STATION *(Climatological)* **Spirit Lake** *(River Station, if different)* | MONTH **Mar** | **2019**

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 | 14 | 7 | 14 | 0.00 | 0.0 | 26 | ——————————— | | | | | | | | | | |
| 2 | 22 | 4 | 4 | 0.05 | 1.3 | 27 | ——————————— | | | | | | | | | | Light snow |
| 3 | 11 | -6 | M | 0.00 | 0.0 | 27 | ——————————— | | | | | | | | | | |
| 4 | -1 | -7 | -6 | 0.00 | 0.0 | 27 | ——————————— | | | | | | | | | | |
| 5 | 5 | -6 | 1 | 0.00 | 0.0 | 27 | ——————————— | | | | | | | | | | |
| 6 | 14 | -2 | -2 | 0.00 | 0.0 | 27 | ——————————— | | | | | | | | | | |
| 7 | 21 | -2 | 5 | 0.00 | 0.0 | 27 | ——————————— | | | | | | | | | | |
| 8 | 22 | 5 | 19 | T | T | 27 | ——————————— | | | | | | | | | | Flurries |
| 9 | 32 | 17 | 31 | 0.00 | 0.0 | 26 | ——————————— | | | | | | | | | | |
| 10 | 33 | 29 | M | 1.11 | 2.3 | 24 | ~~~~~~———————~~ | X | X | X | | | | | | | Freezing rain, rain, snow |
| 11 | 29 | 18 | 21 | 0.00 | 0.0 | 24 | ——————————— | | | | | | | | | | |
| 12 | 36 | 21 | 32 | 0.00 | 0.0 | 21 | ———————————~~ | X | | | | | | | | | Light rain, fog, drizzle |
| 13 | 37 | 32 | 35 | 0.26 | 0.0 | 17 | ~~~~~~~————————— | X | | | | | | | | | Fog, drizzle |
| 14 | 43 | 35 | 37 | 1.33 | 0.0 | 4 | ————————— | | | | | | | | | | Rain |
| 15 | 37 | 25 | 25 | 0.31 | T | 2 | ——————————— | | | | | | | | | | Light rain; flurries |
| 16 | | | | | | | | | | | | | | | | | |
| 17 | | | | | | | | | | | | | | | | | |
| 18 | | | | | | | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | |
| 20 | | | | | | | | | | | | | | | | | |
| 21 | | | | | | | | | | | | | | | | | |
| 22 | | | | | | | | | | | | | | | | | |
| 23 | | | | | | | | | | | | | | | | | |
| 24 | | | | | | | | | | | | | | | | | |
| 25 | | | | | | | | | | | | | | | | | |
| 26 | | | | | | | | | | | | | | | | | |
| 27 | | | | | | | | | | | | | | | | | |
| 28 | | | | | | | | | | | | | | | | | |
| 29 | | | | | | | | | | | | | | | | | |
| 30 | | | | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | |
| | 23.7 | 11.3 | SUM | 3.06 | 3.6 | X | | | | | | | | X | X | X | |

**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 |
|---|---|
| | |
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| | |
| | |

OBSERVER

SUPERVISING OFFICE
**FSD Sioux Falls**

STATION INDEX NO.
**13-7859-01**