STATION *(Climatological)* **Spirit Lake** *(River Station, if different)* | MONTH **Nov** | **2017**

STATE **IA** | COUNTY **Dickinson** | RIVER

TIME *(local)* OF OBSERVATION RIVER | TEMPERATURE **07:00** | PRECIPITATION **07:00** | 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: 24 HRS ENDING AT OBSERVATION MAX	TEMPERATURE: 24 HRS ENDING AT OBSERVATION MIN	TEMPERATURE: AT OBSN	PRECIPITATION: 24 HR AMOUNTS: Rain, melted snow, etc. *(in and hundredths)*	PRECIPITATION: 24 HR AMOUNTS: Snow, ice pellets, hail *(ins.and tenths)*	PRECIPITATION: AT OB: Snow, ice pellets, hail ice on ground *(in)*	PRECIPITATION: 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	35	19	30	0.00	0.0	0											
2	45	30	38	0.11	0.0	0	3 ~ 4 ~ 5 ~ 6 ~										Light rain
3	42	29	29	0.00	0.0	0											
4	39	28	36	0.00	0.0	0											
5	41	28	M	0.00	0.0	0											
6	36	22	22	0.00	0.0	0	4 – 5 –										
7	29	22	27	T	T	T	1 ~ 2 ~ 3 ~ 4 ~ 5 ~										
8	39	25	25	0.00	0.0	0											
9	46	17	17	0.00	0.0	0	8 – 9 – 10 –										
10	23	13	13	T	T	T											Snow showers
11	32	13	32	0.00	0.0	0											
12	44	30	M	0.00	0.0	0											
13	47	30	30	0.00	0.0	0	7 – 8 – 9 – 10 ~ 11 ~										
14	43	30	41	T	0.0	0	1 ~ 2 ~ 3 ~ 4 ~ 5 ~ 6 ~ 7 –		X								Occasional mist, drizzle
15	49	35	35	0.00	0.0	0			X								
16	36	19	20	0.00	0.0	0											
17	39	18	39	0.00	0.0	0	7 – 8 –		X								
18	50	28	28	T	0.0	0											Light rain/sprinkles
19	41	27	M	0.00	0.0	0											
20	47	29	33	0.00	0.0	0											
21	47	21	21	0.00	0.0	0											
22	31	13	14	0.00	0.0	0											
23	42	14	M	0.00	0.0	0											
24	54	30	43	0.00	0.0	0	4 – 5 –										
25	63	28	32	T	0.0	0											Sprinkles
26	48	29	M	0.00	0.0	0											
27	54	30	38	0.00	0.0	0											
28	60	38	40	0.00	0.0	0											
29	51	25	25	0.00	0.0	0											
30	46	22	32	0.00	0.0	0											
31																	
	43.3	24.7	SUM	0.11	T			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

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

READING	DATE

OBSERVER

SUPERVISING OFFICE
FSD Sioux Falls

STATION INDEX NO.
13-7859-01