JULY 1978

TUCSON, ARIZONA

NATIONAL WEATHER SERVICE OFC

INTERNATIONAL AIRPORT

# Local Climatological Data

## MONTHLY SUMMARY

LATITUDE 32° 07′N LONGITUDE 110° 56′W ELEVATION (GROUND) 2584FT. STANDARD TIME USED: MOUNTAIN WBAN #23160

| DATE | TEMPERATURE °F MAXIMUM | MINIMUM | AVERAGE | DEPARTURE FROM NORMAL | AVERAGE DEW POINT | DEGREE DAYS BASE 65° HEATING (SEASON BEGINS WITH JULY) | COOLING (SEASON BEGINS WITH JAN.) | WEATHER TYPES ON DATES OF OCCURRENCE 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW | SNOW, ICE PELLETS OR ICE ON GROUND AT 05AM IN. | PRECIPITATION WATER EQUIVALENT IN | SNOW, ICE PELLETS IN. | AVG. STATION PRESSURE IN. ELEV. 2555 FEET M.S.L. | WIND DIR. | RESULTANT SPEED M.P.H. | AVERAGE SPEED M.P.H. | FASTEST MILE SPEED M.P.H. | FASTEST MILE DIRECTION | SUNSHINE MINUTES | PERCENT OF POSSIBLE | SKY COVER TENTHS SUNRISE TO SUNSET | MIDNIGHT TO MIDNIGHT | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7A | 7B | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 1 | 102 | 67* | 85 | 0 | 37 | 0 | 20 | | 0 | 0 | 0 | 27.28 | 25 | 2.0 | 6.8 | 17 | W | 853 | 100 | 0 | 0 | 1 |
| 2 | 104 | 69 | 87 | 1 | 32 | 0 | 22 | | 0 | 0 | 0 | 27.25 | 34 | 1.0 | 8.2 | 20 | W | 853 | 100 | 0 | 0 | 2 |
| 3 | 105 | 71 | 88 | 2 | 32 | 0 | 23 | | 0 | 0 | 0 | 27.20 | 25 | 5.1 | 9.6 | 19 | W | 852 | 100 | 0 | 0 | 3 |
| 4 | 104 | 74 | 89 | 3 | 40 | 0 | 24 | | 0 | 0 | 0 | 27.23 | 25 | 7.1 | 11.9 | 19 | W | 852 | 100 | 0 | 0 | 4 |
| 5 | 105 | 72 | 89 | 3 | 35 | 0 | 24 | | 0 | 0 | 0 | 27.23 | 25 | 5.8 | 10.6 | 22 | W | 852 | 100 | 0 | 0 | 5 |
| 6 | 104 | 68 | 86 | 0 | 33 | 0 | 21 | | 0 | 0 | 0 | 27.25 | 28 | 3.7 | 8.2 | 15 | NW | 851 | 100 | 0 | 0 | 6 |
| 7 | 105 | 77 | 91 | 5 | 52 | 0 | 26 | | 0 | 0 | 0 | 27.30 | 25 | 4.3 | 7.9 | 26 | W | 732 | 86 | 7 | 6 | 7 |
| 8 | 104 | 76 | 90 | 4 | 58 | 0 | 25 | 3 | 0 | .03 | 0 | 27.34 | 28 | 4.0 | 11.9 | 38 | SE | 737 | 87 | 4 | 7 | 8 |
| 9 | 102 | 76 | 89 | 3 | 59 | 0 | 24 | 3 | 0 | .15 | 0 | 27.32 | 25 | 1.6 | 7.6 | 34 | SE | 748 | 88 | 7 | 8 | 9 |
| 10 | 100 | 76 | 88 | 2 | 60 | 0 | 23 | 3 | 0 | .20 | 0 | 27.33 | 19 | 3.5 | 8.2 | 27 | E | 646 | 76 | 8 | 9 | 10 |
| 11 | 99 | 76 | 88 | 2 | 59 | 0 | 23 | | 0 | .01 | 0 | 27.30 | 16 | 3.1 | 9.8 | 25 | W | 738 | 87 | 6 | 8 | 11 |
| 12 | 98 | 76 | 87 | 0 | 59 | 0 | 22 | | 0 | 0 | 0 | 27.30 | 19 | 3.6 | 7.8 | 13 | S | 729 | 86 | 9 | 9 | 12 |
| 13 | 100 | 78 | 89 | 2 | 57 | 0 | 24 | | 0 | 0 | 0 | 27.33 | 13 | 2.7 | 6.9 | 24 | SE | 793 | 94 | 8 | 8 | 13 |
| 14 | 106 | 80 | 93 | 6 | 55 | 0 | 28 | 3 | 0 | T | 0 | 27.31 | 13 | 2.3 | 7.5 | 22 | NE | 723 | 86 | 4 | 6 | 14 |
| 15 | 104 | 80 | 92 | 5 | 59 | 0 | 27 | 3 | 0 | .03 | 0 | 27.30 | 19 | 3.1 | 8.6 | 26 | S | 737 | 87 | 4 | 6 | 15 |
| 16 | 104 | 75 | 90 | 3 | 55 | 0 | 25 | | 0 | 0 | 0 | 27.26 | 22 | 4.2 | 8.5 | 28 | S | 843 | 100 | 2 | 4 | 16 |
| 17 | 105 | 78 | 92 | 5 | 55 | 0 | 27 | 3 | 0 | .04 | 0 | 27.24 | 28 | 6.4 | 8.1 | 27 | SE | 734 | 87 | 5 | 6 | 17 |
| 18 | 103 | 78 | 91 | 4 | 55 | 0 | 26 | | 0 | 0 | 0 | 27.25 | 29 | 1.4 | 6.9 | 16 | W | 796 | 95 | 5 | 6 | 18 |
| 19 | 108* | 86 | 97* | 10 | 52 | 0 | 32 | 3 | 0 | 0 | 0 | 27.24 | 36 | 2.5 | 8.9 | 24 | S | 656 | 78 | 7 | 8 | 19 |
| 20 | 107 | 79 | 93 | 6 | 53 | 0 | 28 | 3 | 0 | T | 0 | 27.22 | 17 | 7.8 | 9.8 | 29 | S | 562 | 67 | 8 | 8 | 20 |
| 21 | 92 | 77 | 85 | -2 | 60 | 0 | 20 | 3 | 0 | .01 | 0 | 27.29 | 18 | 3.9 | 11.1 | 35 | SE | 603 | 72 | 9 | 9 | 21 |
| 22 | 86 | 71 | 79* | -7 | 61 | 0 | 14 | 3 | 0 | T | 0 | 27.32 | 16 | 7.5 | 10.2 | 21 | E | 555 | 66 | 10 | 10 | 22 |
| 23 | 93 | 76 | 85 | -1 | 59 | 0 | 20 | | 0 | 0 | 0 | 27.30 | 11 | 12.1 | 13.1 | 24 | SE | 748 | 90 | 9 | 9 | 23 |
| 24 | 99 | 78 | 89 | 3 | 59 | 0 | 24 | | 0 | .01 | 0 | 27.31 | 13 | 8.2 | 11.7 | 23 | S | 550 | 66 | 9 | 9 | 24 |
| 25 | 95 | 75 | 85 | -1 | 63 | 0 | 20 | 3 | 0 | T | 0 | 27.40 | 18 | 5.2 | 7.1 | 22 | E | 512 | 62 | 6 | 7 | 25 |
| 26 | 95 | 74 | 85 | -1 | 64 | 0 | 20 | 3 | 0 | .02 | 0 | 27.39 | 28 | 3.2 | 9.9 | 22 | SE | 762 | 92 | 7 | 8 | 26 |
| 27 | 97 | 74 | 86 | 0 | 62 | 0 | 21 | 3 | 0 | T | 0 | 27.28 | 19 | 2.8 | 7.9 | 24 | SE | 628 | 76 | 7 | 7 | 27 |
| 28 | 103 | 73 | 88 | 2 | 50 | 0 | 23 | | 0 | 0 | 0 | 27.29 | 12 | 9.8 | 10.4 | 25 | SE | 828 | 100 | 0 | 0 | 28 |
| 29 | 103 | 75 | 89 | 3 | 55 | 0 | 24 | 3 | 0 | T | 0 | 27.30 | 29 | 7.5 | 11.2 | 28 | NW | 793 | 96 | 1 | 3 | 29 |
| 30 | 100 | 71 | 86 | 0 | 58 | 0 | 21 | 3 | 0 | .28 | 0 | 27.26 | 27 | 1.4 | 10.9 | 29 | NW | 826 | 100 | 1 | 4 | 30 |
| 31 | 98 | 71 | 85 | -1 | 62 | 0 | 20 | | 0 | T | 0 | 27.27 | 19 | 3.0 | 6.6 | 17 | W | 736 | 89 | 5 | 6 | 31 |
| | SUM | SUM | | | | TOTAL | TOTAL | | | TOTAL | TOTAL | | FOR THE MONTH: | | | | | TOTAL | % | SUM | SUM | |
| | 3130 | 2327 | | | | 0 | 721 | NUMBER OF DAYS | | .78 | 0 | 27.29 | 20 | 2.1 | 9.1 | 38 | SE | 22828 | FOR | 148 | 171 | |
| | AVG. | AVG. | AVG. | DEP. | AVG. | DEP. | DEP. | PRECIPITATION | | DEP. | | | | | | DATE: | 08 | POSSIBLE | MONTH | AVG. | AVG. | |
| | 101.0 | 75.1 | 88.1 | 1.8 | 53 | 0 | 61 | ≥.01 INCH | 10 | -1.60 | | | | | | | | 26080 | 88 | 4.8 | 5.5 | |

| NUMBER OF DAYS MAXIMUM TEMP. ≥ 90° | ≤ 32° | MINIMUM TEMP. ≤ 32° | ≤ 0° | SEASON TO DATE TOTAL DEP. | TOTAL DEP. | SNOW, ICE PELLETS | |
|---|---|---|---|---|---|---|---|
| | | | | 0 | 1764 | THUNDERSTORMS | 15 |
| 30 | 0 | 0 | 0 | 0 | 199 | HEAVY FOG | 0 |
| | | | | | | CLEAR 10 PARTLY CLOUDY 13 CLOUDY 8 | |

| GREATEST IN 24 HOURS AND DATES PRECIPITATION | | SNOW, ICE PELLETS | GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE |
|---|---|---|---|
| .28 | 30-31 | 0 | 0 |

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT
+ ALSO ON AN EARLIER DATE, OR DATES.
HEAVY FOG: - VISIBILITY 1/4 MILE OR LESS.
FIGURES FOR WIND DIRECTIONS ARE TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. 00 = CALM.
DATA IN COLS. 6 AND 12-15 ARE BASED ON 7 OR MORE OBSERVATIONS PER DAY AT 3-HOUR INTERVALS.
FASTEST MILE WIND SPEEDS ARE FASTEST OBSERVED ONE-MINUTE VALUES WHEN DIRECTIONS ARE IN TENS OF DEGREES. THE / WITH THE DIRECTION INDICATES PEAK GUST SPEED.
ANY ERRORS DETECTED WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL SUMMARY

### SUMMARY BY HOURS

| HOUR LOCAL TIME | AVERAGES SKY COVER TENTHS | STATION PRESSURE IN. | TEMPERATURE AIR °F | WET BULB °F | DEW PT. °F | RELATIVE HUMIDITY % | WIND SPEED M.P.H. | RESULTANT WIND DIRECTION | SPEED M.P.H. |
|---|---|---|---|---|---|---|---|---|---|
| 02 | 6 | 27.29 | 80 | 65 | 55 | 46 | 7.5 | 14 | 5.4 |
| 05 | 6 | 27.30 | 77 | 64 | 56 | 49 | 7.3 | 15 | 6.5 |
| 08 | 5 | 27.33 | 83 | 66 | 56 | 42 | 8.3 | 16 | 6.8 |
| 11 | 4 | 27.32 | 92 | 67 | 51 | 27 | 7.8 | 28 | 1.8 |
| 14 | 3 | 27.27 | 98 | 68 | 50 | 22 | 9.7 | 30 | 4.6 |
| 17 | 6 | 27.22 | 98 | 68 | 51 | 23 | 12.3 | 28 | 7.9 |
| 20 | 7 | 27.25 | 91 | 66 | 52 | 30 | 10.9 | 25 | 2.7 |
| 23 | 7 | 27.30 | 84 | 66 | 55 | 40 | 9.4 | 16 | 3.2 |

### HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

| DATE | A. M. HOUR ENDING AT 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | P. M. HOUR ENDING AT 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | DATE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | | | | | | | | | | | | | | | | | | | | | | | | 1 |
| 2 | | | | | | | | | | | | | | | | | | | | | | | | | 2 |
| 3 | | | | | | | | | | | | | | | | | | | | | | | | | 3 |
| 4 | | | | | | | | | | | | | | | | | | | | | | | | | 4 |
| 5 | | | | | | | | | | | | | | | | | | | | | | | | | 5 |
| 6 | | | | | | | | | | | | | | | | | | | | | | | | | 6 |
| 7 | | | | | | | | | | | | | | | | | | | | | | | | | 7 |
| 8 | | | | | | | | | | | | | | | | | | | | T | .01 | .02 | T | | 8 |
| 9 | | | | | | | | | | | | | | | | | | | .04 | .06 | .02 | .02 | .01 | | 9 |
| 10 | | | | | | | | | | | | | | | | | | | | | .19 | .01 | | | 10 |
| 11 | | | | | | | | | | | | | | | | | | | | | T | T | .01 | | 11 |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | 12 |
| 13 | | | | | | | | | | | | | | | | | | | | | | | | | 13 |
| 14 | | | | | | | | | | | | | | | | | | | | | T | T | T | | 14 |
| 15 | | | | | | | | | | | | | | | | | | | | | | .03 | T | T | 15 |
| 16 | | | | | | | | | | | | | | | | | | | | | | | | | 16 |
| 17 | | | | | | | | | | | | | | | | | | | T | T | .02 | .02 | T | | 17 |
| 18 | | | | | | | | | | | | | | | | | | | | | | | | | 18 |
| 19 | | | | | | | | | | | | | | | | | | | | | | | | | 19 |
| 20 | | | | | | | | | | | | | | | | | T | T | T | T | | | | | 20 |
| 21 | | T | .01 | T | T | | | T | T | | T | T | T | | | | | | | | | | | | 21 |
| 22 | | | | | T | T | T | T | T | T | | | | | | | | | | | | | | | 22 |
| 23 | | | | | | | | | | | | | | | | | | | | | | | | | 23 |
| 24 | | T | T | | | | | | | | | | | | | T | .01 | | | | T | | | | 24 |
| 25 | | | | | | | | | | | | | | | T | T | T | T | | | | | | | 25 |
| 26 | | | | | | | | | | | | | | | | | | | | | .02 | T | T | | 26 |
| 27 | | | | | | | | | | | | | | | T | T | | | | | | | | | 27 |
| 28 | | | | | | | | | | | | | | | | | | | | | | | | | 28 |
| 29 | | | | | | | | | | | | | | | | | | | | | T | T | | | 29 |
| 30 | | | | | | | | | | | | | | | | | | | | | T | .15 | .13 | T | 30 |
| 31 | | | | | | | | | | | | | | | | | | | | | | T | T | | 31 |

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Daniel B. Mitchell
DIRECTOR, NATIONAL CLIMATIC CENTER

USCOMM--NOAA--ASHEVILLE 08/23/78 450

JULY 1978 TUCSON, ARIZONA

# OBSERVATIONS AT 3-HOUR INTERVALS

| HOUR | SKY COVER TENTHS | CEILING HNDS. OF FT. | VISIBILITY WHOLE MILES | VISIBILITY 16THS MILE | WEATHER | TEMPERATURE AIR °F | TEMPERATURE WET BULB °F | TEMPERATURE DEW PT. °F | REL. HUM. % | WIND DIR | WIND SPEED KNOTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| DAY 01 | | | | | | | | | | | |
| 02 | 0 | UNL | 30 | | | 73 | 56 | 44 | 35 | 15 | 7 |
| 05 | 0 | UNL | 30 | | | 69 | 55 | 42 | 38 | 15 | 5 |
| 08 | 0 | UNL | 7 | | | 79 | 58 | 43 | 28 | 16 | 5 |
| 11 | 0 | UNL | 7 | | | 91 | 58 | 28 | 11 | 32 | 5 |
| 14 | 0 | UNL | 7 | | | 99 | 62 | 33 | 10 | 29 | 7 |
| 17 | 0 | UNL | 7 | | | 101 | 62 | 30 | 08 | 29 | 7 |
| 20 | 0 | UNL | 60 | | | 96 | 60 | 30 | 10 | 34 | 6 |
| 23 | 0 | UNL | 30 | | | 79 | 58 | 42 | 27 | 20 | 5 |
| DAY 02 | | | | | | | | | | | |
| 02 | 0 | UNL | 30 | | | 75 | 55 | 39 | 27 | 12 | 6 |
| 05 | 0 | UNL | 50 | | | 70 | 51 | 33 | 26 | 12 | 8 |
| 08 | 0 | UNL | 60 | | | 80 | 58 | 40 | 24 | 17 | 6 |
| 11 | 0 | UNL | 60 | | | 94 | 61 | 33 | 12 | 08 | 4 |
| 14 | 0 | UNL | 60 | | | 101 | 62 | 30 | 08 | 34 | 7 |
| 17 | 0 | UNL | 60 | | | 103 | 62 | 28 | 07 | 31 | 14 |
| 20 | 0 | UNL | 50 | | | 97 | 60 | 25 | 07 | 33 | 8 |
| 23 | 0 | UNL | 30 | | | 84 | 56 | 28 | 13 | 21 | 4 |
| DAY 03 | | | | | | | | | | | |
| 02 | 0 | UNL | 30 | | | 75 | 53 | 32 | 21 | 15 | 6 |
| 05 | 0 | UNL | 50 | | | 72 | 51 | 30 | 21 | 15 | 7 |
| 08 | 0 | UNL | 70 | | | 85 | 58 | 36 | 17 | 17 | 10 |
| 11 | 0 | UNL | 70 | | | 96 | 60 | 27 | 08 | 31 | 6 |
| 14 | 0 | UNL | 60 | | | 102 | 64 | 35 | 10 | 30 | 11 |
| 17 | 0 | UNL | 60 | | | 104 | 64 | 34 | 09 | 26 | 10 |
| 20 | 0 | UNL | 60 | | | 97 | 61 | 32 | 10 | 28 | 8 |
| 23 | 0 | UNL | 30 | | | 86 | 57 | 33 | 15 | 26 | 9 |
| DAY 04 | | | | | | | | | | | |
| 02 | 0 | UNL | 30 | | | 77 | 56 | 40 | 27 | 16 | 5 |
| 05 | 0 | UNL | 50 | | | 76 | 55 | 38 | 25 | 14 | 7 |
| 08 | 0 | UNL | 80 | | | 87 | 62 | 45 | 23 | 20 | 11 |
| 11 | 0 | UNL | 70 | | | 97 | 63 | 40 | 14 | 19 | 13 |
| 14 | 0 | UNL | 70 | | | 102 | 65 | 38 | 11 | 29 | 13 |
| 17 | 1 | UNL | 60 | | | 103 | 64 | 38 | 11 | 29 | 15 |
| 20 | 0 | UNL | 60 | | | 96 | 63 | 38 | 14 | 28 | 12 |
| 23 | 0 | UNL | 30 | | | 87 | 59 | 38 | 18 | 28 | 7 |
| DAY 05 | | | | | | | | | | | |
| 02 | 0 | UNL | 30 | | | 80 | 57 | 39 | 23 | 13 | 4 |
| 05 | 0 | UNL | 30 | | | 74 | 57 | 44 | 34 | 16 | 6 |
| 08 | 0 | UNL | 60 | | | 87 | 61 | 43 | 21 | 16 | 10 |
| 11 | 0 | UNL | 60 | | | 96 | 60 | 27 | 08 | 30 | 6 |
| 14 | 0 | UNL | 60 | | | 104 | 64 | 35 | 09 | 23 | 13 |
| 17 | 0 | UNL | 60 | | | 103 | 63 | 32 | 08 | 29 | 14 |
| 20 | 0 | UNL | 60 | | | 95 | 60 | 30 | 10 | 29 | 13 |
| 23 | 0 | UNL | 30 | | | 88 | 58 | 33 | 14 | 28 | 8 |
| DAY 06 | | | | | | | | | | | |
| 02 | 0 | UNL | 30 | | | 78 | 54 | 33 | 19 | 17 | 7 |
| 05 | 0 | UNL | 50 | | | 68 | 50 | 32 | 26 | 16 | 3 |
| 08 | 0 | UNL | 60 | | | 85 | 55 | 26 | 12 | 16 | 6 |
| 11 | 0 | UNL | 60 | | | 93 | 57 | 16 | 06 | 34 | 6 |
| 14 | 0 | UNL | 60 | | | 100 | 62 | 32 | 09 | 01 | 4 |
| 17 | 0 | UNL | 60 | | | 102 | 65 | 40 | 12 | 28 | 13 |
| 20 | 0 | UNL | 60 | | | 98 | 64 | 41 | 14 | 30 | 9 |
| 23 | 0 | UNL | 30 | | | 80 | 63 | 45 | 21 | 30 | 9 |
| DAY 07 | | | | | | | | | | | |
| 02 | 0 | UNL | 30 | | | 81 | 61 | 47 | 30 | 16 | 8 |
| 05 | 0 | UNL | 30 | | | 78 | 61 | 50 | 38 | 00 | 0 |
| 08 | 8 | 120 | 60 | | | 88 | 66 | 53 | 30 | 16 | 8 |
| 11 | 8 | 120 | 60 | | | 94 | 67 | 53 | 25 | 04 | 3 |
| 14 | 4 | UNL | 60 | | | 101 | 68 | 49 | 18 | 26 | 7 |
| 17 | 6 | UNL | 60 | | | 104 | 70 | 51 | 17 | 29 | 8 |
| 20 | 10 | UNL | 60 | | | 97 | 69 | 56 | 25 | 27 | 10 |
| 23 | 10 | 300 | 30 | | | 91 | 67 | 54 | 29 | 27 | 10 |
| DAY 08 | | | | | | | | | | | |
| 02 | 10 | 250 | 30 | | | 86 | 67 | 57 | 37 | 29 | 8 |
| 05 | 10 | 150 | 30 | | | 82 | 67 | 60 | 47 | 17 | 8 |
| 08 | 10 | 140 | 50 | | | 86 | 68 | 59 | 40 | 25 | 7 |
| 11 | 0 | UNL | 50 | | | 94 | 68 | 54 | 26 | 32 | 8 |
| 14 | 0 | UNL | 50 | | | 101 | 69 | 53 | 20 | 34 | 12 |
| 17 | 2 | UNL | 50 | | | 103 | 70 | 53 | 19 | 29 | 18 |
| 20 | 10 | 90 | 30 | | TRW | 77 | 69 | 65 | 67 | 12 | 15 |
| 23 | 10 | 90 | 30 | | | 79 | 66 | 60 | 52 | 18 | 5 |
| DAY 09 | | | | | | | | | | | |
| 02 | 10 | 150 | 30 | | | 77 | 68 | 64 | 64 | 20 | 5 |
| 05 | 8 | 140 | 30 | | | 78 | 68 | 63 | 60 | 08 | 5 |
| 08 | 8 | 140 | 50 | | | 85 | 67 | 58 | 40 | 14 | 5 |
| 11 | 9 | UNL | 50 | | | 93 | 67 | 53 | 26 | 28 | 4 |
| 14 | 4 | UNL | 50 | | | 99 | 69 | 53 | 21 | 32 | 8 |
| 17 | 6 | UNL | 50 | | | 101 | 69 | 52 | 19 | 34 | 9 |
| 20 | 10 | 80 | 30 | | TRW | 83 | 68 | 62 | 49 | 22 | 13 |
| 23 | 10 | 80 | 20 | | | 78 | 69 | 65 | 64 | 11 | 4 |
| DAY 10 | | | | | | | | | | | |
| 02 | 10 | 120 | 30 | | | 78 | 71 | 68 | 71 | 08 | 5 |
| 05 | 10 | 120 | 30 | | | 79 | 69 | 65 | 62 | 16 | 6 |
| 08 | 10 | UNL | 60 | | | 82 | 68 | 62 | 51 | 13 | 6 |
| 11 | 10 | UNL | 60 | | | 90 | 69 | 59 | 35 | 29 | 5 |
| 14 | 1 | UNL | 60 | | | 95 | 68 | 53 | 24 | 00 | 0 |
| 17 | 9 | 250 | 60 | | | 98 | 69 | 54 | 23 | 32 | 10 |
| 20 | 10 | 250 | 60 | | | 84 | 66 | 56 | 38 | 19 | 15 |
| 23 | 10 | 140 | 30 | | | 77 | 67 | 63 | 62 | 18 | 10 |
| DAY 11 | | | | | | | | | | | |
| 02 | 10 | 140 | 30 | | | 78 | 67 | 62 | 58 | 14 | 10 |
| 05 | 10 | 140 | 30 | | | 77 | 67 | 63 | 62 | 15 | 5 |
| 08 | 8 | 140 | 60 | | | 78 | 67 | 61 | 56 | 14 | 10 |
| 11 | 8 | UNL | 60 | | | 90 | 68 | 57 | 33 | 34 | 5 |
| 14 | 2 | UNL | 60 | | | 96 | 69 | 54 | 24 | 32 | 3 |
| 17 | 5 | UNL | 60 | | | 98 | 69 | 55 | 24 | 30 | 12 |
| 20 | 10 | 75 | 30 | | | 89 | 68 | 58 | 35 | 20 | 13 |
| 23 | 10 | 75 | 30 | | | 82 | 67 | 60 | 47 | 10 | 10 |
| DAY 12 | | | | | | | | | | | |
| 02 | 10 | 150 | 30 | | | 79 | 68 | 64 | 60 | 13 | 6 |
| 05 | 9 | 140 | 30 | | | 79 | 68 | 62 | 56 | 12 | 6 |
| 08 | 10 | 140 | 60 | | | 80 | 68 | 63 | 56 | 17 | 7 |
| 11 | 9 | 140 | 60 | | | 90 | 68 | 57 | 33 | 23 | 10 |
| 14 | 9 | 140 | 60 | | | 93 | 68 | 56 | 29 | 00 | 0 |
| 17 | 8 | 300 | 60 | | | 94 | 66 | 50 | 22 | 29 | 8 |
| 20 | 8 | 250 | 60 | | | 94 | 68 | 54 | 26 | 26 | 7 |
| 23 | 8 | 250 | 30 | | | 88 | 70 | 62 | 42 | 13 | 10 |
| DAY 13 | | | | | | | | | | | |
| 02 | 8 | 250 | 30 | | | 81 | 68 | 61 | 51 | 14 | 7 |
| 05 | 3 | UNL | 30 | | | 80 | 67 | 61 | 52 | 13 | 10 |
| 08 | 10 | UNL | 60 | | | 84 | 68 | 60 | 44 | 15 | 6 |
| 11 | 7 | UNL | 60 | | | 94 | 69 | 57 | 29 | 00 | 0 |
| 14 | 9 | 250 | 40 | | | 100 | 69 | 53 | 21 | 32 | 5 |
| 17 | 8 | 300 | 60 | | | 96 | 69 | 55 | 25 | 35 | 6 |
| 20 | 8 | 300 | 40 | | | 93 | 68 | 56 | 29 | 26 | 5 |
| 23 | 10 | 300 | 30 | | | 87 | 66 | 56 | 35 | 12 | 9 |
| DAY 14 | | | | | | | | | | | |
| 02 | 10 | 250 | 30 | | | 85 | 66 | 55 | 36 | 14 | 7 |
| 05 | 9 | UNL | 30 | | | 82 | 65 | 55 | 40 | 14 | 6 |
| 08 | 2 | UNL | 60 | | | 86 | 66 | 55 | 35 | 16 | 6 |
| 11 | 0 | UNL | 60 | | | 96 | 68 | 53 | 23 | 32 | 4 |
| 14 | 3 | UNL | 60 | | | 102 | 69 | 51 | 18 | 02 | 5 |
| 17 | 7 | 300 | 60 | | | 103 | 68 | 48 | 16 | 30 | 10 |
| 20 | 10 | 90 | 35 | | T | 90 | 68 | 57 | 33 | 12 | 14 |
| 23 | 10 | 110 | 30 | | | 85 | 71 | 65 | 51 | 00 | 0 |
| DAY 15 | | | | | | | | | | | |
| 02 | 10 | 120 | 30 | | | 85 | 69 | 61 | 45 | 13 | 8 |
| 05 | 8 | 120 | 30 | | | 82 | 68 | 61 | 49 | 15 | 6 |
| 08 | 0 | UNL | 60 | | | 85 | 69 | 62 | 46 | 15 | 7 |
| 11 | 3 | UNL | 60 | | | 95 | 68 | 57 | 28 | 25 | 6 |
| 14 | 7 | UNL | 60 | | | 101 | 70 | 55 | 22 | 30 | 6 |
| 17 | 8 | 300 | 60 | | | 99 | 71 | 58 | 26 | 21 | 14 |
| 20 | 7 | 300 | 35 | | | 88 | 68 | 58 | 36 | 31 | 6 |
| 23 | 10 | 90 | 30 | | TRW | 86 | 69 | 61 | 43 | 07 | 7 |
| DAY 16 | | | | | | | | | | | |
| 02 | 10 | 120 | 30 | | | 79 | 66 | 60 | 52 | 12 | 8 |
| 05 | 0 | UNL | 30 | | | 77 | 64 | 57 | 50 | 17 | 7 |
| 08 | 0 | UNL | 60 | | | 82 | 66 | 58 | 44 | 18 | 7 |
| 11 | 0 | UNL | 60 | | | 94 | 66 | 50 | 22 | 28 | 3 |
| 14 | 0 | UNL | 50 | | | 101 | 68 | 51 | 19 | 31 | 7 |
| 17 | 8 | UNL | 50 | | | 101 | 71 | 56 | 22 | 20 | 10 |
| 20 | 8 | UNL | 30 | | | 99 | 68 | 52 | 21 | 28 | 10 |
| 23 | 5 | UNL | 30 | | | 92 | 67 | 54 | 28 | 27 | 7 |
| DAY 17 | | | | | | | | | | | |
| 02 | 5 | UNL | 30 | | | 84 | 65 | 55 | 37 | 22 | 5 |
| 05 | 4 | UNL | 30 | | | 80 | 66 | 59 | 48 | 18 | 4 |
| 08 | 5 | UNL | 60 | | | 86 | 67 | 57 | 37 | 00 | 0 |
| 11 | 9 | UNL | 60 | | | 95 | 67 | 52 | 23 | 27 | 7 |
| 14 | 1 | UNL | 60 | | | 101 | 70 | 54 | 21 | 29 | 12 |
| 17 | 8 | 90 | 60 | | T | 104 | 70 | 52 | 18 | 27 | 8 |
| 20 | 10 | 90 | 30 | | | 92 | 65 | 49 | 23 | 29 | 12 |
| 23 | 10 | 120 | 30 | | | 81 | 67 | 61 | 51 | 34 | 8 |
| DAY 18 | | | | | | | | | | | |
| 02 | 10 | 130 | 30 | | | 79 | 67 | 61 | 54 | 17 | 10 |
| 05 | 10 | 130 | 30 | | | 80 | 66 | 59 | 49 | 09 | 4 |
| 08 | 4 | UNL | 60 | | | 88 | 67 | 57 | 37 | 13 | 6 |
| 11 | 1 | UNL | 60 | | | 95 | 67 | 53 | 24 | 32 | 7 |
| 14 | 8 | UNL | 60 | | | 99 | 69 | 53 | 21 | 31 | 6 |
| 17 | 1 | UNL | 60 | | | 102 | 69 | 52 | 18 | 28 | 8 |
| 20 | 3 | UNL | 30 | | | 88 | 69 | 53 | 21 | 34 | 7 |
| 23 | 9 | 130 | 30 | | | 84 | 67 | 53 | 25 | 00 | 0 |
| DAY 19 | | | | | | | | | | | |
| 02 | 10 | 130 | 30 | | | 90 | 67 | 55 | 31 | 14 | 8 |
| 05 | 10 | 130 | 30 | | | 87 | 67 | 57 | 36 | 05 | 6 |
| 08 | 7 | 130 | 50 | | | 92 | 67 | 54 | 28 | 23 | 7 |
| 11 | 7 | 130 | 60 | | | 100 | 69 | 52 | 20 | 33 | 6 |
| 14 | 1 | UNL | 60 | | | 104 | 68 | 48 | 15 | 31 | 11 |
| 17 | 8 | 250 | 60 | | | 106 | 69 | 48 | 14 | 30 | 8 |
| 20 | 10 | 250 | 30 | | | 96 | 67 | 52 | 23 | 00 | 0 |
| 23 | 10 | 130 | 30 | | | 93 | 65 | 50 | 23 | 06 | 16 |
| DAY 20 | | | | | | | | | | | |
| 02 | 4 | UNL | 30 | | | 89 | 64 | 49 | 25 | 14 | 7 |
| 05 | 5 | UNL | 30 | | | 81 | 65 | 56 | 42 | 16 | 8 |
| 08 | 7 | UNL | 50 | | | 89 | 67 | 55 | 32 | 16 | 13 |
| 11 | 8 | UNL | 60 | | | 100 | 68 | 50 | 19 | 16 | 4 |
| 14 | 2 | UNL | 60 | | | 104 | 68 | 46 | 14 | 18 | 3 |
| 17 | 10 | 80 | 30 | | TRW | 92 | 69 | 57 | 31 | 22 | 12 |
| 20 | 10 | 80 | 30 | | | 89 | 67 | 55 | 32 | 24 | 8 |
| 23 | 10 | 120 | 30 | | | 86 | 67 | 58 | 39 | 13 | 13 |
| DAY 21 | | | | | | | | | | | |
| 02 | 10 | 140 | 30 | | TRW | 83 | 69 | 63 | 51 | 25 | 6 |
| 05 | 10 | 150 | 30 | | | 80 | 68 | 62 | 54 | 18 | 14 |
| 08 | 10 | 150 | 45 | | RW | 78 | 68 | 63 | 60 | 14 | 9 |
| 11 | 10 | 120 | 40 | | RW | 82 | 67 | 60 | 47 | 34 | 4 |
| 14 | 9 | 120 | 50 | | | 89 | 68 | 58 | 35 | 29 | 8 |
| 17 | 6 | UNL | 50 | | | 92 | 70 | 60 | 34 | 30 | 8 |
| 20 | 10 | 110 | 50 | | | 90 | 67 | 56 | 32 | 23 | 6 |
| 23 | 10 | 110 | 30 | | | 86 | 67 | 58 | 39 | 12 | 22 |
| DAY 22 | | | | | | | | | | | |
| 02 | 10 | 130 | 30 | | | 80 | 65 | 57 | 45 | 10 | 6 |
| 05 | 10 | 80 | 25 | | TRW | 78 | 66 | 60 | 54 | 18 | 12 |
| 08 | 10 | 140 | 45 | | | 72 | 67 | 65 | 79 | 21 | 7 |
| 11 | 10 | 170 | 45 | | | 78 | 69 | 64 | 62 | 17 | 9 |
| 14 | 10 | 250 | 50 | | | 83 | 68 | 61 | 48 | 19 | 10 |
| 17 | 10 | 250 | 50 | | | 84 | 70 | 63 | 49 | 19 | 9 |
| 20 | 10 | 120 | 50 | | | 81 | 66 | 58 | 46 | 08 | 11 |
| 23 | 10 | 130 | 30 | | | 80 | 65 | 57 | 45 | 13 | 7 |
| DAY 23 | | | | | | | | | | | |
| 02 | 10 | 130 | 30 | | | 78 | 66 | 58 | 52 | 01 | 4 |
| 05 | 10 | 130 | 30 | | | 77 | 66 | 60 | 56 | 13 | 10 |
| 08 | 6 | 120 | 50 | | | 82 | 67 | 59 | 46 | 12 | 12 |
| 11 | 8 | 120 | 45 | | | 86 | 69 | 61 | 45 | 12 | 15 |
| 14 | 9 | 130 | 50 | | | 90 | 69 | 60 | 37 | 09 | 12 |
| 17 | 9 | 130 | 50 | | | 90 | 68 | 57 | 33 | 12 | 15 |
| 20 | 10 | 140 | 50 | | | 87 | 69 | 60 | 40 | 11 | 12 |
| 23 | 10 | 140 | 30 | | | 85 | 67 | 57 | 39 | 12 | 11 |
| DAY 24 | | | | | | | | | | | |
| 02 | 10 | 90 | 30 | | RW | 83 | 68 | 61 | 48 | 09 | 10 |
| 05 | 10 | 120 | 30 | | | 80 | 67 | 61 | 52 | 12 | 10 |
| 08 | 10 | 200 | 40 | | | 84 | 68 | 60 | 44 | 14 | 12 |
| 11 | 8 | UNL | 40 | | | 92 | 69 | 57 | 31 | 13 | 18 |
| 14 | 5 | UNL | 40 | | | 97 | 69 | 54 | 24 | 12 | 13 |
| 17 | 10 | 90 | 50 | | | 87 | 68 | 59 | 39 | 27 | 8 |
| 20 | 10 | 130 | 30 | | | 86 | 68 | 60 | 42 | 26 | 4 |
| 23 | 10 | 130 | 30 | | | 83 | 67 | 59 | 44 | 10 | 6 |
| DAY 25 | | | | | | | | | | | |
| 02 | 5 | UNL | 30 | | | 78 | 68 | 64 | 62 | 21 | 5 |
| 05 | 3 | UNL | 30 | | | 77 | 66 | 61 | 58 | 14 | 5 |
| 08 | 3 | UNL | 60 | | | 81 | 70 | 65 | 58 | 15 | 7 |
| 11 | 1 | UNL | 60 | | | 91 | 70 | 60 | 35 | 20 | 4 |
| 14 | 8 | 90 | 50 | | | 93 | 71 | 60 | 33 | 25 | 12 |
| 17 | 10 | 130 | 50 | | RW | 78 | 70 | 67 | 69 | 15 | 4 |
| 20 | 10 | 130 | 50 | | | 79 | 68 | 63 | 58 | 15 | 7 |
| 23 | 10 | 250 | 30 | | | 79 | 69 | 64 | 60 | 16 | 5 |
| DAY 26 | | | | | | | | | | | |
| 02 | 10 | 140 | 30 | | | 78 | 70 | 66 | 67 | 14 | 5 |
| 05 | 8 | 140 | 30 | | | 75 | 69 | 66 | 74 | 00 | 0 |
| 08 | 4 | UNL | 60 | | | 79 | 70 | 67 | 67 | 30 | 4 |
| 11 | 8 | 120 | 60 | | | 86 | 70 | 63 | 46 | 31 | 12 |
| 14 | 4 | UNL | 60 | | | 92 | 71 | 62 | 37 | 32 | 12 |
| 17 | 9 | 250 | 60 | | | 95 | 70 | 58 | 29 | 32 | 13 |
| 20 | 9 | 250 | 30 | | | 83 | 70 | 65 | 55 | 18 | 12 |
| 23 | 10 | 250 | 30 | | | 76 | 68 | 65 | 69 | 16 | 11 |
| DAY 27 | | | | | | | | | | | |
| 02 | 10 | 250 | 30 | | | 75 | 68 | 65 | 71 | 14 | 10 |
| 05 | 10 | UNL | 30 | | | 74 | 69 | 67 | 79 | 15 | 6 |
| 08 | 8 | UNL | 60 | | | 78 | 69 | 64 | 62 | 12 | 6 |
| 11 | 5 | UNL | 60 | | | 89 | 71 | 63 | 42 | 29 | 6 |
| 14 | 5 | UNL | 60 | | | 96 | 71 | 60 | 30 | 34 | 7 |
| 17 | 10 | 80 | 50 | | | 94 | 70 | 59 | 31 | 20 | 14 |
| 20 | 8 | 300 | 30 | | | 84 | 68 | 60 | 44 | 28 | 6 |
| 23 | 3 | UNL | 30 | | | 80 | 67 | 61 | 52 | 00 | 0 |
| DAY 28 | | | | | | | | | | | |
| 02 | 1 | UNL | 30 | | | 77 | 70 | 67 | 71 | 14 | 5 |
| 05 | 0 | UNL | 30 | | | 75 | 65 | 60 | 60 | 15 | 6 |
| 08 | 0 | UNL | 60 | | | 87 | 66 | 54 | 32 | 13 | 11 |
| 11 | 0 | UNL | 60 | | | 97 | 64 | 43 | 16 | 10 | 14 |
| 14 | 0 | UNL | 70 | | | 102 | 67 | 46 | 15 | 11 | 15 |
| 17 | 1 | UNL | 70 | | | 101 | 66 | 46 | 15 | 09 | 8 |
| 20 | 0 | UNL | 35 | | | 96 | 63 | 39 | 14 | 11 | 6 |
| 23 | 0 | UNL | 30 | | | 84 | 61 | 46 | 27 | 14 | 7 |
| DAY 29 | | | | | | | | | | | |
| 02 | 0 | UNL | 30 | | | 79 | 60 | 47 | 32 | 18 | 4 |
| 05 | 1 | UNL | 30 | | | 77 | 64 | 56 | 48 | 16 | 7 |
| 08 | 0 | UNL | 60 | | | 82 | 69 | 63 | 53 | 20 | 3 |
| 11 | 0 | UNL | 60 | | | 91 | 70 | 60 | 35 | 31 | 7 |
| 14 | 0 | UNL | 60 | | | 100 | 72 | 58 | 25 | 31 | 15 |
| 17 | 1 | UNL | 60 | | | 103 | 70 | 53 | 19 | 31 | 14 |
| 20 | 10 | 80 | 30 | | | 99 | 68 | 52 | 21 | 33 | 11 |
| 23 | 10 | 140 | 30 | | | 88 | 65 | 53 | 30 | 27 | 17 |
| DAY 30 | | | | | | | | | | | |
| 02 | 7 | UNL | 30 | | | 81 | 64 | 55 | 41 | 09 | 6 |
| 05 | 2 | UNL | 30 | | | 77 | 64 | 57 | 50 | 15 | 5 |
| 08 | 0 | UNL | 60 | | | 82 | 67 | 59 | 46 | 24 | 5 |
| 11 | 0 | UNL | 60 | | | 92 | 68 | 57 | 31 | 28 | 7 |
| 14 | 0 | UNL | 50 | | | 97 | 71 | 58 | 27 | 28 | 13 |
| 17 | 2 | UNL | 50 | | | 98 | 71 | 58 | 26 | 30 | 13 |
| 20 | 8 | 150 | 25 | | | 95 | 69 | 56 | 27 | 08 | 20 |
| 23 | 10 | 80 | 20 | | TRW | 72 | 69 | 67 | 84 | 20 | 7 |
| DAY 31 | | | | | | | | | | | |
| 02 | 10 | 140 | 30 | | | 73 | 68 | 66 | 79 | 12 | 3 |
| 05 | 10 | 140 | 30 | | | 74 | 69 | 66 | 76 | 16 | 5 |
| 08 | 5 | UNL | 60 | | | 77 | 69 | 66 | 69 | 12 | 6 |
| 11 | 3 | UNL | 60 | | | 90 | 68 | 57 | 33 | 00 | 0 |
| 14 | 6 | 90 | 60 | | | 96 | 69 | 54 | 24 | 12 | 5 |
| 17 | 8 | 75 | 60 | | | 95 | 71 | 60 | 31 | 26 | 10 |
| 20 | 2 | UNL | 35 | | | 92 | 69 | 59 | 33 | 29 | 7 |
| 23 | 6 | UNL | 30 | | | 81 | 70 | 65 | 58 | 18 | 10 |

## NOTES

### CEILING

UNL INDICATES UNLIMITED

### WEATHER

- * TORNADO
- T THUNDERSTORM
- Q SQUALL
- R RAIN
- RW RAIN SHOWERS
- ZR FREEZING RAIN
- L DRIZZLE
- ZL FREEZING DRIZZLE
- S SNOW
- SP SNOW PELLETS
- IC ICE CRYSTALS
- SW SNOW SHOWERS
- SG SNOW GRAINS
- IP ICE PELLETS
- A HAIL
- F FOG
- IF ICE FOG
- GF GROUND FOG
- BD BLOWING DUST
- BN BLOWING SAND
- BS BLOWING SNOW
- BY BLOWING SPRAY
- K SMOKE
- H HAZE
- D DUST

### WIND

DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS. INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. ENTRY OF 00 IN THE DIRECTION COLUMN INDICATES CALM.

SPEED IS EXPRESSED IN KNOTS; MULTIPLY BY 1.15 TO CONVERT TO MILES PER HOUR.

STATION: TUCSON ARIZONA

YEAR & MONTH: 78 07

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