



# ADDENDA

**ANSI/ASHRAE Addendum n to  
ANSI/ASHRAE Standard 62.2-2010**

# **Ventilation and Acceptable Indoor Air Quality in Low-Rise Residential Buildings**

Approved by the ASHRAE Standards Committee on January 21, 2012; by the ASHRAE Board of Directors on January 25, 2012; and by the American National Standards Institute on January 26, 2012.

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## FOREWORD

SSPC 62.2 has responsibility for maintenance of ASHRAE Standard 136. As such, a 136 subcommittee was formed to update the standard. The 136 subcommittee recommended and SSPC 62.2 concurred that the provisions of Standard 136 be incorporated directly into the body of Standard 62.2 and that Standard 136 be withdrawn when that is accomplished. During the 136 subcommittee deliberations, the SPC 119 committee recommended the withdrawal of Standard 119. As a result of this decision, the 136 Subcommittee decided to include the pertinent provisions of Standard 119 into Standard 62.2 as well so that all of these provisions are in one place. This will save the user of Standard 62.2 from purchasing all three standards. The weather factors (*W*) that were contained in Standard 136 have been updated to be consistent with the new TMY3 climate data for 1020 climates using the expanded ASHRAE infiltration model using shielding Class 4. The resulting values, which have been renamed as weather and shielding factor (*wsf*) values to differentiate them from the old *W* factors, are significantly lower than the original values but are believed to be much closer to reality than the previous values, which have been criticized by a number of technical experts as estimating infiltration rates that are significantly greater than those measured in the field.

This addendum incorporates a revised method of calculating infiltration airflow using normalized leakage, with a revised height adjustment exponent, and the revised *wsf* values. This infiltration airflow rate would then be used to determine the required mechanical ventilation fan flow rate requirement for meeting the standard.

**Note:** In this addendum, changes to the current standard are indicated in the text by underlining (for additions) and ~~striking through~~ (for deletions) unless the instructions specifically mention some other means of indicating the changes.

## Addendum n to Standard 62.2-2010

[Add a new definition to Section 3 as follows.]

### 3. DEFINITIONS

**effective annual average infiltration rate:** the constant air infiltration rate that would result in the same average indoor pollutant concentration over the annual period as actually occurs under varying conditions.

[Revise Section 4 as shown below.]

## 4. WHOLE-BUILDING VENTILATION

**4.1 Ventilation Rate.** A mechanical exhaust system, supply system, or combination thereof shall be installed for each dwelling unit to provide whole-building ventilation with outdoor air each hour at a rate not less than specified in Section 4.1.1, Fan Ventilation Rate Method, or Section 4.1.2, Total Ventilation Rate Method.

**4.1.1 Fan Ventilation Rate Method.** ~~†The mechanical ventilation rate shall be as specified in Tables 4.1a and or Table 4.1b or, equivalently, Equations 4.1a and or Equation 4.1b, based on the floor area of the conditioned space and number of bedrooms.~~

$$Q_{fan} = 0.01A_{floor} + 7.5(N_{br} + 1) \quad (4.1a)$$

where

$Q_{fan}$  = fan flow rate, cfm

$A_{floor}$  = floor area, ft<sup>2</sup>

$N_{br}$  = number of bedrooms; not to be less than one

$$Q_{fan} = 0.05A_{floor} + 3.5(N_{br} + 1) \quad (4.1b)$$

where

$Q_{fan}$  = fan flow rate, L/s

$A_{floor}$  = floor area, m<sup>2</sup>

$N_{br}$  = ~~number of bedrooms; not to be less than one~~

**Exceptions:** Whole-building mechanical systems are not required provided that at least one of the following conditions is met:

- the building has no mechanical cooling and is in zone 1 or 2 of the IECC 2004 Climate Zone Map (see Figure 8.2), or
- the building is thermally conditioned for human occupancy for less than 876 h per year,

and if the authority having jurisdiction determines that window operation is a locally permissible method of providing ventilation.

**TABLE 4.1a (I-P)  
Ventilation Air Requirements, cfm**

Floor Area, ft <sup>2</sup>	Bedrooms				
	0-1	2-3	4-5	6-7	>7
<1500	30	45	60	75	90
1501-3000	45	60	75	90	105
3001-4500	60	75	90	105	120
4501-6000	75	90	105	120	135
6001-7500	90	105	120	135	150
>7500	105	120	135	150	165

**TABLE 4.1b (SI)**  
**Ventilation Air Requirements, L/s**

Floor Area, m <sup>2</sup>	Bedrooms				
	0–1	2–3	4–5	6–7	>7
<139	14	21	28	35	42
139.1–279	21	28	35	42	50
279.1–418	28	35	42	50	57
418.1–557	35	42	50	57	64
557.1–697	42	50	57	64	71
>697	50	57	64	71	78

**4.1.2 Total Ventilation Rate Method.** The total required ventilation rate ( $Q_{tot}$ ) shall be calculated using Equation 4.2a (I-P) or Equation 4.2b (SI).

$$Q_{tot} = 0.03A_{floor} + 7.5(N_{br} + 1) \quad (4.2a)$$

where

- $Q_{tot}$  ≡ total required ventilation rate, cfm
- $A_{floor}$  ≡ floor area of residence, ft<sup>2</sup>
- $N_{br}$  ≡ number of bedrooms (to be not less than one)

$$Q_{tot} = 0.15A_{floor} + 3.5(N_{br} + 1) \quad (4.2b)$$

where

- $Q_{tot}$  ≡ total required ventilation rate, L/s
- $A_{floor}$  ≡ floor area of residence, m<sup>2</sup>

**Effective Annual Average Infiltration Rate ( $Q_{inf}$ ):** Effective Annual Average Infiltration Rate ( $Q_{inf}$ ) shall be calculated using the normalized leakage calculated from measurements of envelope leakage using either ASTM E779<sup>X1</sup> or CGSB 149.10<sup>X2</sup>. The authority having jurisdiction may approve other means of calculating effective leakage area (ELA).

**ASTM Procedure:** To calculate the effective leakage area from the ASTM E779<sup>X1</sup> standard, the leakage area for pressurization and depressurization (using a 4 Pa reference pressure) shall be averaged using Equation 4.3.

$$ELA = (L_{press} + L_{depress})/2 \quad (4.3)$$

where

- ELA ≡ effective leakage area, ft<sup>2</sup> (m<sup>2</sup>)
- $L_{press}$  ≡ leakage area from pressurization, ft<sup>2</sup> (m<sup>2</sup>)
- $L_{depress}$  ≡ leakage area from depressurization, ft<sup>2</sup> (m<sup>2</sup>)

**CGSB Procedure:** To calculate the effective leakage area from CGSB-149.10<sup>X2</sup>, the following modifications to the test procedure must be made: (1) all vents and intentional openings must be in the same configuration as specified in the ASTM standard (i.e., HVAC dampers and registers should be in the normal operating position; fireplace and other dampers should be closed unless they are required for test operation), (2) height and floor area must be reported consistently with the definitions

of this standard, and (3) the leakage area as calculated from the CGSB procedure must be converted using Equation 4.4.

$$ELA = 0.61 \cdot (0.4)^{n-0.5} \cdot L_{cgsb} \quad (4.4a)$$

where

- $n$  ≡ exponent measured from the CGSB standard
- $L_{cgsb}$  ≡ CGSB leakage area, as modified above, ft<sup>2</sup> (m<sup>2</sup>)

**Normalized Leakage:** Normalized leakage shall be calculated using Equation 4.5.

$$NL = 1000 \cdot \frac{ELA}{A_{floor}} \cdot \left[ \frac{H}{H_r} \right]^z \quad (4.5)$$

where

- NL ≡ normalized leakage
- $H_r$  ≡ reference height, 8.2 ft (2.5 m)
- $H$  ≡ vertical distance from lowest above grade floor to highest ceiling, ft (m)
- $z$  ≡ 0.4 for the purpose of calculating the Effective Annual Infiltration Rate below

**Effective Annual Average Infiltration Rate ( $Q_{inf}$ ):** Effective Annual Average Infiltration Rate ( $Q_{inf}$ ) shall be calculated using Equation 4.6a (I-P) or Equation 4.6b (SI).

$$Q_{inf}(\text{cfm}) = \frac{NL \cdot \text{wsf} \cdot A_{floor}}{7.3} \quad (4.6a)$$

where

- NL ≡ normalized leakage
- wsf ≡ weather and shielding factor from Normative Appendix X
- $A_{floor}$  ≡ floor area of residence, ft<sup>2</sup>

$$Q_{inf}(\text{L/s}) = \frac{NL \cdot \text{wsf} \cdot A_{floor}}{1.44} \quad (4.6b)$$

where

- $A_{floor}$  ≡ floor area of residence, m<sup>2</sup>

**Required Mechanical Ventilation Rate ( $Q_{fan}$ ):** Required Mechanical Ventilation Rate ( $Q_{fan}$ ) shall be calculated using Equation 4.7.

$$Q_{fan} = Q_{tot} - Q_{inf} \quad (4.7)$$

where

- $Q_{fan}$  ≡ required mechanical ventilation rate, cfm (L/s)

If  $Q_{fan}$  is less than or equal to zero, then no whole-building ventilation fan is required.

**4.1.13 Different Occupant Density.** Tables 4.1a and 4.1b and Equations 4.1a and 4.1b and Equations 4.2a and 4.2b assume two persons in a studio or one-bedroom dwelling unit and an additional person for each additional bedroom. Where higher occupant densities are known, the rate shall be increased by 7.5 cfm (3.5 L/s) for each additional person. When approved by the authority having jurisdiction, lower occupant densities may be used.

**4.1.24 Alternative Ventilation.** Other methods may be used to provide the required ventilation rates (of Tables 4.1a and 4.1b) when approved by a licensed design professional.

**4.1.3 Infiltration Credit.** Section 4.1 includes a default credit for ventilation provided by infiltration of 2 cfm per 100 ft<sup>2</sup> (10 L/s per 100 m<sup>2</sup>) of occupiable floor space. For buildings built prior to the application of this standard, when excess infiltration has been measured in accordance with *ANSI/ASHRAE Standard 136, A Method of Determining Air Change Rates in Detached Dwellings*,<sup>1</sup> the rates in Section 4.1 may be decreased by half of the excess of the rate calculated from Standard 136 that is above the default rate. No increase to the rate in Section 4.1 is required if measured infiltration in accordance with Standard 136 is lower than the default rate.

**4.2 System Type.** The whole-house mechanical ventilation system shall consist of one or more supply or exhaust fans and associated ducts and controls. Local exhaust fans shall be permitted to be part of a mechanical exhaust system. Outdoor air ducts connected to the return side of an air handler shall be permitted as supply ventilation if manufacturers' requirements for return air temperature are met. See Chapter 10 of Guideline 24<sup>2</sup> for guidance on selection of methods.

**4.3 Airflow Measurement.** The airflow required by this section is the quantity of outdoor ventilation air supplied and/or indoor air exhausted by the mechanical ventilation system as installed and shall be measured using a flow hood, flow grid, or other airflow measuring device. Ventilation airflow of systems with multiple operating modes shall be tested in all modes designed to meet this section.

**4.4 Control and Operation.** The "fan on" switch on a heating or air-conditioning system shall be permitted as an operational control for systems introducing ventilation air through a duct to the return side of an HVAC system. Readily accessible override control must be provided to the occupant. Local exhaust fan switches and "fan on" switches shall be permitted as override controls. Controls, including the "fan-on" switch of a conditioning system, must be appropriately labeled.

**Exception:** An intermittently operating, whole-house mechanical ventilation system may be used if the ventilation rate is adjusted, according to the exception to Section 4.5. The system must be designed so that it can operate automatically based on a timer. The intermittent mechanical ventilation system must operate at least once per day and must operate at least 10% of the time.

**4.5 Delivered Ventilation.** The delivered mechanical ventilation rate shall be calculated as the larger of the total supply or total exhaust and shall be no less than specified in Section 4.1 during each hour of operation.

**Exception:** The effective mechanical ventilation rate of an intermittent system is the combination of its delivered capacity, fractional on-time, cycle time, and the ventilation effectiveness from Table 4.2. The fan flow rate required to achieve an effective mechanical ventilation rate that is equivalent to the continuous mechanical ven-

**TABLE 4.2 Mechanical Ventilation Effectiveness for Intermittent Fans**

Fractional On-Time, <i>f</i>	Cycle Time, <i>T<sub>cyc</sub></i> (h)			
	0 to 4	8	12	24
0.1	1.00	0.79	*	*
0.2	1.00	0.84	0.56	*
0.3	1.00	0.89	0.71	*
0.4	1.00	0.92	0.81	0.20
0.5	1.00	0.94	0.87	0.52
0.6	1.00	0.97	0.92	0.73
0.7	1.00	0.98	0.96	0.86
0.8	1.00	0.99	0.98	0.94
0.9	1.00	1.00	1.00	0.99
1.0	1.00	1.00	1.00	1.00

\*Condition not allowed since no amount of intermittent ventilation will provide equivalent ventilation.

tilation requirement shall be calculated from the following equation:

$$Q_f Q_{on} = Q_r Q_{fan} / (\epsilon f) \quad (4.28)$$

where

- $Q_f Q_{on}$  = intermittent fan flow rate during the on-cycle
- $Q_r Q_{fan}$  = mechanical ventilation air requirement (from Table 4.1a or 4.1b Section 4.1)
- $T_{cyc}$  = fan cycle time, defined as the total time for one on-cycle and one off-cycle (used in Table 4.2)
- $\epsilon$  = mechanical ventilation effectiveness (from Table 4.2)
- $f$  = fractional on time, defined as the on-time for one cycle divided by the cycle time

See Chapter 10 of Guideline 24<sup>2</sup> for an example of this calculation.

For values not listed, use the next higher value for Cycle Time or the next lower value for Fractional On-Time. Linear interpolation is allowed for intermediate Fractional On-Times.

The maximum allowed Cycle Time is 24 h and the minimum allowed Fractional On-Time is 0.1.

[Delete Reference 1 in Section 9, add new references X1 and X2, and renumber the remaining references as applicable.]

## 9. REFERENCES

1. ~~ANSI/ASHRAE Standard 136-1993 (RA 2006), A Method of Determining Air Change Rates in Detached Dwellings. American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., Atlanta, GA.~~

- X1. ANSI/ASTM E779-10. *Standard Test Method for Determining Air Leakage Rate by Fan Pressurization*. ASTM International, West Conshohocken, PA.
- X2. CAN/CGSB 149.10-M86. *Determination for the Airtightness of Building Envelopes by the Fan Depressurization Method*. Canadian General Standard Board, Gatineau, Quebec, Canada.

[Revise Section A2 in Normative Appendix A as shown below.]

## A2. WHOLE-BUILDING MECHANICAL VENTILATION RATE

If Section 4.1.1 is used to determine the fan flow requirement, then the required mechanical ventilation rate,  $Q_{fan}$ , shall be the rate in Section 4.1.1 plus the required additional airflow calculated in accordance with Section A3.

If Section 4.1.2 is used to determine the fan flow requirement, then the required additional airflow calculated in accordance with Section A3 shall be added to  $Q_{tot}$  prior to application of  $Q_{inf}$ . If the airtightness of the building envelope has been measured, the required mechanical ventilation rate may be reduced as described in Section 4.1.3. In these cases, Section A3 shall be applied before Section 4.1.3 when determining the final mechanical ventilation rate.

[Add a new Normative Appendix X as shown below.]

**(This is a normative appendix and is part of the standard.)**

## **NORMATIVE APPENDIX X— INFILTRATION EFFECTIVENESS WEATHER AND SHIELDING FACTORS (WSF)**

**TABLE X1 U.S. Climates**

<b>TMY3</b>	<b>wsf</b>	<b>Weather Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>State</b>
<u>722230</u>	<u>0.42</u>	<u>Mobile Regional AP</u>	<u>30.68</u>	<u>-88.25</u>	<u>Alabama</u>
<u>722235</u>	<u>0.42</u>	<u>Mobile Downtown AP</u>	<u>30.63</u>	<u>-88.07</u>	<u>Alabama</u>
<u>722260</u>	<u>0.39</u>	<u>Montgomery Dannelly Field</u>	<u>32.30</u>	<u>-86.40</u>	<u>Alabama</u>
<u>722265</u>	<u>0.40</u>	<u>Maxwell AFB</u>	<u>32.38</u>	<u>-86.35</u>	<u>Alabama</u>
<u>722267</u>	<u>0.34</u>	<u>Troy Af</u>	<u>31.87</u>	<u>-86.02</u>	<u>Alabama</u>
<u>722268</u>	<u>0.41</u>	<u>Dothan Municipal AP</u>	<u>31.23</u>	<u>-85.43</u>	<u>Alabama</u>
<u>722269</u>	<u>0.36</u>	<u>Cairns Field Fort Rucker</u>	<u>31.27</u>	<u>-85.72</u>	<u>Alabama</u>
<u>722280</u>	<u>0.41</u>	<u>Birmingham Municipal AP</u>	<u>33.57</u>	<u>-86.75</u>	<u>Alabama</u>
<u>722284</u>	<u>0.35</u>	<u>Auburn–Opelika Apt</u>	<u>32.62</u>	<u>-85.43</u>	<u>Alabama</u>
<u>722285</u>	<u>0.38</u>	<u>Gadsen Muni (AWOS)</u>	<u>33.97</u>	<u>-86.08</u>	<u>Alabama</u>
<u>722286</u>	<u>0.39</u>	<u>Tuscaloosa Municipal AP</u>	<u>33.22</u>	<u>-87.62</u>	<u>Alabama</u>
<u>722287</u>	<u>0.37</u>	<u>Anniston Metropolitan AP</u>	<u>33.58</u>	<u>-85.85</u>	<u>Alabama</u>
<u>723230</u>	<u>0.45</u>	<u>Huntsville Intl/Jones Field</u>	<u>34.65</u>	<u>-86.78</u>	<u>Alabama</u>
<u>723235</u>	<u>0.39</u>	<u>Muscle Shoals Regional AP</u>	<u>34.75</u>	<u>-87.60</u>	<u>Alabama</u>
<u>700197</u>	<u>0.88</u>	<u>Selawik</u>	<u>66.60</u>	<u>-160.00</u>	<u>Alaska</u>
<u>700260</u>	<u>1.14</u>	<u>Barrow W Post–W Rogers Arpt [NSA – ARM]</u>	<u>71.32</u>	<u>-156.62</u>	<u>Alaska</u>
<u>700637</u>	<u>1.05</u>	<u>Deadhorse</u>	<u>70.20</u>	<u>-148.48</u>	<u>Alaska</u>
<u>701043</u>	<u>1.11</u>	<u>Point Hope (AWOS)</u>	<u>68.35</u>	<u>-166.80</u>	<u>Alaska</u>
<u>701195</u>	<u>1.01</u>	<u>Shishmaref (AWOS)</u>	<u>66.27</u>	<u>-166.05</u>	<u>Alaska</u>
<u>701330</u>	<u>0.98</u>	<u>Kotzebue Ralph Wein Memorial</u>	<u>66.88</u>	<u>-162.60</u>	<u>Alaska</u>
<u>701625</u>	<u>0.93</u>	<u>Anaktuvuk Pass</u>	<u>68.13</u>	<u>-151.73</u>	<u>Alaska</u>
<u>701718</u>	<u>0.78</u>	<u>Ambler</u>	<u>67.10</u>	<u>-157.85</u>	<u>Alaska</u>
<u>701740</u>	<u>0.76</u>	<u>Bettles Field</u>	<u>66.92</u>	<u>-151.52</u>	<u>Alaska</u>
<u>701780</u>	<u>0.75</u>	<u>Tanana Ralph M Calhoun Mem AP</u>	<u>65.17</u>	<u>-152.10</u>	<u>Alaska</u>
<u>701940</u>	<u>0.74</u>	<u>Fort Yukon</u>	<u>66.57</u>	<u>-145.27</u>	<u>Alaska</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>702000</u>	<u>0.88</u>	<u>Nome Municipal Arpt</u>	<u>64.52</u>	<u>-165.45</u>	<u>Alaska</u>
<u>702005</u>	<u>0.89</u>	<u>Saint Mary's (AWOS)</u>	<u>62.07</u>	<u>-163.30</u>	<u>Alaska</u>
<u>702035</u>	<u>0.98</u>	<u>Savoonga</u>	<u>63.68</u>	<u>-170.50</u>	<u>Alaska</u>
<u>702040</u>	<u>1.14</u>	<u>Gambell</u>	<u>63.78</u>	<u>-171.75</u>	<u>Alaska</u>
<u>702070</u>	<u>0.91</u>	<u>Unalakleet Field</u>	<u>63.88</u>	<u>-160.80</u>	<u>Alaska</u>
<u>702075</u>	<u>0.71</u>	<u>Anvik</u>	<u>62.65</u>	<u>-160.18</u>	<u>Alaska</u>
<u>702084</u>	<u>0.83</u>	<u>Emmonak</u>	<u>62.78</u>	<u>-164.50</u>	<u>Alaska</u>
<u>702185</u>	<u>0.99</u>	<u>Mekoryuk</u>	<u>60.37</u>	<u>-166.27</u>	<u>Alaska</u>
<u>702186</u>	<u>1.00</u>	<u>Hooper Bay</u>	<u>61.52</u>	<u>-166.15</u>	<u>Alaska</u>
<u>702190</u>	<u>0.89</u>	<u>Bethel Airport</u>	<u>60.78</u>	<u>-161.83</u>	<u>Alaska</u>
<u>702225</u>	<u>0.76</u>	<u>Huslia</u>	<u>65.70</u>	<u>-156.38</u>	<u>Alaska</u>
<u>702310</u>	<u>0.73</u>	<u>McGrath Arpt</u>	<u>62.95</u>	<u>-155.60</u>	<u>Alaska</u>
<u>702320</u>	<u>0.73</u>	<u>Aniak Airport</u>	<u>61.58</u>	<u>-159.53</u>	<u>Alaska</u>
<u>702460</u>	<u>0.65</u>	<u>Minchumina</u>	<u>63.88</u>	<u>-152.28</u>	<u>Alaska</u>
<u>702495</u>	<u>0.66</u>	<u>Hayes River</u>	<u>61.98</u>	<u>-152.08</u>	<u>Alaska</u>
<u>702510</u>	<u>0.68</u>	<u>Talkeetna State Arpt</u>	<u>62.32</u>	<u>-150.10</u>	<u>Alaska</u>
<u>702590</u>	<u>0.75</u>	<u>Kenai Municipal AP</u>	<u>60.58</u>	<u>-151.23</u>	<u>Alaska</u>
<u>702595</u>	<u>0.67</u>	<u>Soldotna</u>	<u>60.47</u>	<u>-151.03</u>	<u>Alaska</u>
<u>702600</u>	<u>0.70</u>	<u>Nenana Municipal AP</u>	<u>64.55</u>	<u>-149.10</u>	<u>Alaska</u>
<u>702606</u>	<u>0.73</u>	<u>Chulitna</u>	<u>62.88</u>	<u>-149.83</u>	<u>Alaska</u>
<u>702607</u>	<u>0.65</u>	<u>Hoonah</u>	<u>58.08</u>	<u>-135.45</u>	<u>Alaska</u>
<u>702610</u>	<u>0.70</u>	<u>Fairbanks Intl Arpt</u>	<u>64.82</u>	<u>-147.85</u>	<u>Alaska</u>
<u>702647</u>	<u>0.72</u>	<u>Healy River Airport</u>	<u>63.88</u>	<u>-149.02</u>	<u>Alaska</u>
<u>702650</u>	<u>0.68</u>	<u>Fairbanks/Eielson A</u>	<u>64.65</u>	<u>-147.10</u>	<u>Alaska</u>
<u>702670</u>	<u>0.73</u>	<u>Big Delta Allen AAF</u>	<u>64.00</u>	<u>-145.72</u>	<u>Alaska</u>
<u>702710</u>	<u>0.78</u>	<u>Gulkana Intermediate Field</u>	<u>62.15</u>	<u>-145.45</u>	<u>Alaska</u>
<u>702720</u>	<u>0.66</u>	<u>Anchorage/Elmendorf</u>	<u>61.25</u>	<u>-149.80</u>	<u>Alaska</u>
<u>702725</u>	<u>0.66</u>	<u>Lake Hood Seaplane</u>	<u>61.18</u>	<u>-149.97</u>	<u>Alaska</u>
<u>702730</u>	<u>0.71</u>	<u>Anchorage Intl AP</u>	<u>61.18</u>	<u>-150.00</u>	<u>Alaska</u>
<u>702735</u>	<u>0.61</u>	<u>Anchorage Merrill Field</u>	<u>61.22</u>	<u>-149.85</u>	<u>Alaska</u>
<u>702740</u>	<u>0.67</u>	<u>Palmer Municipal</u>	<u>61.60</u>	<u>-149.08</u>	<u>Alaska</u>
<u>702746</u>	<u>0.63</u>	<u>Birchwood</u>	<u>61.42</u>	<u>-149.52</u>	<u>Alaska</u>
<u>702750</u>	<u>0.70</u>	<u>Valdez Wso</u>	<u>61.13</u>	<u>-146.35</u>	<u>Alaska</u>
<u>702756</u>	<u>0.67</u>	<u>Valdez Pioneer Fiel</u>	<u>61.13</u>	<u>-146.27</u>	<u>Alaska</u>
<u>702757</u>	<u>0.75</u>	<u>Whittier</u>	<u>60.77</u>	<u>-148.68</u>	<u>Alaska</u>
<u>702770</u>	<u>0.75</u>	<u>Seward</u>	<u>60.12</u>	<u>-149.45</u>	<u>Alaska</u>
<u>702910</u>	<u>0.73</u>	<u>Northway Airport</u>	<u>62.97</u>	<u>-141.93</u>	<u>Alaska</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>702960</u>	<u>0.68</u>	<u>Cordova</u>	<u>60.50</u>	<u>-145.50</u>	<u>Alaska</u>
<u>702986</u>	<u>0.70</u>	<u>Big River Lake</u>	<u>60.82</u>	<u>-152.30</u>	<u>Alaska</u>
<u>703080</u>	<u>0.98</u>	<u>St Paul Island Arpt</u>	<u>57.17</u>	<u>-170.22</u>	<u>Alaska</u>
<u>703160</u>	<u>0.99</u>	<u>Cold Bay Arpt</u>	<u>55.20</u>	<u>-162.72</u>	<u>Alaska</u>
<u>703165</u>	<u>0.80</u>	<u>Sand Point</u>	<u>55.32</u>	<u>-160.52</u>	<u>Alaska</u>
<u>703210</u>	<u>0.76</u>	<u>Dillingham (AMOS)</u>	<u>59.05</u>	<u>-158.52</u>	<u>Alaska</u>
<u>703260</u>	<u>0.82</u>	<u>King Salmon Arpt</u>	<u>58.68</u>	<u>-156.65</u>	<u>Alaska</u>
<u>703330</u>	<u>0.90</u>	<u>Port Heiden</u>	<u>56.95</u>	<u>-158.62</u>	<u>Alaska</u>
<u>703400</u>	<u>0.78</u>	<u>Iliamna Arpt</u>	<u>59.75</u>	<u>-154.92</u>	<u>Alaska</u>
<u>703407</u>	<u>0.66</u>	<u>Sleetmute</u>	<u>61.72</u>	<u>-157.15</u>	<u>Alaska</u>
<u>703410</u>	<u>0.73</u>	<u>Homer Arpt</u>	<u>59.65</u>	<u>-151.48</u>	<u>Alaska</u>
<u>703430</u>	<u>0.80</u>	<u>Middleton Island Aut</u>	<u>59.47</u>	<u>-146.32</u>	<u>Alaska</u>
<u>703500</u>	<u>0.75</u>	<u>Kodiak Airport</u>	<u>57.75</u>	<u>-152.50</u>	<u>Alaska</u>
<u>703606</u>	<u>0.82</u>	<u>Togiak Village AWOS</u>	<u>59.05</u>	<u>-160.40</u>	<u>Alaska</u>
<u>703610</u>	<u>0.69</u>	<u>Yakutat State Arpt</u>	<u>59.52</u>	<u>-139.63</u>	<u>Alaska</u>
<u>703620</u>	<u>0.76</u>	<u>Skagway Airport</u>	<u>59.47</u>	<u>-135.30</u>	<u>Alaska</u>
<u>703670</u>	<u>0.67</u>	<u>Gustavus</u>	<u>58.42</u>	<u>-135.70</u>	<u>Alaska</u>
<u>703710</u>	<u>0.68</u>	<u>Sitka Japonski AP</u>	<u>57.05</u>	<u>-135.37</u>	<u>Alaska</u>
<u>703810</u>	<u>0.69</u>	<u>Juneau Intl Arpt</u>	<u>58.35</u>	<u>-134.58</u>	<u>Alaska</u>
<u>703855</u>	<u>0.66</u>	<u>Kake Seaplane Base</u>	<u>56.97</u>	<u>-133.95</u>	<u>Alaska</u>
<u>703860</u>	<u>0.64</u>	<u>Petersburg</u>	<u>56.80</u>	<u>-132.95</u>	<u>Alaska</u>
<u>703870</u>	<u>0.63</u>	<u>Wrangell</u>	<u>56.48</u>	<u>-132.37</u>	<u>Alaska</u>
<u>703884</u>	<u>0.71</u>	<u>Hydaburg Seaplane</u>	<u>55.20</u>	<u>-132.83</u>	<u>Alaska</u>
<u>703950</u>	<u>0.68</u>	<u>Ketchikan Intl AP</u>	<u>55.37</u>	<u>-131.72</u>	<u>Alaska</u>
<u>703980</u>	<u>0.66</u>	<u>Annette Island AP</u>	<u>55.05</u>	<u>-131.57</u>	<u>Alaska</u>
<u>704140</u>	<u>1.02</u>	<u>Shemya AFB</u>	<u>52.72</u>	<u>174.12</u>	<u>Alaska</u>
<u>704540</u>	<u>0.89</u>	<u>Adak NAS</u>	<u>51.88</u>	<u>-176.65</u>	<u>Alaska</u>
<u>704890</u>	<u>0.81</u>	<u>Dutch Harbor</u>	<u>53.90</u>	<u>-166.55</u>	<u>Alaska</u>
<u>699604</u>	<u>0.44</u>	<u>Yuma MCAS</u>	<u>32.65</u>	<u>-114.62</u>	<u>Arizona</u>
<u>722735</u>	<u>0.48</u>	<u>Douglas Bisbee-Douglas Intl A</u>	<u>31.47</u>	<u>-109.60</u>	<u>Arizona</u>
<u>722740</u>	<u>0.48</u>	<u>Tucson International AP</u>	<u>32.13</u>	<u>-110.95</u>	<u>Arizona</u>
<u>722745</u>	<u>0.45</u>	<u>Davis Monthan AFB</u>	<u>32.17</u>	<u>-110.88</u>	<u>Arizona</u>
<u>722747</u>	<u>0.48</u>	<u>Safford (AMOS)</u>	<u>32.82</u>	<u>-109.68</u>	<u>Arizona</u>
<u>722748</u>	<u>0.45</u>	<u>Casa Granda (AWOS)</u>	<u>32.95</u>	<u>-111.77</u>	<u>Arizona</u>
<u>722780</u>	<u>0.43</u>	<u>Phoenix Sky Harbor Intl AP</u>	<u>33.45</u>	<u>-111.98</u>	<u>Arizona</u>
<u>722784</u>	<u>0.45</u>	<u>Deer Valley/Phoenix</u>	<u>33.68</u>	<u>-112.08</u>	<u>Arizona</u>
<u>722785</u>	<u>0.47</u>	<u>Luke AFB</u>	<u>33.55</u>	<u>-112.37</u>	<u>Arizona</u>



**TABLE X1 U.S. Climates (Continued)**

<b>TMY3</b>	<b>wsf</b>	<b>Weather Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>State</b>
<u>722789</u>	<u>0.41</u>	<u>Scottsdale Muni</u>	<u>33.62</u>	<u>-111.92</u>	<u>Arizona</u>
<u>722800</u>	<u>0.43</u>	<u>Yuma Intl Arpt</u>	<u>32.67</u>	<u>-114.60</u>	<u>Arizona</u>
<u>723700</u>	<u>0.57</u>	<u>Kingman (AMOS)</u>	<u>35.27</u>	<u>-113.95</u>	<u>Arizona</u>
<u>723710</u>	<u>0.45</u>	<u>Page Muni (AMOS)</u>	<u>36.93</u>	<u>-111.45</u>	<u>Arizona</u>
<u>723723</u>	<u>0.51</u>	<u>Prescott Love Field</u>	<u>34.65</u>	<u>-112.42</u>	<u>Arizona</u>
<u>723740</u>	<u>0.55</u>	<u>Winslow Municipal AP</u>	<u>35.03</u>	<u>-110.72</u>	<u>Arizona</u>
<u>723747</u>	<u>0.59</u>	<u>Show Low Municipal</u>	<u>34.27</u>	<u>-110.00</u>	<u>Arizona</u>
<u>723755</u>	<u>0.59</u>	<u>Flagstaff Pulliam Arpt</u>	<u>35.13</u>	<u>-111.67</u>	<u>Arizona</u>
<u>723783</u>	<u>0.61</u>	<u>Grand Canyon Natl P</u>	<u>35.95</u>	<u>-112.15</u>	<u>Arizona</u>
<u>723403</u>	<u>0.44</u>	<u>Little Rock Adams Field</u>	<u>34.75</u>	<u>-92.23</u>	<u>Arkansas</u>
<u>723405</u>	<u>0.40</u>	<u>Little Rock AFB</u>	<u>34.92</u>	<u>-92.15</u>	<u>Arkansas</u>
<u>723406</u>	<u>0.45</u>	<u>Walnut Ridge (AWOS)</u>	<u>36.13</u>	<u>-90.92</u>	<u>Arkansas</u>
<u>723407</u>	<u>0.47</u>	<u>Jonesboro Muni</u>	<u>35.83</u>	<u>-90.65</u>	<u>Arkansas</u>
<u>723415</u>	<u>0.42</u>	<u>Memorial Fld</u>	<u>34.47</u>	<u>-93.10</u>	<u>Arkansas</u>
<u>723416</u>	<u>0.45</u>	<u>Stuttgart (AWOS)</u>	<u>34.60</u>	<u>-91.57</u>	<u>Arkansas</u>
<u>723417</u>	<u>0.44</u>	<u>Pine Bluff Faa AP</u>	<u>34.17</u>	<u>-91.93</u>	<u>Arkansas</u>
<u>723418</u>	<u>0.42</u>	<u>Texarkana Webb Field</u>	<u>33.45</u>	<u>-94.00</u>	<u>Arkansas</u>
<u>723419</u>	<u>0.41</u>	<u>El Dorado Goodwin Field</u>	<u>33.22</u>	<u>-92.82</u>	<u>Arkansas</u>
<u>723434</u>	<u>0.49</u>	<u>Springdale Muni</u>	<u>36.18</u>	<u>-94.12</u>	<u>Arkansas</u>
<u>723440</u>	<u>0.45</u>	<u>Fort Smith Regional AP</u>	<u>35.33</u>	<u>-94.37</u>	<u>Arkansas</u>
<u>723443</u>	<u>0.48</u>	<u>Siloam Spring (AWOS)</u>	<u>36.18</u>	<u>-94.48</u>	<u>Arkansas</u>
<u>723444</u>	<u>0.46</u>	<u>Bentonville (AWOS)</u>	<u>36.35</u>	<u>-94.22</u>	<u>Arkansas</u>
<u>723445</u>	<u>0.44</u>	<u>Fayetteville Drake Field</u>	<u>36.00</u>	<u>-94.17</u>	<u>Arkansas</u>
<u>723446</u>	<u>0.46</u>	<u>Harrison Faa AP</u>	<u>36.27</u>	<u>-93.15</u>	<u>Arkansas</u>
<u>723447</u>	<u>0.39</u>	<u>Flippin (AWOS)</u>	<u>36.30</u>	<u>-92.47</u>	<u>Arkansas</u>
<u>723448</u>	<u>0.41</u>	<u>Batesville (AWOS)</u>	<u>35.73</u>	<u>-91.65</u>	<u>Arkansas</u>
<u>723449</u>	<u>0.48</u>	<u>Rogers (AWOS)</u>	<u>36.37</u>	<u>-94.10</u>	<u>Arkansas</u>
<u>690150</u>	<u>0.50</u>	<u>Twentynine Palms</u>	<u>34.30</u>	<u>-116.17</u>	<u>California</u>
<u>722860</u>	<u>0.43</u>	<u>March AFB</u>	<u>33.90</u>	<u>-117.25</u>	<u>California</u>
<u>722868</u>	<u>0.45</u>	<u>Palm Springs Intl</u>	<u>33.83</u>	<u>-116.50</u>	<u>California</u>
<u>722869</u>	<u>0.42</u>	<u>Riverside Muni</u>	<u>33.95</u>	<u>-117.45</u>	<u>California</u>
<u>722880</u>	<u>0.39</u>	<u>Burbank–Glendale–Pasadena AP</u>	<u>34.20</u>	<u>-118.35</u>	<u>California</u>
<u>722885</u>	<u>0.39</u>	<u>Santa Monica Muni</u>	<u>34.02</u>	<u>-118.45</u>	<u>California</u>
<u>722886</u>	<u>0.39</u>	<u>Van Nuys Airport</u>	<u>34.22</u>	<u>-118.48</u>	<u>California</u>
<u>722895</u>	<u>0.55</u>	<u>Lompoc (AWOS)</u>	<u>34.67</u>	<u>-120.47</u>	<u>California</u>
<u>722897</u>	<u>0.51</u>	<u>San Luis Co Rgnl</u>	<u>35.23</u>	<u>-120.63</u>	<u>California</u>
<u>722899</u>	<u>0.45</u>	<u>Chino Airport</u>	<u>33.97</u>	<u>-117.63</u>	<u>California</u>

**TABLE X1 U.S. Climates (Continued)**

<b>TMY3</b>	<b>wsf</b>	<b>Weather Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>State</b>
<u>722900</u>	<u>0.38</u>	<u>San Diego Lindbergh Field</u>	<u>32.73</u>	<u>-117.17</u>	<u>California</u>
<u>722903</u>	<u>0.39</u>	<u>San Diego/Montgomery</u>	<u>32.82</u>	<u>-117.13</u>	<u>California</u>
<u>722904</u>	<u>0.40</u>	<u>Chula Vista Brown Field NAAS</u>	<u>32.58</u>	<u>-116.98</u>	<u>California</u>
<u>722906</u>	<u>0.39</u>	<u>San Diego North Island NAS</u>	<u>32.70</u>	<u>-117.20</u>	<u>California</u>
<u>722926</u>	<u>0.40</u>	<u>Camp Pendleton MCAS</u>	<u>33.30</u>	<u>-117.35</u>	<u>California</u>
<u>722927</u>	<u>0.38</u>	<u>Carlsbad/Palomar</u>	<u>33.13</u>	<u>-117.28</u>	<u>California</u>
<u>722930</u>	<u>0.39</u>	<u>San Diego Miramar NAS</u>	<u>32.87</u>	<u>-117.13</u>	<u>California</u>
<u>722950</u>	<u>0.42</u>	<u>Los Angeles Intl Arpt</u>	<u>33.93</u>	<u>-118.40</u>	<u>California</u>
<u>722956</u>	<u>0.38</u>	<u>Jack Northrop Fld H</u>	<u>33.92</u>	<u>-118.33</u>	<u>California</u>
<u>722970</u>	<u>0.38</u>	<u>Long Beach Daugherty Fld</u>	<u>33.83</u>	<u>-118.17</u>	<u>California</u>
<u>722976</u>	<u>0.34</u>	<u>Fullerton Municipal</u>	<u>33.87</u>	<u>-117.98</u>	<u>California</u>
<u>722977</u>	<u>0.36</u>	<u>Santa Ana John Wayne AP</u>	<u>33.68</u>	<u>-117.87</u>	<u>California</u>
<u>723805</u>	<u>0.51</u>	<u>Needles Airport</u>	<u>34.77</u>	<u>-114.62</u>	<u>California</u>
<u>723810</u>	<u>0.59</u>	<u>Edwards AFB</u>	<u>34.90</u>	<u>-117.87</u>	<u>California</u>
<u>723815</u>	<u>0.58</u>	<u>Daggett Barstow-Daggett AP</u>	<u>34.85</u>	<u>-116.80</u>	<u>California</u>
<u>723816</u>	<u>0.62</u>	<u>Lancaster Gen Wm Fox Field</u>	<u>34.73</u>	<u>-118.22</u>	<u>California</u>
<u>723820</u>	<u>0.57</u>	<u>Palmdale Airport</u>	<u>34.63</u>	<u>-118.08</u>	<u>California</u>
<u>723830</u>	<u>0.68</u>	<u>Sandberg</u>	<u>34.75</u>	<u>-118.72</u>	<u>California</u>
<u>723840</u>	<u>0.43</u>	<u>Bakersfield Meadows Field</u>	<u>35.43</u>	<u>-119.05</u>	<u>California</u>
<u>723890</u>	<u>0.45</u>	<u>Fresno Yosemite Intl AP</u>	<u>36.78</u>	<u>-119.72</u>	<u>California</u>
<u>723895</u>	<u>0.42</u>	<u>Porterville (AWOS)</u>	<u>36.03</u>	<u>-119.07</u>	<u>California</u>
<u>723896</u>	<u>0.43</u>	<u>Visalia Muni (AWOS)</u>	<u>36.32</u>	<u>-119.40</u>	<u>California</u>
<u>723910</u>	<u>0.45</u>	<u>Point Mugu Nf</u>	<u>34.12</u>	<u>-119.12</u>	<u>California</u>
<u>723925</u>	<u>0.44</u>	<u>Santa Barbara Municipal AP</u>	<u>34.43</u>	<u>-119.85</u>	<u>California</u>
<u>723926</u>	<u>0.43</u>	<u>Camarillo (AWOS)</u>	<u>34.22</u>	<u>-119.08</u>	<u>California</u>
<u>723927</u>	<u>0.45</u>	<u>Oxnard Airport</u>	<u>34.20</u>	<u>-119.20</u>	<u>California</u>
<u>723940</u>	<u>0.52</u>	<u>Santa Maria Public Arpt</u>	<u>34.92</u>	<u>-120.47</u>	<u>California</u>
<u>723965</u>	<u>0.53</u>	<u>Paso Robles Municipal Arpt</u>	<u>35.67</u>	<u>-120.63</u>	<u>California</u>
<u>724800</u>	<u>0.55</u>	<u>Bishop Airport</u>	<u>37.37</u>	<u>-118.35</u>	<u>California</u>
<u>724815</u>	<u>0.46</u>	<u>Merced/Macready Fld</u>	<u>37.28</u>	<u>-120.52</u>	<u>California</u>
<u>724830</u>	<u>0.51</u>	<u>Sacramento Executive Arpt</u>	<u>38.50</u>	<u>-121.50</u>	<u>California</u>
<u>724837</u>	<u>0.45</u>	<u>Beale AFB</u>	<u>39.13</u>	<u>-121.43</u>	<u>California</u>
<u>724838</u>	<u>0.50</u>	<u>Yuba Co</u>	<u>39.10</u>	<u>-121.57</u>	<u>California</u>
<u>724839</u>	<u>0.51</u>	<u>Sacramento Metropolitan AP</u>	<u>38.70</u>	<u>-121.58</u>	<u>California</u>
<u>724915</u>	<u>0.49</u>	<u>Monterey Naf</u>	<u>36.60</u>	<u>-121.87</u>	<u>California</u>
<u>724917</u>	<u>0.54</u>	<u>Salinas Municipal AP</u>	<u>36.67</u>	<u>-121.60</u>	<u>California</u>
<u>724920</u>	<u>0.50</u>	<u>Stockton Metropolitan Arpt</u>	<u>37.90</u>	<u>-121.23</u>	<u>California</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>724926</u>	<u>0.47</u>	<u>Modesto City–County AP</u>	<u>37.63</u>	<u>–120.95</u>	<u>California</u>
<u>724927</u>	<u>0.53</u>	<u>Livermore Municipal</u>	<u>37.70</u>	<u>–121.82</u>	<u>California</u>
<u>724930</u>	<u>0.54</u>	<u>Oakland Metropolitan Arpt</u>	<u>37.72</u>	<u>–122.22</u>	<u>California</u>
<u>724935</u>	<u>0.47</u>	<u>Hayward Air Term</u>	<u>37.67</u>	<u>–122.12</u>	<u>California</u>
<u>724936</u>	<u>0.53</u>	<u>Concord–Buchanan Field</u>	<u>38.00</u>	<u>–122.05</u>	<u>California</u>
<u>724940</u>	<u>0.60</u>	<u>San Francisco Intl AP</u>	<u>37.62</u>	<u>–122.40</u>	<u>California</u>
<u>724945</u>	<u>0.48</u>	<u>San Jose Intl AP</u>	<u>37.37</u>	<u>–121.93</u>	<u>California</u>
<u>724955</u>	<u>0.55</u>	<u>Napa Co. Airport</u>	<u>38.22</u>	<u>–122.28</u>	<u>California</u>
<u>724957</u>	<u>0.49</u>	<u>Santa Rosa (AWOS)</u>	<u>38.52</u>	<u>–122.82</u>	<u>California</u>
<u>725845</u>	<u>0.44</u>	<u>Blue Canyon AP</u>	<u>39.30</u>	<u>–120.72</u>	<u>California</u>
<u>725846</u>	<u>0.66</u>	<u>Truckee–Tahoe</u>	<u>39.32</u>	<u>–120.13</u>	<u>California</u>
<u>725847</u>	<u>0.64</u>	<u>South Lake Tahoe</u>	<u>38.90</u>	<u>–120.00</u>	<u>California</u>
<u>725905</u>	<u>0.47</u>	<u>Ukiah Municipal AP</u>	<u>39.13</u>	<u>–123.20</u>	<u>California</u>
<u>725910</u>	<u>0.50</u>	<u>Red Bluff Municipal Arpt</u>	<u>40.15</u>	<u>–122.25</u>	<u>California</u>
<u>725920</u>	<u>0.47</u>	<u>Redding Municipal Arpt</u>	<u>40.52</u>	<u>–122.32</u>	<u>California</u>
<u>725945</u>	<u>0.56</u>	<u>Arcata Airport</u>	<u>40.98</u>	<u>–124.10</u>	<u>California</u>
<u>725946</u>	<u>0.60</u>	<u>Crescent City Faa Ai</u>	<u>41.78</u>	<u>–124.23</u>	<u>California</u>
<u>725955</u>	<u>0.55</u>	<u>Montague Siskiyou County AP</u>	<u>41.78</u>	<u>–122.47</u>	<u>California</u>
<u>725958</u>	<u>0.59</u>	<u>Alturas</u>	<u>41.50</u>	<u>–120.53</u>	<u>California</u>
<u>745090</u>	<u>0.45</u>	<u>Mountain View Moffett Fld NAS</u>	<u>37.40</u>	<u>–122.05</u>	<u>California</u>
<u>745160</u>	<u>0.67</u>	<u>Travis Field AFB</u>	<u>38.27</u>	<u>–121.93</u>	<u>California</u>
<u>746120</u>	<u>0.52</u>	<u>China Lake Naf</u>	<u>35.68</u>	<u>–117.68</u>	<u>California</u>
<u>747020</u>	<u>0.50</u>	<u>Lemoore Reeves NAS</u>	<u>36.33</u>	<u>–119.95</u>	<u>California</u>
<u>747185</u>	<u>0.46</u>	<u>Imperial</u>	<u>32.83</u>	<u>–115.58</u>	<u>California</u>
<u>747187</u>	<u>0.46</u>	<u>Palm Springs Thermal AP</u>	<u>33.63</u>	<u>–116.17</u>	<u>California</u>
<u>747188</u>	<u>0.48</u>	<u>Blythe Riverside Co Arpt</u>	<u>33.62</u>	<u>–114.72</u>	<u>California</u>
<u>724620</u>	<u>0.67</u>	<u>Alamosa San Luis Valley Rgnl</u>	<u>37.43</u>	<u>–105.87</u>	<u>Colorado</u>
<u>724625</u>	<u>0.58</u>	<u>Durango/La Plata Co</u>	<u>37.15</u>	<u>–107.75</u>	<u>Colorado</u>
<u>724635</u>	<u>0.63</u>	<u>La Junta Municipal AP</u>	<u>38.05</u>	<u>–103.53</u>	<u>Colorado</u>
<u>724636</u>	<u>0.62</u>	<u>Lamar Municipal</u>	<u>38.07</u>	<u>–102.68</u>	<u>Colorado</u>
<u>724640</u>	<u>0.61</u>	<u>Pueblo Memorial AP</u>	<u>38.28</u>	<u>–104.50</u>	<u>Colorado</u>
<u>724645</u>	<u>0.61</u>	<u>Trinidad Las Animas County AP</u>	<u>37.27</u>	<u>–104.33</u>	<u>Colorado</u>
<u>724660</u>	<u>0.63</u>	<u>Colorado Springs Muni AP</u>	<u>38.82</u>	<u>–104.72</u>	<u>Colorado</u>
<u>724665</u>	<u>0.66</u>	<u>Limon</u>	<u>39.18</u>	<u>–103.72</u>	<u>Colorado</u>
<u>724666</u>	<u>0.61</u>	<u>Denver/Centennial [Golden – NREL]</u>	<u>39.74</u>	<u>–105.18</u>	<u>Colorado</u>
<u>724673</u>	<u>0.74</u>	<u>Leadville/Lake Co.</u>	<u>39.22</u>	<u>–106.32</u>	<u>Colorado</u>
<u>724675</u>	<u>0.63</u>	<u>Eagle County AP</u>	<u>39.65</u>	<u>–106.92</u>	<u>Colorado</u>

**TABLE X1 U.S. Climates (Continued)**

<b>TMY3</b>	<b>wsf</b>	<b>Weather Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>State</b>
<u>724676</u>	<u>0.64</u>	<u>Aspen Pitkin Co Sar</u>	<u>39.22</u>	<u>-106.87</u>	<u>Colorado</u>
<u>724677</u>	<u>0.66</u>	<u>Gunnison Co. (AWOS)</u>	<u>38.53</u>	<u>-106.93</u>	<u>Colorado</u>
<u>724695</u>	<u>0.60</u>	<u>Aurora Buckley Field ANGB</u>	<u>39.72</u>	<u>-104.75</u>	<u>Colorado</u>
<u>724698</u>	<u>0.67</u>	<u>Akron Washington Co AP</u>	<u>40.17</u>	<u>-103.23</u>	<u>Colorado</u>
<u>724699</u>	<u>0.58</u>	<u>Broomfield/Jeffco [Boulder – Surfrad]</u>	<u>40.13</u>	<u>-105.24</u>	<u>Colorado</u>
<u>724760</u>	<u>0.57</u>	<u>Grand Junction Walker Field</u>	<u>39.13</u>	<u>-108.53</u>	<u>Colorado</u>
<u>724765</u>	<u>0.56</u>	<u>Montrose Co. Arpt</u>	<u>38.50</u>	<u>-107.90</u>	<u>Colorado</u>
<u>724767</u>	<u>0.58</u>	<u>Cortez/Montezuma Co</u>	<u>37.30</u>	<u>-108.63</u>	<u>Colorado</u>
<u>724768</u>	<u>0.60</u>	<u>Greeley/Weld (AWOS)</u>	<u>40.43</u>	<u>-104.63</u>	<u>Colorado</u>
<u>724769</u>	<u>0.59</u>	<u>Fort Collins (AWOS)</u>	<u>40.45</u>	<u>-105.02</u>	<u>Colorado</u>
<u>725650</u>	<u>0.59</u>	<u>Denver Intl AP</u>	<u>39.83</u>	<u>-104.65</u>	<u>Colorado</u>
<u>725700</u>	<u>0.64</u>	<u>Craig–Moffat</u>	<u>40.50</u>	<u>-107.53</u>	<u>Colorado</u>
<u>725715</u>	<u>0.66</u>	<u>Hayden/Yampa (AWOS)</u>	<u>40.48</u>	<u>-107.22</u>	<u>Colorado</u>
<u>725717</u>	<u>0.56</u>	<u>Rifle/Garfield Rgnl</u>	<u>39.53</u>	<u>-107.72</u>	<u>Colorado</u>
<u>725029</u>	<u>0.50</u>	<u>Oxford (AWOS)</u>	<u>41.48</u>	<u>-73.13</u>	<u>Connecticut</u>
<u>725040</u>	<u>0.59</u>	<u>Bridgeport Sikorsky Memorial</u>	<u>41.18</u>	<u>-73.15</u>	<u>Connecticut</u>
<u>725045</u>	<u>0.52</u>	<u>New Haven Tweed Airport</u>	<u>41.27</u>	<u>-72.88</u>	<u>Connecticut</u>
<u>725046</u>	<u>0.53</u>	<u>Groton New London AP</u>	<u>41.33</u>	<u>-72.05</u>	<u>Connecticut</u>
<u>725080</u>	<u>0.53</u>	<u>Hartford Bradley Intl AP</u>	<u>41.93</u>	<u>-72.68</u>	<u>Connecticut</u>
<u>725086</u>	<u>0.51</u>	<u>Danbury Municipal</u>	<u>41.37</u>	<u>-73.48</u>	<u>Connecticut</u>
<u>725087</u>	<u>0.48</u>	<u>Hartford Brainard Fd</u>	<u>41.73</u>	<u>-72.65</u>	<u>Connecticut</u>
<u>724088</u>	<u>0.47</u>	<u>Dover AFB</u>	<u>39.13</u>	<u>-75.47</u>	<u>Delaware</u>
<u>724089</u>	<u>0.52</u>	<u>Wilmington New Castle Cnty AP</u>	<u>39.67</u>	<u>-75.60</u>	<u>Delaware</u>
<u>722010</u>	<u>0.49</u>	<u>Key West Intl Arpt</u>	<u>24.55</u>	<u>-81.75</u>	<u>Florida</u>
<u>722015</u>	<u>0.41</u>	<u>Key West NAS</u>	<u>24.58</u>	<u>-81.68</u>	<u>Florida</u>
<u>722016</u>	<u>0.39</u>	<u>Marathon Airport</u>	<u>24.73</u>	<u>-81.05</u>	<u>Florida</u>
<u>722020</u>	<u>0.41</u>	<u>Miami Intl AP</u>	<u>25.82</u>	<u>-80.30</u>	<u>Florida</u>
<u>722024</u>	<u>0.38</u>	<u>Miami/Opa Locka</u>	<u>25.90</u>	<u>-80.28</u>	<u>Florida</u>
<u>722025</u>	<u>0.41</u>	<u>Fort Lauderdale Hollywood Int</u>	<u>26.07</u>	<u>-80.15</u>	<u>Florida</u>
<u>722026</u>	<u>0.33</u>	<u>Homestead AFB</u>	<u>25.48</u>	<u>-80.38</u>	<u>Florida</u>
<u>722029</u>	<u>0.37</u>	<u>Miami/Kendall–Tamia</u>	<u>25.65</u>	<u>-80.43</u>	<u>Florida</u>
<u>722030</u>	<u>0.41</u>	<u>West Palm Beach Intl Arpt</u>	<u>26.68</u>	<u>-80.10</u>	<u>Florida</u>
<u>722038</u>	<u>0.35</u>	<u>Naples Municipal</u>	<u>26.15</u>	<u>-81.77</u>	<u>Florida</u>
<u>722039</u>	<u>0.40</u>	<u>Fort Lauderdale</u>	<u>26.20</u>	<u>-80.17</u>	<u>Florida</u>
<u>722040</u>	<u>0.38</u>	<u>Melbourne Regional AP</u>	<u>28.12</u>	<u>-80.65</u>	<u>Florida</u>
<u>722045</u>	<u>0.38</u>	<u>Vero Beach Municipal Arpt</u>	<u>27.65</u>	<u>-80.42</u>	<u>Florida</u>
<u>722050</u>	<u>0.39</u>	<u>Orlando Intl Arpt</u>	<u>28.43</u>	<u>-81.33</u>	<u>Florida</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>722053</u>	<u>0.38</u>	<u>Orlando Executive AP</u>	<u>28.55</u>	<u>-81.33</u>	<u>Florida</u>
<u>722055</u>	<u>0.32</u>	<u>Ocala Muni (AWOS)</u>	<u>29.17</u>	<u>-82.22</u>	<u>Florida</u>
<u>722056</u>	<u>0.37</u>	<u>Daytona Beach Intl AP</u>	<u>29.18</u>	<u>-81.07</u>	<u>Florida</u>
<u>722057</u>	<u>0.38</u>	<u>Orlando Sanford Airport</u>	<u>28.78</u>	<u>-81.25</u>	<u>Florida</u>
<u>722060</u>	<u>0.38</u>	<u>Jacksonville Intl Arpt</u>	<u>30.50</u>	<u>-81.70</u>	<u>Florida</u>
<u>722065</u>	<u>0.41</u>	<u>Jacksonville NAS</u>	<u>30.23</u>	<u>-81.67</u>	<u>Florida</u>
<u>722066</u>	<u>0.41</u>	<u>Mayport Ns</u>	<u>30.40</u>	<u>-81.42</u>	<u>Florida</u>
<u>722068</u>	<u>0.39</u>	<u>Jacksonville/Craig</u>	<u>30.33</u>	<u>-81.52</u>	<u>Florida</u>
<u>722103</u>	<u>0.35</u>	<u>St Lucie Co Intl</u>	<u>27.48</u>	<u>-80.37</u>	<u>Florida</u>
<u>722104</u>	<u>0.42</u>	<u>St Petersburg Albert Whitted</u>	<u>27.77</u>	<u>-82.63</u>	<u>Florida</u>
<u>722106</u>	<u>0.35</u>	<u>Fort Myers Page Field</u>	<u>26.58</u>	<u>-81.87</u>	<u>Florida</u>
<u>722108</u>	<u>0.37</u>	<u>Southwest Florida I</u>	<u>26.53</u>	<u>-81.75</u>	<u>Florida</u>
<u>722110</u>	<u>0.37</u>	<u>Tampa International AP</u>	<u>27.97</u>	<u>-82.53</u>	<u>Florida</u>
<u>722115</u>	<u>0.38</u>	<u>Sarasota Bradenton</u>	<u>27.38</u>	<u>-82.55</u>	<u>Florida</u>
<u>722116</u>	<u>0.43</u>	<u>St Petersburg Clear</u>	<u>27.90</u>	<u>-82.68</u>	<u>Florida</u>
<u>722119</u>	<u>0.34</u>	<u>Lakeland Linder Rgn</u>	<u>27.98</u>	<u>-82.02</u>	<u>Florida</u>
<u>722140</u>	<u>0.37</u>	<u>Tallahassee Regional AP [ISIS]</u>	<u>30.38</u>	<u>-84.37</u>	<u>Florida</u>
<u>722146</u>	<u>0.38</u>	<u>Gainesville Regional AP</u>	<u>29.70</u>	<u>-82.28</u>	<u>Florida</u>
<u>722210</u>	<u>0.42</u>	<u>Valparaiso Elgin AFB</u>	<u>30.48</u>	<u>-86.52</u>	<u>Florida</u>
<u>722215</u>	<u>0.35</u>	<u>Crestview Bob Sikes AP</u>	<u>30.78</u>	<u>-86.52</u>	<u>Florida</u>
<u>722223</u>	<u>0.41</u>	<u>Pensacola Regional AP</u>	<u>30.48</u>	<u>-87.18</u>	<u>Florida</u>
<u>722225</u>	<u>0.42</u>	<u>Pensacola Forest Sherman NAS</u>	<u>30.35</u>	<u>-87.32</u>	<u>Florida</u>
<u>722226</u>	<u>0.39</u>	<u>Whiting Field NAAS</u>	<u>30.72</u>	<u>-87.02</u>	<u>Florida</u>
<u>722245</u>	<u>0.39</u>	<u>Panama City Bay Co</u>	<u>30.20</u>	<u>-85.68</u>	<u>Florida</u>
<u>747750</u>	<u>0.41</u>	<u>Tyndall AFB</u>	<u>30.07</u>	<u>-85.58</u>	<u>Florida</u>
<u>747770</u>	<u>0.42</u>	<u>Valparaiso Hurlburt</u>	<u>30.42</u>	<u>-86.68</u>	<u>Florida</u>
<u>747880</u>	<u>0.38</u>	<u>MacDill AFB</u>	<u>27.85</u>	<u>-82.52</u>	<u>Florida</u>
<u>747946</u>	<u>0.35</u>	<u>NASA Shuttle Fclty</u>	<u>28.62</u>	<u>-80.72</u>	<u>Florida</u>
<u>722070</u>	<u>0.40</u>	<u>Savannah Intl AP</u>	<u>32.12</u>	<u>-81.20</u>	<u>Georgia</u>
<u>722135</u>	<u>0.37</u>	<u>Alma Bacon County AP</u>	<u>31.53</u>	<u>-82.50</u>	<u>Georgia</u>
<u>722136</u>	<u>0.40</u>	<u>Brunswick Golden Is</u>	<u>31.25</u>	<u>-81.47</u>	<u>Georgia</u>
<u>722137</u>	<u>0.40</u>	<u>Brunswick Malcolm McKinnon AP</u>	<u>31.15</u>	<u>-81.38</u>	<u>Georgia</u>
<u>722160</u>	<u>0.38</u>	<u>Albany Dougherty County AP</u>	<u>31.53</u>	<u>-84.18</u>	<u>Georgia</u>
<u>722166</u>	<u>0.36</u>	<u>Valdosta Wb Airport</u>	<u>30.78</u>	<u>-83.28</u>	<u>Georgia</u>
<u>722170</u>	<u>0.41</u>	<u>Macon Middle Ga Regional AP</u>	<u>32.68</u>	<u>-83.65</u>	<u>Georgia</u>
<u>722175</u>	<u>0.39</u>	<u>Warner Robins AFB</u>	<u>32.63</u>	<u>-83.60</u>	<u>Georgia</u>
<u>722180</u>	<u>0.41</u>	<u>Augusta Bush Field</u>	<u>33.37</u>	<u>-81.97</u>	<u>Georgia</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>722190</u>	<u>0.46</u>	<u>Atlanta Hartsfield Intl AP</u>	<u>33.63</u>	<u>-84.43</u>	<u>Georgia</u>
<u>722195</u>	<u>0.37</u>	<u>Fulton Co Arpt Brow</u>	<u>33.77</u>	<u>-84.52</u>	<u>Georgia</u>
<u>722196</u>	<u>0.39</u>	<u>Dekalb Peachtree</u>	<u>33.87</u>	<u>-84.30</u>	<u>Georgia</u>
<u>722250</u>	<u>0.35</u>	<u>Fort Benning Lawson</u>	<u>32.35</u>	<u>-85.00</u>	<u>Georgia</u>
<u>722255</u>	<u>0.39</u>	<u>Columbus Metropolitan Arpt</u>	<u>32.52</u>	<u>-84.95</u>	<u>Georgia</u>
<u>722270</u>	<u>0.40</u>	<u>Marietta Dobbins AFB</u>	<u>33.92</u>	<u>-84.52</u>	<u>Georgia</u>
<u>723110</u>	<u>0.40</u>	<u>Athens Ben Epps AP</u>	<u>33.95</u>	<u>-83.33</u>	<u>Georgia</u>
<u>723200</u>	<u>0.38</u>	<u>Rome R B Russell AP</u>	<u>34.35</u>	<u>-85.17</u>	<u>Georgia</u>
<u>747804</u>	<u>0.40</u>	<u>Hunter AAF</u>	<u>32.00</u>	<u>-81.15</u>	<u>Georgia</u>
<u>747810</u>	<u>0.36</u>	<u>Moody AFB/Valdosta</u>	<u>30.97</u>	<u>-83.20</u>	<u>Georgia</u>
<u>912120</u>	<u>0.49</u>	<u>Guam Wfo</u>	<u>13.48</u>	<u>144.80</u>	<u>Guam</u>
<u>912180</u>	<u>0.46</u>	<u>Andersen AFB</u>	<u>13.57</u>	<u>144.92</u>	<u>Guam</u>
<u>911650</u>	<u>0.51</u>	<u>Lihue Airport</u>	<u>21.98</u>	<u>-159.33</u>	<u>Hawaii</u>
<u>911760</u>	<u>0.35</u>	<u>Kaneohe Bay MCAS</u>	<u>21.45</u>	<u>-157.78</u>	<u>Hawaii</u>
<u>911780</u>	<u>0.35</u>	<u>Barbers Point NAS</u>	<u>21.32</u>	<u>-158.07</u>	<u>Hawaii</u>
<u>911820</u>	<u>0.42</u>	<u>Honolulu Intl Arpt</u>	<u>21.32</u>	<u>-157.93</u>	<u>Hawaii</u>
<u>911860</u>	<u>0.45</u>	<u>Molokai (AMOS)</u>	<u>21.15</u>	<u>-157.10</u>	<u>Hawaii</u>
<u>911900</u>	<u>0.48</u>	<u>Kahului Airport</u>	<u>20.90</u>	<u>-156.43</u>	<u>Hawaii</u>
<u>911904</u>	<u>0.55</u>	<u>Kapalua</u>	<u>20.95</u>	<u>-156.63</u>	<u>Hawaii</u>
<u>911905</u>	<u>0.47</u>	<u>Lanai</u>	<u>20.78</u>	<u>-156.95</u>	<u>Hawaii</u>
<u>911975</u>	<u>0.36</u>	<u>Kona Intl At Keahol</u>	<u>19.73</u>	<u>-156.05</u>	<u>Hawaii</u>
<u>912850</u>	<u>0.29</u>	<u>Hilo International AP</u>	<u>19.72</u>	<u>-155.05</u>	<u>Hawaii</u>
<u>725780</u>	<u>0.68</u>	<u>Pocatello Regional AP</u>	<u>42.92</u>	<u>-112.57</u>	<u>Idaho</u>
<u>725785</u>	<u>0.68</u>	<u>Idaho Falls Fanning Field</u>	<u>43.52</u>	<u>-112.07</u>	<u>Idaho</u>
<u>725786</u>	<u>0.60</u>	<u>Malad City</u>	<u>42.15</u>	<u>-112.28</u>	<u>Idaho</u>
<u>725865</u>	<u>0.61</u>	<u>Hailey/Friedman Mem</u>	<u>43.50</u>	<u>-114.30</u>	<u>Idaho</u>
<u>725866</u>	<u>0.65</u>	<u>Joslin Fld Magic Va [Twin Falls – UO]</u>	<u>42.55</u>	<u>-114.35</u>	<u>Idaho</u>
<u>725867</u>	<u>0.60</u>	<u>Burley Municipal Arpt</u>	<u>42.53</u>	<u>-113.77</u>	<u>Idaho</u>
<u>725868</u>	<u>0.70</u>	<u>Soda Springs/Tigert</u>	<u>42.65</u>	<u>-111.58</u>	<u>Idaho</u>
<u>726810</u>	<u>0.56</u>	<u>Boise Air Terminal [UO]</u>	<u>43.62</u>	<u>-116.21</u>	<u>Idaho</u>
<u>726813</u>	<u>0.55</u>	<u>Caldwell (AWOS)</u>	<u>43.63</u>	<u>-116.63</u>	<u>Idaho</u>
<u>726815</u>	<u>0.63</u>	<u>Mountain Home AFB</u>	<u>43.05</u>	<u>-115.87</u>	<u>Idaho</u>
<u>726865</u>	<u>0.58</u>	<u>Salmon/Lemhi (AWOS)</u>	<u>45.12</u>	<u>-113.88</u>	<u>Idaho</u>
<u>727830</u>	<u>0.51</u>	<u>Lewiston Nez Perce Cnty AP</u>	<u>46.37</u>	<u>-117.02</u>	<u>Idaho</u>
<u>727834</u>	<u>0.60</u>	<u>Coeur D'Alene (AWOS)</u>	<u>47.77</u>	<u>-116.82</u>	<u>Idaho</u>
<u>724335</u>	<u>0.44</u>	<u>Mount Vernon (AWOS)</u>	<u>38.32</u>	<u>-88.87</u>	<u>Illinois</u>
<u>724336</u>	<u>0.44</u>	<u>Southern Illinois</u>	<u>37.77</u>	<u>-89.25</u>	<u>Illinois</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>724338</u>	<u>0.48</u>	<u>Belleville Scott AFB</u>	<u>38.55</u>	<u>-89.85</u>	<u>Illinois</u>
<u>724339</u>	<u>0.47</u>	<u>Marion Regional</u>	<u>37.75</u>	<u>-89.02</u>	<u>Illinois</u>
<u>724390</u>	<u>0.57</u>	<u>Springfield Capital AP</u>	<u>39.85</u>	<u>-89.68</u>	<u>Illinois</u>
<u>724396</u>	<u>0.51</u>	<u>Quincy Muni Baldwin Fld</u>	<u>39.93</u>	<u>-91.20</u>	<u>Illinois</u>
<u>724397</u>	<u>0.60</u>	<u>Central Illinois Rg</u>	<u>40.47</u>	<u>-88.92</u>	<u>Illinois</u>
<u>725300</u>	<u>0.60</u>	<u>Chicago Ohare Intl AP</u>	<u>41.98</u>	<u>-87.92</u>	<u>Illinois</u>
<u>725305</u>	<u>0.58</u>	<u>W. Chicago/Du Page</u>	<u>41.92</u>	<u>-88.25</u>	<u>Illinois</u>
<u>725314</u>	<u>0.45</u>	<u>Cahokia/St. Louis</u>	<u>38.57</u>	<u>-90.15</u>	<u>Illinois</u>
<u>725315</u>	<u>0.57</u>	<u>Univ Of Illinois Wi [Bondville – Surfrad]</u>	<u>40.06</u>	<u>-88.37</u>	<u>Illinois</u>
<u>725316</u>	<u>0.56</u>	<u>Decatur</u>	<u>39.83</u>	<u>-88.87</u>	<u>Illinois</u>
<u>725320</u>	<u>0.55</u>	<u>Peoria Greater Peoria AP</u>	<u>40.67</u>	<u>-89.68</u>	<u>Illinois</u>
<u>725326</u>	<u>0.51</u>	<u>Sterling Rockfalls</u>	<u>41.75</u>	<u>-89.67</u>	<u>Illinois</u>
<u>725340</u>	<u>0.56</u>	<u>Chicago Midway AP</u>	<u>41.78</u>	<u>-87.75</u>	<u>Illinois</u>
<u>725347</u>	<u>0.59</u>	<u>Chicago/Waukegan</u>	<u>42.42</u>	<u>-87.87</u>	<u>Illinois</u>
<u>725430</u>	<u>0.58</u>	<u>Rockford Greater Rockford AP</u>	<u>42.20</u>	<u>-89.10</u>	<u>Illinois</u>
<u>725440</u>	<u>0.58</u>	<u>Moline Quad City Intl AP</u>	<u>41.47</u>	<u>-90.52</u>	<u>Illinois</u>
<u>744655</u>	<u>0.57</u>	<u>Aurora Municipal</u>	<u>41.77</u>	<u>-88.47</u>	<u>Illinois</u>
<u>724320</u>	<u>0.48</u>	<u>Evansville Regional AP</u>	<u>38.05</u>	<u>-87.53</u>	<u>Indiana</u>
<u>724365</u>	<u>0.45</u>	<u>Huntingburg</u>	<u>38.25</u>	<u>-86.95</u>	<u>Indiana</u>
<u>724373</u>	<u>0.50</u>	<u>Terre Haute Hulman Regional A</u>	<u>39.45</u>	<u>-87.30</u>	<u>Indiana</u>
<u>724375</u>	<u>0.47</u>	<u>Monroe Co</u>	<u>39.13</u>	<u>-86.62</u>	<u>Indiana</u>
<u>724380</u>	<u>0.54</u>	<u>Indianapolis Intl AP</u>	<u>39.72</u>	<u>-86.27</u>	<u>Indiana</u>
<u>724386</u>	<u>0.53</u>	<u>Lafayette Purdue Univ AP</u>	<u>40.42</u>	<u>-86.93</u>	<u>Indiana</u>
<u>725330</u>	<u>0.57</u>	<u>Fort Wayne Intl AP</u>	<u>41.00</u>	<u>-85.20</u>	<u>Indiana</u>
<u>725335</u>	<u>0.54</u>	<u>Grissom Arb</u>	<u>40.65</u>	<u>-86.15</u>	<u>Indiana</u>
<u>725336</u>	<u>0.53</u>	<u>Delaware Co Johnson</u>	<u>40.23</u>	<u>-85.40</u>	<u>Indiana</u>
<u>725350</u>	<u>0.57</u>	<u>South Bend Michiana Rgnl AP</u>	<u>41.70</u>	<u>-86.33</u>	<u>Indiana</u>
<u>725450</u>	<u>0.56</u>	<u>Cedar Rapids Municipal AP</u>	<u>41.88</u>	<u>-91.72</u>	<u>Iowa</u>
<u>725453</u>	<u>0.54</u>	<u>Atlantic</u>	<u>41.40</u>	<u>-95.05</u>	<u>Iowa</u>
<u>725454</u>	<u>0.54</u>	<u>Washington</u>	<u>41.28</u>	<u>-91.67</u>	<u>Iowa</u>
<u>725455</u>	<u>0.54</u>	<u>Burlington Municipal AP</u>	<u>40.78</u>	<u>-91.12</u>	<u>Iowa</u>
<u>725456</u>	<u>0.48</u>	<u>Keokuk Muni</u>	<u>40.47</u>	<u>-91.43</u>	<u>Iowa</u>
<u>725457</u>	<u>0.59</u>	<u>Algona</u>	<u>43.08</u>	<u>-94.27</u>	<u>Iowa</u>
<u>725460</u>	<u>0.58</u>	<u>Des Moines Intl AP</u>	<u>41.53</u>	<u>-93.67</u>	<u>Iowa</u>
<u>725463</u>	<u>0.56</u>	<u>Charles City</u>	<u>43.07</u>	<u>-92.62</u>	<u>Iowa</u>
<u>725464</u>	<u>0.55</u>	<u>Newton Muni</u>	<u>41.68</u>	<u>-93.02</u>	<u>Iowa</u>
<u>725465</u>	<u>0.60</u>	<u>Ottumwa Industrial AP</u>	<u>41.10</u>	<u>-92.45</u>	<u>Iowa</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
725467	0.52	Shenandoah Muni	40.75	-95.42	Iowa
725468	0.57	Carroll	42.05	-94.78	Iowa
725469	0.53	Chariton	41.03	-93.37	Iowa
725470	0.59	Dubuque Regional AP	42.40	-90.70	Iowa
725473	0.57	Clinton Muni (AWOS)	41.83	-90.33	Iowa
725474	0.57	Creston	41.02	-94.37	Iowa
725475	0.52	Monticello Muni	42.23	-91.17	Iowa
725476	0.46	Decorah	43.28	-91.73	Iowa
725477	0.56	Denison	41.98	-95.38	Iowa
725478	0.58	Webster City	42.43	-93.87	Iowa
725479	0.49	Clarinda	40.72	-95.03	Iowa
725480	0.62	Waterloo Municipal AP	42.55	-92.40	Iowa
725483	0.47	Fort Madison	40.67	-91.33	Iowa
725484	0.53	Le Mars	42.78	-96.20	Iowa
725485	0.65	Mason City Municipal Arpt	43.15	-93.33	Iowa
725486	0.57	Boone Muni	42.05	-93.85	Iowa
725487	0.49	Muscatine	41.37	-91.15	Iowa
725488	0.57	Oelwen	42.68	-91.97	Iowa
725489	0.58	Orange City	42.98	-96.07	Iowa
725490	0.55	Fort Dodge (AWOS)	42.55	-94.18	Iowa
725493	0.50	Knoxville	41.30	-93.12	Iowa
725494	0.55	Red Oak	41.02	-95.27	Iowa
725495	0.59	Sheldon	43.22	-95.83	Iowa
725496	0.60	Storm Lake	42.60	-95.23	Iowa
725497	0.51	Council Bluffs	41.27	-95.77	Iowa
725570	0.65	Sioux City Sioux Gateway AP	42.38	-96.38	Iowa
726498	0.56	Fair Field	41.05	-91.98	Iowa
726499	0.66	Estherville Muni	43.40	-94.75	Iowa
726500	0.67	Spencer	43.17	-95.15	Iowa
724468	0.52	Olathe/Johnson Co.	38.85	-94.73	Kansas
724475	0.57	Olathe Johnson Co Industrial	38.83	-94.88	Kansas
724500	0.62	Wichita Mid-Continent AP	37.65	-97.43	Kansas
724504	0.58	Wichita/Col. Jabara	37.75	-97.22	Kansas
724505	0.61	McConnell AFB	37.62	-97.27	Kansas
724506	0.56	Hutchinson Municipal AP	38.07	-97.87	Kansas
724507	0.54	Chanute Martin Johnson AP	37.67	-95.48	Kansas
724509	0.60	Newton (AWOS)	38.05	-97.28	Kansas



**TABLE X1 U.S. Climates (Continued)**

<b>TMY3</b>	<b>wsf</b>	<b>Weather Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>State</b>
<u>724510</u>	<u>0.75</u>	<u>Dodge City Regional AP</u>	<u>37.77</u>	<u>-99.97</u>	<u>Kansas</u>
<u>724515</u>	<u>0.69</u>	<u>Garden City Municipal AP</u>	<u>37.93</u>	<u>-100.72</u>	<u>Kansas</u>
<u>724516</u>	<u>0.67</u>	<u>Liberal Muni</u>	<u>37.03</u>	<u>-100.97</u>	<u>Kansas</u>
<u>724517</u>	<u>0.65</u>	<u>Great Bend (AWOS)</u>	<u>38.35</u>	<u>-98.87</u>	<u>Kansas</u>
<u>724518</u>	<u>0.65</u>	<u>Hays Muni (AWOS)</u>	<u>38.85</u>	<u>-99.27</u>	<u>Kansas</u>
<u>724550</u>	<u>0.50</u>	<u>Fort Riley Marshall AAF</u>	<u>39.05</u>	<u>-96.77</u>	<u>Kansas</u>
<u>724555</u>	<u>0.53</u>	<u>Manhattan Rgnl</u>	<u>39.13</u>	<u>-96.67</u>	<u>Kansas</u>
<u>724556</u>	<u>0.61</u>	<u>Emporia Municipal AP</u>	<u>38.33</u>	<u>-96.18</u>	<u>Kansas</u>
<u>724560</u>	<u>0.55</u>	<u>Topeka Municipal AP</u>	<u>39.07</u>	<u>-95.63</u>	<u>Kansas</u>
<u>724565</u>	<u>0.54</u>	<u>Topeka Forbes Field</u>	<u>38.95</u>	<u>-95.67</u>	<u>Kansas</u>
<u>724580</u>	<u>0.63</u>	<u>Concordia Blosser Muni AP</u>	<u>39.55</u>	<u>-97.65</u>	<u>Kansas</u>
<u>724585</u>	<u>0.68</u>	<u>Russell Municipal AP</u>	<u>38.88</u>	<u>-98.82</u>	<u>Kansas</u>
<u>724586</u>	<u>0.61</u>	<u>Salina Municipal AP</u>	<u>38.82</u>	<u>-97.67</u>	<u>Kansas</u>
<u>724650</u>	<u>0.73</u>	<u>Goodland Renner Field</u>	<u>39.37</u>	<u>-101.70</u>	<u>Kansas</u>
<u>724655</u>	<u>0.61</u>	<u>Hill City Municipal AP</u>	<u>39.38</u>	<u>-99.83</u>	<u>Kansas</u>
<u>724210</u>	<u>0.50</u>	<u>Cincinnati Northern Ky AP</u>	<u>39.05</u>	<u>-84.67</u>	<u>Kentucky</u>
<u>724220</u>	<u>0.48</u>	<u>Lexington Bluegrass AP</u>	<u>38.03</u>	<u>-84.60</u>	<u>Kentucky</u>
<u>724230</u>	<u>0.47</u>	<u>Louisville Standiford Field</u>	<u>38.18</u>	<u>-85.73</u>	<u>Kentucky</u>
<u>724235</u>	<u>0.41</u>	<u>Louisville Bowman Field</u>	<u>38.23</u>	<u>-85.67</u>	<u>Kentucky</u>
<u>724236</u>	<u>0.38</u>	<u>Jackson Julian Carroll AP</u>	<u>37.58</u>	<u>-83.32</u>	<u>Kentucky</u>
<u>724238</u>	<u>0.47</u>	<u>Henderson City</u>	<u>37.82</u>	<u>-87.68</u>	<u>Kentucky</u>
<u>724240</u>	<u>0.45</u>	<u>Fort Knox Godman AAF</u>	<u>37.90</u>	<u>-85.97</u>	<u>Kentucky</u>
<u>724243</u>	<u>0.42</u>	<u>London-Corbin AP</u>	<u>37.08</u>	<u>-84.08</u>	<u>Kentucky</u>
<u>724350</u>	<u>0.46</u>	<u>Paducah Barkley Regional AP</u>	<u>37.05</u>	<u>-88.77</u>	<u>Kentucky</u>
<u>724354</u>	<u>0.38</u>	<u>Somerset (AWOS)</u>	<u>38.00</u>	<u>-84.60</u>	<u>Kentucky</u>
<u>746710</u>	<u>0.44</u>	<u>Fort Campbell AAF</u>	<u>36.67</u>	<u>-87.48</u>	<u>Kentucky</u>
<u>746716</u>	<u>0.43</u>	<u>Bowling Green Warren Co AP</u>	<u>36.98</u>	<u>-86.43</u>	<u>Kentucky</u>
<u>722310</u>	<u>0.41</u>	<u>New Orleans Intl Arpt</u>	<u>30.00</u>	<u>-90.25</u>	<u>Louisiana</u>
<u>722314</u>	<u>0.41</u>	<u>New Iberia NAAS</u>	<u>30.03</u>	<u>-91.88</u>	<u>Louisiana</u>
<u>722315</u>	<u>0.47</u>	<u>New Orleans Lakefront AP</u>	<u>30.05</u>	<u>-90.03</u>	<u>Louisiana</u>
<u>722316</u>	<u>0.35</u>	<u>New Orleans Alvin Callender F</u>	<u>29.82</u>	<u>-90.02</u>	<u>Louisiana</u>
<u>722317</u>	<u>0.39</u>	<u>Baton Rouge Ryan Arpt</u>	<u>30.53</u>	<u>-91.15</u>	<u>Louisiana</u>
<u>722329</u>	<u>0.37</u>	<u>Patterson Memorial</u>	<u>29.72</u>	<u>-91.33</u>	<u>Louisiana</u>
<u>722390</u>	<u>0.36</u>	<u>Fort Polk AAF</u>	<u>31.05</u>	<u>-93.18</u>	<u>Louisiana</u>
<u>722400</u>	<u>0.42</u>	<u>Lake Charles Regional Arpt</u>	<u>30.12</u>	<u>-93.23</u>	<u>Louisiana</u>
<u>722404</u>	<u>0.42</u>	<u>Lake Charles Wb Airp</u>	<u>30.22</u>	<u>-93.17</u>	<u>Louisiana</u>
<u>722405</u>	<u>0.42</u>	<u>Lafayette Regional AP</u>	<u>30.20</u>	<u>-91.98</u>	<u>Louisiana</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>722406</u>	<u>0.37</u>	<u>Houma–Terrebonne</u>	<u>29.57</u>	<u>–90.67</u>	<u>Louisiana</u>
<u>722480</u>	<u>0.44</u>	<u>Shreveport Regional Arpt</u>	<u>32.45</u>	<u>–93.82</u>	<u>Louisiana</u>
<u>722484</u>	<u>0.41</u>	<u>Shreveport Downtown</u>	<u>32.53</u>	<u>–93.75</u>	<u>Louisiana</u>
<u>722485</u>	<u>0.39</u>	<u>Barksdale AFB</u>	<u>32.50</u>	<u>–93.67</u>	<u>Louisiana</u>
<u>722486</u>	<u>0.40</u>	<u>Monroe Regional AP</u>	<u>32.52</u>	<u>–92.03</u>	<u>Louisiana</u>
<u>722487</u>	<u>0.36</u>	<u>Alexandria Esler Regional AP</u>	<u>31.40</u>	<u>–92.30</u>	<u>Louisiana</u>
<u>747540</u>	<u>0.38</u>	<u>England AFB</u>	<u>31.32</u>	<u>–92.55</u>	<u>Louisiana</u>
<u>726060</u>	<u>0.60</u>	<u>Portland Intl Jetport</u>	<u>43.65</u>	<u>–70.30</u>	<u>Maine</u>
<u>726064</u>	<u>0.57</u>	<u>Sanford Muni (AWOS)</u>	<u>43.40</u>	<u>–70.72</u>	<u>Maine</u>
<u>726073</u>	<u>0.55</u>	<u>Waterville (AWOS)</u>	<u>44.53</u>	<u>–69.68</u>	<u>Maine</u>
<u>726077</u>	<u>0.62</u>	<u>Bar Harbor (AWOS)</u>	<u>44.45</u>	<u>–68.37</u>	<u>Maine</u>
<u>726079</u>	<u>0.57</u>	<u>Rockland/Knox (AWOS)</u>	<u>44.07</u>	<u>–69.10</u>	<u>Maine</u>
<u>726083</u>	<u>0.65</u>	<u>Northern Aroostook</u>	<u>47.28</u>	<u>–68.32</u>	<u>Maine</u>
<u>726088</u>	<u>0.58</u>	<u>Bangor International AP</u>	<u>44.80</u>	<u>–68.82</u>	<u>Maine</u>
<u>726184</u>	<u>0.56</u>	<u>Auburn–Lewiston</u>	<u>44.05</u>	<u>–70.28</u>	<u>Maine</u>
<u>726185</u>	<u>0.58</u>	<u>Augusta Airport</u>	<u>44.32</u>	<u>–69.80</u>	<u>Maine</u>
<u>726196</u>	<u>0.52</u>	<u>Millinocket Municipal AP</u>	<u>45.65</u>	<u>–68.68</u>	<u>Maine</u>
<u>727033</u>	<u>0.61</u>	<u>Houlton Intl Arpt</u>	<u>46.12</u>	<u>–67.80</u>	<u>Maine</u>
<u>727120</u>	<u>0.66</u>	<u>Caribou Municipal Arpt</u>	<u>46.87</u>	<u>–68.03</u>	<u>Maine</u>
<u>727130</u>	<u>0.66</u>	<u>Presque Isle Municip</u>	<u>46.68</u>	<u>–68.05</u>	<u>Maine</u>
<u>727135</u>	<u>0.50</u>	<u>Wiscasset</u>	<u>43.97</u>	<u>–69.72</u>	<u>Maine</u>
<u>743920</u>	<u>0.59</u>	<u>Brunswick NAS</u>	<u>43.90</u>	<u>–69.93</u>	<u>Maine</u>
<u>724040</u>	<u>0.45</u>	<u>Patuxent River NAS</u>	<u>38.30</u>	<u>–76.42</u>	<u>Maryland</u>
<u>724045</u>	<u>0.47</u>	<u>Salisbury Wicomico Co AP</u>	<u>38.33</u>	<u>–75.52</u>	<u>Maryland</u>
<u>724060</u>	<u>0.50</u>	<u>Baltimore Blt–Washngtn Int'l</u>	<u>39.17</u>	<u>–76.68</u>	<u>Maryland</u>
<u>724066</u>	<u>0.46</u>	<u>Hagerstown Rgnl Ric</u>	<u>39.70</u>	<u>–77.73</u>	<u>Maryland</u>
<u>745940</u>	<u>0.49</u>	<u>Andrews AFB</u>	<u>38.82</u>	<u>–76.87</u>	<u>Maryland</u>
<u>725060</u>	<u>0.60</u>	<u>Otis ANGBb</u>	<u>41.65</u>	<u>–70.52</u>	<u>Massachusetts</u>
<u>725063</u>	<u>0.61</u>	<u>Nantucket Memorial AP</u>	<u>41.25</u>	<u>–70.07</u>	<u>Massachusetts</u>
<u>725064</u>	<u>0.53</u>	<u>Plymouth Municipal</u>	<u>41.92</u>	<u>–70.73</u>	<u>Massachusetts</u>
<u>725065</u>	<u>0.54</u>	<u>New Bedford Rgnl</u>	<u>41.67</u>	<u>–70.95</u>	<u>Massachusetts</u>
<u>725066</u>	<u>0.59</u>	<u>Marthas Vineyard</u>	<u>41.40</u>	<u>–70.62</u>	<u>Massachusetts</u>
<u>725067</u>	<u>0.60</u>	<u>Barnstable Muni Boa</u>	<u>41.67</u>	<u>–70.28</u>	<u>Massachusetts</u>
<u>725073</u>	<u>0.59</u>	<u>Provincetown (AWOS)</u>	<u>42.07</u>	<u>–70.22</u>	<u>Massachusetts</u>
<u>725075</u>	<u>0.52</u>	<u>North Adams</u>	<u>42.70</u>	<u>–73.17</u>	<u>Massachusetts</u>
<u>725088</u>	<u>0.58</u>	<u>Beverly Muni</u>	<u>42.58</u>	<u>–70.92</u>	<u>Massachusetts</u>
<u>725090</u>	<u>0.66</u>	<u>Boston Logan Intl Arpt</u>	<u>42.37</u>	<u>–71.02</u>	<u>Massachusetts</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>725095</u>	<u>0.59</u>	<u>Worcester Regional Arpt</u>	<u>42.27</u>	<u>-71.88</u>	<u>Massachusetts</u>
<u>725098</u>	<u>0.52</u>	<u>Norwood Memorial</u>	<u>42.18</u>	<u>-71.18</u>	<u>Massachusetts</u>
<u>744904</u>	<u>0.55</u>	<u>Lawrence Muni</u>	<u>42.72</u>	<u>-71.12</u>	<u>Massachusetts</u>
<u>744910</u>	<u>0.49</u>	<u>Chicopee Falls Westo</u>	<u>42.20</u>	<u>-72.53</u>	<u>Massachusetts</u>
<u>744915</u>	<u>0.50</u>	<u>Westfield Barnes Muni AP</u>	<u>42.15</u>	<u>-72.72</u>	<u>Massachusetts</u>
<u>725370</u>	<u>0.60</u>	<u>Detroit Metropolitan Arpt</u>	<u>42.22</u>	<u>-83.35</u>	<u>Michigan</u>
<u>725374</u>	<u>0.56</u>	<u>Ann Arbor Municipal</u>	<u>42.22</u>	<u>-83.75</u>	<u>Michigan</u>
<u>725375</u>	<u>0.56</u>	<u>Detroit City Airport</u>	<u>42.40</u>	<u>-83.00</u>	<u>Michigan</u>
<u>725376</u>	<u>0.57</u>	<u>Detroit Willow Run AP</u>	<u>42.23</u>	<u>-83.53</u>	<u>Michigan</u>
<u>725377</u>	<u>0.55</u>	<u>Mount Clemens Selfridge Fld</u>	<u>42.62</u>	<u>-82.83</u>	<u>Michigan</u>
<u>725378</u>	<u>0.50</u>	<u>Howell</u>	<u>42.63</u>	<u>-83.98</u>	<u>Michigan</u>
<u>725384</u>	<u>0.51</u>	<u>St.Clair County Int</u>	<u>42.92</u>	<u>-82.53</u>	<u>Michigan</u>
<u>725390</u>	<u>0.63</u>	<u>Lansing Capital City Arpt</u>	<u>42.78</u>	<u>-84.58</u>	<u>Michigan</u>
<u>725395</u>	<u>0.54</u>	<u>Jackson Reynolds Field</u>	<u>42.27</u>	<u>-84.47</u>	<u>Michigan</u>
<u>725396</u>	<u>0.55</u>	<u>Battle Creek Kellogg AP</u>	<u>42.30</u>	<u>-85.25</u>	<u>Michigan</u>
<u>726350</u>	<u>0.60</u>	<u>Grand Rapids Kent County Int'</u>	<u>42.88</u>	<u>-85.52</u>	<u>Michigan</u>
<u>726355</u>	<u>0.53</u>	<u>Benton Harbor/Ross</u>	<u>42.13</u>	<u>-86.43</u>	<u>Michigan</u>
<u>726357</u>	<u>0.53</u>	<u>Kalamazoo Battle Cr</u>	<u>42.23</u>	<u>-85.55</u>	<u>Michigan</u>
<u>726360</u>	<u>0.61</u>	<u>Muskegon County Arpt</u>	<u>43.17</u>	<u>-86.23</u>	<u>Michigan</u>
<u>726370</u>	<u>0.60</u>	<u>Flint Bishop Intl Arpt</u>	<u>42.97</u>	<u>-83.75</u>	<u>Michigan</u>
<u>726375</u>	<u>0.57</u>	<u>Oakland Co Intl</u>	<u>42.67</u>	<u>-83.42</u>	<u>Michigan</u>
<u>726379</u>	<u>0.59</u>	<u>Saginaw Tri City Intl AP</u>	<u>43.53</u>	<u>-84.08</u>	<u>Michigan</u>
<u>726380</u>	<u>0.59</u>	<u>Houghton Lake Roscommon Co Ar</u>	<u>44.37</u>	<u>-84.68</u>	<u>Michigan</u>
<u>726384</u>	<u>0.58</u>	<u>Cadillac Wexford Co AP</u>	<u>44.28</u>	<u>-85.42</u>	<u>Michigan</u>
<u>726385</u>	<u>0.53</u>	<u>Manistee (AWOS)</u>	<u>44.27</u>	<u>-86.25</u>	<u>Michigan</u>
<u>726387</u>	<u>0.61</u>	<u>Traverse City Cherry Capital</u>	<u>44.73</u>	<u>-85.58</u>	<u>Michigan</u>
<u>726390</u>	<u>0.61</u>	<u>Alpena County Regional AP</u>	<u>45.07</u>	<u>-83.58</u>	<u>Michigan</u>
<u>726395</u>	<u>0.60</u>	<u>Oscoda Wurtsmith AFB</u>	<u>44.45</u>	<u>-83.40</u>	<u>Michigan</u>
<u>726480</u>	<u>0.64</u>	<u>Escanaba (AWOS)</u>	<u>45.75</u>	<u>-87.03</u>	<u>Michigan</u>
<u>726487</u>	<u>0.57</u>	<u>Menominee (AWOS)</u>	<u>45.13</u>	<u>-87.63</u>	<u>Michigan</u>
<u>727340</u>	<u>0.65</u>	<u>Sault Ste Marie Sanderson Fie</u>	<u>46.47</u>	<u>-84.35</u>	<u>Michigan</u>
<u>727344</u>	<u>0.66</u>	<u>Chippewa Co Intl</u>	<u>46.25</u>	<u>-84.47</u>	<u>Michigan</u>
<u>727347</u>	<u>0.59</u>	<u>Pellston Emmet County AP</u>	<u>45.57</u>	<u>-84.78</u>	<u>Michigan</u>
<u>727437</u>	<u>0.56</u>	<u>Iron Mountain/Ford</u>	<u>45.82</u>	<u>-88.12</u>	<u>Michigan</u>
<u>727440</u>	<u>0.67</u>	<u>Hancock Houghton Co AP</u>	<u>47.17</u>	<u>-88.50</u>	<u>Michigan</u>
<u>727445</u>	<u>0.62</u>	<u>Ironwood (AWOS)</u>	<u>46.53</u>	<u>-90.13</u>	<u>Michigan</u>
<u>726440</u>	<u>0.70</u>	<u>Rochester International Arpt</u>	<u>43.90</u>	<u>-92.50</u>	<u>Minnesota</u>

**TABLE X1 U.S. Climates (Continued)**

<b>TMY3</b>	<b>wsf</b>	<b>Weather Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>State</b>
726544	0.61	Orr, MN	48.02	-92.87	Minnesota
726547	0.62	Glenwood (ASOS)	45.65	-95.32	Minnesota
726550	0.59	St Cloud Regional Arpt	45.55	-94.05	Minnesota
726555	0.57	Brainerd/Wieland	46.40	-94.13	Minnesota
726556	0.64	Redwood Falls Muni	44.55	-95.08	Minnesota
726557	0.67	Alexandria Municipal AP	45.88	-95.40	Minnesota
726558	0.61	Cloquet (AWOS)	46.70	-92.50	Minnesota
726559	0.66	Marshall/Ryan (AWOS)	44.45	-95.82	Minnesota
726560	0.64	Fergus Falls (AWOS)	46.28	-96.15	Minnesota
726563	0.57	Faribault Muni AWOS	44.33	-93.32	Minnesota
726564	0.55	Red Wing	44.58	-92.48	Minnesota
726565	0.66	Morris Muni (AWOS)	45.57	-95.97	Minnesota
726566	0.63	Pipestone (AWOS)	43.98	-96.32	Minnesota
726567	0.61	New Ulm Muni (AWOS)	44.32	-94.50	Minnesota
726568	0.59	Owatonna (AWOS)	44.12	-93.25	Minnesota
726569	0.60	Hutchinson (AWOS)	44.87	-94.38	Minnesota
726575	0.58	Minneapolis/Crystal	45.07	-93.35	Minnesota
726576	0.59	Willmar	45.12	-95.08	Minnesota
726578	0.58	Little Falls (AWOS)	45.95	-94.35	Minnesota
726579	0.58	Flying Cloud	44.82	-93.45	Minnesota
726580	0.63	Minneapolis–St Paul Intl Arp	44.88	-93.23	Minnesota
726583	0.53	Litchfield Muni	45.10	-94.50	Minnesota
726584	0.57	St Paul Downtown AP	44.93	-93.05	Minnesota
726585	0.61	Mankato (AWOS)	44.22	-93.92	Minnesota
726586	0.66	Fairmont Muni (AWOS)	43.65	-94.42	Minnesota
726587	0.67	Worthington (AWOS)	43.65	-95.58	Minnesota
726588	0.51	Winona Muni (AWOS)	44.08	-91.70	Minnesota
726589	0.55	Albert Lea (AWOS)	43.68	-93.37	Minnesota
726603	0.51	South St Paul Muni	44.85	-93.15	Minnesota
727444	0.60	Two Harbors	47.05	-91.75	Minnesota
727450	0.70	Duluth International Arpt	46.83	-92.22	Minnesota
727452	0.67	Crookston Muni Fld	47.85	-96.62	Minnesota
727453	0.65	Park Rapids Municipal AP	46.90	-95.07	Minnesota
727455	0.64	Hibbing Chisholm–Hibbing AP	47.38	-92.85	Minnesota
727457	0.63	Detroit Lakes (AWOS)	46.83	-95.88	Minnesota
727458	0.60	Grand Rapids (AWOS)	47.22	-93.52	Minnesota
727459	0.58	Ely Muni	47.82	-91.83	Minnesota

**TABLE X1 U.S. Climates (Continued)**

<b>TMY3</b>	<b>wsf</b>	<b>Weather Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>State</b>
<u>727470</u>	<u>0.65</u>	<u>International Falls Intl AP</u>	<u>48.57</u>	<u>-93.40</u>	<u>Minnesota</u>
<u>727473</u>	<u>0.57</u>	<u>Crane Lake (AWOS)</u>	<u>46.27</u>	<u>-92.57</u>	<u>Minnesota</u>
<u>727474</u>	<u>0.63</u>	<u>Eveleth Muni (AWOS)</u>	<u>47.40</u>	<u>-92.50</u>	<u>Minnesota</u>
<u>727475</u>	<u>0.54</u>	<u>Mora Muni (AWOS)</u>	<u>45.88</u>	<u>-93.27</u>	<u>Minnesota</u>
<u>727476</u>	<u>0.62</u>	<u>Baudette International AP</u>	<u>48.72</u>	<u>-94.60</u>	<u>Minnesota</u>
<u>727477</u>	<u>0.65</u>	<u>Roseau Muni (AWOS)</u>	<u>48.85</u>	<u>-95.70</u>	<u>Minnesota</u>
<u>727478</u>	<u>0.68</u>	<u>Hallock</u>	<u>48.78</u>	<u>-96.95</u>	<u>Minnesota</u>
<u>727503</u>	<u>0.54</u>	<u>Cambridge Muni</u>	<u>45.57</u>	<u>-93.27</u>	<u>Minnesota</u>
<u>727504</u>	<u>0.58</u>	<u>Aitkin Ndb (AWOS)</u>	<u>46.55</u>	<u>-93.68</u>	<u>Minnesota</u>
<u>727505</u>	<u>0.61</u>	<u>Fosston (AWOS)</u>	<u>47.58</u>	<u>-95.77</u>	<u>Minnesota</u>
<u>727507</u>	<u>0.62</u>	<u>Benson Muni</u>	<u>45.32</u>	<u>-95.65</u>	<u>Minnesota</u>
<u>727533</u>	<u>0.66</u>	<u>Wheaton Ndb (AWOS)</u>	<u>45.70</u>	<u>-96.50</u>	<u>Minnesota</u>
<u>727550</u>	<u>0.62</u>	<u>Bemidji Municipal</u>	<u>47.50</u>	<u>-94.93</u>	<u>Minnesota</u>
<u>727555</u>	<u>0.66</u>	<u>Thief River (AWOS)</u>	<u>48.07</u>	<u>-96.18</u>	<u>Minnesota</u>
<u>727556</u>	<u>0.62</u>	<u>Silver Bay</u>	<u>47.20</u>	<u>-91.40</u>	<u>Minnesota</u>
<u>727566</u>	<u>0.55</u>	<u>Austin Muni</u>	<u>43.67</u>	<u>-92.93</u>	<u>Minnesota</u>
<u>722340</u>	<u>0.41</u>	<u>Meridian Key Field</u>	<u>32.33</u>	<u>-88.75</u>	<u>Mississippi</u>
<u>722345</u>	<u>0.34</u>	<u>Meridian NAAS</u>	<u>32.55</u>	<u>-88.57</u>	<u>Mississippi</u>
<u>722348</u>	<u>0.35</u>	<u>Hattiesburg Laurel</u>	<u>31.47</u>	<u>-89.33</u>	<u>Mississippi</u>
<u>722350</u>	<u>0.42</u>	<u>Jackson International AP</u>	<u>32.32</u>	<u>-90.08</u>	<u>Mississippi</u>
<u>722356</u>	<u>0.44</u>	<u>Greenville Municipal</u>	<u>33.48</u>	<u>-90.98</u>	<u>Mississippi</u>
<u>722357</u>	<u>0.36</u>	<u>Natchez/Hardy (AWOS)</u>	<u>31.62</u>	<u>-91.30</u>	<u>Mississippi</u>
<u>722358</u>	<u>0.36</u>	<u>McComb Pike County AP</u>	<u>31.23</u>	<u>-90.47</u>	<u>Mississippi</u>
<u>722359</u>	<u>0.41</u>	<u>Greenwood Leflore Arpt</u>	<u>33.50</u>	<u>-90.08</u>	<u>Mississippi</u>
<u>723306</u>	<u>0.42</u>	<u>Columbus AFB</u>	<u>33.65</u>	<u>-88.45</u>	<u>Mississippi</u>
<u>723307</u>	<u>0.40</u>	<u>Golden Tri (AWOS)</u>	<u>33.45</u>	<u>-88.58</u>	<u>Mississippi</u>
<u>723320</u>	<u>0.43</u>	<u>Tupelo C D Lemons Arpt</u>	<u>34.27</u>	<u>-88.77</u>	<u>Mississippi</u>
<u>747685</u>	<u>0.38</u>	<u>Gulfport Biloxi Int</u>	<u>30.40</u>	<u>-89.07</u>	<u>Mississippi</u>
<u>747686</u>	<u>0.38</u>	<u>Keesler AFB</u>	<u>30.42</u>	<u>-88.92</u>	<u>Mississippi</u>
<u>723300</u>	<u>0.43</u>	<u>Poplar Bluff (AMOS)</u>	<u>36.77</u>	<u>-90.47</u>	<u>Missouri</u>
<u>723489</u>	<u>0.47</u>	<u>Cape Girardeau Municipal AP</u>	<u>37.23</u>	<u>-89.57</u>	<u>Missouri</u>
<u>723495</u>	<u>0.53</u>	<u>Joplin Municipal AP</u>	<u>37.15</u>	<u>-94.50</u>	<u>Missouri</u>
<u>724340</u>	<u>0.54</u>	<u>St Louis Lambert Intl Arpt</u>	<u>38.75</u>	<u>-90.37</u>	<u>Missouri</u>
<u>724345</u>	<u>0.48</u>	<u>St Louis Spirit Of St Louis A</u>	<u>38.65</u>	<u>-90.65</u>	<u>Missouri</u>
<u>724400</u>	<u>0.53</u>	<u>Springfield Regional Arpt</u>	<u>37.23</u>	<u>-93.38</u>	<u>Missouri</u>
<u>724450</u>	<u>0.54</u>	<u>Columbia Regional Airport</u>	<u>38.82</u>	<u>-92.22</u>	<u>Missouri</u>
<u>724454</u>	<u>0.45</u>	<u>Farmington</u>	<u>37.77</u>	<u>-90.40</u>	<u>Missouri</u>

**TABLE X1 U.S. Climates (Continued)**

<b>TMY3</b>	<b>wsf</b>	<b>Weather Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>State</b>
<u>724455</u>	<u>0.53</u>	<u>Kirksville Regional AP</u>	<u>40.10</u>	<u>-92.55</u>	<u>Missouri</u>
<u>724456</u>	<u>0.52</u>	<u>Vichy Rolla Natl Arpt</u>	<u>38.13</u>	<u>-91.77</u>	<u>Missouri</u>
<u>724457</u>	<u>0.44</u>	<u>Ft Lnrld Wd AAF</u>	<u>37.75</u>	<u>-92.15</u>	<u>Missouri</u>
<u>724458</u>	<u>0.46</u>	<u>Jefferson City Mem</u>	<u>38.58</u>	<u>-92.15</u>	<u>Missouri</u>
<u>724459</u>	<u>0.45</u>	<u>Kaiser Mem (AWOS)</u>	<u>38.10</u>	<u>-92.55</u>	<u>Missouri</u>
<u>724460</u>	<u>0.60</u>	<u>Kansas City Intl Arpt</u>	<u>39.30</u>	<u>-94.72</u>	<u>Missouri</u>
<u>724463</u>	<u>0.51</u>	<u>Kansas City Downtown AP</u>	<u>39.12</u>	<u>-94.60</u>	<u>Missouri</u>
<u>724467</u>	<u>0.53</u>	<u>Whiteman AFB</u>	<u>38.72</u>	<u>-93.55</u>	<u>Missouri</u>
<u>724490</u>	<u>0.56</u>	<u>St Joseph Rosecrans Memorial</u>	<u>39.77</u>	<u>-94.90</u>	<u>Missouri</u>
<u>726676</u>	<u>0.69</u>	<u>Glendive (AWOS)</u>	<u>47.13</u>	<u>-104.80</u>	<u>Montana</u>
<u>726770</u>	<u>0.66</u>	<u>Billings Logan Intl Arpt</u>	<u>45.80</u>	<u>-108.55</u>	<u>Montana</u>
<u>726776</u>	<u>0.67</u>	<u>Lewistown Municipal Arpt</u>	<u>47.05</u>	<u>-109.45</u>	<u>Montana</u>
<u>726785</u>	<u>0.68</u>	<u>Butte Bert Mooney Arpt</u>	<u>45.95</u>	<u>-112.50</u>	<u>Montana</u>
<u>726797</u>	<u>0.62</u>	<u>Bozeman Gallatin Field</u>	<u>45.80</u>	<u>-111.15</u>	<u>Montana</u>
<u>726798</u>	<u>0.78</u>	<u>Livingston Mission Field</u>	<u>45.70</u>	<u>-110.45</u>	<u>Montana</u>
<u>727680</u>	<u>0.70</u>	<u>Glasgow Intl Arpt</u>	<u>48.22</u>	<u>-106.62</u>	<u>Montana</u>
<u>727686</u>	<u>0.66</u>	<u>Wolf Point Intl [Fort Peck – Surfrad]</u>	<u>48.31</u>	<u>-105.10</u>	<u>Montana</u>
<u>727687</u>	<u>0.66</u>	<u>Sidney–Richland</u>	<u>47.70</u>	<u>-104.20</u>	<u>Montana</u>
<u>727720</u>	<u>0.63</u>	<u>Helena Regional Airport</u>	<u>46.60</u>	<u>-111.97</u>	<u>Montana</u>
<u>727730</u>	<u>0.61</u>	<u>Missoula International AP</u>	<u>46.92</u>	<u>-114.10</u>	<u>Montana</u>
<u>727750</u>	<u>0.71</u>	<u>Great Falls Intl Arpt</u>	<u>47.47</u>	<u>-111.38</u>	<u>Montana</u>
<u>727770</u>	<u>0.70</u>	<u>Havre City–County AP</u>	<u>48.55</u>	<u>-109.77</u>	<u>Montana</u>
<u>727790</u>	<u>0.62</u>	<u>Kalispell Glacier Pk Intl Ar</u>	<u>48.32</u>	<u>-114.25</u>	<u>Montana</u>
<u>727796</u>	<u>0.76</u>	<u>Cut Bank Muni AP</u>	<u>48.60</u>	<u>-112.37</u>	<u>Montana</u>
<u>742300</u>	<u>0.67</u>	<u>Miles City Municipal Arpt</u>	<u>46.43</u>	<u>-105.88</u>	<u>Montana</u>
<u>725500</u>	<u>0.58</u>	<u>Omaha Eppley Airfield</u>	<u>41.32</u>	<u>-95.90</u>	<u>Nebraska</u>
<u>725510</u>	<u>0.60</u>	<u>Lincoln Municipal Arpt</u>	<u>40.83</u>	<u>-96.77</u>	<u>Nebraska</u>
<u>725515</u>	<u>0.58</u>	<u>Beatrice Municipal</u>	<u>40.30</u>	<u>-96.75</u>	<u>Nebraska</u>
<u>725520</u>	<u>0.66</u>	<u>Grand Island Central Ne Region</u>	<u>40.97</u>	<u>-98.32</u>	<u>Nebraska</u>
<u>725524</u>	<u>0.61</u>	<u>Ord/Sharp Field</u>	<u>41.62</u>	<u>-98.95</u>	<u>Nebraska</u>
<u>725525</u>	<u>0.61</u>	<u>Hastings Municipal</u>	<u>40.60</u>	<u>-98.43</u>	<u>Nebraska</u>
<u>725526</u>	<u>0.65</u>	<u>Kearney Muni (AWOS)</u>	<u>40.73</u>	<u>-99.00</u>	<u>Nebraska</u>
<u>725527</u>	<u>0.59</u>	<u>Tekamah (ASOS)</u>	<u>41.77</u>	<u>-96.17</u>	<u>Nebraska</u>
<u>725530</u>	<u>0.55</u>	<u>Omaha Wsfo</u>	<u>41.37</u>	<u>-96.02</u>	<u>Nebraska</u>
<u>725533</u>	<u>0.55</u>	<u>Falls City/Brenner</u>	<u>40.08</u>	<u>-95.60</u>	<u>Nebraska</u>
<u>725540</u>	<u>0.51</u>	<u>Bellevue Offutt AFB</u>	<u>41.12</u>	<u>-95.92</u>	<u>Nebraska</u>
<u>725555</u>	<u>0.66</u>	<u>Broken Bow Muni</u>	<u>41.43</u>	<u>-99.65</u>	<u>Nebraska</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>725556</u>	<u>0.66</u>	<u>Ainsworth Municipal</u>	<u>42.58</u>	<u>-100.00</u>	<u>Nebraska</u>
<u>725560</u>	<u>0.66</u>	<u>Norfolk Karl Stefan Mem Arpt</u>	<u>41.98</u>	<u>-97.43</u>	<u>Nebraska</u>
<u>725564</u>	<u>0.56</u>	<u>Fremont Muni Arpt</u>	<u>41.45</u>	<u>-96.52</u>	<u>Nebraska</u>
<u>725565</u>	<u>0.58</u>	<u>Columbus Muni</u>	<u>41.45</u>	<u>-97.33</u>	<u>Nebraska</u>
<u>725566</u>	<u>0.68</u>	<u>O'Neill/Baker Field</u>	<u>42.47</u>	<u>-98.68</u>	<u>Nebraska</u>
<u>725610</u>	<u>0.69</u>	<u>Sidney Municipal AP</u>	<u>41.10</u>	<u>-102.98</u>	<u>Nebraska</u>
<u>725620</u>	<u>0.66</u>	<u>North Platte Regional AP</u>	<u>41.12</u>	<u>-100.67</u>	<u>Nebraska</u>
<u>725625</u>	<u>0.61</u>	<u>McCook Municipal</u>	<u>40.20</u>	<u>-100.58</u>	<u>Nebraska</u>
<u>725626</u>	<u>0.62</u>	<u>Imperial Faa AP</u>	<u>40.52</u>	<u>-101.62</u>	<u>Nebraska</u>
<u>725628</u>	<u>0.62</u>	<u>Brewster Field Arpt</u>	<u>40.45</u>	<u>-99.33</u>	<u>Nebraska</u>
<u>725635</u>	<u>0.71</u>	<u>Alliance Municipal</u>	<u>42.05</u>	<u>-102.80</u>	<u>Nebraska</u>
<u>725636</u>	<u>0.68</u>	<u>Chadron Municipal AP</u>	<u>42.83</u>	<u>-103.08</u>	<u>Nebraska</u>
<u>725660</u>	<u>0.66</u>	<u>Scottsbluff W B Heilig Field</u>	<u>41.87</u>	<u>-103.60</u>	<u>Nebraska</u>
<u>725670</u>	<u>0.64</u>	<u>Valentine Miller Field</u>	<u>42.87</u>	<u>-100.55</u>	<u>Nebraska</u>
<u>723860</u>	<u>0.55</u>	<u>Las Vegas McCarran Intl AP</u>	<u>36.08</u>	<u>-115.15</u>	<u>Nevada</u>
<u>723865</u>	<u>0.54</u>	<u>Nellis AFB</u>	<u>36.25</u>	<u>-115.03</u>	<u>Nevada</u>
<u>723870</u>	<u>0.55</u>	<u>Mercury Desert Rock AP [Surfrad]</u>	<u>36.63</u>	<u>-116.02</u>	<u>Nevada</u>
<u>724855</u>	<u>0.61</u>	<u>Tonopah Airport</u>	<u>38.07</u>	<u>-117.08</u>	<u>Nevada</u>
<u>724860</u>	<u>0.68</u>	<u>Ely Yelland Field</u>	<u>39.30</u>	<u>-114.85</u>	<u>Nevada</u>
<u>724880</u>	<u>0.57</u>	<u>Reno Tahoe International AP</u>	<u>39.48</u>	<u>-119.77</u>	<u>Nevada</u>
<u>724885</u>	<u>0.54</u>	<u>Fallon NAAS</u>	<u>39.42</u>	<u>-118.72</u>	<u>Nevada</u>
<u>725805</u>	<u>0.57</u>	<u>Lovelock Derby Field</u>	<u>40.07</u>	<u>-118.55</u>	<u>Nevada</u>
<u>725825</u>	<u>0.60</u>	<u>Elko Municipal Arpt</u>	<u>40.83</u>	<u>-115.80</u>	<u>Nevada</u>
<u>725830</u>	<u>0.61</u>	<u>Winnemucca Municipal Arpt</u>	<u>40.90</u>	<u>-117.80</u>	<u>Nevada</u>
<u>726050</u>	<u>0.55</u>	<u>Concord Municipal Arpt</u>	<u>43.20</u>	<u>-71.50</u>	<u>New Hampshire</u>
<u>726055</u>	<u>0.55</u>	<u>Pease Intl Tradepor</u>	<u>43.08</u>	<u>-70.82</u>	<u>New Hampshire</u>
<u>726116</u>	<u>0.52</u>	<u>Lebanon Municipal</u>	<u>43.63</u>	<u>-72.30</u>	<u>New Hampshire</u>
<u>726130</u>	<u>1.56</u>	<u>Mount Washington</u>	<u>44.27</u>	<u>-71.30</u>	<u>New Hampshire</u>
<u>726155</u>	<u>0.54</u>	<u>Laconia Muni (AWOS)</u>	<u>43.57</u>	<u>-71.42</u>	<u>New Hampshire</u>
<u>726160</u>	<u>0.57</u>	<u>Berlin Municipal</u>	<u>44.58</u>	<u>-71.18</u>	<u>New Hampshire</u>
<u>726165</u>	<u>0.50</u>	<u>Dillant Hopkins</u>	<u>42.90</u>	<u>-72.27</u>	<u>New Hampshire</u>
<u>743945</u>	<u>0.50</u>	<u>Manchester Airport</u>	<u>42.93</u>	<u>-71.43</u>	<u>New Hampshire</u>
<u>724070</u>	<u>0.53</u>	<u>Atlantic City Intl AP</u>	<u>39.45</u>	<u>-74.57</u>	<u>New Jersey</u>
<u>724075</u>	<u>0.44</u>	<u>Millville Municipal AP</u>	<u>39.37</u>	<u>-75.08</u>	<u>New Jersey</u>
<u>724084</u>	<u>0.52</u>	<u>Belmar Asc</u>	<u>40.18</u>	<u>-74.07</u>	<u>New Jersey</u>
<u>724094</u>	<u>0.44</u>	<u>Caldwell/Essex Co.</u>	<u>40.88</u>	<u>-74.28</u>	<u>New Jersey</u>
<u>724095</u>	<u>0.48</u>	<u>Trenton Mercer County AP</u>	<u>40.28</u>	<u>-74.82</u>	<u>New Jersey</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>724096</u>	<u>0.48</u>	<u>McGuire AFB</u>	<u>40.02</u>	<u>-74.60</u>	<u>New Jersey</u>
<u>725020</u>	<u>0.54</u>	<u>Newark International Arpt</u>	<u>40.72</u>	<u>-74.18</u>	<u>New Jersey</u>
<u>725025</u>	<u>0.50</u>	<u>Teterboro Airport</u>	<u>40.85</u>	<u>-74.07</u>	<u>New Jersey</u>
<u>745966</u>	<u>0.49</u>	<u>Cape May Co</u>	<u>39.00</u>	<u>-74.92</u>	<u>New Jersey</u>
<u>722680</u>	<u>0.53</u>	<u>Roswell Industrial Air Park</u>	<u>33.30</u>	<u>-104.53</u>	<u>New Mexico</u>
<u>722683</u>	<u>0.52</u>	<u>Sierra Blanca Rgnl</u>	<u>33.47</u>	<u>-105.53</u>	<u>New Mexico</u>
<u>722686</u>	<u>0.63</u>	<u>Clovis Cannon AFB</u>	<u>34.38</u>	<u>-103.32</u>	<u>New Mexico</u>
<u>722687</u>	<u>0.52</u>	<u>Carlsbad Cavern City Air Term</u>	<u>32.33</u>	<u>-104.27</u>	<u>New Mexico</u>
<u>722689</u>	<u>0.64</u>	<u>Clovis Muni (AWOS)</u>	<u>34.43</u>	<u>-103.08</u>	<u>New Mexico</u>
<u>722695</u>	<u>0.49</u>	<u>Las Cruces Intl</u>	<u>32.28</u>	<u>-106.92</u>	<u>New Mexico</u>
<u>722710</u>	<u>0.51</u>	<u>Truth Or Consequences Muni AP</u>	<u>33.23</u>	<u>-107.27</u>	<u>New Mexico</u>
<u>722725</u>	<u>0.52</u>	<u>Deming Muni</u>	<u>32.25</u>	<u>-107.72</u>	<u>New Mexico</u>
<u>723600</u>	<u>0.66</u>	<u>Clayton Municipal Airpark</u>	<u>36.45</u>	<u>-103.15</u>	<u>New Mexico</u>
<u>723627</u>	<u>0.58</u>	<u>Gallup Sen Clarke Fld</u>	<u>35.52</u>	<u>-108.78</u>	<u>New Mexico</u>
<u>723650</u>	<u>0.54</u>	<u>Albuquerque Intl Arpt [ISIS]</u>	<u>35.04</u>	<u>-106.62</u>	<u>New Mexico</u>
<u>723656</u>	<u>0.60</u>	<u>Santa Fe County Municipal AP</u>	<u>35.62</u>	<u>-106.08</u>	<u>New Mexico</u>
<u>723658</u>	<u>0.58</u>	<u>Farmington Four Corners Regl</u>	<u>36.75</u>	<u>-108.23</u>	<u>New Mexico</u>
<u>723663</u>	<u>0.63</u>	<u>Taos Muni Apt (AWOS)</u>	<u>36.45</u>	<u>-105.67</u>	<u>New Mexico</u>
<u>723676</u>	<u>0.58</u>	<u>Tucumcari Faa AP</u>	<u>35.18</u>	<u>-103.60</u>	<u>New Mexico</u>
<u>723677</u>	<u>0.66</u>	<u>Las Vegas Municipal Arpt</u>	<u>35.65</u>	<u>-105.15</u>	<u>New Mexico</u>
<u>747320</u>	<u>0.53</u>	<u>Holloman AFB</u>	<u>32.85</u>	<u>-106.10</u>	<u>New Mexico</u>
<u>725030</u>	<u>0.58</u>	<u>New York Laguardia Arpt</u>	<u>40.78</u>	<u>-73.88</u>	<u>New York</u>
<u>725033</u>	<u>0.61</u>	<u>New York Central Prk Obs Belv</u>	<u>40.78</u>	<u>-73.97</u>	<u>New York</u>
<u>725035</u>	<u>0.53</u>	<u>Islip Long Isl MacArthur AP</u>	<u>40.78</u>	<u>-73.10</u>	<u>New York</u>
<u>725036</u>	<u>0.49</u>	<u>Poughkeepsie Dutchess Co AP</u>	<u>41.63</u>	<u>-73.88</u>	<u>New York</u>
<u>725037</u>	<u>0.51</u>	<u>White Plains Westchester Co A</u>	<u>41.07</u>	<u>-73.72</u>	<u>New York</u>
<u>725038</u>	<u>0.56</u>	<u>Stewart Field</u>	<u>41.50</u>	<u>-74.10</u>	<u>New York</u>
<u>725145</u>	<u>0.51</u>	<u>Monticello (AWOS)</u>	<u>41.70</u>	<u>-74.80</u>	<u>New York</u>
<u>725150</u>	<u>0.61</u>	<u>Binghamton Edwin A Link Field</u>	<u>42.20</u>	<u>-75.98</u>	<u>New York</u>
<u>725156</u>	<u>0.52</u>	<u>Elmira Corning Regional AP</u>	<u>42.17</u>	<u>-76.90</u>	<u>New York</u>
<u>725180</u>	<u>0.61</u>	<u>Albany County AP</u>	<u>42.75</u>	<u>-73.80</u>	<u>New York</u>
<u>725185</u>	<u>0.51</u>	<u>Glens Falls AP</u>	<u>43.35</u>	<u>-73.62</u>	<u>New York</u>
<u>725190</u>	<u>0.55</u>	<u>Syracuse Hancock Int'l Arpt</u>	<u>43.12</u>	<u>-76.10</u>	<u>New York</u>
<u>725197</u>	<u>0.53</u>	<u>Utica Oneida County AP</u>	<u>43.15</u>	<u>-75.38</u>	<u>New York</u>
<u>725235</u>	<u>0.57</u>	<u>Jamestown (AWOS)</u>	<u>42.15</u>	<u>-79.27</u>	<u>New York</u>
<u>725280</u>	<u>0.65</u>	<u>Buffalo Niagara Intl AP</u>	<u>42.93</u>	<u>-78.73</u>	<u>New York</u>
<u>725287</u>	<u>0.60</u>	<u>Niagara Falls Af</u>	<u>43.10</u>	<u>-78.95</u>	<u>New York</u>



**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>725290</u>	<u>0.57</u>	<u>Rochester Greater Rochester I</u>	<u>43.12</u>	<u>-77.68</u>	<u>New York</u>
<u>726223</u>	<u>0.59</u>	<u>Massena AP</u>	<u>44.93</u>	<u>-74.85</u>	<u>New York</u>
<u>726227</u>	<u>0.57</u>	<u>Watertown AP</u>	<u>44.00</u>	<u>-76.02</u>	<u>New York</u>
<u>726228</u>	<u>0.59</u>	<u>Adirondack Rgnl</u>	<u>44.38</u>	<u>-74.20</u>	<u>New York</u>
<u>743700</u>	<u>0.61</u>	<u>Fort Drum/Wheeler-S</u>	<u>44.05</u>	<u>-75.72</u>	<u>New York</u>
<u>744860</u>	<u>0.57</u>	<u>New York J F Kennedy Intl Ar</u>	<u>40.65</u>	<u>-73.80</u>	<u>New York</u>
<u>744864</u>	<u>0.53</u>	<u>Republic</u>	<u>40.72</u>	<u>-73.42</u>	<u>New York</u>
<u>744865</u>	<u>0.54</u>	<u>Westhampton Gabreski AP</u>	<u>40.85</u>	<u>-72.63</u>	<u>New York</u>
<u>723013</u>	<u>0.43</u>	<u>Wilmington International Arpt</u>	<u>34.27</u>	<u>-77.90</u>	<u>North Carolina</u>
<u>723030</u>	<u>0.43</u>	<u>Fayetteville Pope AFB</u>	<u>35.17</u>	<u>-79.02</u>	<u>North Carolina</u>
<u>723035</u>	<u>0.44</u>	<u>Fayetteville Rgnl G</u>	<u>34.98</u>	<u>-78.88</u>	<u>North Carolina</u>
<u>723040</u>	<u>0.49</u>	<u>Cape Hatteras Nws Bldg</u>	<u>35.27</u>	<u>-75.55</u>	<u>North Carolina</u>
<u>723046</u>	<u>0.50</u>	<u>Dare Co Rgnl</u>	<u>35.92</u>	<u>-75.70</u>	<u>North Carolina</u>
<u>723060</u>	<u>0.43</u>	<u>Raleigh Durham International</u>	<u>35.87</u>	<u>-78.78</u>	<u>North Carolina</u>
<u>723065</u>	<u>0.40</u>	<u>Pitt Greenville Arp</u>	<u>35.63</u>	<u>-77.40</u>	<u>North Carolina</u>
<u>723066</u>	<u>0.44</u>	<u>Goldsboro Seymour Johnson AFB</u>	<u>35.35</u>	<u>-77.97</u>	<u>North Carolina</u>
<u>723067</u>	<u>0.44</u>	<u>Kinston Stallings AFB</u>	<u>35.32</u>	<u>-77.63</u>	<u>North Carolina</u>
<u>723068</u>	<u>0.42</u>	<u>Rocky Mount Wilson</u>	<u>35.85</u>	<u>-77.90</u>	<u>North Carolina</u>
<u>723069</u>	<u>0.43</u>	<u>Jacksonville (AWOS)</u>	<u>34.83</u>	<u>-77.62</u>	<u>North Carolina</u>
<u>723090</u>	<u>0.46</u>	<u>Cherry Point MCAS</u>	<u>34.90</u>	<u>-76.88</u>	<u>North Carolina</u>
<u>723095</u>	<u>0.41</u>	<u>New Bern Craven Co Regl AP</u>	<u>35.07</u>	<u>-77.05</u>	<u>North Carolina</u>
<u>723096</u>	<u>0.43</u>	<u>New River MCAF</u>	<u>34.70</u>	<u>-77.38</u>	<u>North Carolina</u>
<u>723140</u>	<u>0.43</u>	<u>Charlotte Douglas Intl Arpt</u>	<u>35.22</u>	<u>-80.95</u>	<u>North Carolina</u>
<u>723143</u>	<u>0.41</u>	<u>Southern Pines AWOS</u>	<u>35.23</u>	<u>-79.40</u>	<u>North Carolina</u>
<u>723145</u>	<u>0.40</u>	<u>Hickory Regional AP</u>	<u>35.73</u>	<u>-81.38</u>	<u>North Carolina</u>
<u>723150</u>	<u>0.47</u>	<u>Asheville Regional Arpt</u>	<u>35.43</u>	<u>-82.53</u>	<u>North Carolina</u>
<u>723170</u>	<u>0.43</u>	<u>Greensboro Piedmont Triad Int</u>	<u>36.10</u>	<u>-79.95</u>	<u>North Carolina</u>
<u>723193</u>	<u>0.39</u>	<u>Winston-Salem Reynolds AP</u>	<u>36.13</u>	<u>-80.22</u>	<u>North Carolina</u>
<u>746930</u>	<u>0.38</u>	<u>Fort Bragg Simmons AAF</u>	<u>35.13</u>	<u>-78.93</u>	<u>North Carolina</u>
<u>746943</u>	<u>0.50</u>	<u>Elizabeth City Coast Guard Ai [Nrel]</u>	<u>36.30</u>	<u>-76.25</u>	<u>North Carolina</u>
<u>727530</u>	<u>0.69</u>	<u>Fargo Hector International AP</u>	<u>46.93</u>	<u>-96.82</u>	<u>North Dakota</u>
<u>727535</u>	<u>0.69</u>	<u>Jamestown Municipal Arpt</u>	<u>46.92</u>	<u>-98.68</u>	<u>North Dakota</u>
<u>727573</u>	<u>0.69</u>	<u>Devils Lake (AWOS)</u>	<u>48.12</u>	<u>-98.92</u>	<u>North Dakota</u>
<u>727575</u>	<u>0.70</u>	<u>Grand Forks Af</u>	<u>47.97</u>	<u>-97.40</u>	<u>North Dakota</u>
<u>727576</u>	<u>0.66</u>	<u>Grand Forks International AP</u>	<u>47.95</u>	<u>-97.18</u>	<u>North Dakota</u>
<u>727640</u>	<u>0.67</u>	<u>Bismarck Municipal Arpt [ISIS]</u>	<u>46.77</u>	<u>-100.77</u>	<u>North Dakota</u>
<u>727645</u>	<u>0.76</u>	<u>Dickinson Municipal AP</u>	<u>46.80</u>	<u>-102.80</u>	<u>North Dakota</u>

**TABLE X1 U.S. Climates (Continued)**

<b>TMY3</b>	<b>wsf</b>	<b>Weather Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>State</b>
<u>727670</u>	<u>0.68</u>	<u>Williston Sloulin Intl AP</u>	<u>48.20</u>	<u>-103.65</u>	<u>North Dakota</u>
<u>727675</u>	<u>0.72</u>	<u>Minot AFB</u>	<u>48.42</u>	<u>-101.35</u>	<u>North Dakota</u>
<u>727676</u>	<u>0.73</u>	<u>Minot Faa AP</u>	<u>48.27</u>	<u>-101.28</u>	<u>North Dakota</u>
<u>724280</u>	<u>0.49</u>	<u>Columbus Port Columbus Intl A</u>	<u>39.98</u>	<u>-82.88</u>	<u>Ohio</u>
<u>724286</u>	<u>0.48</u>	<u>Zanesville Municipal AP</u>	<u>39.95</u>	<u>-81.90</u>	<u>Ohio</u>
<u>724288</u>	<u>0.50</u>	<u>Ohio State University</u>	<u>40.07</u>	<u>-83.07</u>	<u>Ohio</u>
<u>724290</u>	<u>0.54</u>	<u>Dayton International Airport</u>	<u>39.90</u>	<u>-84.22</u>	<u>Ohio</u>
<u>724297</u>	<u>0.47</u>	<u>Cincinnati Municipal AP Lunke</u>	<u>39.10</u>	<u>-84.42</u>	<u>Ohio</u>
<u>725210</u>	<u>0.56</u>	<u>Akron-Canton Reg AP</u>	<u>40.92</u>	<u>-81.43</u>	<u>Ohio</u>
<u>725240</u>	<u>0.58</u>	<u>Cleveland Hopkins Intl AP</u>	<u>41.40</u>	<u>-81.85</u>	<u>Ohio</u>
<u>725245</u>	<u>0.61</u>	<u>Burke Lakefront</u>	<u>41.52</u>	<u>-81.68</u>	<u>Ohio</u>
<u>725246</u>	<u>0.61</u>	<u>Mansfield Lahm Municipal Arpt</u>	<u>40.82</u>	<u>-82.52</u>	<u>Ohio</u>
<u>725250</u>	<u>0.56</u>	<u>Youngstown Regional Airport</u>	<u>41.25</u>	<u>-80.67</u>	<u>Ohio</u>
<u>725360</u>	<u>0.55</u>	<u>Toledo Express Airport</u>	<u>41.58</u>	<u>-83.80</u>	<u>Ohio</u>
<u>725366</u>	<u>0.53</u>	<u>Findlay Airport</u>	<u>41.02</u>	<u>-83.67</u>	<u>Ohio</u>
<u>745700</u>	<u>0.51</u>	<u>Dayton Wright Patterson AFB</u>	<u>39.83</u>	<u>-84.05</u>	<u>Ohio</u>
<u>723520</u>	<u>0.55</u>	<u>Altus AFB</u>	<u>34.65</u>	<u>-99.27</u>	<u>Oklahoma</u>
<u>723525</u>	<u>0.67</u>	<u>Hobart Municipal AP</u>	<u>35.00</u>	<u>-99.05</u>	<u>Oklahoma</u>
<u>723526</u>	<u>0.63</u>	<u>Clinton-Sherman</u>	<u>35.33</u>	<u>-99.20</u>	<u>Oklahoma</u>
<u>723527</u>	<u>0.65</u>	<u>Gage Airport</u>	<u>36.30</u>	<u>-99.77</u>	<u>Oklahoma</u>
<u>723530</u>	<u>0.58</u>	<u>Oklahoma City Will Rogers Wor</u>	<u>35.38</u>	<u>-97.60</u>	<u>Oklahoma</u>
<u>723535</u>	<u>0.61</u>	<u>Vance AFB</u>	<u>36.33</u>	<u>-97.92</u>	<u>Oklahoma</u>
<u>723540</u>	<u>0.56</u>	<u>Oklahoma City Tinker AFB</u>	<u>35.42</u>	<u>-97.38</u>	<u>Oklahoma</u>
<u>723544</u>	<u>0.61</u>	<u>Oklahoma City/Wiley</u>	<u>35.53</u>	<u>-97.65</u>	<u>Oklahoma</u>
<u>723545</u>	<u>0.55</u>	<u>Stillwater Rgnl</u>	<u>36.15</u>	<u>-97.08</u>	<u>Oklahoma</u>
<u>723546</u>	<u>0.56</u>	<u>Ponca City Municipal AP [SGP - ARM]</u>	<u>36.61</u>	<u>-97.49</u>	<u>Oklahoma</u>
<u>723550</u>	<u>0.56</u>	<u>Fort Sill Post Field Af</u>	<u>34.65</u>	<u>-98.40</u>	<u>Oklahoma</u>
<u>723560</u>	<u>0.54</u>	<u>Tulsa International Airport</u>	<u>36.20</u>	<u>-95.88</u>	<u>Oklahoma</u>
<u>723565</u>	<u>0.48</u>	<u>Bartlesville/Philli</u>	<u>36.77</u>	<u>-96.02</u>	<u>Oklahoma</u>
<u>723566</u>	<u>0.45</u>	<u>McAlester Municipal AP</u>	<u>34.90</u>	<u>-95.78</u>	<u>Oklahoma</u>
<u>723575</u>	<u>0.53</u>	<u>Lawton Municipal</u>	<u>34.57</u>	<u>-98.42</u>	<u>Oklahoma</u>
<u>725895</u>	<u>0.61</u>	<u>Klamath Falls Intl AP [UO]</u>	<u>42.22</u>	<u>-121.74</u>	<u>Oregon</u>
<u>725970</u>	<u>0.50</u>	<u>Medford Rogue Valley Intl AP [Ashland - UO]</u>	<u>42.19</u>	<u>-122.70</u>	<u>Oregon</u>
<u>725975</u>	<u>0.59</u>	<u>Sexton Summit</u>	<u>42.60</u>	<u>-123.37</u>	<u>Oregon</u>
<u>725976</u>	<u>0.64</u>	<u>Lakeview (AWOS)</u>	<u>42.17</u>	<u>-120.40</u>	<u>Oregon</u>
<u>726830</u>	<u>0.61</u>	<u>Burns Municipal Arpt [UO]</u>	<u>43.52</u>	<u>-119.02</u>	<u>Oregon</u>
<u>726835</u>	<u>0.62</u>	<u>Redmond Roberts Field</u>	<u>44.25</u>	<u>-121.17</u>	<u>Oregon</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>726880</u>	<u>0.56</u>	<u>Pendleton E Or Regional AP</u>	<u>45.70</u>	<u>-118.83</u>	<u>Oregon</u>
<u>726884</u>	<u>0.61</u>	<u>La Grande Muni AP</u>	<u>45.28</u>	<u>-118.00</u>	<u>Oregon</u>
<u>726886</u>	<u>0.63</u>	<u>Baker Municipal AP</u>	<u>44.83</u>	<u>-117.82</u>	<u>Oregon</u>
<u>726904</u>	<u>0.47</u>	<u>Roseburg Regional AP</u>	<u>43.23</u>	<u>-123.35</u>	<u>Oregon</u>
<u>726917</u>	<u>0.61</u>	<u>North Bend Muni Airport</u>	<u>43.42</u>	<u>-124.25</u>	<u>Oregon</u>
<u>726930</u>	<u>0.56</u>	<u>Eugene Mahlon Sweet Arpt [UO]</u>	<u>44.05</u>	<u>-123.07</u>	<u>Oregon</u>
<u>726940</u>	<u>0.55</u>	<u>Salem McNary Field</u>	<u>44.90</u>	<u>-123.00</u>	<u>Oregon</u>
<u>726945</u>	<u>0.53</u>	<u>Corvallis Muni</u>	<u>44.48</u>	<u>-123.28</u>	<u>Oregon</u>
<u>726959</u>	<u>0.48</u>	<u>Aurora State</u>	<u>45.25</u>	<u>-122.77</u>	<u>Oregon</u>
<u>726980</u>	<u>0.52</u>	<u>Portland International AP</u>	<u>45.60</u>	<u>-122.62</u>	<u>Oregon</u>
<u>726985</u>	<u>0.51</u>	<u>Portland/Troutdale</u>	<u>45.55</u>	<u>-122.40</u>	<u>Oregon</u>
<u>726986</u>	<u>0.50</u>	<u>Portland/Hillsboro</u>	<u>45.53</u>	<u>-122.95</u>	<u>Oregon</u>
<u>727910</u>	<u>0.61</u>	<u>Astoria Regional Airport</u>	<u>46.15</u>	<u>-123.88</u>	<u>Oregon</u>
<u>724080</u>	<u>0.53</u>	<u>Philadelphia International AP</u>	<u>39.87</u>	<u>-75.23</u>	<u>Pennsylvania</u>
<u>724085</u>	<u>0.49</u>	<u>Philadelphia Ne Philadelphia</u>	<u>40.08</u>	<u>-75.02</u>	<u>Pennsylvania</u>
<u>724086</u>	<u>0.44</u>	<u>Willow Grove NAS</u>	<u>40.20</u>	<u>-75.15</u>	<u>Pennsylvania</u>
<u>725103</u>	<u>0.46</u>	<u>Reading Spaatz Field</u>	<u>40.37</u>	<u>-75.97</u>	<u>Pennsylvania</u>
<u>725115</u>	<u>0.55</u>	<u>Middletown Harrisburg Intl AP</u>	<u>40.20</u>	<u>-76.77</u>	<u>Pennsylvania</u>
<u>725116</u>	<u>0.50</u>	<u>Lancaster</u>	<u>40.12</u>	<u>-76.30</u>	<u>Pennsylvania</u>
<u>725117</u>	<u>0.47</u>	<u>Washington (AWOS)</u>	<u>40.13</u>	<u>-80.28</u>	<u>Pennsylvania</u>
<u>725118</u>	<u>0.48</u>	<u>Harrisburg Capital City Arpt</u>	<u>40.22</u>	<u>-76.85</u>	<u>Pennsylvania</u>
<u>725124</u>	<u>0.47</u>	<u>Butler Co. (AWOS)</u>	<u>40.78</u>	<u>-79.95</u>	<u>Pennsylvania</u>
<u>725125</u>	<u>0.56</u>	<u>Dubois Faa AP</u>	<u>41.18</u>	<u>-78.90</u>	<u>Pennsylvania</u>
<u>725126</u>	<u>0.51</u>	<u>Altoona Blair Co Arpt</u>	<u>40.30</u>	<u>-78.32</u>	<u>Pennsylvania</u>
<u>725127</u>	<u>0.54</u>	<u>Johnstown Cambria County AP</u>	<u>40.32</u>	<u>-78.83</u>	<u>Pennsylvania</u>
<u>725128</u>	<u>0.49</u>	<u>State College [Penn State-Surfrad]</u>	<u>40.72</u>	<u>-77.93</u>	<u>Pennsylvania</u>
<u>725130</u>	<u>0.53</u>	<u>Wilkes-Barre Scranton Intl AP</u>	<u>41.33</u>	<u>-75.73</u>	<u>Pennsylvania</u>
<u>725140</u>	<u>0.49</u>	<u>Williamsport Regional AP</u>	<u>41.25</u>	<u>-76.92</u>	<u>Pennsylvania</u>
<u>725170</u>	<u>0.55</u>	<u>Allentown Lehigh Valley Intl</u>	<u>40.65</u>	<u>-75.45</u>	<u>Pennsylvania</u>
<u>725200</u>	<u>0.53</u>	<u>Pittsburgh International AP</u>	<u>40.50</u>	<u>-80.23</u>	<u>Pennsylvania</u>
<u>725205</u>	<u>0.51</u>	<u>Pittsburgh Allegheny Co AP</u>	<u>40.35</u>	<u>-79.92</u>	<u>Pennsylvania</u>
<u>725260</u>	<u>0.62</u>	<u>Erie International AP</u>	<u>42.08</u>	<u>-80.18</u>	<u>Pennsylvania</u>
<u>725266</u>	<u>0.60</u>	<u>Bradford Regional AP</u>	<u>41.80</u>	<u>-78.63</u>	<u>Pennsylvania</u>
<u>725267</u>	<u>0.54</u>	<u>Franklin</u>	<u>41.38</u>	<u>-79.87</u>	<u>Pennsylvania</u>
<u>785140</u>	<u>0.41</u>	<u>Aquadilla/Borinquen</u>	<u>18.50</u>	<u>-67.13</u>	<u>Puerto Rico</u>
<u>785145</u>	<u>0.32</u>	<u>Eugenio Maria De Ho</u>	<u>18.25</u>	<u>-67.15</u>	<u>Puerto Rico</u>
<u>785203</u>	<u>0.35</u>	<u>Mercedita</u>	<u>18.00</u>	<u>-66.55</u>	<u>Puerto Rico</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>785260</u>	<u>0.38</u>	<u>San Juan Intl Arpt</u>	<u>18.42</u>	<u>-66.00</u>	<u>Puerto Rico</u>
<u>785263</u>	<u>0.36</u>	<u>San Juan L M Marin Intl AP</u>	<u>18.43</u>	<u>-66.00</u>	<u>Puerto Rico</u>
<u>785350</u>	<u>0.42</u>	<u>Roosevelt Roads</u>	<u>18.25</u>	<u>-65.63</u>	<u>Puerto Rico</u>
<u>725054</u>	<u>0.49</u>	<u>Pawtucket (AWOS)</u>	<u>41.92</u>	<u>-71.50</u>	<u>Rhode Island</u>
<u>725058</u>	<u>0.60</u>	<u>Block Island State Arpt</u>	<u>41.17</u>	<u>-71.58</u>	<u>Rhode Island</u>
<u>725070</u>	<u>0.58</u>	<u>Providence T F Green State Ar</u>	<u>41.72</u>	<u>-71.43</u>	<u>Rhode Island</u>
<u>722080</u>	<u>0.43</u>	<u>Charleston Intl Arpt</u>	<u>32.90</u>	<u>-80.03</u>	<u>South Carolina</u>
<u>722085</u>	<u>0.39</u>	<u>Beaufort MCAS</u>	<u>32.48</u>	<u>-80.72</u>	<u>South Carolina</u>
<u>723100</u>	<u>0.41</u>	<u>Columbia Metro Arpt</u>	<u>33.95</u>	<u>-81.12</u>	<u>South Carolina</u>
<u>723106</u>	<u>0.41</u>	<u>Florence Regional AP</u>	<u>34.18</u>	<u>-79.73</u>	<u>South Carolina</u>
<u>723119</u>	<u>0.42</u>	<u>Greenville Downtown AP</u>	<u>34.85</u>	<u>-82.35</u>	<u>South Carolina</u>
<u>723120</u>	<u>0.43</u>	<u>Greer Greenv'l-Spartanbrg AP</u>	<u>34.90</u>	<u>-82.22</u>	<u>South Carolina</u>
<u>723125</u>	<u>0.44</u>	<u>Anderson County AP</u>	<u>34.50</u>	<u>-82.72</u>	<u>South Carolina</u>
<u>747900</u>	<u>0.43</u>	<u>Sumter Shaw AFB</u>	<u>33.97</u>	<u>-80.47</u>	<u>South Carolina</u>
<u>747910</u>	<u>0.47</u>	<u>Myrtle Beach AFB</u>	<u>33.68</u>	<u>-78.93</u>	<u>South Carolina</u>
<u>747915</u>	<u>0.43</u>	<u>North Myrtle Beach Grand Stra</u>	<u>33.82</u>	<u>-78.72</u>	<u>South Carolina</u>
<u>726510</u>	<u>0.67</u>	<u>Sioux Falls Foss Field</u>	<u>43.58</u>	<u>-96.75</u>	<u>South Dakota</u>
<u>726515</u>	<u>0.63</u>	<u>Brookings (AWOS)</u>	<u>44.30</u>	<u>-96.82</u>	<u>South Dakota</u>
<u>726525</u>	<u>0.61</u>	<u>Chan Gurney Muni</u>	<u>42.92</u>	<u>-97.38</u>	<u>South Dakota</u>
<u>726540</u>	<u>0.68</u>	<u>Huron Regional Arpt</u>	<u>44.40</u>	<u>-98.22</u>	<u>South Dakota</u>
<u>726545</u>	<u>0.65</u>	<u>Mitchell (AWOS)</u>	<u>43.77</u>	<u>-98.03</u>	<u>South Dakota</u>
<u>726546</u>	<u>0.69</u>	<u>Watertown Municipal AP</u>	<u>44.93</u>	<u>-97.15</u>	<u>South Dakota</u>
<u>726590</u>	<u>0.66</u>	<u>Aberdeen Regional Arpt</u>	<u>45.45</u>	<u>-98.42</u>	<u>South Dakota</u>
<u>726620</u>	<u>0.72</u>	<u>Rapid City Regional Arpt</u>	<u>44.05</u>	<u>-103.05</u>	<u>South Dakota</u>
<u>726625</u>	<u>0.68</u>	<u>Ellsworth AFB</u>	<u>44.15</u>	<u>-103.10</u>	<u>South Dakota</u>
<u>726685</u>	<u>0.71</u>	<u>Mobridge</u>	<u>45.53</u>	<u>-100.43</u>	<u>South Dakota</u>
<u>726686</u>	<u>0.68</u>	<u>Pierre Municipal AP</u>	<u>44.38</u>	<u>-100.28</u>	<u>South Dakota</u>
<u>723183</u>	<u>0.40</u>	<u>Bristol Tri City Airport</u>	<u>36.47</u>	<u>-82.40</u>	<u>Tennessee</u>
<u>723240</u>	<u>0.41</u>	<u>Chattanooga Lovell Field AP</u>	<u>35.03</u>	<u>-85.20</u>	<u>Tennessee</u>
<u>723260</u>	<u>0.43</u>	<u>Knoxville McGhee Tyson AP</u>	<u>35.82</u>	<u>-83.98</u>	<u>Tennessee</u>
<u>723265</u>	<u>0.40</u>	<u>Crossville Memorial AP</u>	<u>35.95</u>	<u>-85.08</u>	<u>Tennessee</u>
<u>723270</u>	<u>0.44</u>	<u>Nashville International AP</u>	<u>36.12</u>	<u>-86.68</u>	<u>Tennessee</u>
<u>723340</u>	<u>0.46</u>	<u>Memphis International AP</u>	<u>35.07</u>	<u>-89.98</u>	<u>Tennessee</u>
<u>723346</u>	<u>0.44</u>	<u>Jackson McKellar-Sipes Regl A</u>	<u>35.60</u>	<u>-88.92</u>	<u>Tennessee</u>
<u>723347</u>	<u>0.44</u>	<u>Dyersburg Municipal AP</u>	<u>36.02</u>	<u>-89.40</u>	<u>Tennessee</u>
<u>690190</u>	<u>0.56</u>	<u>Abilene Dyess AFB</u>	<u>32.43</u>	<u>-99.85</u>	<u>Texas</u>
<u>722410</u>	<u>0.44</u>	<u>Port Arthur Jefferson County</u>	<u>29.95</u>	<u>-94.02</u>	<u>Texas</u>

**TABLE X1 U.S. Climates (Continued)**

<b>TMY3</b>	<b>wsf</b>	<b>Weather Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>State</b>
<u>722420</u>	<u>0.53</u>	<u>Galveston/Scholes</u>	<u>29.30</u>	<u>-94.80</u>	<u>Texas</u>
<u>722429</u>	<u>0.38</u>	<u>Houston/D.W. Hooks</u>	<u>30.07</u>	<u>-95.55</u>	<u>Texas</u>
<u>722430</u>	<u>0.42</u>	<u>Houston Bush Intercontinental</u>	<u>30.00</u>	<u>-95.37</u>	<u>Texas</u>
<u>722435</u>	<u>0.41</u>	<u>Houston William P Hobby AP</u>	<u>29.65</u>	<u>-95.28</u>	<u>Texas</u>
<u>722436</u>	<u>0.40</u>	<u>Houston Ellington AFB [Clear Lake – UT]</u>	<u>29.57</u>	<u>-95.09</u>	<u>Texas</u>
<u>722445</u>	<u>0.40</u>	<u>College Station Easterwood Fl</u>	<u>30.58</u>	<u>-96.37</u>	<u>Texas</u>
<u>722446</u>	<u>0.41</u>	<u>Lufkin Angelina Co</u>	<u>31.23</u>	<u>-94.75</u>	<u>Texas</u>
<u>722448</u>	<u>0.45</u>	<u>Tyler/Pounds Fld</u>	<u>32.35</u>	<u>-95.40</u>	<u>Texas</u>
<u>722470</u>	<u>0.43</u>	<u>Longview Gregg County AP [Overton – UT]</u>	<u>32.29</u>	<u>-94.98</u>	<u>Texas</u>
<u>722499</u>	<u>0.37</u>	<u>Nacogdoches (AWOS)</u>	<u>31.58</u>	<u>-94.72</u>	<u>Texas</u>
<u>722500</u>	<u>0.48</u>	<u>Brownsville S Padre Isl Intl</u>	<u>25.90</u>	<u>-97.43</u>	<u>Texas</u>
<u>722505</u>	<u>0.49</u>	<u>Harlingen Rio Grande Valley I</u>	<u>26.23</u>	<u>-97.65</u>	<u>Texas</u>
<u>722506</u>	<u>0.49</u>	<u>McAllen Miller Intl AP [Edinburg – UT]</u>	<u>26.31</u>	<u>-98.17</u>	<u>Texas</u>
<u>722510</u>	<u>0.53</u>	<u>Corpus Christi Intl Arpt [UT]</u>	<u>27.88</u>	<u>-97.63</u>	<u>Texas</u>
<u>722515</u>	<u>0.52</u>	<u>Corpus Christi NAS</u>	<u>27.68</u>	<u>-97.28</u>	<u>Texas</u>
<u>722516</u>	<u>0.44</u>	<u>Kingsville</u>	<u>27.50</u>	<u>-97.82</u>	<u>Texas</u>
<u>722517</u>	<u>0.48</u>	<u>Alice Intl AP</u>	<u>27.73</u>	<u>-98.03</u>	<u>Texas</u>
<u>722520</u>	<u>0.55</u>	<u>Laredo Intl AP [UT]</u>	<u>27.57</u>	<u>-99.49</u>	<u>Texas</u>
<u>722523</u>	<u>0.40</u>	<u>San Antonio/Stinson</u>	<u>29.33</u>	<u>-98.47</u>	<u>Texas</u>
<u>722524</u>	<u>0.45</u>	<u>Rockport/Aransas Co</u>	<u>28.08</u>	<u>-97.05</u>	<u>Texas</u>
<u>722526</u>	<u>0.44</u>	<u>Cotulla Faa AP</u>	<u>28.45</u>	<u>-99.22</u>	<u>Texas</u>
<u>722530</u>	<u>0.45</u>	<u>San Antonio Intl AP</u>	<u>29.53</u>	<u>-98.47</u>	<u>Texas</u>
<u>722533</u>	<u>0.43</u>	<u>Hondo Municipal AP</u>	<u>29.37</u>	<u>-99.17</u>	<u>Texas</u>
<u>722535</u>	<u>0.45</u>	<u>San Antonio Kelly Field AFB</u>	<u>29.38</u>	<u>-98.58</u>	<u>Texas</u>
<u>722536</u>	<u>0.43</u>	<u>Randolph AFB</u>	<u>29.53</u>	<u>-98.28</u>	<u>Texas</u>
<u>722540</u>	<u>0.41</u>	<u>Austin Mueller Municipal AP [UT]</u>	<u>30.29</u>	<u>-97.74</u>	<u>Texas</u>
<u>722544</u>	<u>0.44</u>	<u>Camp Mabry</u>	<u>30.32</u>	<u>-97.77</u>	<u>Texas</u>
<u>722547</u>	<u>0.45</u>	<u>Georgetown (AWOS)</u>	<u>30.68</u>	<u>-97.68</u>	<u>Texas</u>
<u>722550</u>	<u>0.47</u>	<u>Victoria Regional AP</u>	<u>28.87</u>	<u>-96.93</u>	<u>Texas</u>
<u>722555</u>	<u>0.48</u>	<u>Palacios Municipal AP</u>	<u>28.72</u>	<u>-96.25</u>	<u>Texas</u>
<u>722560</u>	<u>0.53</u>	<u>Waco Regional AP</u>	<u>31.62</u>	<u>-97.23</u>	<u>Texas</u>
<u>722563</u>	<u>0.48</u>	<u>McGregor (AWOS)</u>	<u>31.48</u>	<u>-97.32</u>	<u>Texas</u>
<u>722570</u>	<u>0.46</u>	<u>Fort Hood</u>	<u>31.13</u>	<u>-97.72</u>	<u>Texas</u>
<u>722575</u>	<u>0.47</u>	<u>Killeen Muni (AWOS)</u>	<u>31.08</u>	<u>-97.68</u>	<u>Texas</u>
<u>722576</u>	<u>0.49</u>	<u>Robert Gray AAF</u>	<u>31.07</u>	<u>-97.83</u>	<u>Texas</u>
<u>722577</u>	<u>0.50</u>	<u>Draughon Miller Cen</u>	<u>31.15</u>	<u>-97.40</u>	<u>Texas</u>
<u>722583</u>	<u>0.53</u>	<u>Dallas Love Field</u>	<u>32.85</u>	<u>-96.85</u>	<u>Texas</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>722587</u>	<u>0.48</u>	<u>Cox Fld</u>	<u>33.63</u>	<u>-95.45</u>	<u>Texas</u>
<u>722588</u>	<u>0.44</u>	<u>Greenville/Majors</u>	<u>33.07</u>	<u>-96.07</u>	<u>Texas</u>
<u>722590</u>	<u>0.53</u>	<u>Dallas-Fort Worth Intl AP</u>	<u>32.90</u>	<u>-97.02</u>	<u>Texas</u>
<u>722594</u>	<u>0.49</u>	<u>Fort Worth Alliance</u>	<u>32.98</u>	<u>-97.32</u>	<u>Texas</u>
<u>722595</u>	<u>0.49</u>	<u>Fort Worth NAS</u>	<u>32.77</u>	<u>-97.45</u>	<u>Texas</u>
<u>722596</u>	<u>0.52</u>	<u>Fort Worth Meacham</u>	<u>32.82</u>	<u>-97.37</u>	<u>Texas</u>
<u>722597</u>	<u>0.48</u>	<u>Mineral Wells Municipal AP</u>	<u>32.78</u>	<u>-98.07</u>	<u>Texas</u>
<u>722598</u>	<u>0.53</u>	<u>Dallas/Addison Arpt</u>	<u>32.97</u>	<u>-96.83</u>	<u>Texas</u>
<u>722599</u>	<u>0.50</u>	<u>Dallas/Redbird Arpt</u>	<u>32.68</u>	<u>-96.87</u>	<u>Texas</u>
<u>722610</u>	<u>0.46</u>	<u>Del Rio [UT]</u>	<u>29.38</u>	<u>-100.91</u>	<u>Texas</u>
<u>722615</u>	<u>0.46</u>	<u>Del Rio Laughlin AFB</u>	<u>29.37</u>	<u>-100.78</u>	<u>Texas</u>
<u>722630</u>	<u>0.52</u>	<u>San Angelo Mathis Field</u>	<u>31.35</u>	<u>-100.50</u>	<u>Texas</u>
<u>722636</u>	<u>0.67</u>	<u>Dalhart Municipal AP</u>	<u>36.02</u>	<u>-102.55</u>	<u>Texas</u>
<u>722640</u>	<u>0.55</u>	<u>Marfa AP</u>	<u>30.37</u>	<u>-104.02</u>	<u>Texas</u>
<u>722650</u>	<u>0.60</u>	<u>Midland International AP</u>	<u>31.95</u>	<u>-102.18</u>	<u>Texas</u>
<u>722656</u>	<u>0.54</u>	<u>Wink Winkler County AP</u>	<u>31.78</u>	<u>-103.20</u>	<u>Texas</u>
<u>722660</u>	<u>0.58</u>	<u>Abilene Regional AP [UT]</u>	<u>32.47</u>	<u>-99.71</u>	<u>Texas</u>
<u>722670</u>	<u>0.58</u>	<u>Lubbock International AP</u>	<u>33.67</u>	<u>-101.82</u>	<u>Texas</u>
<u>722700</u>	<u>0.48</u>	<u>El Paso International AP [UT]</u>	<u>31.77</u>	<u>-106.50</u>	<u>Texas</u>
<u>723510</u>	<u>0.59</u>	<u>Wichita Falls Municipal Arpt</u>	<u>33.98</u>	<u>-98.50</u>	<u>Texas</u>
<u>723604</u>	<u>0.57</u>	<u>Childress Municipal AP</u>	<u>34.43</u>	<u>-100.28</u>	<u>Texas</u>
<u>723630</u>	<u>0.68</u>	<u>Amarillo International AP [Canyon - UT]</u>	<u>34.99</u>	<u>-101.90</u>	<u>Texas</u>
<u>724723</u>	<u>0.55</u>	<u>Blanding</u>	<u>37.62</u>	<u>-109.48</u>	<u>Utah</u>
<u>724735</u>	<u>0.50</u>	<u>Hanksville</u>	<u>38.37</u>	<u>-110.72</u>	<u>Utah</u>
<u>724754</u>	<u>0.49</u>	<u>Saint George (AWOS)</u>	<u>37.08</u>	<u>-113.60</u>	<u>Utah</u>
<u>724755</u>	<u>0.60</u>	<u>Cedar City Municipal AP</u>	<u>37.70</u>	<u>-113.10</u>	<u>Utah</u>
<u>724756</u>	<u>0.70</u>	<u>Bryce Cnyn Faa AP</u>	<u>37.70</u>	<u>-112.15</u>	<u>Utah</u>
<u>724776</u>	<u>0.54</u>	<u>Moab/Canyonlands [UO]</u>	<u>38.58</u>	<u>-109.54</u>	<u>Utah</u>
<u>724795</u>	<u>0.60</u>	<u>Delta</u>	<u>39.33</u>	<u>-112.58</u>	<u>Utah</u>
<u>725705</u>	<u>0.55</u>	<u>Vernal</u>	<u>40.43</u>	<u>-109.52</u>	<u>Utah</u>
<u>725720</u>	<u>0.61</u>	<u>Salt Lake City Intl Arpt [ISIS]</u>	<u>40.77</u>	<u>-111.97</u>	<u>Utah</u>
<u>725724</u>	<u>0.56</u>	<u>Provo Muni (AWOS)</u>	<u>40.22</u>	<u>-111.72</u>	<u>Utah</u>
<u>725750</u>	<u>0.55</u>	<u>Ogden Hinkley Airport</u>	<u>41.20</u>	<u>-112.02</u>	<u>Utah</u>
<u>725755</u>	<u>0.62</u>	<u>Ogden Hill AFB</u>	<u>41.12</u>	<u>-111.97</u>	<u>Utah</u>
<u>725810</u>	<u>0.56</u>	<u>Wendover Usaf Auxiliary Field</u>	<u>40.72</u>	<u>-114.03</u>	<u>Utah</u>
<u>725165</u>	<u>0.54</u>	<u>Rutland State</u>	<u>43.52</u>	<u>-72.95</u>	<u>Vermont</u>
<u>726115</u>	<u>0.51</u>	<u>Springfield/Hartnes</u>	<u>43.35</u>	<u>-72.52</u>	<u>Vermont</u>

**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>726145</u>	<u>0.56</u>	<u>Montpelier AP</u>	<u>44.20</u>	<u>-72.57</u>	<u>Vermont</u>
<u>726170</u>	<u>0.61</u>	<u>Burlington International AP</u>	<u>44.47</u>	<u>-73.15</u>	<u>Vermont</u>
<u>785430</u>	<u>0.49</u>	<u>Charlotte Amalie Harry S Trum</u>	<u>18.35</u>	<u>-64.97</u>	<u>Virgin Islands, American</u>
<u>723075</u>	<u>0.49</u>	<u>Oceana NAS</u>	<u>36.82</u>	<u>-76.03</u>	<u>Virginia</u>
<u>723080</u>	<u>0.55</u>	<u>Norfolk International AP</u>	<u>36.90</u>	<u>-76.20</u>	<u>Virginia</u>
<u>723083</u>	<u>0.41</u>	<u>Franklin NAAS</u>	<u>36.70</u>	<u>-76.90</u>	<u>Virginia</u>
<u>723085</u>	<u>0.49</u>	<u>Norfolk NAS</u>	<u>36.95</u>	<u>-76.28</u>	<u>Virginia</u>
<u>723086</u>	<u>0.51</u>	<u>Newport News</u>	<u>37.13</u>	<u>-76.50</u>	<u>Virginia</u>
<u>724010</u>	<u>0.48</u>	<u>Richmond International AP</u>	<u>37.52</u>	<u>-77.32</u>	<u>Virginia</u>
<u>724014</u>	<u>0.40</u>	<u>Dinwiddie Co</u>	<u>37.18</u>	<u>-77.52</u>	<u>Virginia</u>
<u>724016</u>	<u>0.41</u>	<u>Charlottesville Faa</u>	<u>38.13</u>	<u>-78.45</u>	<u>Virginia</u>
<u>724017</u>	<u>0.40</u>	<u>Farmville</u>	<u>37.35</u>	<u>-78.43</u>	<u>Virginia</u>
<u>724026</u>	<u>0.45</u>	<u>Melfa/Accomack Arpt</u>	<u>37.65</u>	<u>-75.77</u>	<u>Virginia</u>
<u>724030</u>	<u>0.47</u>	<u>Washington DC Dulles Intl Ar [Sterling-ISIS]</u>	<u>38.98</u>	<u>-77.47</u>	<u>Virginia</u>
<u>724033</u>	<u>0.43</u>	<u>Shannon Arpt</u>	<u>38.27</u>	<u>-77.45</u>	<u>Virginia</u>
<u>724035</u>	<u>0.45</u>	<u>Quantico MCAS</u>	<u>38.50</u>	<u>-77.30</u>	<u>Virginia</u>
<u>724036</u>	<u>0.46</u>	<u>Manassas Muni (AWOS)</u>	<u>38.72</u>	<u>-77.52</u>	<u>Virginia</u>
<u>724037</u>	<u>0.40</u>	<u>Davison AAF</u>	<u>38.72</u>	<u>-77.18</u>	<u>Virginia</u>
<u>724050</u>	<u>0.51</u>	<u>Washington Dc Reagan AP</u>	<u>38.87</u>	<u>-77.03</u>	<u>Virginia</u>
<u>724053</u>	<u>0.45</u>	<u>Winchester Rgnl</u>	<u>39.15</u>	<u>-78.15</u>	<u>Virginia</u>
<u>724055</u>	<u>0.44</u>	<u>Leesburg/Godfrey</u>	<u>39.08</u>	<u>-77.57</u>	<u>Virginia</u>
<u>724056</u>	<u>0.45</u>	<u>Marion / Wytheville</u>	<u>36.90</u>	<u>-81.35</u>	<u>Virginia</u>
<u>724058</u>	<u>0.43</u>	<u>Abingdon</u>	<u>36.68</u>	<u>-82.03</u>	<u>Virginia</u>
<u>724100</u>	<u>0.44</u>	<u>Lynchburg Regional Arpt</u>	<u>37.33</u>	<u>-79.20</u>	<u>Virginia</u>
<u>724105</u>	<u>0.43</u>	<u>Staunton/Shenandoah</u>	<u>38.27</u>	<u>-78.90</u>	<u>Virginia</u>
<u>724106</u>	<u>0.43</u>	<u>Danville Faa AP</u>	<u>36.57</u>	<u>-79.33</u>	<u>Virginia</u>
<u>724107</u>	<u>0.48</u>	<u>Hillsville</u>	<u>36.77</u>	<u>-80.82</u>	<u>Virginia</u>
<u>724110</u>	<u>0.46</u>	<u>Roanoke Regional AP</u>	<u>37.32</u>	<u>-79.97</u>	<u>Virginia</u>
<u>724113</u>	<u>0.43</u>	<u>Virginia Tech Arpt</u>	<u>37.22</u>	<u>-80.42</u>	<u>Virginia</u>
<u>724115</u>	<u>0.62</u>	<u>Hot Springs/Ingalls</u>	<u>37.95</u>	<u>-79.83</u>	<u>Virginia</u>
<u>724116</u>	<u>0.43</u>	<u>Pulaski</u>	<u>37.13</u>	<u>-80.68</u>	<u>Virginia</u>
<u>724117</u>	<u>0.43</u>	<u>Wise/Lonesome Pine</u>	<u>36.98</u>	<u>-82.53</u>	<u>Virginia</u>
<u>745980</u>	<u>0.49</u>	<u>Langley AFB</u>	<u>37.08</u>	<u>-76.35</u>	<u>Virginia</u>
<u>745985</u>	<u>0.40</u>	<u>Martinsville</u>	<u>36.63</u>	<u>-80.02</u>	<u>Virginia</u>
<u>690230</u>	<u>0.61</u>	<u>Whidbey Island NAS</u>	<u>48.35</u>	<u>-122.67</u>	<u>Washington</u>
<u>726988</u>	<u>0.61</u>	<u>The Dalles Municipal Arpt</u>	<u>45.62</u>	<u>-121.15</u>	<u>Washington</u>
<u>727810</u>	<u>0.57</u>	<u>Yakima Air Terminal</u>	<u>46.57</u>	<u>-120.55</u>	<u>Washington</u>

**TABLE X1 U.S. Climates (Continued)**

<b>TMY3</b>	<b>wsf</b>	<b>Weather Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>State</b>
<u>727815</u>	<u>0.66</u>	<u>Stampede Pass</u>	<u>47.28</u>	<u>-121.33</u>	<u>Washington</u>
<u>727825</u>	<u>0.57</u>	<u>Wenatchee/Pangborn</u>	<u>47.40</u>	<u>-120.20</u>	<u>Washington</u>
<u>727826</u>	<u>0.60</u>	<u>Ephrata AP FCWOS</u>	<u>47.30</u>	<u>-119.52</u>	<u>Washington</u>
<u>727827</u>	<u>0.55</u>	<u>Moses Lake Grant County AP</u>	<u>47.20</u>	<u>-119.32</u>	<u>Washington</u>
<u>727840</u>	<u>0.61</u>	<u>Hanford</u>	<u>46.57</u>	<u>-119.60</u>	<u>Washington</u>
<u>727845</u>	<u>0.54</u>	<u>Pasco</u>	<u>46.27</u>	<u>-119.12</u>	<u>Washington</u>
<u>727846</u>	<u>0.56</u>	<u>Walla Walla City County AP</u>	<u>46.10</u>	<u>-118.28</u>	<u>Washington</u>
<u>727850</u>	<u>0.64</u>	<u>Spokane International AP [Cheney – UO]</u>	<u>47.49</u>	<u>-117.59</u>	<u>Washington</u>
<u>727855</u>	<u>0.63</u>	<u>Fairchild AFB</u>	<u>47.63</u>	<u>-117.65</u>	<u>Washington</u>
<u>727856</u>	<u>0.56</u>	<u>Felts Fld</u>	<u>47.68</u>	<u>-117.32</u>	<u>Washington</u>
<u>727857</u>	<u>0.59</u>	<u>Pullman/Moscow Rgnl</u>	<u>46.75</u>	<u>-117.12</u>	<u>Washington</u>
<u>727885</u>	<u>0.57</u>	<u>William R Fairchild</u>	<u>48.12</u>	<u>-123.50</u>	<u>Washington</u>
<u>727920</u>	<u>0.54</u>	<u>Olympia Airport</u>	<u>46.97</u>	<u>-122.90</u>	<u>Washington</u>
<u>727923</u>	<u>0.61</u>	<u>Hoquiam AP</u>	<u>46.98</u>	<u>-123.93</u>	<u>Washington</u>
<u>727924</u>	<u>0.52</u>	<u>Kelso Wb AP</u>	<u>46.13</u>	<u>-122.90</u>	<u>Washington</u>
<u>727926</u>	<u>0.52</u>	<u>Toledo–Winlock Mem</u>	<u>46.48</u>	<u>-122.80</u>	<u>Washington</u>
<u>727928</u>	<u>0.55</u>	<u>Bremerton National</u>	<u>47.48</u>	<u>-122.75</u>	<u>Washington</u>
<u>727930</u>	<u>0.56</u>	<u>Seattle–Tacoma Intl A</u>	<u>47.47</u>	<u>-122.32</u>	<u>Washington</u>
<u>727934</u>	<u>0.51</u>	<u>Renton Muni</u>	<u>47.48</u>	<u>-122.22</u>	<u>Washington</u>
<u>727935</u>	<u>0.49</u>	<u>Seattle Boeing Field [ISIS]</u>	<u>47.68</u>	<u>-122.25</u>	<u>Washington</u>
<u>727937</u>	<u>0.54</u>	<u>Snohomish Co</u>	<u>47.90</u>	<u>-122.28</u>	<u>Washington</u>
<u>727938</u>	<u>0.53</u>	<u>Tacoma Narrows</u>	<u>47.27</u>	<u>-122.58</u>	<u>Washington</u>
<u>727970</u>	<u>0.56</u>	<u>Quillayute State Airport</u>	<u>47.93</u>	<u>-124.57</u>	<u>Washington</u>
<u>727976</u>	<u>0.58</u>	<u>Bellingham Intl AP</u>	<u>48.80</u>	<u>-122.53</u>	<u>Washington</u>
<u>742060</u>	<u>0.54</u>	<u>Tacoma McChord AFB</u>	<u>47.15</u>	<u>-122.48</u>	<u>Washington</u>
<u>742070</u>	<u>0.52</u>	<u>Gray AAF</u>	<u>47.08</u>	<u>-122.58</u>	<u>Washington</u>
<u>724120</u>	<u>0.46</u>	<u>Beckley Raleigh Co Mem AP</u>	<u>37.80</u>	<u>-81.12</u>	<u>West Virginia</u>
<u>724125</u>	<u>0.40</u>	<u>Bluefield/Mercer Co [Nrel]</u>	<u>37.27</u>	<u>-81.24</u>	<u>West Virginia</u>
<u>724127</u>	<u>0.52</u>	<u>Lewisburg/Greenbrie</u>	<u>37.87</u>	<u>-80.40</u>	<u>West Virginia</u>
<u>724140</u>	<u>0.42</u>	<u>Charleston Yeager Arpt</u>	<u>38.38</u>	<u>-81.58</u>	<u>West Virginia</u>
<u>724170</u>	<u>0.49</u>	<u>Elkins–Randolph Co Arp</u>	<u>38.88</u>	<u>-79.85</u>	<u>West Virginia</u>
<u>724175</u>	<u>0.45</u>	<u>Harrison Marion Rgn</u>	<u>39.28</u>	<u>-80.23</u>	<u>West Virginia</u>
<u>724176</u>	<u>0.43</u>	<u>Morgantown Hart Field</u>	<u>39.65</u>	<u>-79.92</u>	<u>West Virginia</u>
<u>724177</u>	<u>0.44</u>	<u>Martinsburg Eastern Wv Reg AP</u>	<u>39.40</u>	<u>-77.98</u>	<u>West Virginia</u>
<u>724250</u>	<u>0.44</u>	<u>Huntington Tri–State Arpt</u>	<u>38.38</u>	<u>-82.55</u>	<u>West Virginia</u>
<u>724273</u>	<u>0.44</u>	<u>Parkersburg Wood County AP</u>	<u>39.35</u>	<u>-81.43</u>	<u>West Virginia</u>
<u>724275</u>	<u>0.48</u>	<u>Wheeling Ohio County AP</u>	<u>40.18</u>	<u>-80.65</u>	<u>West Virginia</u>



**TABLE X1 U.S. Climates (Continued)**

<u>TMY3</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>State</u>
<u>726400</u>	<u>0.65</u>	<u>Milwaukee Mitchell Intl AP</u>	<u>42.95</u>	<u>-87.90</u>	<u>Wisconsin</u>
<u>726404</u>	<u>0.59</u>	<u>Minocqua/Woodruff</u>	<u>45.93</u>	<u>-89.73</u>	<u>Wisconsin</u>
<u>726410</u>	<u>0.61</u>	<u>Madison Dane Co Regional Arpt [ISIS]</u>	<u>43.13</u>	<u>-89.33</u>	<u>Wisconsin</u>
<u>726415</u>	<u>0.59</u>	<u>Janesville/Rock Co.</u>	<u>42.62</u>	<u>-89.03</u>	<u>Wisconsin</u>
<u>726416</u>	<u>0.53</u>	<u>Lone Rock Faa AP</u>	<u>43.20</u>	<u>-90.18</u>	<u>Wisconsin</u>
<u>726430</u>	<u>0.57</u>	<u>La Crosse Municipal Arpt</u>	<u>43.87</u>	<u>-91.25</u>	<u>Wisconsin</u>
<u>726435</u>	<u>0.58</u>	<u>Eau Claire County AP</u>	<u>44.87</u>	<u>-91.48</u>	<u>Wisconsin</u>
<u>726450</u>	<u>0.60</u>	<u>Green Bay Austin Straubel Int</u>	<u>44.48</u>	<u>-88.13</u>	<u>Wisconsin</u>
<u>726455</u>	<u>0.60</u>	<u>Manitowac Muni AWOS</u>	<u>44.13</u>	<u>-87.68</u>	<u>Wisconsin</u>
<u>726456</u>	<u>0.59</u>	<u>Wittman Rgnl</u>	<u>43.98</u>	<u>-88.55</u>	<u>Wisconsin</u>
<u>726457</u>	<u>0.62</u>	<u>Appleton/Outagamie</u>	<u>44.25</u>	<u>-88.52</u>	<u>Wisconsin</u>
<u>726458</u>	<u>0.61</u>	<u>Sturgeon Bay</u>	<u>44.85</u>	<u>-87.42</u>	<u>Wisconsin</u>
<u>726463</u>	<u>0.58</u>	<u>Wausau Municipal Arpt</u>	<u>44.92</u>	<u>-89.63</u>	<u>Wisconsin</u>
<u>726464</u>	<u>0.52</u>	<u>Watertown</u>	<u>43.17</u>	<u>-88.72</u>	<u>Wisconsin</u>
<u>726465</u>	<u>0.58</u>	<u>Mosinee/Central Wi</u>	<u>44.78</u>	<u>-89.67</u>	<u>Wisconsin</u>
<u>726467</u>	<u>0.55</u>	<u>Rice Lake Municipal</u>	<u>45.48</u>	<u>-91.72</u>	<u>Wisconsin</u>
<u>726468</u>	<u>0.55</u>	<u>Phillips/Price Co.</u>	<u>45.70</u>	<u>-90.40</u>	<u>Wisconsin</u>
<u>726574</u>	<u>0.58</u>	<u>Marshfield Muni</u>	<u>44.63</u>	<u>-90.18</u>	<u>Wisconsin</u>
<u>726626</u>	<u>0.60</u>	<u>Antigo/Lang (AWOS)</u>	<u>45.15</u>	<u>-87.15</u>	<u>Wisconsin</u>
<u>727415</u>	<u>0.58</u>	<u>Rhineland Oneida</u>	<u>45.63</u>	<u>-89.47</u>	<u>Wisconsin</u>
<u>725640</u>	<u>0.72</u>	<u>Cheyenne Municipal Arpt</u>	<u>41.15</u>	<u>-104.80</u>	<u>Wyoming</u>
<u>725645</u>	<u>0.76</u>	<u>Laramie General Brees Field</u>	<u>41.32</u>	<u>-105.68</u>	<u>Wyoming</u>
<u>725690</u>	<u>0.72</u>	<u>Casper Natrona Co Intl AP</u>	<u>42.90</u>	<u>-106.47</u>	<u>Wyoming</u>
<u>725744</u>	<u>0.70</u>	<u>Rock Springs Arpt [Green River-UO]</u>	<u>41.46</u>	<u>-109.44</u>	<u>Wyoming</u>
<u>725745</u>	<u>0.76</u>	<u>Rawlins Municipal AP</u>	<u>41.80</u>	<u>-107.20</u>	<u>Wyoming</u>
<u>725760</u>	<u>0.60</u>	<u>Lander Hunt Field</u>	<u>42.82</u>	<u>-108.73</u>	<u>Wyoming</u>
<u>725765</u>	<u>0.64</u>	<u>Riverton Municipl AP</u>	<u>43.05</u>	<u>-108.45</u>	<u>Wyoming</u>
<u>725775</u>	<u>0.70</u>	<u>Evanston/Burns Fld</u>	<u>41.28</u>	<u>-111.03</u>	<u>Wyoming</u>
<u>725776</u>	<u>0.71</u>	<u>Jackson Hole</u>	<u>43.60</u>	<u>-110.73</u>	<u>Wyoming</u>
<u>726650</u>	<u>0.69</u>	<u>Gillette/Gillette-C</u>	<u>44.35</u>	<u>-105.53</u>	<u>Wyoming</u>
<u>726660</u>	<u>0.61</u>	<u>Sheridan County Arpt</u>	<u>44.77</u>	<u>-106.97</u>	<u>Wyoming</u>
<u>726665</u>	<u>0.57</u>	<u>Worland Municipal</u>	<u>43.97</u>	<u>-107.95</u>	<u>Wyoming</u>
<u>726700</u>	<u>0.60</u>	<u>Cody Muni (AWOS)</u>	<u>44.52</u>	<u>-109.02</u>	<u>Wyoming</u>

**TABLE X2 Canadian Climates**

<b>CWEC</b>	<b>wsf</b>	<b>Weather Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Province</b>
711230	0.70	Edmonton	53.53	-114.1	Alberta
712430	0.78	Lethbridge	49.63	-112.8	Alberta
718720	0.70	Medecine Hat	50.02	-110.72	Alberta
718770	0.73	Calgary	51.12	-114.02	Alberta
719320	0.66	Fort McMurray	56.65	-111.22	Alberta
719400	0.72	Grande Prairie	55.18	-118.88	Alberta
711010	0.75	Sandspit	53.25	-131.82	British Columbia
711080	0.55	Abbotsford	49.03	-122.37	British Columbia
711090	0.65	Port Hardy	50.68	-127.37	British Columbia
717680	0.57	Summerland	49.57	-119.65	British Columbia
717990	0.57	Victoria	48.65	-123.43	British Columbia
718800	0.63	Cranbrook	49.6	-115.78	British Columbia
718870	0.57	Kamloops	50.7	-120.45	British Columbia
718920	0.57	Vancouver	49.18	-123.17	British Columbia
718930	0.62	Comox	49.72	-124.9	British Columbia
718960	0.64	Prince George	53.88	-122.68	British Columbia
718980	0.70	Prince Rupert	54.3	-130.43	British Columbia
719430	0.76	Fort St John	56.23	-120.73	British Columbia
719500	0.64	Smithers	54.82	-127.18	British Columbia
711400	0.73	Brandon	49.92	-99.95	Manitoba
718520	0.72	Winniped	49.9	-97.23	Manitoba
718670	0.73	The Pas	53.97	-101.1	Manitoba
719130	0.98	Churchill	58.75	-94.07	Manitoba
716090	0.76	Saint John	45.32	-65.88	New Brunswick
717000	0.64	Fredericton	45.87	-66.53	New Brunswick
717440	0.66	Miramichi	47.02	-65.45	New Brunswick
718010	0.89	St Johns	47.62	-52.73	Newfoundland
718030	0.83	Gander	48.95	-54.57	Newfoundland
718150	0.74	Stephenville	48.53	-58.55	Newfoundland
718160	0.80	Goose	53.32	-60.37	Newfoundland
718170	1.05	Battle Harbour	52.3	-55.83	Newfoundland
719360	0.84	Yellowknife	62.47	-114.45	Northwest Territories
719570	0.86	Inuvik	68.3	-133.48	Northwest Territories
713970	0.66	Greenwood	44.98	-64.92	Nova Scotia
713980	0.67	Truro	45.37	-63.27	Nova Scotia
716000	0.84	Sable Island	43.93	-60.02	Nova Scotia
716010	0.63	Shearwater	44.63	-63.5	Nova Scotia

**TABLE X2 Canadian Climates (Continued)**

<b>CWEC</b>	<b>wsf</b>	<b>Weather Station</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Province</b>
717070	0.82	Sydney	46.17	-60.05	Nova Scotia
719240	1.28	Resolute	74.72	-94.98	Nunavut
712600	0.67	Sault Ste Marie	46.48	-84.52	Ontario
715270	0.61	Simcoe	42.85	-80.27	Ontario
715380	0.57	Windsor	42.27	-82.97	Ontario
716200	0.67	Kingston	44.22	-76.6	Ontario
716210	0.61	Trenton	44.12	-77.53	Ontario
716230	0.59	London	43.03	-81.15	Ontario
716240	0.58	Toronto	43.67	-79.63	Ontario
716280	0.59	Ottawa	45.32	-75.67	Ontario
716300	0.61	Muskoka	44.97	-79.3	Ontario
716310	0.63	Mount Forest	43.98	-80.75	Ontario
717310	0.62	North Bay	46.35	-79.43	Ontario
717390	0.69	Timmins	48.57	-81.37	Ontario
717490	0.69	Thunder Bay	48.37	-89.32	Ontario
717060	0.70	Charlottetown	46.28	-63.13	Prince Edward Island
711870	0.77	Baie Comeau	49.13	-68.2	Quebec
713710	0.66	St Hubert	45.52	-73.42	Quebec
714210	0.82	Lake Eon	51.87	-63.28	Quebec
716100	0.61	Sherbrooke	45.43	-71.68	Quebec
716270	0.60	Montreal Intl AP	45.47	-73.75	Quebec
716278	0.56	Montreal Jean Brebeuf	45.5	-73.62	Quebec
716278	0.57	Montreal Mirabel	45.68	-74.03	Quebec
717140	0.62	Quebec	46.8	-71.38	Quebec
717150	0.69	Riviere du Loup	47.8	-69.55	Quebec
717180	0.77	Mont Joli	48.6	-68.22	Quebec
717200	0.61	Ste Agathe des Monts	46.05	-74.28	Quebec
717250	0.71	Val-d'Or	48.07	-77.78	Quebec
717270	0.70	Bagotville	48.33	-71	Quebec
717280	0.73	Roberval	48.52	-72.27	Quebec
718110	0.76	Sept-Îles	50.22	-66.27	Quebec
718270	0.83	La Grande Riviere	53.63	-77.7	Quebec
718280	0.90	Schefferville	54.8	-66.82	Quebec
719050	0.94	Kuujuarapik	55.28	-77.77	Quebec
719060	0.93	Kuujuaq	58.1	-68.42	Quebec
719650	0.87	Nitchequon	53.2	-70.9	Quebec
719660	1.00	Grindstone Island	47.38	-61.87	Quebec

**TABLE X2 Canadian Climates (Continued)**

<u>CWEC</u>	<u>wsf</u>	<u>Weather Station</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Province</u>
<u>718620</u>	<u>0.78</u>	<u>Estevan</u>	<u>49.22</u>	<u>-102.97</u>	<u>Saskatchewan</u>
<u>718630</u>	<u>0.80</u>	<u>Regina</u>	<u>50.43</u>	<u>-104.67</u>	<u>Saskatchewan</u>
<u>718660</u>	<u>0.75</u>	<u>Saskatoon</u>	<u>52.17</u>	<u>-106.68</u>	<u>Saskatchewan</u>
<u>718700</u>	<u>0.81</u>	<u>Swift Current</u>	<u>50.28</u>	<u>-107.68</u>	<u>Saskatchewan</u>
<u>718760</u>	<u>0.72</u>	<u>North Battleford</u>	<u>52.77</u>	<u>-108.25</u>	<u>Saskatchewan</u>
<u>719640</u>	<u>0.77</u>	<u>Whitehorse</u>	<u>60.72</u>	<u>-135.07</u>	<u>Yukon Territory</u>

### **POLICY STATEMENT DEFINING ASHRAE'S CONCERN FOR THE ENVIRONMENTAL IMPACT OF ITS ACTIVITIES**

ASHRAE is concerned with the impact of its members' activities on both the indoor and outdoor environment. ASHRAE's members will strive to minimize any possible deleterious effect on the indoor and outdoor environment of the systems and components in their responsibility while maximizing the beneficial effects these systems provide, consistent with accepted standards and the practical state of the art.

ASHRAE's short-range goal is to ensure that the systems and components within its scope do not impact the indoor and outdoor environment to a greater extent than specified by the standards and guidelines as established by itself and other responsible bodies.

As an ongoing goal, ASHRAE will, through its Standards Committee and extensive technical committee structure, continue to generate up-to-date standards and guidelines where appropriate and adopt, recommend, and promote those new and revised standards developed by other responsible organizations.

Through its *Handbook*, appropriate chapters will contain up-to-date standards and design considerations as the material is systematically revised.

ASHRAE will take the lead with respect to dissemination of environmental information of its primary interest and will seek out and disseminate information from other responsible organizations that is pertinent, as guides to updating standards and guidelines.

The effects of the design and selection of equipment and systems will be considered within the scope of the system's intended use and expected misuse. The disposal of hazardous materials, if any, will also be considered.

ASHRAE's primary concern for environmental impact will be at the site where equipment within ASHRAE's scope operates. However, energy source selection and the possible environmental impact due to the energy source and energy transportation will be considered where possible. Recommendations concerning energy source selection should be made by its members.

