

STATION: HAPPY VALLEY - BELLA CASA
 COUNTY: CLACKAMAS STATE: OREGON
 ELEVATION: 600 FT OBS TIME: 2400 HRS PDT/PST
 OBSERVER: JEFFREY TAYLOR ZIP CODE: 97086-4246

MONTH
NOVEMBER
 YEAR
2017

WEATHER OBSERVATION DATA FORM
 FOR RECORDING DETAILED SURFACE OBSERVATIONS

| CALENDAR DATE | TEMPERATURE (°F) | | | | PRECIPITATION (INCHES) | | WEATHER CONDITIONS/EVENTS (24 HRS ENDING AT OBS) | | | | SKY COVER AVERAGE (24 HRS ENDING AT OBS) | WIND (MPH) | | BAROMETRIC PRESSURE (INCHES) | | RELATIVE HUMIDITY (PERCENT) | | DEW POINT (°F) | | | | | | | | | | | | | | | | | |
|---------------|----------------------|----------|-----------|---------------------|---------------------------------|---------------------------------|--|-------------------|------|----------------------------|--|----------------------|-------------------------|------------------------------|-------|-----------------------------|-------------------------|----------------------|----------------|---------|---------|--------------|---------|---------|--------------|---------|---------|--------------|------|------|------|------|------|--|---|
| | 24 HRS ENDING AT OBS | | | TEMP AT OBS | 24-HR AMOUNT | | AT OBS | MARK "X" FOR EACH | | | | 24 HRS ENDING AT OBS | | 24 HRS ENDING AT OBS | | 24 HRS ENDING AT OBS | | 24 HRS ENDING AT OBS | | | | | | | | | | | | | | | | | |
| | MAX TEMP | MIN TEMP | MEAN TEMP | | RAIN OR MELTED SNOW (0.00-0.05) | RAIN OR SNOW (0.00-0.05) | | THUNDER | FOG | HEAVY FOG (1/4-1/2 MI VIS) | HAIL | GLAZE | ICE PELLETS (0.00-0.05) | WINDING WINDS | CLEAR | PAIRTY CLOUDY | DAILY AVERAGE DIRECTION | PEAK GUST DIRECTION | PEAK GUST TIME | MAXIMUM | MINIMUM | MINIMUM TIME | MAXIMUM | MINIMUM | MINIMUM TIME | MAXIMUM | MINIMUM | MINIMUM TIME | | | | | | | |
| | MAX TEMP | MIN TEMP | MEAN TEMP | HEATING DEGREE DAYS | COOLING DEGREE DAYS | RAIN OR MELTED SNOW (0.00-0.05) | RAIN OR SNOW (0.00-0.05) | THUNDER | FOG | HEAVY FOG (1/4-1/2 MI VIS) | HAIL | GLAZE | ICE PELLETS (0.00-0.05) | WINDING WINDS | CLEAR | PAIRTY CLOUDY | DAILY AVERAGE DIRECTION | PEAK GUST DIRECTION | PEAK GUST TIME | MAXIMUM | MINIMUM | MINIMUM TIME | MAXIMUM | MINIMUM | MINIMUM TIME | MAXIMUM | MINIMUM | MINIMUM TIME | | | | | | | |
| 1 | 57.7 | 45.4 | 51.6 | 48.1 | 1222 0015 | 13.5 | 0.0 | 0.01 | 0.00 | 0.0 | 0 | | | | | X | 0.3 | SW | 9 | ESE | 1347 | 29.95 | 0004 | 29.87 | 1828 | 95 | 2335 | 63 | 1649 | 52 | 1221 | 37 | 0004 | CLR early AM, becoming CDY soon after. Rain Hr: 1945-1950 (0.01") | |
| 2 | 53.4 | 44.1 | 48.8 | 44.1 | 1202 2400 | 16.3 | 0.0 | 0.32 | 0.04 | 0.0 | 0 | X | | | | | X | 0.5 | SE | 17 | SW | 1538 | 29.88 | 0003 | 29.74 | 1511 | 97 | 0540 | 88 | 1228 | 51 | 1154 | 43 | 2344 | Mostly CDY day. Rain Hrs: 0225-0255 (0.03); 0845-0850 (0.01); 1320-1915 (0.28"), including intense 0.17" for 6-minute period 1528-1534 Hrs. Max. Rain Rate: 3.65"/Hr (1534 Hrs). AM Min. Temp. 47.8° (0031 Hrs). |
| 3 | 49.6 | 40.8 | 45.2 | 41.8 | 1140 2144 | 19.8 | 0.0 | 0.28 | 0.26 | T | 0 | X | X | | | | X | 0.1 | SE | 9 | ESE | 1105 | 30.06 | 2352 | 29.82 | 0001 | 97 | 0912 | 84 | 1249 | 47 | 1121 | 40 | 0722 | Mostly CDY day. Hail at approx. 1315 Hrs (viewed remotely from security camera). Rain Hrs: 0620-0645 (0.02"); 1310-1645 (0.24"); 1925-2215 (0.02"). Max. Rain Rate: 0.89"/Hr (1328 Hrs). AM Min. Temp. 47.7° (0548 Hrs). |
| 4 | 45.8 | 40.4 | 43.1 | 42.8 | 1501 0209 | 21.9 | 0.0 | 0.28 | 0.32 | 0.0 | 0 | X | | | | | X | 0.6 | SE | 13 | ESE | 2228 | 30.07 | 1016 | 29.83 | 2241 | 97 | 0628 | 90 | 1552 | 44 | 1254 | 39 | 0209 | Mostly CDY day Rain Hrs: 0550-0625 (0.04"); 1325-2400 (0.24"). Max. Rain Rate: 0.23"/Hr (2244 Hrs). |
| 5 | 49.8 | 39.8 | 44.8 | 40.0 | 1311 2336 | 20.2 | 0.0 | 0.46 | 0.47 | T | 0 | X | X | | | | | 0.5 | SW | 14 | SE | 0138 | 30.10 | 2359 | 29.79 | 0321 | 98 | 0929 | 71 | 1621 | 48 | 1048 | 37 | 1806 | Mostly CDY AM with sun breaks, PC PM. Hail 1131-1133 Hrs (pea-size, clear and white). Rain Hrs: 0001-0415 (0.21"); 0650-1315 (0.25"). Max. Rain Rate: 1.49"/Hr (1133 Hrs). AM Min. Temp 42.0° (0153 Hrs). |
| 6 | 49.7 | 38.4 | 44.1 | 39.0 | 1005 2328 | 21.0 | 0.0 | 0.00 | 0.28 | 0.0 | 0 | | | | X | | 0.2 | NW | 6 | E | 1757 | 30.28 | 2041 | 30.10 | 0001 | 97 | 0853 | 80 | 1345 | 46 | 1038 | 35 | 2157 | Mostly CDY earlier AM, PC afternoon, CLR evening. AM Min. Temp. 39.9° (0119 Hrs). | |
| 7 | 46.1 | 38.5 | 42.3 | 42.3 | 1134 0349 | 22.7 | 0.0 | 0.00 | 0.00 | 0.0 | 0 | X | | | | X | 1.4 | NNW | 11 | NNW | 1018 | 30.27 | 0001 | 29.94 | 2355 | 85 | 0001 | 67 | 1126 | 36 | 1103 | 32 | 0616 | CDY day. | |
| 8 | 46.5 | 41.3 | 43.9 | 41.3 | 0934 2359 | 21.1 | 0.0 | 0.37 | 0.00 | 0.0 | 0 | X | | | | X | 1.4 | NNW | 12 | SE | 1910 | 29.97 | 0032 | 29.66 | 1845 | 96 | 2345 | 63 | 0954 | 42 | 1535 | 32 | 0001 | Mostly CDY day. Rain Hrs: 1025-1455 (0.15"); 1955-2400 (0.22"). Max. Rain Rate: 0.40"/Hr (1957Hrs). AM Min. Temp. 41.8° (0153 Hrs); PM Max. Temp. 45.9° (1944 Hrs). | |
| 9 | 53.2 | 41.0 | 47.1 | 45.9 | 1157 0133 | 17.9 | 0.0 | 0.20 | 0.35 | 0.0 | 0 | X | | | | X | 0.4 | SE | 11 | SE | 1047 | 29.88 | 1647 | 29.66 | 0212 | 97 | 1041 | 91 | 1255 | 52 | 1150 | 40 | 0001 | CDY day, PC later evening. Rain Hrs: 0055-0315 (0.02"); 0725-1445 (0.18"); 1835-1840 (0.01); 2050-2120 (0.12); 2230-2255 (0.06). Max. Rain Rate: 2.49"/Hr (0141 Hrs). Daytime Max. Temp. 52.3° (1351 Hrs). AM Min. Temp. 47.3° (0657 Hrs). | |
| 10 | 53.3 | 44.9 | 49.1 | 46.2 | 1133 0447 | 15.9 | 0.0 | 0.64 | 0.70 | 0.0 | 0 | X | X | | | | X | 0.0 | NW | 4 | WNW | 0147 | 29.81 | 2001 | 29.79 | 0349 | 98 | 0835 | 92 | 0001 | 53 | 1222 | 44 | 0001 | 1405 (0.07"); 1645-2225 (0.01"). Max. Rain Rate: 0.29"/Hr (0424 Hrs). Early-in-the-day full double rainbow starting 1400 |
| 11 | 52.7 | 46.2 | 49.5 | 47.2 | 1424 0001 | 15.6 | 0.0 | 0.08 | 0.14 | 0.0 | 0 | X | | | | X | 0.0 | WNW | 4 | NNW | 0025 | 30.05 | 1034 | 30.00 | 0341 | 99 | 0841 | 97 | 1712 | 52 | 1052 | 46 | 0001 | Mostly CDY on this Veterans' Day. Rain Hrs: 0155-0630 (0.05"); 1105-1330 (0.02"); 1815-1820 (0.01"). Max. Rain Rate: 0.19"/Hr (0620 Hrs). | |
| 12 | 56.0 | 47.0 | 51.5 | 49.4 | 1328 0014 | 13.5 | 0.0 | 0.16 | 0.09 | 0.0 | 0 | X | | | | X | 0.0 | W | 4 | SSE | 0106 | 30.02 | 0023 | 29.69 | 2400 | 98 | 0925 | 93 | 1915 | 55 | 1311 | 46 | 0001 | Mostly CDY. Rain Hrs: 0205-0610 (0.06); 1235-1240 (0.01); 1855-2220 (0.09") Max. Rain Rate: 0.10"/Hr (1932 Hrs). | |
| 13 | 54.3 | 43.4 | 48.9 | 43.4 | 0110 2358 | 16.2 | 0.0 | 0.70 | 0.54 | 0.0 | 0 | X | | | | X | 2.2 | SE | 24 | SSE | 1450 | 30.07 | 2400 | 29.68 | 0031 | 98 | 0034 | 75 | 1416 | 52 | 0101 | 41 | 1810 | CDY AM, Variably CDY PM. Rain Hrs: 0105-0600 (0.47"); 1135-1150 (0.04"); 1835-1840 (0.01); 2050-2120 (0.12); 2230-2255 (0.06). Max. Rain Rate: 2.49"/Hr (0141 Hrs). Daytime Max. Temp. 52.3° (1351 Hrs). AM Min. Temp. 47.3° (0657 Hrs). | |
| 14 | 57.3 | 43.3 | 50.3 | 53.8 | 1228 0002 | 14.7 | 0.0 | 0.02 | 0.22 | 0.0 | 0 | X | | | | X | 1.1 | SE | 15 | SSE | 1338 | 30.14 | 0530 | 29.85 | 2356 | 96 | 0008 | 54 | 1238 | 46 | 0904 | 39 | 1336 | PC day. Rain Hrs: 0135-0310 (0.02"). | |
| 15 | 55.0 | 41.7 | 48.4 | 41.7 | 0945 2244 | 16.7 | 0.0 | 1.25 | 0.07 | 0.0 | 0 | X | | | | | X | 0.9 | SE | 25 | ESE | 0005 | 29.86 | 0004 | 29.58 | 2110 | 97 | 1203 | 56 | 0058 | 46 | 0519 | 39 | 0008 | OVC day. Rain Hrs: 0440-0615 (0.07); 0616-2255 (1.18"). Max. Rain Rate: 0.43"/Hr (1400 Hrs). AM Min. Temp. 45.4° (0942 Hrs); PM Max. Temp. 46.1° (1326 Hrs). |
| 16 | 47.0 | 41.5 | 44.3 | 42.4 | 1228 0131 | 20.8 | 0.0 | 0.19 | 1.09 | 0.0 | 0 | X | | | | X | 0.5 | SE | 11 | ESE | 1219 | 29.87 | 2358 | 29.64 | 0001 | 98 | 1002 | 91 | 1419 | 46 | 1019 | 41 | 0001 | Mostly CDY day. Rain Hrs: 0025-0340 (0.03); 0805-1110 (0.04); 1655-1850 (0.06); 2000-2320 (0.06). Max. Rain Rate: 0.16"/Hr (2151 Hrs). | |
| 17 | 49.0 | 41.3 | 45.2 | 43.1 | 1351 0624 | 19.9 | 0.0 | 0.13 | 0.20 | 0.0 | 0 | X | | | | X | 0.3 | SW | 7 | ESE | 1140 | 30.38 | 2333 | 29.87 | 0001 | 98 | 0724 | 90 | 1358 | 47 | 1142 | 41 | 0047 | Mostly CDY day. Rain Hrs: 0120-0440 (0.05"); 0730-0755 (0.02"); 1430-2000 (0.06). Max. Rain Rate: 0.17"/Hr (1454 Hrs). | |
| 18 | 49.5 | 37.7 | 43.6 | 37.7 | 1145 2400 | 21.4 | 0.0 | 0.00 | 0.07 | 0.0 | 0 | X | | | | X | 0.1 | W | 5 | SE | 1231 | 30.38 | 0001 | 30.16 | 2318 | 96 | 0001 | 82 | 1417 | 46 | 1126 | 37 | 2159 | Mostly CDY to mid-AM w/ a brilliant sunrise; PC midday through evening. Frost late evening. AM Min. Temp. 39.6° (0701 Hrs). | |
| 19 | 49.2 | 33.8 | 41.5 | 46.1 | 1754 0354 | 23.5 | 0.0 | 0.18 | 0.01 | 0.0 | 0 | X | X | | | | X | 0.3 | SE | 12 | ESE | 1732 | 30.19 | 0036 | 29.74 | 2353 | 98 | 0949 | 61 | 1749 | 45 | 2257 | 33 | 0336 | AM FG+ (Visibility near zero), lifting by 0900 Hrs, PC through evening, CDY thereafter. Rain Hrs: 0245-0250 (0.01"), likely from FG+; 1945-2400 (0.17"). Max. Rain Rate: 0.19" (2059 Hrs). Lowest Minimum Temperature since 33.5° on 3/19/2017. |
| 20 | 55.4 | 45.8 | 50.6 | 46.7 | 1039 2027 | 14.4 | 0.0 | 0.85 | 0.67 | 0.0 | 0 | X | | | | X | 0.3 | SW | 10 | SW | 0811 | 30.03 | 2156 | 29.59 | 0624 | 99 | 0637 | 89 | 1325 | 55 | 1026 | 45 | 0001 | Mostly CDY day. Rain Hrs: 0001-0610 (0.53"); 0640-0835 (0.31"); 1035-1040 (0.01). Max. Rain Rate: 0.90"/Hr (0647Hrs). AM Min. Temp. 46.0° (0001 Hrs). | |
| 21 | 56.5 | 46.7 | 51.6 | 55.2 | 2335 0001 | 13.4 | 0.0 | 0.53 | 0.48 | 0.0 | 0 | X | X | | | | X | 0.0 | SSE | 12 | SE | 2041 | 30.05 | 2243 | 29.94 | 1236 | 100 | 2041 | 96 | 0001 | 57 | 2335 | 46 | 0001 | CDY day Rain Hrs: 0055-0550 (0.16"); 0745-1020 (0.09"); 1615-2400 (0.28"). Max. Rain Rate: 0.77"/Hr (0544 Hrs). Daytime Max. Temp. 56.3° (1249 Hrs). |
| 22 | 62.0 | 54.9 | 58.5 | 59.7 | 1345 0017 | 6.6 | 0.0 | 0.46 | 0.51 | 0.0 | 0 | X | | | | X | 0.1 | SE | 8 | ESE | 1824 | 30.09 | 1034 | 29.95 | 2400 | 100 | 0031 | 99 | 0001 | 62 | 1227 | 55 | 0001 | CDY day w/ AM FG+ (Visibility <1/8 Mile). Rain Hrs: 0001-0630 (0.18"); 0715-0840 (0.11"); 1530-1535 (0.01"); 1900-2315 (0.16"). Max. Rain Rate: 0.34"/Hr (0328 Hrs). | |
| 23 | 60.9 | 46.5 | 53.7 | 47.0 | 1015 2325 | 11.3 | 0.0 | 0.52 | 0.51 | 0.0 | 0 | X | | | | X | 0.5 | SW | 10 | WSW | 1140 | 30.09 | 2354 | 29.88 | 1126 | 100 | 001 | 91 | 1722 | 61 | 1010 | 46 | 2012 | CDY day, PC evening, CLR later PM. Rain Hrs: 0040-0430 (0.26); 0710-1110 (0.23); 1345-1410 (0.03"). Max. Rain Rate: 2.94"/Hr (1106 Hrs). AM Min. Temp. balmy 57.8"; PM Max. Temp. 59.1° (1318 Hrs). Happy Thanksgiving. | |
| 24 | 53.7 | 40.5 | 47.1 | 40.5 | 1210 2353 | 17.9 | 0.0 | 0.16 | 0.38 | 0.0 | 0 | X | | | | X | 0.2 | W | 7 | ESE | 1102 | 30.18 | 1041 | 30.08 | 0001 | 99 | 0851 | 81 | 1256 | 52 | 1210 | 39 | 2346 | OVC AM, PC afternoon, CLR evening. Rain Hrs: 0115-0635 (0.14"); 0730-0830 (0.02"). Max. Rain Rate: 0.68"/Hr (0446 Hrs). AM Min. Temp. 46.5° (0331 Hrs). | |
| 25 | 49.7 | 39.7 | 44.7 | 46.8 | 1220 2008 | 20.3 | 0.0 | 0.10 | 0.03 | 0.0 | 0 | X | | | | X | 0.3 | NNW | 7 | NW | 1801 | 30.14 | 0001 | 29.66 | 2327 | 97 | 1652 | 79 | 1113 | 48 | 1815 | 38 | 0155 | Mostly CDY AM, CDY PM. Rain Hrs: 1310-1620 (0.09"); 2045-2200 (0.01"). Max. Rain Rate: 0.15"/Hr (1619 Hrs). | |
| 26 | 58.0 | 44.5 | 51.3 | 44.5 | 1106 2349 | 13.8 | 0.0 | 0.59 | 0.22 | 0.0 | 0 | X | | | | X | 0.4 | SE | 12 | ESE | 1103 | 29.97 | 2358 | 29.59 | 0435 | 99 | 0907 | 88 | 0427 | 56 | 1103 | 44 | 2322 | OVC day. Rain Hrs: 0100-0105 (0.01); 0620-0650 (0.08"); 0651-1555 (0.48"); 1950-2020 (0.02"). Max. Rain Rate: 1.35"/Hr (1133 Hrs). AM Min. Temp. 46.8° (0001 Hrs). | |
| 27 | 48.0 | 41.6 | 44.8 | 42.3 | 1355 2038 | 20.2 | 0.0 | T | 0.55 | 0.0 | 0 | X | X | | | | X | 0.1 | W | 5 | SE | 1233 | 30.22 | 1643 | 29.90 | 0030 | 99 | 0619 | 95 | 1401 | 47 | 1145 | 41 | 1959 | OVC through sunrise w/ FG+, PC by mid-AM, CLR evening. AM Min. Temp. 42.3° (0409 Hrs). Rain: 0550-0600 Hrs (T). |
| 28 | 44.6 | 42.2 | 43.4 | 43.2 | 1351 0036 | 21.6 | 0.0 | 0.39 | 0.01 | 0.0 | 0 | X | | | | X | 0.2 | WNW | 7 | W | 1418 | 30.34 | 2351 | 29.99 | 1222 | 98 | 1345 | 87 | 0627 | 44 | 1121 | 40 | 0539 | Mostly CDY day. Rain Hrs: 0800-1445 (0.38"); 1835-1840 (0.01"). Max. Rain Rate: 0.25"/Hr (1115 Hrs). | |
| 29 | 50.8 | 40.1 | 45.5 | 40.1 | 1126 2355 | 19.6 | 0.0</ | | | | | | | | | | | | | | | | | | | | | | | | | | | | |