHER (Observation Day) Mark 'X' for all types occurring each day Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds	Time of occurrence if different from above	RIVER STAGE Condition	Gage reading at ___ AM	Tendency	REMARKS (SPECIAL OBSERVATIONS, ETC.)
1	37	16	M	0.00	0.0	M													
2	43	28	M	0.00	0.0	M													
3	33	27	M	0.00	0.0	M													
4	39	20	24	0.00	0.0	M													
5	40	24	36	0.00	0.0	M													
6	36	21	23	0.00	0.0	M													
7	36	21	M	0.00	0.0	M													
8	36	23	M	0.00	0.0	M													
9	48	34	34	0.00	0.0	0													
10	54	22	23	0.00	0.0	0													
11	39	23	31	0.26	1.5	2													
12	40	31	38	0.00	0.0	0	1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11											
13	42	25	26	0.00	0.0	0													
14	36	22	M	0.00	0.0	0													
15	33	19	M	0.00	0.0	0													
16	39	20	31	0.00	0.0	0													
17	37	25	27	0.00	0.0	0													
18	42	26	35	0.00	0.0	0													
19	42	35	37	T	0.0	0													
20	39	20	20	0.62	0.0	0													
21	33	18	M	0.00	0.0	0													
22	35	19	M	M	M	M	1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11											
23	42	31	32	0.11	M	M													2-day precip total
24	44	32	37	0.00	0.0	0													
25	49	37	41	T	0.0	0													
26	46	29	30	0.37	0.0	0													
27	50	30	36	0.00	0.0	0													
28	M	M	M	M	0.0	0													Missing data due to staff working off-site
29	M	M	M	M	M	0													
30	M	M	M	M	0.0	0													
31	M	M	M	0.00	0.0	0													
	40.4	25.1	SUM	1.36	1.5														

CHECK BAR (for wire weight) NORMAL CHECK BAR		Fog	Ice pel	Glaze	Thund	Hail	Dam winds
READING	DATE						

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

OBSERVER
Closed by WFO MPX (wfompx) on 22 May 2020 03:03PM

SUPERVISING OFFICE
MPX Twin Cities/Chanhassen

STATION INDEX NO.
21-7107-09

STATION (Climatological)	(River Station, if different)	MONTH	
Rosemount Research and Outreach Center		Apr	2020

STATE	COUNTY	RIVER
MN	Dakota	

TIME (local) OF OBSERVATION RIVER	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: 24 HRS ENDING AT OBSERVATION MAX	MIN	AT OBSN	PRECIPITATION: 24 HR AMOUNTS: Rain, melted snow, etc. (in and hundredths)	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 — A.M. 1 2 3 4 5 6 7 8 9 10 11	NOON 1 2 3 4 5 6 7 8 9 10 11 (P.M.)	WEATHER (Observation Day) Mark 'X' for all types occurring each day: Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds	Time of occurrence if different from above	RIVER STAGE: Condition	Gage reading at ___ AM	Tendency	REMARKS (SPECIAL OBSERVATIONS, ETC.)
1	M	M	M	M																Data missing due to no observers on site
2	M	M	M	M																
3	M	M	M	M																
4	M	M	M	M																
5	M	M	M	M																
6	M	M	M	M																
7	M	M	M	M																
8	M	M	M	M																
9	M	M	M	M																
10	M	M	M	M																
11	M	M	M	M																
12	M	M	M	M			1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11												
13	M	M	M	M																
14	M	M	M	M																
15	M	M	M	M																
16	M	M	M	M																
17	M	M	M	M																
18	M	M	M	M																
19	M	M	M	M																
20	M	M	M	M																
21	M	M	M	M																
22	M	M	M	M			1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11												
23	66	34	M	M																
24	60	37	M	M																
25	66	38	M	M																
26	69	42	M	M																
27	68	46	M	M																
28	74	46	M	M																
29	53	40	M	M																
30	60	42	M	M																
31																				
	64.5	40.6	SUM																	

CHECK BAR (for wire weight) **NORMAL CHECK BAR**

READING	DATE

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

OBSERVER

SUPERVISING OFFICE
MPX Twin Cities/Chanhassen

STATION INDEX NO.
21-7107-09

STATION (Climatological)	(River Station, if different)	MONTH	
Rosemount Research and Outreach Center		May	2020

STATE	COUNTY	RIVER
MN	Dakota	

TIME (local) OF OBSERVATION RIVER	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 24 HRS ENDING AT OBSERVATION MAX	MIN	AT OBSN	PRECIPITATION 24 HR AMOUNTS Rain, melted snow, etc. (in and hundredths)	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 — A.M. 1 2 3 4 5 6 7 8 9 10 11	NOON P.M. 1 2 3 4 5 6 7 8 9 10 11	WEATHER (Observation Day) Mark 'X' for all types occurring each day: Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds	Time of occurrence if different from above	RIVER STAGE Condition	Gage reading at ___ AM	Tendency	REMARKS (SPECIAL OBSERVATIONS, ETC.)
1	67	47	M	M															Precipitation data missing due to no observers o
2	76	50	M	M															
3	75	43	M	M															
4	67	38	M	M															
5	59	42	M	M															
6	58	40	M	M															
7	65	40	M	M															
8	59	34	M	M															
9	48	25	M	M															
10	62	37	M	M															
11	47	37	M	M															
12	55	29	M	M			1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11											
13	57	40	M	M															
14	62	50	M	M															
15	72	44	M	M															
16	70	50	M	M															
17	65	47	M	M															
18	53	48	M	M															
19	62	52	M	M															
20	70	53	M	M															
21	77	54	M	M															
22	65	56	M	M			1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11											
23	65	58	M	M															
24	70	56	M	M															
25	77	60	M	M															
26	78	64	66	M															
27	83	64	M	M															
28	73	59	64	2.25															2-day precip total
29	77	53	M	0.00															
30	64	48	M	0.00															
31	67	43	M	0.00															
	66.0	47.1	SUM	2.25															

CHECK BAR (for wire weight) **NORMAL CHECK BAR**

READING	DATE

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

Fog	Ice pel	Glaze	Thund	Hail	Dam winds

OBSERVER

SUPERVISING OFFICE
MPX Twin Cities/Chanhassen

STATION INDEX NO.
21-7107-09

STATION (Climatological)	(River Station, if different)	MONTH	
Rosemount Research and Outreach Center		Jun	2020

STATE	COUNTY	RIVER
MN	Dakota	

TIME (local) OF OBSERVATION RIVER	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 24 HRS ENDING AT OBSERVATION MAX	MIN	AT OBSN	PRECIPITATION 24 HR AMOUNTS Rain, melted snow, etc. (in and hundredths)	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 — A.M. 1 2 3 4 5 6 7 8 9 10 11	NOON P.M. 1 2 3 4 5 6 7 8 9 10 11	WEATHER (Observation Day) Mark 'X' for all types occurring each day: Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds	Time of occurrence if different from above	RIVER STAGE Condition	Gage reading at ___ AM	Tendency	REMARKS (SPECIAL OBSERVATIONS, ETC.)
1	78	54	M	0.00															
2	90	63	77	0.00															
3	90	59	M	M															
4	82	56	65	1.08															
5	84	57	M	M															
6	81	55	M	M															
7	76	58	M	M															
8	85	64	77	1.10															
9	94	66	74	0.00															
10	83	58	M	M															
11	70	51	62	0.45															
12	77	57	M	M			1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11											
13	76	51	M	M															
14	69	53	M	M															
15	76	56	62	0.00															
16	88	62	M	M															
17	90	62	M	M															
18	89	67	71	0.00															
19	85	62	M	M															
20	75	62	M	M															
21	73	57	M	M															
22	83	60	62	1.93			1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11											
23	74	55	M	M															
24	75	54	M	M															
25	78	55	64	0.05															
26	84	63	68	0.03															
27	85	60	M	M															
28	85	60	M	M															
29	85	63	M	M															
30	78	65	74	4.33															
31																			
	81.3	58.8	SUM	8.97					Fog	Ice pel	Glaze	Thund	Hail	Dam winds					

CHECK BAR (for wire weight) **NORMAL CHECK BAR**

READING	DATE

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

OBSERVER

SUPERVISING OFFICE
MPX Twin Cities/Chanhassen

STATION INDEX NO.
21-7107-09

STATION (Climatological)	(River Station, if different)	MONTH	
Rosemount Research and Outreach Center		Jul	2020

STATE	COUNTY	RIVER
MN	Dakota	

TIME (local) OF OBSERVATION RIVER	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 24 HRS ENDING AT OBSERVATION MAX	MIN	AT OBSN	PRECIPITATION 24 HR AMOUNTS Rain, melted snow, etc. (in and hundredths)	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 — A.M. 1 2 3 4 5 6 7 8 9 10 11	NOON	P.M. 1 2 3 4 5 6 7 8 9 10 11	WEATHER (Observation Day) Mark 'X' for all types occurring each day: Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds	Time of occurrence if different from above	RIVER STAGE Condition	Gage reading at ___ AM	Tendency	REMARKS (SPECIAL OBSERVATIONS, ETC.)
1	88	69	M	M																
2	88	69	M	M																
3	89	65	M	M																
4	89	67	M	M																
5	91	68	M	M																
6	90	71	74	0.00																
7	86	66	72	0.00																
8	88	70	76	0.00																
9	91	73	73	0.08																
10	75	63	69	0.03																
11	83	63	M	M																
12	82	63	M	M																
13	83	57	70	0.06																
14	86	68	M	M																
15	76	52	M	M																
16	79	55	62	0.09																
17	83	61	M	M																
18	89	66	M	M																
19	90	66	M	M																
20	81	59	65	0.80																
21	80	65	M	M																
22	80	56	M	M																
23	67	51	62	0.33																
24	82	60	M	M																
25	90	71	M	M																
26	85	68	M	M																
27	84	59	67	0.77																
28	81	63	66	0.11																
29	83	58	M	M																
30	83	62	66	0.00																
31	80	55	M	M																
	83.9	63.2	SUM	2.27																

CHECK BAR (for wire weight) **NORMAL CHECK BAR**

READING	DATE

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

OBSERVER

SUPERVISING OFFICE
MPX Twin Cities/Chanhassen

STATION INDEX NO.
21-7107-09

STATION (Climatological)	(River Station, if different)	MONTH	
Rosemount Research and Outreach Center		Aug	2020

STATE	COUNTY	RIVER
MN	Dakota	

TIME (local) OF OBSERVATION RIVER	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: 24 HRS ENDING AT OBSERVATION MAX	MIN	AT OBSN	PRECIPITATION: 24 HR AMOUNTS: Rain, melted snow, etc. (in and hundredths)	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 — A.M. 1 2 3 4 5 6 7 8 9 10 11	NOON P.M. 1 2 3 4 5 6 7 8 9 10 11	WEATHER (Observation Day) Mark 'X' for all types occurring each day: Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds	Time of occurrence if different from above	RIVER STAGE: Condition	Gage reading at ___ AM	Tendency	REMARKS (SPECIAL OBSERVATIONS, ETC.)
1	82	58	M	0.00															
2	80	61	M	0.31															
3	70	51	59	0.00															
4	71	46	M	0.00															
5	75	50	M	0.00															
6	77	57	61	0.00															
7	79	60	M	M															
8	82	66	M	M															
9	83	63	M	M															
10	85	65	67	1.37															
11	76	54	M	M															
12	81	59	65	0.00															
13	75	62	M	M															
14	87	67	68	0.40															
15	83	56	M	M															
16	75	59	M	M															
17	83	62	64	0.67															
18	75	51	M	M															
19	80	55	M	M															
20	81	59	72	0.00															AT OBSN recorded at 9:15
21	82	63	M	M															
22	87	63	M	M															
23	85	63	M	M															
24	90	64	71	0.26															
25	88	68	M	M															
26	91	69	M	M															
27	89	69	73	0.03															
28	87	65	M	M															
29	80	58	M	M															
30	75	50	M	M															
31	78	52	58	0.94															
	81.0	59.5	SUM	3.98															

CHECK BAR (for wire weight) **NORMAL CHECK BAR**

READING	DATE

Fog	Ice pel	Glaze	Thund	Hail	Dam winds

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

OBSERVER

SUPERVISING OFFICE
MPX Twin Cities/Chanhassen

STATION INDEX NO.
21-7107-09

STATION (Climatological)	(River Station, if different)	MONTH	
Rosemount Research and Outreach Center		Sep	2020

STATE	COUNTY	RIVER
MN	Dakota	

TIME (local) OF OBSERVATION RIVER	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 24 HRS ENDING AT OBSERVATION MAX	MIN	AT OBSN	PRECIPITATION 24 HR AMOUNTS Rain, melted snow, etc. (in and hundredths)	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 — A.M. 1 2 3 4 5 6 7 8 9 10 11	NOON P.M. 1 2 3 4 5 6 7 8 9 10 11	WEATHER (Observation Day) Mark 'X' for all types occurring each day: Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds	Time of occurrence if different from above	RIVER STAGE Condition	Gage reading at ___ AM	Tendency	REMARKS (SPECIAL OBSERVATIONS, ETC.)
1	71	52	M	M															
2	69	52	M	M															
3	79	52	58	0.08															
4	68	47	M	M															
5	74	48	M	M															
6	77	50	M	M															
7	82	53	M	M															
8	55	44	44	0.62															
9	50	44	M	M															
10	48	34	40	0.13															
11	59	36	M	M															
12	57	44	M	M			1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11											
13	65	48	M	M															
14	71	52	55	0.16															
15	79	55	62	0.00															
16	79	57	59	0.00															
17	69	40	42	0.00															
18	58	33	40	0.00															
19	63	38	M	M															
20	71	44	M	M															
21	74	52	56	0.00															
22	78	56	M	M			1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11											
23	83	56	M	M															
24	85	57	59	0.06															
25	75	54	M	M															
26	85	56	M	M															
27	67	52	M	M															
28	66	48	49	0.05															
29	56	46	M	M															
30	64	43	M	M															
31																			
	69.2	48.1	SUM	1.10					Fog	Ice pel	Glaze	Thund	Hail	Dam winds					

CHECK BAR (for wire weight) **NORMAL CHECK BAR**

READING	DATE

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

OBSERVER

SUPERVISING OFFICE
MPX Twin Cities/Chanhassen

STATION INDEX NO.
21-7107-09

STATION (Climatological)	(River Station, if different)	MONTH	
Rosemount Research and Outreach Center		Oct	2020

STATE	COUNTY	RIVER
MN	Dakota	

TIME (local) OF OBSERVATION RIVER	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 24 HRS ENDING AT OBSERVATION MAX	MIN	AT OBSN	PRECIPITATION 24 HR AMOUNTS Rain, melted snow, etc. (in and hundredths)	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 A.M. 1 2 3 4 5 6 7 8 9 10 11	NOON P.M. 1 2 3 4 5 6 7 8 9 10 11	WEATHER (Observation Day) Mark 'X' for all types occurring each day Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds	Time of occurrence if different from above	RIVER STAGE Condition	Gage reading at ___ AM	Tendency	REMARKS (SPECIAL OBSERVATIONS, ETC.)
1	64	45	46	0.15															
2	54	33	M	M															
3	50	32	M	M															
4	51	27	M	M															
5	56	27	46	0.00															
6	70	45	M	M															
7	80	46	M	M															
8	70	35	37	0.00															
9	67	37	M	M															
10	80	49	M	M															
11	65	41	M	M															
12	71	45	M	M			1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11											
13	63	48	52	1.72															
14	61	43	M	M															
15	61	33	33	0.00															
16	49	28	M	M															
17	43	31	M	M															
18	55	29	M	M															
19	33	22	27	0.03															
20	32	27	M	M	M	M													
21	34	29	M	M	M	M													
22	34	27	32	0.85	5.0	5	1 2 3 4 5 6 7 8 9 10 11	1 2 3 4 5 6 7 8 9 10 11											
23	34	32	M	M	M	M													
24	35	19	M	M	M	M													
25	30	20	M	M	M	M													
26	27	23	24	0.26	0.3	3													
27	30	9	M	M	M	M													
28	31	9	M	M	M	M													
29	45	28	32	0.00	0.0	T													
30	35	27	M	M	M	M													
31	45	29	M	M	M	M													
	50.2	31.5	SUM	3.01	5.3		CHECK BAR (for wire weight) NORMAL CHECK BAR		Fog	Ice pel	Glaze	Thund	Hail	Dam winds					

CHECK BAR READING	DATE

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

OBSERVER

SUPERVISING OFFICE
MPX Twin Cities/Chanhassen

STATION INDEX NO.
21-7107-09

STATION (Climatological)	(River Station, if different)	MONTH	
Rosemount Research and Outreach Center		Nov	2020

STATE	COUNTY	RIVER
MN	Dakota	

TIME (local) OF OBSERVATION RIVER	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: 24 HRS ENDING AT OBSERVATION MAX	MIN	AT OBSN	PRECIPITATION: 24 HR AMOUNTS: Rain, melted snow, etc. (in and hundredths)	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 — A.M. 1 2 3 4 5 6 7 8 9 10 11	NOON P.M. 1 2 3 4 5 6 7 8 9 10 11	WEATHER (Observation Day) Mark 'X' for all types occurring each day: Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds	Time of occurrence if different from above	RIVER STAGE: Condition	Gage reading at ___ AM	Tendency	REMARKS (SPECIAL OBSERVATIONS, ETC.)
1	55	25	M	0.00	0.0	0													
2	37	23	33	0.00	0.0	0													
3	57	29	M	0.00	0.0	0													
4	75	38	M	0.00	0.0	0													
5	75	41	45	0.00	0.0	0													
6	66	45	M	0.00	0.0	0													
7	74	51	M	0.00	0.0	0													
8	73	53	M	0.00	0.0	0													
9	72	54	63	0.00	0.0	0													
10	64	29	M	M	M	M													
11	30	15	M	M	M	M													
12	34	18	M	M	M	M													
13	29	1	M	M	M	M													
14	34	7	M	M	M	M													
15	36	30	M	M	M	M													
16	33	19	M	M	M	M													
17	40	16	18	0.95	0.0	T													
18	35	17	M	0.00	0.0	M													
19	51	34	M	0.00	0.0	M													
20	55	34	35	0.00	0.0	0													
21	41	19	M	M	M	M													
22	39	20	M	M	M	M													
23	40	20	M	M	M	M													
24	38	20	M	M	M	M													
25	35	32	34	T	0.0	0													
26	34	30	M	M	M	M													
27	34	25	M	M	M	M													
28	35	25	M	M	M	M													
29	51	28	M	M	M	M													
30	36	17	M	M	M	M													
31																			
	46.9	27.2	SUM	0.95															

CHECK BAR (for wire weight) **NORMAL CHECK BAR**

READING	DATE

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

OBSERVER

SUPERVISING OFFICE
MPX Twin Cities/Chanhassen

STATION INDEX NO.
21-7107-09

STATION (Climatological)	(River Station, if different)	MONTH	
Rosemount Research and Outreach Center		Dec	2020

STATE	COUNTY	RIVER
MN	Dakota	

TIME (local) OF OBSERVATION RIVER	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: 24 HRS ENDING AT OBSERVATION MAX	MIN	AT OBSN	PRECIPITATION: 24 HR AMOUNTS: Rain, melted snow, etc. (in and hundredths)	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 — A.M. 1 2 3 4 5 6 7 8 9 10 11	NOON 1 2 3 4 5 6 7 8 9 10 11 (P.M.)	WEATHER (Observation Day) Mark 'X' for all types occurring each day: Fog	Ice pellets	Glaze	Thunder	Hail	Damaging winds	Time of occurrence if different from above	RIVER STAGE: Condition	Gage reading at ___ AM	Tendency	REMARKS (SPECIAL OBSERVATIONS, ETC.)
1	28	10	M	M	M	M													
2	39	11	M	M	M	M													
3	42	15	24	0.00	0.0	0													
4	40	24	M	M	M	M													
5	42	15	M	M	M	M													
6	41	16	M	M	M	M													
7	34	29	M	M	M	M													
8	31	28	M	M	M	M													
9	40	26	M	M	M	M													
10	50	27	M	M	M	M													
11	47	31	M	M	M	M													
12	36	25	M	M	M	M													
13	31	23	M	M	M	M													
14	26	13	M	M	M	M													
15	19	7	M	M	M	M													
16	24	11	M	M	M	M													
17	30	13	M	M	M	M													
18	29	16	M	M	M	M													
19	41	26	M	M	M	M													
20	26	14	M	M	M	M													
21	36	16	M	0.00	0.0	0													
22	38	18	M	M	M	M													
23	43	22	M	M	M	M													
24	44	-4	M	M	M	M													
25	6	-7	M	M	M	M													
26	17	-5	M	M	M	M													
27	21	12	M	M	M	M													
28	24	9	12	0.38	4.5	5													
29	23	-4	M	M	M	M													
30	23	5	M	M	M	M													
31	23	4	M	M	M	M													
	32.1	14.4	SUM	0.38	4.5														

CHECK BAR (for wire weight) **NORMAL CHECK BAR**

READING	DATE

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

OBSERVER

SUPERVISING OFFICE
MPX Twin Cities/Chanhassen

STATION INDEX NO.
21-7107-09