| STATION (Climatological) | (River Station, if different) | MONTH | |
|---|---|---|---|
| Spirit Lake | | Nov | 2021 |

| 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 | 47 | 28 | 28 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 2 | 42 | 24 | 24 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 3 | 42 | 24 | 32 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 4 | 46 | 32 | 34 | 0.00 | 0.0 | 0 | | | | X | | | | | | | | | | |
| 5 | 51 | 34 | 38 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 6 | 61 | 38 | 41 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 7 | 68 | 41 | 44 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 8 | 64 | 41 | M | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 9 | 57 | 39 | 39 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 10 | 54 | 39 | 41 | 0.00 | 0.0 | 0 | 8–11 | 1–11 ~ | | | | | | | | | | | | |
| 11 | 47 | 34 | 34 | 0.39 | 0.0 | 0 | 5–11 | 1–11 ~ | | X | | | | | | | | | | Occasional light rain |
| 12 | 43 | 29 | 29 | 0.08 | T | T | ~1 ~2 ~3 ~4 ~5 ~6 –7 –8 –9 –10 –11 | | 1 2 3 4 5 6 7 8 9 10 11 | | | | | | | | | | | Light snow |
| 13 | 29 | 25 | 25 | 0.04 | T | T | | | | | | | | | | | | | | Light snow and blowing snow |
| 14 | 28 | 25 | 26 | T | T | T | 11 | | 2 | | | | | | | | | | | Light snow showers |
| 15 | 32 | 26 | 27 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 16 | 38 | 27 | 32 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 17 | 60 | 32 | 36 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 18 | 42 | 23 | 23 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 19 | 33 | 23 | 27 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 20 | 45 | 23 | 34 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 21 | 47 | 26 | M | T | 0.0 | 0 | | | 7 8 | | | | | | | | | | | |
| 22 | 37 | 18 | 18 | 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 | | | | | | | | | | | Sprinkles |
| 23 | 41 | 18 | 29 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 24 | 61 | 29 | 42 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 25 | 42 | 15 | 15 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 26 | 24 | 15 | 21 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 27 | 42 | 21 | 40 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 28 | 43 | 26 | M | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 29 | 41 | 29 | M | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 30 | 64 | 33 | 33 | 0.00 | 0.0 | 0 | | | | | | | | | | | | | | |
| 31 | | | | | | | | | | | | | | | | | | | | |
| | 45.7 | 27.9 | SUM | 0.51 | T | | | | | 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
FSD Sioux Falls

STATION INDEX NO.
13-7859-01