STATION (Climatological)	(River Station, if different)	MONTH	
Spirit Lake		Mar	2023

STATE	COUNTY	RIVER
IA	Dickinson	

TIME (local) OF OBSERVATION RIVER	TEMPERATURE	PRECIPITATION	STANDARD TIME IN USE
	07:00	07:00	

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	36	19	29	0.03	1.0	1														Snow
2	36	11	12	0.00	0.0	0														
3	35	12	18	0.00	0.0	0				X										
4	40	18	30	0.00	0.0	0														
5	39	28	M	0.00	0.0	0			– – – – – – – – –	X	X	X								Snow, sleet, freezing rain
6	36	30	31	0.08	T	T														
7	33	11	12	0.00	0.0	0														
8	34	12	M	T	T	0	~ ~ ~ – – –			X	X	X								Freezing drizzle, sleet, flurries
9	33	30	30	T	T	0	~ ~ ~ – – – – – –	– – – – – – – – – – ~		X	X	X								Freezing drizzle, sleet, flurries
10	34	25	25	0.31	4.1	1														Light snow
11	27	20	M	0.07	0.0	1		– – – –	– – – – – – – – –											
12	25	20	M	0.03	1.5	3	1 2 3 4 5 6 7 8 – 9 – 10 – 11 –		1 2 3 4 5 6 7 8 9 10 11											Snow showers
13	24	18	18	T	T	3														
14	23	13	16	0.00	0.0	3														
15	35	16	30	0.00	0.0	2														
16	47	30	33	0.00	0.0	0		– – – –	– – –											
17	36	10	10	0.08	T	0														Light rain; very light snow
18	16	8	8	0.00	0.0	0														
19	34	8	M	0.00	0.0	0														
20	46	19	19	0.00	0.0	0														
21	35	19	25	0.00	0.0	0		~ ~ ~												
22	48	25	29	0.03	0.0	0	1 2 3 4 5 6 7 8	9 – 10 ~ 11 ~	1 2 3 4 5 6 7 8											Light rain, sprinkles
23	39	22	22	0.01	T	T	~ ~ ~													Light snow
24	37	19	19	0.00	0.0	0														
25	40	19	M	0.00	0.0	0														
26	37	18	M	0.00	0.0	0														
27	34	18	18	0.00	0.0	0														
28	36	10	10	0.00	0.0	0			– –											
29	43	10	12	T	T	0					X									Flurries, ice pellets
30	34	12	24	0.00	0.0	0														
31	44	24	33	0.68	0.0	0	~ ~ ~ ~ ~ ~ –			X			X							Thunderstorms, fog, drizzle
	35.4	17.9	SUM	1.32	6.6		CHECK BAR (for wire weight) NORMAL CHECK BAR			Fog	Ice pel	Glaze	Thund	Hail	Dam winds					

CONDITION OF RIVER AT GAGE	READING	DATE

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
FSD Sioux Falls

STATION INDEX NO.
13-7859-01