

## Summary WL Data for January 2012 for AWS station: FoelFrio

## Monthly WLReport Summary for Foel Friog Weather Station

Station Day 00-00 hrs:

Solar intensity values &lt; 100W/sqm excluded from BS Hours evaluation.

| Day            | T max<br>°C | T min<br>°C | T mean<br>°C | Rain<br>In    | P Max<br>mB   | P Min<br>mB  | P Mean<br>mB   | Gust Max<br>MPH | Mean Wind<br>MPH | Wind Run<br>Miles | Dom Dir | Sun Mean   | BS Hours      | T_Energy<br>MJ/sqm |
|----------------|-------------|-------------|--------------|---------------|---------------|--------------|----------------|-----------------|------------------|-------------------|---------|------------|---------------|--------------------|
| 1              | 10.6        | 4.9         | 8.3          | 0.48          | 1003.9        | 996.8        | 999.8          | 29              | 5.5              | 133               | 10      | 4          | 0.0           | 0.4                |
| 2              | 7.0         | 2.9         | 5.6          | 0.20          | 1006.5        | 999.3        | 1003.2         | 28              | 7.0              | 168               | 10      | 20         | 0.5           | 1.8                |
| 3              | 11.4        | 5.4         | 7.6          | 1.06          | 1010.3        | 986.9        | 996.8          | 45              | 9.4              | 227               | 10      | 12         | 0.0           | 1.1                |
| 4              | 9.4         | 6.1         | 7.4          | 1.05          | 1017.5        | 1000.3       | 1010.7         | 42              | 10.1             | 243               | 10      | 7          | 0.0           | 0.6                |
| 5              | 10.2        | 6.2         | 8.3          | 0.29          | 1021.0        | 998.1        | 1007.6         | 47              | 7.1              | 172               | 8       | 8          | 0.0           | 0.7                |
| 6              | 10.3        | 4.7         | 7.7          | 0.32          | 1025.8        | 1017.8       | 1022.5         | 24              | 3.8              | 92                | 10      | 13         | 0.0           | 1.2                |
| 7              | 10.1        | 7.7         | 8.3          | 0.04          | 1024.7        | 1017.7       | 1022.0         | 32              | 5.1              | 124               | 2       | 19         | 0.5           | 1.7                |
| 8              | 10.6        | 7.3         | 8.7          | 0.07          | 1026.9        | 1024.5       | 1026.1         | 19              | 1.8              | 44                | 10      | 18         | 0.0           | 1.6                |
| 9              | 10.3        | 6.8         | 8.7          | 0.30          | 1030.7        | 1025.3       | 1027.9         | 31              | 2.3              | 57                | 10      | 11         | 0.0           | 1.0                |
| 10             | 9.6         | 7.3         | 8.7          | 0.39          | 1031.1        | 1030.0       | 1030.4         | 28              | 5.6              | 136               | 10      | 6          | 0.0           | 0.5                |
| 11             | 9.6         | 8.5         | 9.1          | 0.94          | 1032.0        | 1026.8       | 1030.0         | 34              | 5.7              | 138               | 10      | 5          | 0.0           | 0.5                |
| 12             | 10.3        | 1.8         | 7.7          | 0.30          | 1031.7        | 1024.1       | 1027.5         | 29              | 3.1              | 76                | 10      | 22         | 1.5           | 1.9                |
| 13             | 6.0         | -1.1        | 1.0          | 0.01          | 1033.9        | 1031.7       | 1032.8         | 4               | 0.0              | 2                 | 15      | 22         | 0.5           | 1.9                |
| 14             | 4.8         | -2.5        | -0.3         | 0.02          | 1031.3        | 1023.5       | 1027.2         | 6               | 0.3              | 8                 | 3       | 33         | 3.0           | 2.9                |
| 15             | 6.0         | -0.4        | 1.6          | 0.00          | 1023.3        | 1020.3       | 1021.6         | 20              | 1.1              | 27                | 15      | 43         | 3.5           | 3.7                |
| 16             | 6.7         | -3.2        | 0.3          | 0.00          | 1025.1        | 1021.9       | 1023.5         | 9               | 0.4              | 11                | 2       | 38         | 4.0           | 3.4                |
| 17             | 8.4         | -3.6        | 0.7          | 0.09          | 1025.6        | 1021.3       | 1024.1         | 4               | 0.0              | 0                 | 14      | 36         | 3.0           | 3.2                |
| 18             | 10.1        | 3.6         | 8.1          | 0.59          | 1021.8        | 1018.7       | 1020.4         | 23              | 1.3              | 34                | 10      | 9          | 0.0           | 0.9                |
| 19             | 7.9         | 4.9         | 6.7          | 0.43          | 1019.7        | 1016.1       | 1017.7         | 28              | 3.9              | 96                | 10      | 19         | 0.5           | 1.7                |
| 20             | 10.4        | 5.7         | 7.8          | 0.62          | 1020.2        | 1014.7       | 1018.3         | 34              | 4.6              | 111               | 10      | 6          | 0.0           | 0.5                |
| 21             | 10.6        | 6.6         | 8.5          | 0.04          | 1015.0        | 1009.6       | 1012.2         | 36              | 6.2              | 149               | 15      | 16         | 0.5           | 1.4                |
| 22             | 9.5         | 6.6         | 7.7          | 0.01          | 1017.4        | 1010.6       | 1014.1         | 35              | 5.3              | 129               | 10      | 26         | 0.0           | 2.3                |
| 23             | 6.8         | 0.4         | 5.5          | 0.12          | 1020.7        | 1016.7       | 1018.2         | 16              | 1.5              | 37                | 10      | 15         | 0.0           | 1.3                |
| 24             | 10.4        | 0.1         | 7.4          | 1.26          | 1020.2        | 1014.4       | 1016.2         | 19              | 1.6              | 40                | 10      | 13         | 0.0           | 1.2                |
| 25             | 9.8         | 5.1         | 8.3          | 0.30          | 1015.8        | 1001.3       | 1008.3         | 27              | 4.8              | 117               | 10      | 11         | 0.0           | 1.0                |
| 26             | 6.0         | 1.1         | 4.0          | 0.31          | 1009.8        | 1000.4       | 1004.2         | 27              | 4.1              | 101               | 9       | 23         | 0.0           | 1.9                |
| 27             | 6.8         | 2.9         | 5.1          | 0.16          | 1023.6        | 1010.2       | 1017.0         | 26              | 3.4              | 84                | 10      | 24         | 0.0           | 2.1                |
| 28             | 5.9         | -0.9        | 1.4          | 0.00          | 1032.8        | 1024.0       | 1030.1         | 14              | 0.2              | 7                 | 1       | 33         | 1.0           | 2.9                |
| 29             | 2.6         | -0.7        | 0.7          | 0.36          | 1032.1        | 1025.6       | 1028.8         | 4               | 0.0              | 1                 | 10      | 12         | 0.0           | 1.1                |
| 30             | 2.9         | -1.1        | 0.9          | 0.06          | 1025.6        | 1023.3       | 1024.5         | 15              | 1.0              | 24                | 1       | 24         | 0.5           | 2.1                |
| 31             | 1.0         | -2.8        | -0.5         | 0.00          | 1030.8        | 1023.0       | 1026.3         | 15              | 1.8              | 46                | 0       | 9          | 0.0           | 0.8                |
| Monthly Values | Max<br>11.4 | Min<br>-3.6 | Mean<br>5.5  | Total<br>9.82 | Max<br>1033.9 | Min<br>986.9 | Mean<br>1019.0 | Max<br>47       | Mean<br>3.5      | Total<br>2625     | ---     | Mean<br>18 | Total<br>19.0 | Total<br>49.1      |

Days with Air Frost (T&lt;=-0.1°C) = 9

Rain Days (&gt;0.01In) = 25;

Wet Days (&gt;0.05In) = 22

## Summary WL Data for February 2012 for AWS station: FoelFrio

## Monthly WLReport Summary for Foel Friog Weather Station

Station Day 00-00 hrs:

Solar intensity values &lt; 100W/sqm excluded from BS Hours evaluation.

| Day            | T max<br>°C | T min<br>°C | T mean<br>°C | Rain<br>In    | P Max<br>mB   | P Min<br>mB   | P Mean<br>mB   | Gust Max<br>MPH | Mean Wind<br>MPH | Wind Run<br>Miles | Dom Dir | Sun Mean   | BS Hours      | T_Energy<br>MJ/sqm |
|----------------|-------------|-------------|--------------|---------------|---------------|---------------|----------------|-----------------|------------------|-------------------|---------|------------|---------------|--------------------|
| 1              | 4.0         | -2.8        | 0.0          | 0.00          | 1037.4        | 1030.8        | 1034.1         | 18              | 2.7              | 67                | 15      | 62         | 4.5           | 5.4                |
| 2              | 3.2         | -5.8        | -2.5         | 0.00          | 1038.2        | 1036.0        | 1036.7         | 11              | 0.7              | 19                | 1       | 46         | 3.0           | 4.0                |
| 3              | 4.1         | -7.8        | -3.4         | 0.01          | 1039.9        | 1038.2        | 1038.8         | 9               | 0.1              | 4                 | 1       | 61         | 4.5           | 5.3                |
| 4              | 5.4         | -2.0        | 0.5          | 0.98          | 1038.1        | 1020.5        | 1029.6         | 11              | 0.3              | 8                 | 1       | 6          | 0.0           | 0.6                |
| 5              | 8.1         | -1.6        | 1.8          | 0.01          | 1030.2        | 1022.9        | 1027.5         | 4               | 0.0              | 2                 | 0       | 43         | 2.0           | 3.7                |
| 6              | 7.7         | -1.4        | 2.7          | 0.02          | 1036.4        | 1030.4        | 1032.4         | 7               | 0.3              | 9                 | 1       | 27         | 0.5           | 2.3                |
| 7              | 5.7         | -2.0        | 0.3          | 0.01          | 1041.7        | 1036.1        | 1039.0         | 9               | 0.6              | 16                | 2       | 47         | 2.0           | 4.1                |
| 8              | 1.9         | -5.3        | -2.3         | 0.00          | 1042.4        | 1039.4        | 1040.9         | 13              | 1.4              | 35                | 0       | 69         | 4.5           | 6.0                |
| 9              | 1.7         | -6.9        | -1.9         | 0.16          | 1039.8        | 1032.9        | 1036.8         | 2               | 0.0              | 0                 | 2       | 16         | 0.0           | 1.4                |
| 10             | 2.4         | 0.6         | 1.3          | 0.12          | 1034.4        | 1032.7        | 1033.6         | 12              | 1.0              | 24                | 1       | 10         | 0.0           | 0.9                |
| 11             | 3.1         | 0.2         | 1.2          | 0.01          | 1035.7        | 1032.9        | 1034.3         | 5               | 0.0              | 2                 | 1       | 28         | 0.0           | 2.5                |
| 12             | 8.2         | 1.3         | 3.4          | 0.01          | 1035.9        | 1033.7        | 1034.7         | 9               | 0.1              | 3                 | 5       | 36         | 0.5           | 3.2                |
| 13             | 8.2         | 2.7         | 5.8          | 0.00          | 1033.8        | 1025.9        | 1028.9         | 23              | 3.2              | 79                | 2       | 29         | 0.0           | 2.5                |
| 14             | 8.8         | 5.7         | 7.3          | 0.00          | 1029.4        | 1026.3        | 1027.7         | 30              | 4.8              | 117               | 2       | 34         | 0.0           | 3.0                |
| 15             | 10.2        | 6.8         | 8.2          | 0.00          | 1029.9        | 1026.5        | 1028.5         | 26              | 5.0              | 122               | 15      | 29         | 0.0           | 2.5                |
| 16             | 9.1         | 3.1         | 7.0          | 0.30          | 1029.8        | 1024.7        | 1027.3         | 16              | 1.5              | 38                | 10      | 30         | 0.0           | 2.6                |
| 17             | 9.6         | 7.8         | 8.5          | 0.95          | 1024.5        | 1014.6        | 1020.7         | 27              | 2.8              | 70                | 10      | 13         | 0.0           | 1.1                |
| 18             | 8.3         | 3.5         | 6.2          | 0.65          | 1017.0        | 1005.1        | 1010.1         | 39              | 7.5              | 182               | 10      | 45         | 2.0           | 4.0                |
| 19             | 6.4         | -0.4        | 2.3          | 0.29          | 1030.7        | 1017.0        | 1025.2         | 19              | 1.6              | 40                | 3       | 48         | 2.5           | 4.2                |
| 20             | 7.9         | 0.1         | 5.5          | 0.02          | 1030.4        | 1025.5        | 1027.4         | 33              | 5.5              | 134               | 10      | 23         | 0.0           | 1.9                |
| 21             | 9.2         | 7.1         | 8.2          | 0.37          | 1025.3        | 1023.5        | 1024.4         | 32              | 5.3              | 129               | 10      | 19         | 0.0           | 1.7                |
| 22             | 10.6        | 8.1         | 9.1          | 1.56          | 1023.2        | 1013.7        | 1017.5         | 30              | 5.8              | 140               | 10      | 7          | 0.0           | 0.6                |
| 23             | 11.2        | 8.4         | 9.5          | 0.03          | 1024.7        | 1018.6        | 1022.4         | 27              | 3.0              | 74                | 15      | 15         | 0.0           | 1.3                |
| 24             | 11.1        | 0.9         | 7.3          | 0.11          | 1029.8        | 1023.8        | 1026.3         | 19              | 1.8              | 44                | 15      | 34         | 0.5           | 3.0                |
| 25             | 10.2        | 0.8         | 4.1          | 0.00          | 1029.5        | 1026.4        | 1027.7         | 12              | 0.6              | 15                | 3       | 44         | 0.5           | 3.9                |
| 26             | 12.5        | -0.4        | 4.9          | 0.04          | 1028.7        | 1025.0        | 1027.1         | 14              | 0.7              | 18                | 10      | 85         | 4.5           | 7.4                |
| 27             | 9.6         | 6.6         | 8.4          | 0.15          | 1024.7        | 1021.2        | 1022.6         | 21              | 2.9              | 72                | 10      | 19         | 0.0           | 1.7                |
| 28             | 10.3        | 6.7         | 8.5          | 0.02          | 1023.7        | 1022.2        | 1023.0         | 10              | 0.9              | 23                | 15      | 34         | 0.0           | 3.0                |
| 29             | 11.6        | 6.4         | 8.3          | 0.00          | 1023.1        | 1021.6        | 1022.4         | 13              | 0.8              | 20                | 10      | 49         | 0.5           | 4.3                |
| Monthly Values | Max<br>12.5 | Min<br>-7.8 | Mean<br>4.1  | Total<br>5.82 | Max<br>1042.4 | Min<br>1005.1 | Mean<br>1028.5 | Max<br>39       | Mean<br>2.1      | Total<br>1502     | ---     | Mean<br>35 | Total<br>32.0 | Total<br>88.1      |

Days with Air Frost (T&lt;=-0.1°C) = 11

Rain Days (&gt;0.01In) = 16;

Wet Days (&gt;0.05In) = 11

## Summary WL Data for March 2012 for AWS station: FoelFrio

## Monthly WLReport Summary for Foel Friog Weather Station

Station Day 00-00 hrs:

Solar intensity values &lt; 100W/sqm excluded from BS Hours evaluation.

| Day            | T max<br>°C | T min<br>°C | T mean<br>°C | Rain<br>In    | P Max<br>mB   | P Min<br>mB   | P Mean<br>mB   | Gust Max<br>MPH | Mean Wind<br>MPH | Wind Run<br>Miles | Dom Dir | Sun Mean   | BS Hours       | T_Energy<br>MJ/sqm |
|----------------|-------------|-------------|--------------|---------------|---------------|---------------|----------------|-----------------|------------------|-------------------|---------|------------|----------------|--------------------|
| 1              | 10.4        | 3.2         | 7.7          | 0.00          | 1027.3        | 1022.7        | 1025.1         | 14              | 0.5              | 13                | 10      | 27         | 0.0            | 2.3                |
| 2              | 14.6        | 3.6         | 7.6          | 0.00          | 1027.1        | 1016.4        | 1022.8         | 12              | 0.8              | 20                | 2       | 85         | 6.0            | 7.4                |
| 3              | 10.7        | 4.2         | 7.7          | 0.33          | 1016.6        | 1010.7        | 1013.6         | 28              | 3.2              | 77                | 10      | 52         | 1.0            | 4.6                |
| 4              | 7.8         | 2.5         | 4.9          | 0.31          | 1023.3        | 1013.4        | 1017.8         | 26              | 3.0              | 74                | 2       | 60         | 1.5            | 5.1                |
| 5              | 9.0         | -1.4        | 4.9          | 0.01          | 1027.1        | 1023.6        | 1025.6         | 22              | 2.8              | 69                | 2       | 63         | 1.5            | 5.5                |
| 6              | 9.5         | -2.4        | 3.8          | 0.13          | 1027.1        | 1016.4        | 1023.3         | 21              | 2.6              | 63                | 10      | 93         | 4.0            | 7.9                |
| 7              | 10.3        | 5.1         | 7.4          | 0.50          | 1023.6        | 1008.4        | 1014.8         | 37              | 5.8              | 140               | 9       | 73         | 3.0            | 6.3                |
| 8              | 10.4        | 5.3         | 7.8          | 0.00          | 1031.6        | 1023.7        | 1029.2         | 26              | 3.8              | 94                | 10      | 73         | 2.5            | 6.3                |
| 9              | 9.5         | 8.2         | 8.8          | 0.24          | 1034.7        | 1030.2        | 1031.8         | 21              | 3.8              | 93                | 10      | 14         | 0.0            | 1.3                |
| 10             | 10.7        | 7.8         | 9.0          | 0.03          | 1038.2        | 1034.5        | 1036.5         | 14              | 1.5              | 38                | 10      | 39         | 0.0            | 3.4                |
| 11             | 16.1        | 5.2         | 9.4          | 0.00          | 1038.6        | 1035.6        | 1037.1         | 9               | 0.6              | 15                | 15      | 121        | 5.5            | 10.5               |
| 12             | 16.2        | 5.5         | 8.3          | 0.00          | 1035.6        | 1032.9        | 1034.2         | 9               | 1.2              | 31                | 10      | 115        | 5.0            | 10.0               |
| 13             | 10.3        | 5.8         | 7.6          | 0.00          | 1034.0        | 1031.5        | 1033.0         | 7               | 1.1              | 27                | 2       | 43         | 0.0            | 3.7                |
| 14             | 15.5        | 2.5         | 8.5          | 0.00          | 1031.5        | 1025.8        | 1028.4         | 9               | 0.7              | 18                | 10      | 131        | 5.5            | 11.4               |
| 15             | 7.8         | 2.1         | 6.2          | 0.00          | 1025.7        | 1020.1        | 1022.4         | 17              | 0.8              | 20                | 10      | 27         | 0.0            | 2.3                |
| 16             | 10.1        | 6.9         | 8.5          | 0.40          | 1019.9        | 1010.0        | 1014.3         | 16              | 3.1              | 75                | 10      | 32         | 0.0            | 2.8                |
| 17             | 10.6        | 4.2         | 6.5          | 0.53          | 1010.2        | 1008.2        | 1009.5         | 19              | 1.0              | 26                | 2       | 73         | 1.5            | 6.3                |
| 18             | 12.8        | -0.8        | 5.3          | 0.01          | 1028.0        | 1010.2        | 1018.5         | 13              | 0.8              | 20                | 2       | 109        | 5.0            | 9.3                |
| 19             | 9.6         | -0.9        | 5.6          | 0.00          | 1032.5        | 1028.1        | 1031.1         | 22              | 3.0              | 73                | 10      | 79         | 1.5            | 6.9                |
| 20             | 11.6        | 8.2         | 9.3          | 0.00          | 1034.0        | 1032.0        | 1033.2         | 23              | 3.6              | 88                | 10      | 80         | 1.0            | 7.0                |
| 21             | 12.4        | 2.7         | 7.9          | 0.00          | 1034.5        | 1031.1        | 1032.9         | 10              | 0.8              | 21                | 2       | 65         | 0.5            | 5.6                |
| 22             | 15.2        | 2.8         | 9.9          | 0.01          | 1031.0        | 1025.2        | 1027.4         | 20              | 2.1              | 52                | 15      | 85         | 2.5            | 7.4                |
| 23             | 18.7        | 4.6         | 10.3         | 0.00          | 1025.8        | 1023.8        | 1024.8         | 13              | 0.7              | 18                | 2       | 135        | 6.0            | 11.7               |
| 24             | 21.4        | 2.9         | 11.1         | 0.00          | 1029.7        | 1025.6        | 1027.0         | 17              | 1.1              | 28                | 1       | 158        | 7.0            | 13.7               |
| 25             | 19.9        | 3.8         | 10.9         | 0.00          | 1034.5        | 1029.8        | 1032.2         | 20              | 1.7              | 40                | 0       | 175        | 7.5            | 14.5               |
| 26             | 20.9        | 2.2         | 10.2         | 0.00          | 1035.9        | 1033.9        | 1034.9         | 17              | 1.9              | 46                | 0       | 208        | 8.0            | 18.0               |
| 27             | 21.7        | 2.3         | 10.4         | 0.00          | 1036.5        | 1033.8        | 1035.3         | 17              | 1.2              | 30                | 1       | 182        | 7.5            | 15.8               |
| 28             | 22.7        | 1.8         | 10.2         | 0.00          | 1034.4        | 1030.4        | 1032.5         | 13              | 0.6              | 15                | 0       | 180        | 7.5            | 15.6               |
| 29             | 21.3        | 1.1         | 9.2          | 0.00          | 1031.1        | 1027.4        | 1029.4         | 10              | 0.6              | 16                | 9       | 181        | 7.5            | 15.7               |
| 30             | 15.8        | 1.7         | 8.1          | 0.00          | 1027.6        | 1021.1        | 1024.8         | 10              | 0.7              | 18                | 10      | 169        | 6.5            | 14.6               |
| 31             | 12.2        | 5.3         | 8.8          | 0.00          | 1023.2        | 1018.7        | 1020.3         | 14              | 1.8              | 45                | 0       | 57         | 0.0            | 5.0                |
| Monthly Values | Max<br>22.7 | Min<br>-2.4 | Mean<br>8.1  | Total<br>2.50 | Max<br>1038.6 | Min<br>1008.2 | Mean<br>1026.6 | Max<br>37       | Mean<br>1.8      | Total<br>1397     | ---     | Mean<br>96 | Total<br>105.0 | Total<br>258.1     |

Days with Air Frost (T&lt;=-0.1°C) = 4

Rain Days (&gt;0.01In) = 8;

Wet Days (&gt;0.05In) = 7

## Summary WL Data for April 2012 for AWS station: FoelFrio

## Monthly WLReport Summary for Foel Friog Weather Station

Station Day 00-00 hrs:

Solar intensity values &lt; 100W/sqm excluded from BS Hours evaluation.

| Day            | T max<br>°C | T min<br>°C | T mean<br>°C | Rain<br>In    | P Max<br>mB   | P Min<br>mB  | P Mean<br>mB   | Gust Max<br>MPH | Mean Wind<br>MPH | Wind Run<br>Miles | Dom Dir | Sun Mean    | BS Hours      | T_Energy<br>MJ/sqm |
|----------------|-------------|-------------|--------------|---------------|---------------|--------------|----------------|-----------------|------------------|-------------------|---------|-------------|---------------|--------------------|
| 1              | 14.2        | -0.6        | 5.8          | 0.00          | 1023.6        | 1016.4       | 1020.2         | 16              | 0.9              | 22                | 2       | 136         | 5.5           | 11.8               |
| 2              | 10.1        | -1.3        | 4.7          | 0.01          | 1016.2        | 1006.5       | 1010.9         | 11              | 0.5              | 12                | 9       | 63          | 0.0           | 5.5                |
| 3              | 8.8         | 2.4         | 5.9          | 0.19          | 1006.4        | 999.9        | 1002.5         | 29              | 2.7              | 65                | 2       | 67          | 0.5           | 5.8                |
| 4              | 4.1         | 1.8         | 2.9          | 0.23          | 1018.5        | 1004.1       | 1010.7         | 38              | 13.0             | 314               | 1       | 60          | 0.0           | 5.2                |
| 5              | 9.7         | -1.4        | 4.4          | 0.00          | 1022.2        | 1018.9       | 1020.8         | 24              | 5.2              | 127               | 1       | 176         | 7.5           | 15.2               |
| 6              | 9.1         | -2.7        | 3.9          | 0.00          | 1021.3        | 1011.1       | 1016.3         | 14              | 0.5              | 14                | 2       | 46          | 0.0           | 4.1                |
| 7              | 13.6        | 7.6         | 9.8          | 0.02          | 1014.3        | 1010.2       | 1012.5         | 15              | 2.0              | 49                | 15      | 92          | 2.0           | 8.0                |
| 8              | 10.7        | 8.2         | 9.1          | 0.27          | 1014.1        | 1004.3       | 1010.8         | 24              | 3.0              | 74                | 10      | 59          | 0.5           | 5.2                |
| 9              | 9.2         | 6.2         | 8.0          | 1.68          | 1003.8        | 981.5        | 990.7          | 30              | 6.1              | 149               | 10      | 35          | 0.0           | 3.1                |
| 10             | 9.0         | 4.8         | 6.3          | 0.07          | 991.5         | 982.7        | 987.2          | 26              | 5.7              | 139               | 10      | 88          | 0.5           | 7.6                |
| 11             | 12.8        | 1.4         | 6.8          | 0.00          | 1000.7        | 991.6        | 996.4          | 19              | 1.2              | 31                | 10      | 187         | 6.0           | 16.2               |
| 12             | 14.2        | 0.8         | 6.9          | 0.05          | 1005.6        | 1000.8       | 1002.9         | 17              | 1.4              | 36                | 2       | 211         | 7.0           | 18.3               |
| 13             | 11.8        | -1.2        | 4.9          | 0.29          | 1005.6        | 1003.5       | 1004.7         | 11              | 0.6              | 16                | 2       | 115         | 3.5           | 10.0               |
| 14             | 9.9         | 0.8         | 5.6          | 0.38          | 1016.6        | 1005.5       | 1009.7         | 22              | 3.9              | 96                | 2       | 165         | 4.5           | 14.3               |
| 15             | 10.1        | -1.3        | 3.2          | 0.01          | 1026.8        | 1017.0       | 1022.3         | 19              | 2.2              | 55                | 2       | 165         | 6.0           | 14.3               |
| 16             | 11.1        | -1.9        | 4.4          | 0.08          | 1026.6        | 1008.8       | 1021.4         | 15              | 1.5              | 38                | 10      | 146         | 4.0           | 12.7               |
| 17             | 10.1        | 5.2         | 7.2          | 0.85          | 1008.0        | 983.9        | 994.5          | 32              | 5.5              | 134               | 10      | 137         | 3.5           | 11.9               |
| 18             | 9.0         | 4.4         | 6.3          | 0.08          | 983.2         | 976.3        | 979.1          | 22              | 4.6              | 111               | 0       | 86          | 0.0           | 7.5                |
| 19             | 13.0        | 3.3         | 7.8          | 0.08          | 991.0         | 982.3        | 986.3          | 19              | 2.2              | 54                | 2       | 118         | 2.0           | 10.2               |
| 20             | 10.4        | 1.8         | 5.2          | 0.48          | 993.5         | 990.4        | 991.9          | 17              | 1.1              | 29                | 2       | 123         | 3.0           | 10.6               |
| 21             | 11.3        | -0.8        | 5.3          | 0.10          | 999.8         | 993.1        | 996.3          | 20              | 1.5              | 37                | 10      | 125         | 2.0           | 10.8               |
| 22             | 12.8        | 2.9         | 7.7          | 0.10          | 1000.9        | 998.8        | 1000.2         | 21              | 2.1              | 51                | 10      | 170         | 4.5           | 14.8               |
| 23             | 13.7        | 3.8         | 8.2          | 0.15          | 998.5         | 990.9        | 993.9          | 22              | 4.2              | 102               | 2       | 199         | 8.0           | 17.3               |
| 24             | 13.4        | 1.2         | 6.9          | 0.00          | 998.8         | 994.0        | 997.5          | 17              | 2.0              | 50                | 1       | 199         | 5.5           | 17.3               |
| 25             | 10.4        | 4.2         | 6.7          | 0.49          | 993.5         | 976.3        | 981.4          | 31              | 4.3              | 104               | 0       | 67          | 1.0           | 5.8                |
| 26             | 10.9        | 6.9         | 8.4          | 0.64          | 1001.0        | 978.1        | 988.6          | 13              | 0.9              | 24                | 10      | 66          | 0.0           | 5.7                |
| 27             | 8.7         | 4.5         | 6.6          | 0.07          | 1016.6        | 1001.6       | 1009.9         | 16              | 3.4              | 82                | 2       | 68          | 0.0           | 6.0                |
| 28             | 12.2        | 5.3         | 7.5          | 0.01          | 1019.0        | 1016.3       | 1017.8         | 24              | 6.8              | 164               | 1       | 155         | 3.0           | 13.4               |
| 29             | 8.2         | 4.2         | 5.8          | 0.42          | 1015.6        | 1001.6       | 1006.8         | 40              | 12.7             | 306               | 1       | 44          | 0.0           | 3.8                |
| 30             | 17.3        | 7.6         | 11.7         | 0.02          | 1015.0        | 1003.5       | 1009.5         | 23              | 5.5              | 133               | 0       | 188         | 5.5           | 16.0               |
| Monthly Values | Max<br>17.3 | Min<br>-2.7 | Mean<br>6.5  | Total<br>6.77 | Max<br>1026.8 | Min<br>976.3 | Mean<br>1003.1 | Max<br>40       | Mean<br>3.6      | Total<br>2609     | ---     | Mean<br>119 | Total<br>85.5 | Total<br>308.4     |

Days with Air Frost (T&lt;=-0.1°C) = 8

Rain Days (&gt;0.01In) = 22;

Wet Days (&gt;0.05In) = 19

## Summary WL Data for May 2012 for AWS station: FoelFrio

## Monthly WLReport Summary for Foel Friog Weather Station

Station Day 00-00 hrs:

Solar intensity values &lt; 100W/sqm excluded from BS Hours evaluation.

| Day            | T max<br>°C | T min<br>°C | T mean<br>°C | Rain<br>In    | P Max<br>mB   | P Min<br>mB  | P Mean<br>mB   | Gust Max<br>MPH | Mean Wind<br>MPH | Wind Run<br>Miles | Dom Dir | Sun Mean    | BS Hours       | T_Energy<br>MJ/sqm |
|----------------|-------------|-------------|--------------|---------------|---------------|--------------|----------------|-----------------|------------------|-------------------|---------|-------------|----------------|--------------------|
| 1              | 12.1        | 8.3         | 10.3         | 0.26          | 1021.8        | 1013.5       | 1016.8         | 24              | 4.8              | 116               | 0       | 41          | 0.0            | 3.6                |
| 2              | 16.2        | 7.9         | 11.4         | 0.00          | 1022.5        | 1017.3       | 1020.4         | 11              | 1.3              | 32                | 1       | 115         | 1.0            | 10.0               |
| 3              | 11.4        | 6.2         | 9.3          | 0.01          | 1016.8        | 1008.4       | 1012.2         | 15              | 1.6              | 40                | 1       | 76          | 0.0            | 6.6                |
| 4              | 12.9        | 5.9         | 8.7          | 0.00          | 1009.4        | 1005.9       | 1006.9         | 17              | 2.6              | 64                | 0       | 110         | 1.0            | 9.6                |
| 5              | 10.3        | 0.6         | 5.7          | 0.00          | 1012.5        | 1009.6       | 1011.2         | 17              | 3.2              | 77                | 0       | 125         | 2.0            | 10.8               |
| 6              | 12.8        | 3.3         | 7.3          | 0.00          | 1013.9        | 1012.4       | 1013.0         | 12              | 0.8              | 20                | 2       | 166         | 5.0            | 14.4               |
| 7              | 12.2        | 2.7         | 6.8          | 0.59          | 1013.7        | 1005.0       | 1009.1         | 19              | 0.9              | 22                | 2       | 36          | 0.0            | 3.1                |
| 8              | 13.1        | 6.1         | 8.9          | 0.15          | 1005.8        | 1003.4       | 1004.4         | 23              | 2.2              | 55                | 8       | 162         | 5.5            | 13.4               |
| 9              | 12.0        | 2.3         | 8.6          | 1.22          | 1006.3        | 1000.7       | 1004.9         | 11              | 0.5              | 13                | 3       | 81          | 0.5            | 7.1                |
| 10             | 13.7        | 9.4         | 12.3         | 0.84          | 1009.3        | 999.1        | 1002.8         | 28              | 5.3              | 130               | 10      | 33          | 0.0            | 2.9                |
| 11             | 12.0        | 4.9         | 8.6          | 0.16          | 1034.7        | 1009.3       | 1022.3         | 23              | 3.4              | 84                | 10      | 144         | 2.5            | 12.5               |
| 12             | 14.6        | 1.6         | 8.1          | 0.00          | 1039.1        | 1034.9       | 1037.7         | 21              | 1.6              | 40                | 15      | 251         | 9.5            | 21.8               |
| 13             | 13.4        | 2.7         | 8.8          | 0.18          | 1037.0        | 1018.4       | 1027.7         | 40              | 5.6              | 136               | 10      | 280         | 10.5           | 24.3               |
| 14             | 11.8        | 5.9         | 9.0          | 0.53          | 1017.6        | 1011.7       | 1013.4         | 26              | 5.1              | 124               | 9       | 169         | 2.5            | 14.6               |
| 15             | 12.3        | 2.7         | 7.4          | 0.35          | 1024.5        | 1011.6       | 1017.6         | 21              | 3.4              | 82                | 15      | 257         | 9.5            | 22.2               |
| 16             | 13.6        | 2.7         | 7.5          | 0.00          | 1025.5        | 1022.7       | 1024.4         | 24              | 1.8              | 44                | 0       | 278         | 9.5            | 24.0               |
| 17             | 14.0        | 3.1         | 9.0          | 0.00          | 1022.1        | 1008.6       | 1014.5         | 15              | 1.2              | 30                | 2       | 106         | 0.5            | 9.2                |
| 18             | 15.1        | 7.7         | 10.6         | 0.10          | 1008.1        | 1003.7       | 1005.2         | 23              | 4.5              | 109               | 0       | 129         | 3.5            | 11.0               |
| 19             | 11.2        | 7.3         | 8.8          | 0.04          | 1012.7        | 1006.8       | 1009.9         | 13              | 0.8              | 21                | 0       | 46          | 0.0            | 4.0                |
| 20             | 15.8        | 7.8         | 10.6         | 0.00          | 1012.3        | 1010.1       | 1011.3         | 12              | 1.2              | 30                | 0       | 131         | 2.5            | 11.4               |
| 21             | 19.1        | 3.9         | 11.2         | 0.00          | 1014.1        | 1009.7       | 1010.9         | 13              | 0.5              | 13                | 1       | 201         | 7.5            | 17.4               |
| 22             | 22.4        | 4.0         | 13.0         | 0.00          | 1021.9        | 1014.2       | 1017.2         | 15              | 0.6              | 17                | 10      | 311         | 11.0           | 26.9               |
| 23             | 24.3        | 6.3         | 13.7         | 0.00          | 1027.3        | 1021.9       | 1024.1         | 15              | 1.0              | 25                | 15      | 306         | 11.0           | 26.4               |
| 24             | 27.3        | 10.3        | 17.9         | 0.00          | 1027.6        | 1024.8       | 1026.2         | 13              | 0.4              | 12                | 9       | 263         | 8.5            | 22.7               |
| 25             | 26.8        | 14.8        | 20.7         | 0.00          | 1025.3        | 1020.0       | 1022.6         | 24              | 4.2              | 102               | 15      | 303         | 11.0           | 26.2               |
| 26             | 26.8        | 12.7        | 19.7         | 0.00          | 1021.8        | 1016.8       | 1019.1         | 29              | 5.2              | 126               | 15      | 326         | 11.5           | 27.6               |
| 27             | 27.3        | 8.7         | 17.0         | 0.00          | 1019.2        | 1016.5       | 1017.9         | 28              | 1.7              | 43                | 1       | 303         | 11.0           | 26.2               |
| 28             | 26.2        | 9.4         | 16.5         | 0.00          | 1018.4        | 1016.6       | 1017.3         | 17              | 1.0              | 25                | 5       | 304         | 10.0           | 26.3               |
| 29             | 22.9        | 10.3        | 15.4         | 0.00          | 1018.2        | 1015.9       | 1017.2         | 11              | 0.7              | 18                | 15      | 299         | 9.5            | 25.9               |
| 30             | 22.7        | 7.3         | 13.8         | 0.00          | 1018.8        | 1016.1       | 1016.9         | 18              | 0.6              | 16                | 0       | 124         | 2.0            | 10.7               |
| 31             | 14.2        | 11.9        | 12.8         | 0.53          | 1018.9        | 1017.3       | 1018.1         | 19              | 1.0              | 25                | 10      | 70          | 0.0            | 6.1                |
| Monthly Values | Max<br>27.3 | Min<br>0.6  | Mean<br>11.3 | Total<br>4.96 | Max<br>1039.1 | Min<br>999.1 | Mean<br>1015.9 | Max<br>40       | Mean<br>2.2      | Total<br>1686     | ---     | Mean<br>179 | Total<br>158.5 | Total<br>478.9     |

Days with Air Frost (T&lt;=-0.1°C) = 0

Rain Days (&gt;0.01In) = 12;

Wet Days (&gt;0.05In) = 11

## Summary WL Data for June 2012 for AWS station: FoelFrio

## Monthly WLReport Summary for Foel Friog Weather Station

Station Day 00-00 hrs:

Solar intensity values &lt; 100W/sqm excluded from BS Hours evaluation.

| Day            | T max<br>°C | T min<br>°C | T mean<br>°C | Rain<br>In     | P Max<br>mB   | P Min<br>mB  | P Mean<br>mB   | Gust Max<br>MPH | Mean Wind<br>MPH | Wind Run<br>Miles | Dom Dir | Sun Mean    | BS Hours      | T_Energy<br>MJ/sqm |
|----------------|-------------|-------------|--------------|----------------|---------------|--------------|----------------|-----------------|------------------|-------------------|---------|-------------|---------------|--------------------|
| 1              | 19.9        | 12.4        | 15.2         | 0.01           | 1019.3        | 1016.4       | 1018.0         | 6               | 0.1              | 3                 | 10      | 115         | 1.5           | 9.7                |
| 2              | 18.5        | 11.8        | 14.4         | 0.14           | 1016.3        | 1006.3       | 1011.7         | 13              | 2.2              | 54                | 0       | 75          | 0.0           | 6.5                |
| 3              | 11.8        | 7.3         | 9.2          | 0.46           | 1011.3        | 1004.3       | 1006.0         | 21              | 3.8              | 92                | 15      | 44          | 0.0           | 3.8                |
| 4              | 17.0        | 5.7         | 9.9          | 0.00           | 1017.3        | 1011.7       | 1015.4         | 15              | 0.8              | 22                | 3       | 191         | 4.5           | 16.6               |
| 5              | 13.3        | 6.6         | 10.3         | 0.46           | 1016.0        | 1000.1       | 1008.8         | 12              | 0.1              | 5                 | 0       | 48          | 0.0           | 4.2                |
| 6              | 15.8        | 11.4        | 12.7         | 0.56           | 999.7         | 997.8        | 998.5          | 16              | 2.0              | 48                | 10      | 117         | 2.0           | 10.2               |
| 7              | 15.0        | 10.6        | 12.4         | 0.54           | 998.7         | 981.4        | 990.1          | 13              | 0.8              | 20                | 0       | 40          | 0.0           | 3.5                |
| 8              | 12.2        | 8.7         | 10.6         | 4.33           | 1003.0        | 980.4        | 990.8          | 33              | 5.5              | 133               | 10      | 39          | 0.0           | 3.4                |
| 9              | 14.9        | 7.3         | 9.7          | 0.73           | 1010.8        | 1003.7       | 1008.1         | 19              | 2.5              | 62                | 10      | 133         | 3.0           | 11.6               |
| 10             | 18.2        | 4.1         | 11.5         | 0.02           | 1010.6        | 1005.3       | 1007.4         | 9               | 0.4              | 11                | 2       | 162         | 2.5           | 14.1               |
| 11             | 18.5        | 8.7         | 12.1         | 0.17           | 1007.3        | 1003.5       | 1004.6         | 14              | 0.5              | 14                | 3       | 128         | 2.5           | 11.1               |
| 12             | 18.3        | 8.5         | 12.2         | 0.00           | 1013.1        | 1007.3       | 1009.9         | 11              | 0.6              | 16                | 1       | 160         | 4.0           | 13.9               |
| 13             | 19.3        | 6.6         | 11.7         | 0.16           | 1015.6        | 1013.2       | 1014.3         | 14              | 0.2              | 7                 | 1       | 155         | 3.0           | 13.4               |
| 14             | 17.8        | 7.6         | 11.7         | 0.31           | 1015.6        | 1004.7       | 1011.4         | 16              | 1.2              | 30                | 1       | 126         | 1.5           | 10.9               |
| 15             | 12.8        | 10.1        | 11.4         | 0.78           | 1004.2        | 1000.1       | 1001.0         | 19              | 1.8              | 44                | 8       | 47          | 0.0           | 4.1                |
| 16             | 12.8        | 10.9        | 11.9         | 1.17           | 1008.0        | 998.0        | 1000.6         | 25              | 5.0              | 121               | 9       | 35          | 0.0           | 3.0                |
| 17             | 16.9        | 8.9         | 12.2         | 0.12           | 1016.0        | 1008.2       | 1013.9         | 18              | 1.6              | 40                | 10      | 240         | 7.0           | 20.8               |
| 18             | 20.2        | 6.0         | 12.3         | 0.01           | 1016.1        | 1014.5       | 1015.3         | 11              | 0.6              | 15                | 4       | 263         | 9.5           | 22.3               |
| 19             | 19.7        | 7.8         | 12.4         | 0.05           | 1018.4        | 1015.2       | 1017.0         | 16              | 1.2              | 30                | 8       | 180         | 4.0           | 15.6               |
| 20             | 22.9        | 5.9         | 14.7         | 0.08           | 1017.9        | 1010.1       | 1014.9         | 18              | 1.0              | 25                | 0       | 221         | 8.0           | 19.1               |
| 21             | 16.8        | 10.1        | 11.8         | 0.99           | 1009.6        | 999.7        | 1003.0         | 23              | 1.4              | 35                | 0       | 59          | 0.0           | 5.1                |
| 22             | 13.1        | 11.1        | 11.9         | 1.80           | 1013.2        | 999.1        | 1005.3         | 30              | 6.8              | 164               | 8       | 33          | 0.0           | 2.9                |
| 23             | 14.8        | 9.8         | 12.3         | 0.23           | 1016.9        | 1010.0       | 1014.9         | 30              | 5.4              | 132               | 8       | 83          | 0.0           | 7.2                |
| 24             | 16.7        | 9.8         | 12.4         | 0.70           | 1015.0        | 1005.0       | 1010.6         | 16              | 1.2              | 29                | 8       | 90          | 0.0           | 7.9                |
| 25             | 22.0        | 8.4         | 14.3         | 0.00           | 1017.8        | 1014.8       | 1016.6         | 14              | 1.0              | 25                | 11      | 271         | 9.5           | 23.5               |
| 26             | 16.9        | 11.3        | 14.6         | 0.40           | 1017.9        | 1016.6       | 1017.2         | 14              | 1.1              | 27                | 10      | 72          | 0.0           | 6.2                |
| 27             | 24.6        | 14.3        | 16.4         | 0.11           | 1017.6        | 1010.8       | 1015.1         | 13              | 0.7              | 18                | 15      | 145         | 4.5           | 12.6               |
| 28             | 19.7        | 13.3        | 15.8         | 0.28           | 1010.4        | 998.4        | 1001.7         | 18              | 1.4              | 35                | 0       | 87          | 0.0           | 7.6                |
| 29             | 15.4        | 12.6        | 13.8         | 0.39           | 1001.3        | 995.3        | 997.9          | 22              | 3.7              | 91                | 8       | 54          | 0.0           | 4.7                |
| 30             | 15.5        | 10.6        | 12.7         | 0.26           | 1007.0        | 1001.3       | 1003.6         | 24              | 3.5              | 86                | 8       | 123         | 1.0           | 10.4               |
| Monthly Values | Max<br>24.6 | Min<br>4.1  | Mean<br>12.5 | Total<br>15.26 | Max<br>1019.3 | Min<br>980.4 | Mean<br>1008.1 | Max<br>33       | Mean<br>1.9      | Total<br>1428     | ---     | Mean<br>118 | Total<br>68.0 | Total<br>305.9     |

Days with Air Frost (T&lt;=-0.1°C) = 0

Rain Days (&gt;0.01In) = 25;

Wet Days (&gt;0.05In) = 23

## Summary WL Data for July 2012 for AWS station: FoelFrio

## Monthly WLReport Summary for Foel Friog Weather Station

Station Day 00-00 hrs:

Solar intensity values &lt; 100W/sqm excluded from BS Hours evaluation.

| Day            | T max<br>°C | T min<br>°C | T mean<br>°C | Rain<br>In    | P Max<br>mB   | P Min<br>mB  | P Mean<br>mB   | Gust Max<br>MPH | Mean Wind<br>MPH | Wind Run<br>Miles | Dom Dir | Sun Mean    | BS Hours      | T_Energy<br>MJ/sqm |
|----------------|-------------|-------------|--------------|---------------|---------------|--------------|----------------|-----------------|------------------|-------------------|---------|-------------|---------------|--------------------|
| 1              | 15.3        | 10.2        | 11.9         | 0.31          | 1012.6        | 1007.1       | 1010.3         | 21              | 3.5              | 85                | 9       | 131         | 1.5           | 11.4               |
| 2              | 16.2        | 12.3        | 14.1         | 0.64          | 1010.5        | 1008.5       | 1009.3         | 14              | 0.7              | 19                | 10      | 62          | 0.0           | 5.4                |
| 3              | 16.2        | 13.2        | 14.6         | 0.33          | 1010.3        | 1006.3       | 1008.7         | 9               | 0.2              | 6                 | 10      | 43          | 0.0           | 3.8                |
| 4              | 16.9        | 13.3        | 14.7         | 0.31          | 1007.5        | 1005.0       | 1005.8         | 7               | 0.1              | 4                 | 6       | 76          | 0.0           | 6.6                |
| 5              | 21.7        | 12.2        | 15.9         | 0.00          | 1009.5        | 1006.9       | 1008.3         | 10              | 0.5              | 13                | 15      | 177         | 4.0           | 15.3               |
| 6              | 15.3        | 11.9        | 13.6         | 1.57          | 1009.4        | 1001.0       | 1005.1         | 6               | 0.2              | 6                 | 9       | 41          | 0.0           | 3.6                |
| 7              | 21.6        | 10.3        | 15.2         | 0.01          | 1005.5        | 1004.7       | 1005.0         | 20              | 2.1              | 52                | 15      | 197         | 5.0           | 17.1               |
| 8              | 22.4        | 9.2         | 14.0         | 0.01          | 1008.8        | 1005.3       | 1006.7         | 13              | 0.6              | 17                | 4       | 165         | 4.0           | 14.3               |
| 9              | 17.8        | 10.6        | 13.4         | 0.01          | 1011.0        | 1008.6       | 1009.8         | 15              | 0.8              | 20                | 8       | 146         | 2.5           | 12.7               |
| 10             | 14.2        | 9.8         | 11.8         | 0.06          | 1011.0        | 1009.1       | 1009.8         | 15              | 0.4              | 12                | 10      | 71          | 0.0           | 6.2                |
| 11             | 17.0        | 8.6         | 12.2         | 0.34          | 1011.6        | 1008.8       | 1010.1         | 17              | 1.4              | 36                | 8       | 185         | 5.0           | 16.0               |
| 12             | 19.2        | 6.8         | 11.9         | 0.04          | 1012.2        | 1002.6       | 1008.9         | 11              | 0.3              | 9                 | 10      | 179         | 5.0           | 15.5               |
| 13             | 17.9        | 11.8        | 13.6         | 0.18          | 1002.5        | 998.1        | 999.6          | 9               | 0.5              | 12                | 10      | 104         | 1.0           | 9.0                |
| 14             | 21.1        | 10.2        | 13.7         | 0.07          | 1010.9        | 1000.1       | 1005.7         | 18              | 1.0              | 25                | 15      | 206         | 6.0           | 17.8               |
| 15             | 18.2        | 8.4         | 12.4         | 0.08          | 1017.3        | 1010.9       | 1014.6         | 21              | 2.4              | 59                | 8       | 164         | 3.5           | 14.2               |
| 16             | 15.4        | 11.9        | 14.2         | 1.00          | 1019.3        | 1013.4       | 1015.8         | 24              | 2.9              | 72                | 8       | 36          | 0.0           | 3.1                |
| 17             | 16.1        | 13.5        | 14.7         | 0.27          | 1022.2        | 1016.6       | 1020.4         | 19              | 2.2              | 53                | 10      | 43          | 0.0           | 3.8                |
| 18             | 16.9        | 11.1        | 14.6         | 0.63          | 1016.2        | 1006.8       | 1009.8         | 24              | 3.7              | 89                | 8       | 78          | 0.5           | 6.8                |
| 19             | 13.8        | 11.3        | 12.5         | 0.02          | 1013.7        | 1007.0       | 1010.6         | 14              | 0.6              | 16                | 9       | 67          | 0.0           | 5.8                |
| 20             | 19.1        | 7.8         | 12.8         | 0.01          | 1021.0        | 1013.6       | 1016.7         | 22              | 0.6              | 16                | 15      | 249         | 7.0           | 21.6               |
| 21             | 21.2        | 5.2         | 12.9         | 0.00          | 1025.5        | 1021.2       | 1023.5         | 11              | 0.1              | 4                 | 15      | 233         | 9.5           | 20.2               |
| 22             | 21.0        | 10.9        | 15.9         | 0.00          | 1025.5        | 1021.9       | 1023.5         | 20              | 2.1              | 52                | 8       | 269         | 8.5           | 23.3               |
| 23             | 21.6        | 13.9        | 17.4         | 0.00          | 1022.4        | 1018.1       | 1019.6         | 21              | 2.0              | 49                | 10      | 125         | 1.0           | 10.8               |
| 24             | 29.2        | 14.2        | 19.7         | 0.00          | 1018.5        | 1015.4       | 1016.9         | 16              | 0.6              | 15                | 15      | 259         | 10.5          | 22.0               |
| 25             | 25.2        | 10.6        | 18.0         | 0.00          | 1018.7        | 1016.7       | 1017.4         | 10              | 0.5              | 14                | 15      | 151         | 5.0           | 13.1               |
| 26             | 23.3        | 12.4        | 18.6         | 0.00          | 1018.8        | 1015.9       | 1017.2         | 11              | 0.5              | 14                | 3       | 130         | 1.5           | 11.2               |
| 27             | 21.3        | 9.4         | 14.1         | 0.02          | 1016.2        | 1012.5       | 1014.4         | 18              | 0.8              | 22                | 15      | 196         | 5.0           | 17.0               |
| 28             | 15.0        | 9.7         | 12.3         | 0.07          | 1012.4        | 1008.4       | 1010.1         | 21              | 2.2              | 54                | 8       | 138         | 3.0           | 12.0               |
| 29             | 16.1        | 9.9         | 12.3         | 0.12          | 1011.7        | 1008.4       | 1009.9         | 19              | 1.8              | 45                | 8       | 165         | 3.5           | 14.3               |
| 30             | 16.3        | 9.9         | 12.1         | 0.30          | 1014.5        | 1011.6       | 1013.3         | 19              | 1.8              | 45                | 8       | 190         | 6.0           | 16.5               |
| 31             | 16.9        | 10.2        | 13.6         | 0.47          | 1013.0        | 1008.1       | 1010.1         | 11              | 0.8              | 20                | 10      | 85          | 0.0           | 7.3                |
| Monthly Values | Max<br>29.2 | Min<br>5.2  | Mean<br>14.1 | Total<br>6.87 | Max<br>1025.5 | Min<br>998.1 | Mean<br>1011.8 | Max<br>24       | Mean<br>1.2      | Total<br>947      | ---     | Mean<br>141 | Total<br>98.5 | Total<br>377.7     |

Days with Air Frost (T&lt;=-0.1°C) = 0

Rain Days (&gt;0.01In) = 20;

Wet Days (&gt;0.05In) = 17

## Summary WL Data for August 2012 for AWS station: FoelFrio

## Monthly WLReport Summary for Foel Friog Weather Station

Station Day 00-00 hrs:

Solar intensity values &lt; 100W/sqm excluded from BS Hours evaluation.

| Day            | T max<br>°C | T min<br>°C | T mean<br>°C | Rain<br>In    | P Max<br>mB   | P Min<br>mB  | P Mean<br>mB   | Gust Max<br>MPH | Mean Wind<br>MPH | Wind Run<br>Miles | Dom Dir | Sun Mean    | BS Hours      | T_Energy<br>MJ/sqm |
|----------------|-------------|-------------|--------------|---------------|---------------|--------------|----------------|-----------------|------------------|-------------------|---------|-------------|---------------|--------------------|
| 1              | 19.7        | 13.6        | 15.8         | 0.12          | 1007.9        | 1001.0       | 1003.7         | 20              | 2.1              | 53                | 10      | 70          | 0.5           | 6.1                |
| 2              | 19.1        | 11.6        | 14.1         | 0.26          | 1008.9        | 1005.2       | 1006.9         | 13              | 0.5              | 13                | 10      | 132         | 2.0           | 11.4               |
| 3              | 20.2        | 10.2        | 14.2         | 0.73          | 1008.9        | 1007.3       | 1008.0         | 15              | 0.5              | 13                | 8       | 110         | 1.0           | 9.6                |
| 4              | 21.3        | 10.8        | 14.1         | 0.36          | 1007.2        | 1005.2       | 1005.8         | 15              | 0.3              | 9                 | 1       | 128         | 2.5           | 11.1               |
| 5              | 19.4        | 9.3         | 13.0         | 0.96          | 1006.2        | 1003.8       | 1005.0         | 9               | 0.1              | 4                 | 1       | 150         | 4.5           | 13.0               |
| 6              | 17.5        | 10.9        | 13.1         | 0.12          | 1013.6        | 1005.3       | 1008.7         | 15              | 0.8              | 21                | 10      | 135         | 3.0           | 11.7               |
| 7              | 19.2        | 12.6        | 14.7         | 0.27          | 1019.8        | 1013.7       | 1017.1         | 17              | 1.3              | 34                | 10      | 113         | 1.5           | 9.8                |
| 8              | 25.8        | 12.4        | 16.7         | 0.02          | 1024.6        | 1019.8       | 1022.1         | 6               | 0.1              | 4                 | 2       | 172         | 6.0           | 14.9               |
| 9              | 28.8        | 9.4         | 16.7         | 0.00          | 1027.3        | 1024.6       | 1025.8         | 6               | 0.2              | 5                 | 3       | 200         | 8.0           | 17.3               |
| 10             | 27.9        | 9.6         | 17.1         | 0.00          | 1027.3        | 1023.2       | 1025.4         | 11              | 0.4              | 12                | 0       | 207         | 7.0           | 17.6               |
| 11             | 24.8        | 11.9        | 17.2         | 0.00          | 1022.9        | 1013.9       | 1018.4         | 21              | 1.7              | 42                | 0       | 175         | 7.0           | 15.2               |
| 12             | 19.8        | 12.9        | 15.5         | 0.20          | 1013.5        | 1008.4       | 1010.2         | 12              | 0.3              | 8                 | 0       | 65          | 0.0           | 5.6                |
| 13             | 22.0        | 13.8        | 16.2         | 0.19          | 1008.3        | 1005.1       | 1006.1         | 14              | 0.5              | 13                | 1       | 74          | 2.0           | 6.4                |
| 14             | 23.8        | 13.3        | 16.9         | 0.19          | 1008.9        | 1006.6       | 1007.9         | 10              | 0.0              | 2                 | 9       | 141         | 3.5           | 12.3               |
| 15             | 19.4        | 13.7        | 16.1         | 0.47          | 1007.6        | 998.5        | 1001.2         | 23              | 1.7              | 42                | 15      | 49          | 0.0           | 4.2                |
| 16             | 20.7        | 12.9        | 15.9         | 0.07          | 1011.1        | 1002.1       | 1008.1         | 23              | 1.7              | 42                | 10      | 117         | 3.0           | 10.1               |
| 17             | 19.1        | 15.1        | 17.6         | 0.70          | 1009.7        | 1004.8       | 1007.3         | 15              | 1.5              | 36                | 10      | 19          | 0.0           | 1.7                |
| 18             | 23.3        | 14.2        | 17.8         | 0.23          | 1016.2        | 1007.8       | 1011.8         | 16              | 1.0              | 24                | 15      | 122         | 4.0           | 10.6               |
| 19             | 21.6        | 13.7        | 15.5         | 0.23          | 1016.7        | 1014.9       | 1015.7         | 10              | 0.1              | 5                 | 15      | 93          | 3.5           | 8.1                |
| 20             | 19.4        | 14.2        | 16.0         | 0.05          | 1019.2        | 1016.1       | 1017.9         | 17              | 1.1              | 27                | 8       | 119         | 2.5           | 10.3               |
| 21             | 18.3        | 14.5        | 15.7         | 0.19          | 1018.7        | 1012.5       | 1015.0         | 20              | 2.1              | 51                | 8       | 109         | 2.5           | 9.5                |
| 22             | 17.3        | 13.3        | 14.9         | 0.10          | 1015.6        | 1013.5       | 1014.9         | 18              | 3.7              | 90                | 8       | 86          | 0.5           | 7.4                |
| 23             | 16.6        | 12.0        | 14.3         | 0.00          | 1014.8        | 1007.9       | 1012.1         | 11              | 0.3              | 9                 | 10      | 76          | 0.0           | 6.5                |
| 24             | 18.2        | 10.9        | 13.7         | 0.53          | 1007.6        | 996.8        | 1001.4         | 10              | 0.5              | 12                | 10      | 85          | 1.0           | 7.4                |
| 25             | 20.6        | 13.0        | 15.3         | 0.27          | 1008.9        | 996.3        | 1000.5         | 14              | 1.1              | 28                | 3       | 101         | 2.0           | 8.8                |
| 26             | 18.9        | 8.6         | 13.4         | 0.00          | 1015.9        | 1009.3       | 1014.0         | 15              | 0.7              | 19                | 15      | 177         | 6.0           | 15.3               |
| 27             | 16.2        | 10.1        | 14.1         | 0.87          | 1014.5        | 1002.6       | 1007.3         | 20              | 1.7              | 43                | 8       | 17          | 0.0           | 1.5                |
| 28             | 18.6        | 12.3        | 14.7         | 0.06          | 1011.5        | 1005.1       | 1009.3         | 19              | 2.6              | 64                | 8       | 132         | 4.0           | 11.2               |
| 29             | 17.9        | 11.8        | 14.1         | 1.14          | 1008.7        | 1004.7       | 1005.8         | 18              | 1.4              | 36                | 8       | 115         | 3.5           | 10.0               |
| 30             | 16.7        | 4.9         | 11.9         | 0.27          | 1028.4        | 1006.0       | 1018.1         | 19              | 1.9              | 47                | 3       | 88          | 0.5           | 7.6                |
| 31             | 18.4        | 3.8         | 10.2         | 0.06          | 1030.0        | 1026.6       | 1029.0         | 17              | 0.6              | 16                | 2       | 106         | 3.5           | 9.2                |
| Monthly Values | Max<br>28.8 | Min<br>3.8  | Mean<br>15.1 | Total<br>8.66 | Max<br>1030.0 | Min<br>996.3 | Mean<br>1011.6 | Max<br>23       | Mean<br>1.0      | Total<br>814      | ---     | Mean<br>112 | Total<br>85.0 | Total<br>301.6     |

Days with Air Frost (T&lt;=-0.1°C) = 0

Rain Days (&gt;0.01In) = 26;

Wet Days (&gt;0.05In) = 24



## Summary WL Data for September 2012 for AWS station: FoelFrio

## Monthly WLReport Summary for Foel Friog Weather Station

Station Day 00-00 hrs:

Solar intensity values &lt; 100W/sqm excluded from BS Hours evaluation.

| Day            | T max<br>°C | T min<br>°C | T mean<br>°C | Rain<br>In     | P Max<br>mB   | P Min<br>mB  | P Mean<br>mB   | Gust Max<br>MPH | Mean Wind<br>MPH | Wind Run<br>Miles | Dom Dir | Sun Mean   | BS Hours      | T_Energy<br>MJ/sqm |
|----------------|-------------|-------------|--------------|----------------|---------------|--------------|----------------|-----------------|------------------|-------------------|---------|------------|---------------|--------------------|
| 1              | 17.5        | 13.5        | 14.9         | 0.13           | 1026.6        | 1022.1       | 1024.1         | 23              | 2.7              | 65                | 8       | 116        | 2.5           | 10.1               |
| 2              | 22.9        | 9.6         | 15.4         | 0.50           | 1026.7        | 1020.8       | 1023.1         | 14              | 0.6              | 16                | 8       | 123        | 5.5           | 10.6               |
| 3              | 22.0        | 7.5         | 13.8         | 0.00           | 1026.8        | 1024.1       | 1025.6         | 15              | 0.5              | 14                | 0       | 163        | 6.5           | 13.8               |
| 4              | 23.4        | 7.3         | 15.1         | 0.04           | 1026.6        | 1022.4       | 1024.0         | 12              | 0.8              | 22                | 9       | 119        | 4.5           | 10.3               |
| 5              | 22.9        | 5.1         | 11.6         | 0.00           | 1030.3        | 1026.7       | 1028.4         | 12              | 1.0              | 25                | 3       | 195        | 7.0           | 16.9               |
| 6              | 19.9        | 4.2         | 11.8         | 0.00           | 1029.7        | 1024.5       | 1026.8         | 21              | 1.5              | 38                | 15      | 185        | 7.5           | 16.0               |
| 7              | 22.8        | 11.6        | 15.6         | 0.00           | 1024.9        | 1023.2       | 1023.9         | 19              | 1.3              | 33                | 15      | 203        | 7.5           | 17.6               |
| 8              | 23.6        | 8.3         | 14.7         | 0.00           | 1023.1        | 1014.0       | 1018.5         | 10              | 0.1              | 5                 | 10      | 196        | 8.0           | 17.0               |
| 9              | 18.8        | 6.8         | 13.1         | 0.50           | 1013.5        | 1004.4       | 1007.6         | 21              | 1.6              | 39                | 10      | 69         | 1.5           | 6.0                |
| 10             | 15.8        | 11.1        | 14.6         | 1.21           | 1006.2        | 1003.4       | 1004.6         | 20              | 3.4              | 82                | 8       | 38         | 0.0           | 3.3                |
| 11             | 15.2        | 6.8         | 10.5         | 0.46           | 1015.3        | 1006.4       | 1011.7         | 17              | 1.2              | 31                | 10      | 122        | 4.5           | 10.6               |
| 12             | 14.8        | 7.3         | 10.9         | 0.31           | 1018.5        | 1011.4       | 1013.6         | 20              | 2.2              | 53                | 8       | 53         | 0.5           | 4.6                |
| 13             | 14.8        | 5.1         | 10.9         | 0.00           | 1020.5        | 1012.4       | 1017.6         | 26              | 2.8              | 69                | 1       | 65         | 0.0           | 5.6                |
| 14             | 16.1        | 11.4        | 13.9         | 0.07           | 1016.7        | 1009.2       | 1012.6         | 29              | 4.1              | 100               | 8       | 64         | 0.0           | 5.6                |
| 15             | 14.4        | 7.5         | 12.3         | 0.01           | 1017.2        | 1012.6       | 1015.6         | 19              | 1.7              | 43                | 8       | 54         | 0.0           | 4.7                |
| 16             | 14.8        | 8.8         | 13.2         | 0.83           | 1012.6        | 1007.2       | 1009.7         | 21              | 2.7              | 65                | 9       | 27         | 0.0           | 2.4                |
| 17             | 15.6        | 7.3         | 11.7         | 0.11           | 1010.3        | 1007.5       | 1009.2         | 25              | 3.7              | 90                | 8       | 78         | 0.0           | 6.8                |
| 18             | 15.3        | 8.6         | 10.9         | 0.11           | 1019.3        | 1007.9       | 1013.4         | 18              | 2.3              | 57                | 8       | 103        | 3.5           | 8.7                |
| 19             | 15.1        | 9.2         | 11.2         | 0.03           | 1022.3        | 1019.4       | 1020.9         | 20              | 2.1              | 53                | 8       | 94         | 1.5           | 8.0                |
| 20             | 14.5        | 9.3         | 12.0         | 0.93           | 1020.1        | 1015.4       | 1017.2         | 20              | 2.3              | 57                | 8       | 52         | 0.0           | 4.5                |
| 21             | 17.8        | 4.8         | 11.3         | 0.20           | 1018.5        | 1013.1       | 1014.8         | 15              | 1.5              | 37                | 2       | 95         | 2.0           | 8.1                |
| 22             | 17.3        | 0.8         | 7.0          | 0.00           | 1021.2        | 1018.0       | 1019.4         | 13              | 0.4              | 12                | 15      | 132        | 6.5           | 11.4               |
| 23             | 11.3        | 3.4         | 7.4          | 0.24           | 1017.7        | 996.1        | 1007.9         | 22              | 2.9              | 72                | 15      | 55         | 0.0           | 4.8                |
| 24             | 11.3        | 8.1         | 9.4          | 1.90           | 995.6         | 984.0        | 987.4          | 27              | 3.7              | 89                | 8       | 28         | 0.0           | 2.5                |
| 25             | 10.6        | 8.6         | 9.3          | 1.36           | 983.5         | 980.4        | 981.6          | 23              | 3.6              | 87                | 9       | 24         | 0.0           | 2.1                |
| 26             | 14.8        | 8.2         | 10.3         | 0.13           | 1001.9        | 980.6        | 990.6          | 21              | 3.5              | 85                | 2       | 72         | 3.0           | 6.3                |
| 27             | 13.7        | 6.2         | 9.4          | 0.01           | 1010.4        | 1002.3       | 1007.4         | 16              | 0.6              | 15                | 10      | 71         | 0.0           | 6.2                |
| 28             | 13.4        | 8.4         | 11.7         | 0.53           | 1012.4        | 1006.4       | 1009.3         | 26              | 2.6              | 64                | 9       | 55         | 0.0           | 4.8                |
| 29             | 15.0        | 9.4         | 11.3         | 0.00           | 1019.3        | 1012.7       | 1017.0         | 17              | 2.0              | 49                | 9       | 90         | 4.0           | 7.8                |
| 30             | 14.1        | 11.3        | 12.5         | 1.78           | 1017.8        | 1009.4       | 1012.6         | 31              | 3.6              | 88                | 8       | 13         | 0.0           | 1.2                |
| Monthly Values | Max<br>23.6 | Min<br>0.8  | Mean<br>11.9 | Total<br>11.39 | Max<br>1030.3 | Min<br>980.4 | Mean<br>1013.2 | Max<br>31       | Mean<br>2.1      | Total<br>1547     | ---     | Mean<br>92 | Total<br>76.0 | Total<br>238.2     |

Days with Air Frost (T&lt;=-0.1°C) = 0

Rain Days (&gt;0.01In) = 20;

Wet Days (&gt;0.05In) = 18

## Summary WL Data for October 2012 for AWS station: FoelFrio

## Monthly WLReport Summary for Foel Friog Weather Station

Station Day 00-00 hrs:

Solar intensity values &lt; 100W/sqm excluded from BS Hours evaluation.

| Day            | T max<br>°C | T min<br>°C | T mean<br>°C | Rain<br>In    | P Max<br>mB   | P Min<br>mB  | P Mean<br>mB   | Gust Max<br>MPH | Mean Wind<br>MPH | Wind Run<br>Miles | Dom Dir | Sun Mean   | BS Hours      | T_Energy<br>MJ/sqm |
|----------------|-------------|-------------|--------------|---------------|---------------|--------------|----------------|-----------------|------------------|-------------------|---------|------------|---------------|--------------------|
| 1              | 14.2        | 10.4        | 12.3         | 0.17          | 1009.4        | 1006.0       | 1007.6         | 26              | 4.4              | 107               | 8       | 66         | 2.0           | 5.7                |
| 2              | 12.9        | 8.4         | 11.3         | 1.39          | 1007.3        | 999.2        | 1002.9         | 35              | 4.1              | 99                | 8       | 22         | 0.0           | 2.0                |
| 3              | 13.4        | 7.5         | 10.3         | 0.08          | 1002.2        | 999.9        | 1001.1         | 25              | 4.8              | 118               | 8       | 112        | 6.5           | 9.7                |
| 4              | 13.2        | 6.6         | 9.2          | 0.53          | 1007.5        | 1001.3       | 1004.5         | 16              | 0.9              | 22                | 8       | 72         | 3.0           | 6.3                |
| 5              | 11.7        | 7.0         | 9.6          | 0.44          | 1008.9        | 999.8        | 1005.0         | 20              | 1.7              | 43                | 8       | 63         | 0.0           | 5.5                |
| 6              | 15.3        | 3.6         | 7.6          | 0.02          | 1017.9        | 1008.6       | 1013.0         | 5               | 0.1              | 3                 | 5       | 81         | 3.0           | 7.0                |
| 7              | 15.5        | 3.3         | 7.7          | 0.00          | 1022.1        | 1018.2       | 1020.4         | 6               | 0.0              | 2                 | 11      | 88         | 4.0           | 7.7                |
| 8              | 12.2        | 6.3         | 9.7          | 0.23          | 1017.9        | 1011.9       | 1013.9         | 9               | 0.2              | 7                 | 0       | 31         | 0.0           | 2.7                |
| 9              | 10.6        | 6.1         | 8.2          | 0.00          | 1016.5        | 1014.3       | 1015.5         | 10              | 0.6              | 16                | 0       | 31         | 0.0           | 2.7                |
| 10             | 11.4        | 8.4         | 9.8          | 0.02          | 1015.3        | 1008.0       | 1012.2         | 9               | 0.5              | 13                | 1       | 20         | 0.0           | 1.7                |
| 11             | 12.1        | 9.7         | 10.7         | 1.02          | 1007.5        | 997.1        | 1000.7         | 21              | 0.4              | 11                | 0       | 12         | 0.0           | 1.1                |
| 12             | 12.1        | 5.7         | 8.8          | 0.31          | 1005.5        | 1000.0       | 1004.0         | 22              | 2.4              | 59                | 9       | 79         | 3.5           | 6.9                |
| 13             | 12.7        | 1.3         | 6.1          | 0.37          | 1004.5        | 1002.9       | 1003.7         | 10              | 0.1              | 3                 | 9       | 63         | 1.5           | 5.5                |
| 14             | 12.9        | -0.2        | 4.8          | 0.01          | 1003.5        | 1001.9       | 1002.6         | 9               | 0.2              | 7                 | 14      | 69         | 3.5           | 6.0                |
| 15             | 11.6        | 5.6         | 7.9          | 0.38          | 1002.4        | 990.7        | 998.2          | 17              | 0.5              | 13                | 9       | 68         | 3.0           | 5.9                |
| 16             | 11.8        | 4.8         | 8.4          | 0.13          | 1000.3        | 989.4        | 995.9          | 40              | 5.7              | 139               | 8       | 57         | 2.5           | 4.9                |
| 17             | 14.2        | 4.7         | 9.7          | 0.20          | 996.2         | 987.9        | 990.8          | 20              | 1.5              | 37                | 8       | 47         | 2.0           | 4.1                |
| 18             | 13.5        | 7.3         | 10.1         | 0.09          | 1002.8        | 991.3        | 996.0          | 15              | 0.7              | 19                | 10      | 34         | 0.0           | 3.0                |
| 19             | 14.8        | 6.2         | 9.9          | 0.05          | 1009.0        | 1003.0       | 1006.0         | 5               | 0.0              | 1                 | 11      | 58         | 2.0           | 5.1                |
| 20             | 16.9        | 4.6         | 9.6          | 0.00          | 1017.4        | 1008.7       | 1013.3         | 15              | 0.6              | 15                | 2       | 101        | 5.0           | 8.8                |
| 21             | 15.1        | 2.3         | 7.8          | 0.01          | 1019.6        | 1016.3       | 1018.5         | 16              | 1.1              | 27                | 2       | 85         | 4.5           | 7.4                |
| 22             | 12.8        | 9.7         | 11.2         | 0.05          | 1023.2        | 1018.7       | 1020.6         | 12              | 0.3              | 9                 | 2       | 20         | 0.0           | 1.8                |
| 23             | 14.8        | 11.6        | 12.9         | 0.00          | 1024.9        | 1023.0       | 1023.8         | 9               | 0.2              | 6                 | 1       | 21         | 0.0           | 1.9                |
| 24             | 13.6        | 12.0        | 12.8         | 0.00          | 1023.0        | 1017.3       | 1019.8         | 19              | 2.8              | 69                | 15      | 18         | 0.0           | 1.6                |
| 25             | 12.0        | 7.0         | 9.9          | 0.00          | 1017.8        | 1015.5       | 1016.8         | 17              | 3.5              | 86                | 15      | 19         | 0.0           | 1.7                |
| 26             | 8.8         | 2.2         | 5.6          | 0.00          | 1017.3        | 1014.4       | 1015.7         | 20              | 4.9              | 118               | 0       | 46         | 1.5           | 4.0                |
| 27             | 9.6         | 0.5         | 3.9          | 0.00          | 1023.4        | 1017.1       | 1021.1         | 22              | 3.9              | 95                | 1       | 82         | 5.5           | 7.1                |
| 28             | 8.8         | 3.5         | 7.6          | 1.85          | 1020.2        | 1005.2       | 1010.9         | 24              | 3.9              | 96                | 9       | 16         | 0.0           | 1.4                |
| 29             | 12.7        | 2.7         | 7.3          | 0.67          | 1008.1        | 1004.5       | 1006.4         | 11              | 0.1              | 5                 | 3       | 49         | 2.5           | 4.3                |
| 30             | 8.4         | 1.3         | 5.8          | 0.05          | 1007.5        | 992.0        | 1001.6         | 25              | 2.2              | 55                | 1       | 25         | 0.0           | 2.2                |
| 31             | 10.2        | 4.3         | 6.7          | 0.76          | 991.5         | 975.1        | 981.3          | 26              | 2.9              | 71                | 8       | 16         | 0.0           | 1.5                |
| Monthly Values | Max<br>16.9 | Min<br>-0.2 | Mean<br>8.8  | Total<br>8.83 | Max<br>1024.9 | Min<br>975.1 | Mean<br>1007.9 | Max<br>40       | Mean<br>1.8      | Total<br>1366     | ---     | Mean<br>51 | Total<br>55.5 | Total<br>137.2     |

Days with Air Frost (T&lt;=-0.1°C) = 1

Rain Days (&gt;0.01In) = 21;

Wet Days (&gt;0.05In) = 16

## Summary WL Data for November 2012 for AWS station: FoelFrio

## Monthly WLReport Summary for Foel Friog Weather Station

Station Day 00-00 hrs:

Solar intensity values &lt; 100W/sqm excluded from BS Hours evaluation.

| Day            | T max<br>°C | T min<br>°C | T mean<br>°C | Rain<br>In    | P Max<br>mB   | P Min<br>mB  | P Mean<br>mB   | Gust Max<br>MPH | Mean Wind<br>MPH | Wind Run<br>Miles | Dom Dir | Sun Mean   | BS Hours      | T_Energy<br>MJ/sqm |
|----------------|-------------|-------------|--------------|---------------|---------------|--------------|----------------|-----------------|------------------|-------------------|---------|------------|---------------|--------------------|
| 1              | 7.3         | 1.4         | 4.3          | 0.19          | 981.4         | 973.8        | 976.8          | 21              | 1.5              | 36                | 8       | 29         | 0.0           | 2.5                |
| 2              | 9.0         | 3.8         | 6.6          | 0.23          | 991.5         | 982.1        | 986.6          | 29              | 4.5              | 109               | 9       | 57         | 3.0           | 4.9                |
| 3              | 7.8         | 1.9         | 3.7          | 0.58          | 994.8         | 989.5        | 992.4          | 20              | 0.9              | 24                | 3       | 47         | 2.0           | 4.1                |
| 4              | 5.7         | -0.1        | 3.3          | 0.02          | 997.1         | 990.9        | 992.7          | 17              | 1.2              | 30                | 3       | 34         | 0.5           | 2.9                |
| 5              | 12.2        | -0.9        | 4.2          | 0.00          | 1017.3        | 997.5        | 1008.5         | 19              | 1.3              | 33                | 3       | 68         | 5.0           | 6.0                |
| 6              | 9.9         | -0.6        | 6.3          | 0.07          | 1023.3        | 1017.6       | 1020.3         | 17              | 1.6              | 39                | 10      | 10         | 0.0           | 0.9                |
| 7              | 11.1        | 5.5         | 8.9          | 0.04          | 1023.7        | 1018.1       | 1021.7         | 30              | 5.7              | 138               | 8       | 15         | 0.0           | 1.3                |
| 8              | 10.4        | 7.7         | 9.0          | 0.03          | 1018.0        | 1013.1       | 1016.4         | 17              | 1.6              | 41                | 8       | 28         | 0.0           | 2.4                |
| 9              | 9.3         | 6.4         | 8.0          | 1.10          | 1012.6        | 996.9        | 1003.5         | 21              | 3.0              | 73                | 8       | 10         | 0.0           | 0.9                |
| 10             | 8.1         | 2.5         | 5.3          | 0.51          | 1001.1        | 993.6        | 995.6          | 13              | 0.1              | 4                 | 9       | 21         | 0.5           | 1.8                |
| 11             | 9.9         | -0.4        | 3.8          | 0.07          | 1016.8        | 1001.6       | 1011.1         | 6               | 0.0              | 1                 | 8       | 38         | 2.0           | 3.3                |
| 12             | 12.3        | 5.4         | 9.6          | 1.00          | 1018.9        | 1013.8       | 1015.9         | 18              | 2.0              | 48                | 9       | 10         | 0.0           | 0.9                |
| 13             | 12.3        | 9.4         | 11.3         | 0.04          | 1023.1        | 1018.9       | 1020.9         | 20              | 2.7              | 66                | 9       | 12         | 0.0           | 1.1                |
| 14             | 10.9        | 5.5         | 9.1          | 0.01          | 1024.7        | 1022.9       | 1023.8         | 4               | 0.0              | 1                 | 9       | 12         | 0.0           | 1.1                |
| 15             | 11.6        | 3.2         | 6.3          | 0.01          | 1023.7        | 1017.0       | 1020.5         | 10              | 0.2              | 6                 | 1       | 44         | 3.0           | 3.8                |
| 16             | 6.8         | 0.9         | 4.5          | 0.19          | 1016.7        | 1005.3       | 1011.4         | 4               | 0.0              | 1                 | 0       | 17         | 0.0           | 1.5                |
| 17             | 9.9         | 2.6         | 5.6          | 0.19          | 1010.3        | 1004.4       | 1007.0         | 13              | 0.2              | 7                 | 0       | 36         | 3.5           | 3.1                |
| 18             | 8.2         | -0.8        | 3.8          | 0.01          | 1013.1        | 1007.0       | 1011.1         | 16              | 0.9              | 23                | 0       | 38         | 2.5           | 3.3                |
| 19             | 11.6        | 8.1         | 9.9          | 0.22          | 1006.5        | 999.7        | 1002.2         | 23              | 4.1              | 101               | 9       | 5          | 0.0           | 0.5                |
| 20             | 13.8        | 7.3         | 10.7         | 0.13          | 1004.9        | 997.1        | 1001.1         | 25              | 1.9              | 48                | 9       | 12         | 0.0           | 1.0                |
| 21             | 9.9         | 5.4         | 7.1          | 0.25          | 1009.1        | 1004.4       | 1006.5         | 16              | 0.7              | 18                | 9       | 21         | 0.5           | 1.8                |
| 22             | 12.5        | 4.2         | 9.3          | 1.03          | 1006.9        | 994.0        | 1000.1         | 33              | 6.5              | 158               | 9       | 3          | 0.0           | 0.3                |
| 23             | 8.1         | 2.9         | 5.9          | 0.10          | 1013.7        | 1001.1       | 1008.1         | 20              | 1.7              | 41                | 9       | 24         | 1.0           | 2.1                |
| 24             | 6.4         | 0.3         | 3.9          | 0.40          | 1014.0        | 994.5        | 1006.9         | 17              | 1.9              | 48                | 2       | 13         | 0.0           | 1.2                |
| 25             | 9.2         | 5.5         | 7.0          | 0.93          | 1002.5        | 994.3        | 998.3          | 23              | 1.5              | 37                | 0       | 22         | 0.5           | 2.0                |
| 26             | 7.3         | 2.7         | 5.5          | 0.12          | 1004.0        | 995.0        | 999.1          | 28              | 3.7              | 91                | 1       | 12         | 0.0           | 1.1                |
| 27             | 6.9         | 4.3         | 5.8          | 0.14          | 1015.4        | 1003.5       | 1009.5         | 28              | 9.0              | 217               | 2       | 10         | 0.0           | 0.9                |
| 28             | 7.3         | -2.2        | 3.3          | 0.00          | 1018.2        | 1015.0       | 1017.0         | 19              | 2.1              | 52                | 1       | 26         | 1.5           | 2.3                |
| 29             | 4.3         | -4.0        | -1.4         | 0.01          | 1017.3        | 1010.5       | 1013.8         | 4               | 0.0              | 0                 | 1       | 31         | 2.5           | 2.7                |
| 30             | 5.7         | -1.8        | 0.6          | 0.01          | 1014.7        | 1009.7       | 1011.5         | 3               | 0.0              | 0                 | 1       | 27         | 1.5           | 2.4                |
| Monthly Values | Max<br>13.8 | Min<br>-4.0 | Mean<br>6.0  | Total<br>7.63 | Max<br>1024.7 | Min<br>973.8 | Mean<br>1007.0 | Max<br>33       | Mean<br>2.0      | Total<br>1485     | ---     | Mean<br>24 | Total<br>29.5 | Total<br>64.4      |

Days with Air Frost (T&lt;=-0.1°C) = 8

Rain Days (&gt;0.01In) = 23;

Wet Days (&gt;0.05In) = 19

## Summary WL Data for December 2012 for AWS station: FoelFrio

## Monthly WLReport Summary for Foel Friog Weather Station

Station Day 00-00 hrs:

Solar intensity values &lt; 100W/sqm excluded from BS Hours evaluation.

| Day            | T max<br>°C | T min<br>°C | T mean<br>°C | Rain<br>In     | P Max<br>mB   | P Min<br>mB  | P Mean<br>mB   | Gust Max<br>MPH | Mean Wind<br>MPH | Wind Run<br>Miles | Dom Dir | Sun Mean   | BS Hours      | T_Energy<br>MJ/sqm |
|----------------|-------------|-------------|--------------|----------------|---------------|--------------|----------------|-----------------|------------------|-------------------|---------|------------|---------------|--------------------|
| 1              | 7.6         | -2.0        | 2.1          | 0.04           | 1016.6        | 1013.0       | 1014.9         | 18              | 0.8              | 21                | 2       | 23         | 1.5           | 2.0                |
| 2              | 3.7         | -0.9        | 1.6          | 0.65           | 1016.4        | 1007.2       | 1014.1         | 5               | 0.0              | 1                 | 2       | 14         | 0.0           | 1.3                |
| 3              | 10.1        | 3.1         | 6.7          | 0.33           | 1006.6        | 1002.2       | 1004.9         | 21              | 1.8              | 45                | 10      | 26         | 1.5           | 2.3                |
| 4              | 7.5         | 2.2         | 5.0          | 0.35           | 1004.1        | 1000.4       | 1002.2         | 33              | 2.5              | 62                | 15      | 25         | 2.5           | 2.2                |
| 5              | 6.2         | -3.0        | 1.4          | 0.01           | 1016.9        | 1002.1       | 1010.6         | 18              | 2.3              | 57                | 1       | 30         | 3.0           | 2.6                |
| 6              | 7.3         | -3.7        | 1.8          | 1.23           | 1016.9        | 996.1        | 1007.6         | 41              | 3.8              | 93                | 3       | 8          | 0.0           | 0.7                |
| 7              | 7.1         | 2.5         | 5.2          | 0.34           | 1018.7        | 997.1        | 1006.5         | 32              | 4.4              | 106               | 3       | 19         | 1.0           | 1.7                |
| 8              | 7.6         | -1.1        | 4.1          | 0.08           | 1025.5        | 1019.4       | 1023.8         | 21              | 1.1              | 27                | 2       | 19         | 1.5           | 1.7                |
| 9              | 7.8         | 1.3         | 6.4          | 0.14           | 1023.2        | 1017.2       | 1019.2         | 27              | 3.8              | 93                | 10      | 12         | 0.0           | 1.0                |
| 10             | 6.3         | -2.9        | 0.4          | 0.01           | 1029.8        | 1019.9       | 1025.2         | 16              | 1.3              | 33                | 1       | 26         | 2.5           | 2.3                |
| 11             | 4.5         | -4.4        | -2.4         | 0.02           | 1030.7        | 1025.1       | 1028.9         | 6               | 0.0              | 1                 | 3       | 32         | 2.5           | 2.8                |
| 12             | 3.1         | -5.1        | -2.4         | 0.00           | 1024.6        | 1009.0       | 1016.5         | 4               | 0.0              | 1                 | 3       | 26         | 2.0           | 2.3                |
| 13             | -0.3        | -5.9        | -2.6         | 0.00           | 1008.6        | 994.9        | 1002.4         | 14              | 1.1              | 27                | 3       | 15         | 0.0           | 1.4                |
| 14             | 8.3         | -0.8        | 3.6          | 0.57           | 993.9         | 970.7        | 979.0          | 36              | 3.8              | 92                | 0       | 3          | 0.0           | 0.3                |
| 15             | 9.0         | 5.8         | 7.3          | 0.78           | 992.8         | 979.0        | 985.9          | 33              | 4.6              | 111               | 9       | 11         | 0.0           | 1.0                |
| 16             | 8.7         | 5.6         | 6.8          | 0.44           | 996.2         | 992.6        | 994.1          | 20              | 1.9              | 46                | 9       | 13         | 0.0           | 1.1                |
| 17             | 8.2         | 5.7         | 7.3          | 0.25           | 1006.6        | 992.9        | 998.2          | 30              | 5.9              | 144               | 10      | 11         | 0.0           | 1.0                |
| 18             | 9.3         | 0.6         | 3.8          | 0.03           | 1017.6        | 1007.0       | 1014.5         | 10              | 0.4              | 11                | 3       | 23         | 2.5           | 2.0                |
| 19             | 6.2         | 2.7         | 5.2          | 0.43           | 1015.2        | 1004.9       | 1010.0         | 12              | 0.8              | 20                | 15      | 3          | 0.0           | 0.3                |
| 20             | 8.4         | 5.7         | 6.7          | 0.72           | 1004.4        | 993.6        | 997.7          | 16              | 1.1              | 28                | 15      | 4          | 0.0           | 0.4                |
| 21             | 8.3         | 5.9         | 7.1          | 0.07           | 1010.3        | 1001.1       | 1007.3         | 15              | 0.2              | 7                 | 9       | 13         | 0.0           | 1.2                |
| 22             | 12.8        | 6.4         | 9.8          | 2.63           | 1007.4        | 994.7        | 998.0          | 26              | 3.8              | 93                | 9       | 3          | 0.0           | 0.3                |
| 23             | 12.2        | 7.9         | 9.2          | 0.04           | 1003.2        | 994.4        | 999.8          | 37              | 7.2              | 175               | 9       | 13         | 0.0           | 1.2                |
| 24             | 8.0         | 5.7         | 6.9          | 0.32           | 1002.4        | 990.3        | 994.4          | 16              | 1.2              | 31                | 10      | 6          | 0.0           | 0.6                |
| 25             | 7.3         | 5.6         | 6.4          | 0.45           | 1001.5        | 986.3        | 992.2          | 19              | 1.2              | 30                | 10      | 6          | 0.0           | 0.5                |
| 26             | 9.9         | 5.7         | 7.8          | 0.48           | 1002.5        | 994.0        | 999.1          | 33              | 8.3              | 201               | 9       | 7          | 0.0           | 0.7                |
| 27             | 8.0         | 2.8         | 5.2          | 0.62           | 1016.1        | 993.6        | 1004.7         | 27              | 2.3              | 56                | 2       | 7          | 0.0           | 0.6                |
| 28             | 11.3        | 3.8         | 9.3          | 0.81           | 1015.4        | 999.8        | 1007.5         | 34              | 5.3              | 128               | 9       | 1          | 0.0           | 0.2                |
| 29             | 11.4        | 4.2         | 7.4          | 1.40           | 999.2         | 993.9        | 995.8          | 31              | 5.6              | 135               | 9       | 7          | 0.0           | 0.7                |
| 30             | 9.8         | 4.8         | 7.6          | 0.92           | 1006.5        | 999.2        | 1003.9         | 37              | 9.9              | 239               | 9       | 11         | 0.5           | 1.0                |
| 31             | 10.4        | 5.1         | 8.6          | 2.01           | 1002.3        | 992.9        | 996.1          | 30              | 5.6              | 136               | 9       | 5          | 0.0           | 0.4                |
| Monthly Values | Max<br>12.8 | Min<br>-5.9 | Mean<br>5.0  | Total<br>16.17 | Max<br>1030.7 | Min<br>970.7 | Mean<br>1005.0 | Max<br>41       | Mean<br>3.0      | Total<br>2243     | ---     | Mean<br>14 | Total<br>21.0 | Total<br>37.7      |

Days with Air Frost (T&lt;=-0.1°C) = 10

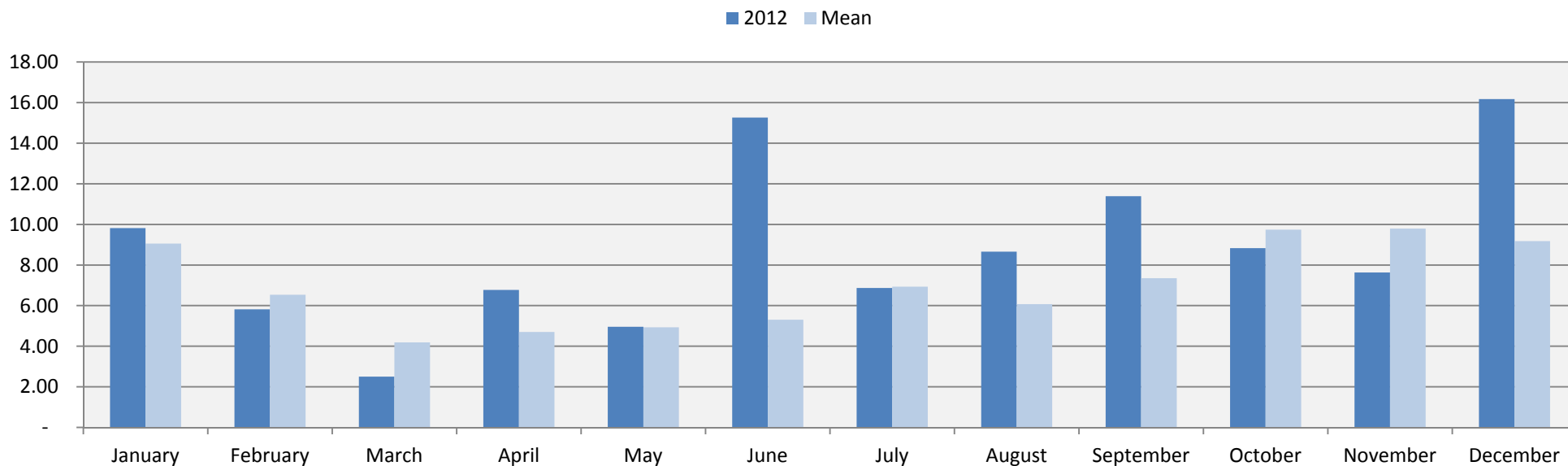
Rain Days (&gt;0.01In) = 27;

Wet Days (&gt;0.05In) = 23

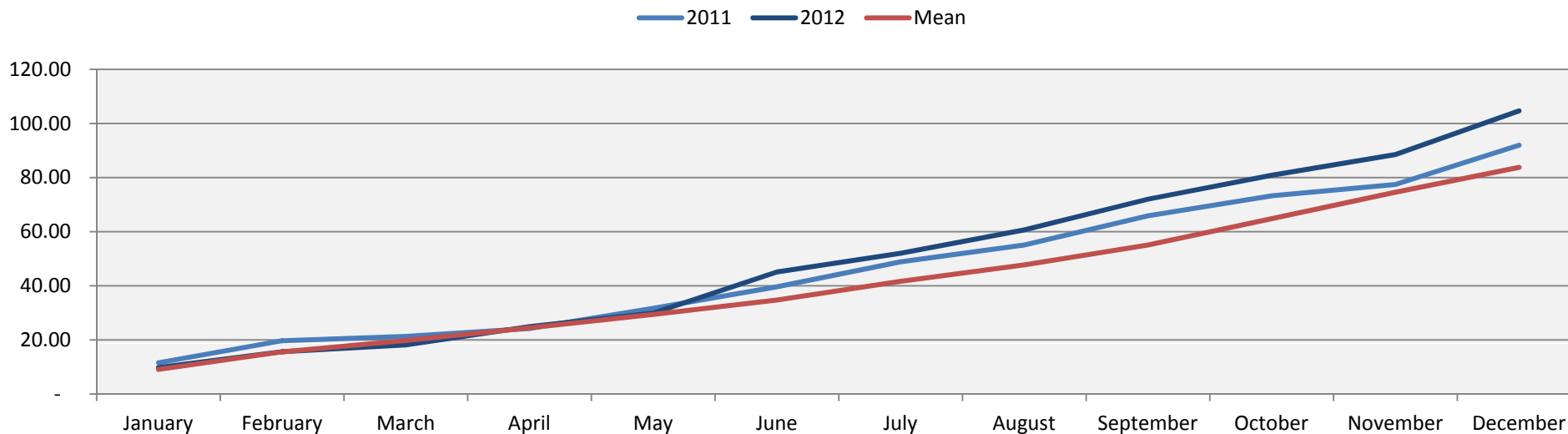
## Section: Graphical Analysis

- Precipitation – Monthly & Cumulative
- Wet Days – Monthly
- Wet Days – Cumulative
- Hours of Bright Sunshine – Monthly
- Mean Temperature – Monthly
- Days of Air Frost – Monthly
- Wind Run - Monthly

## Inches of Precipitation - Current Year vs. Mean

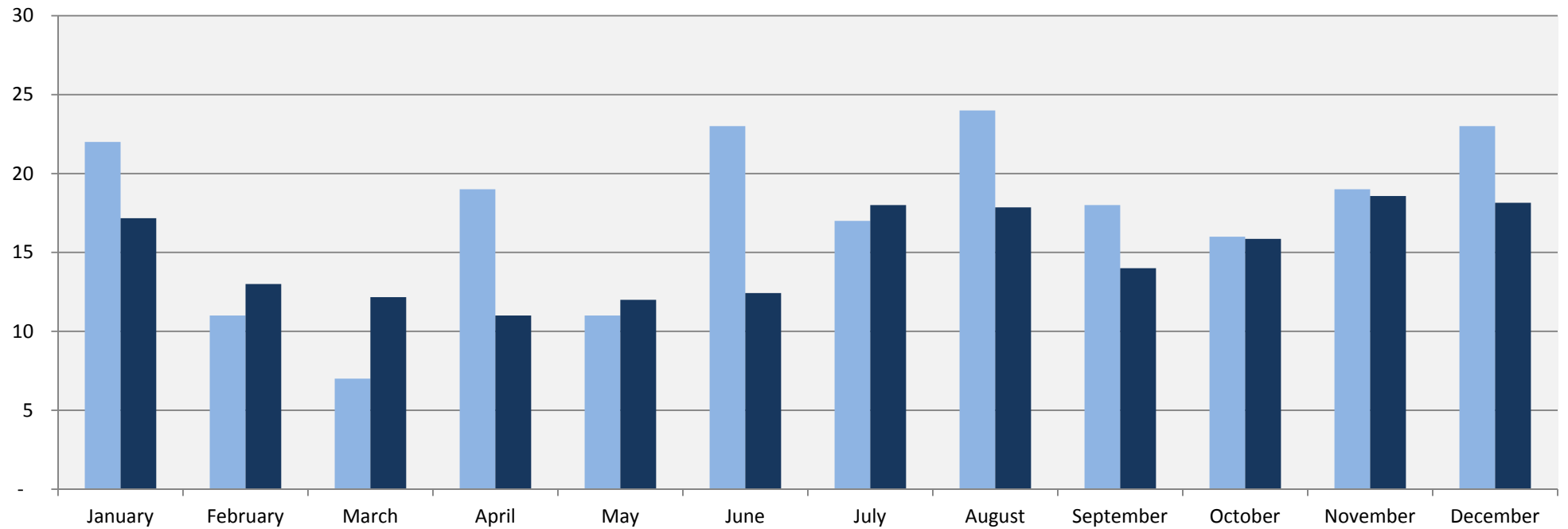


## Cumulative Precipitation - This Year, Last Year, Mean

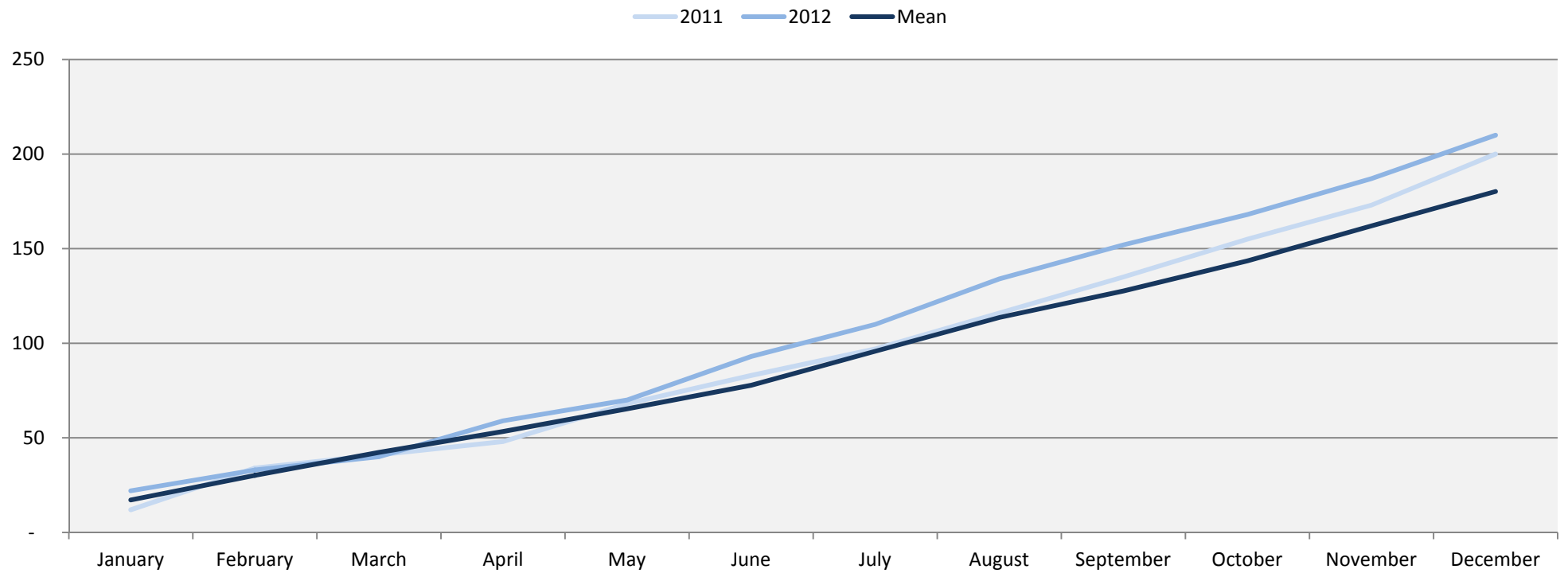


## Days with Precipitation >0.05 inches - Current Year vs. Mean

2012 Mean

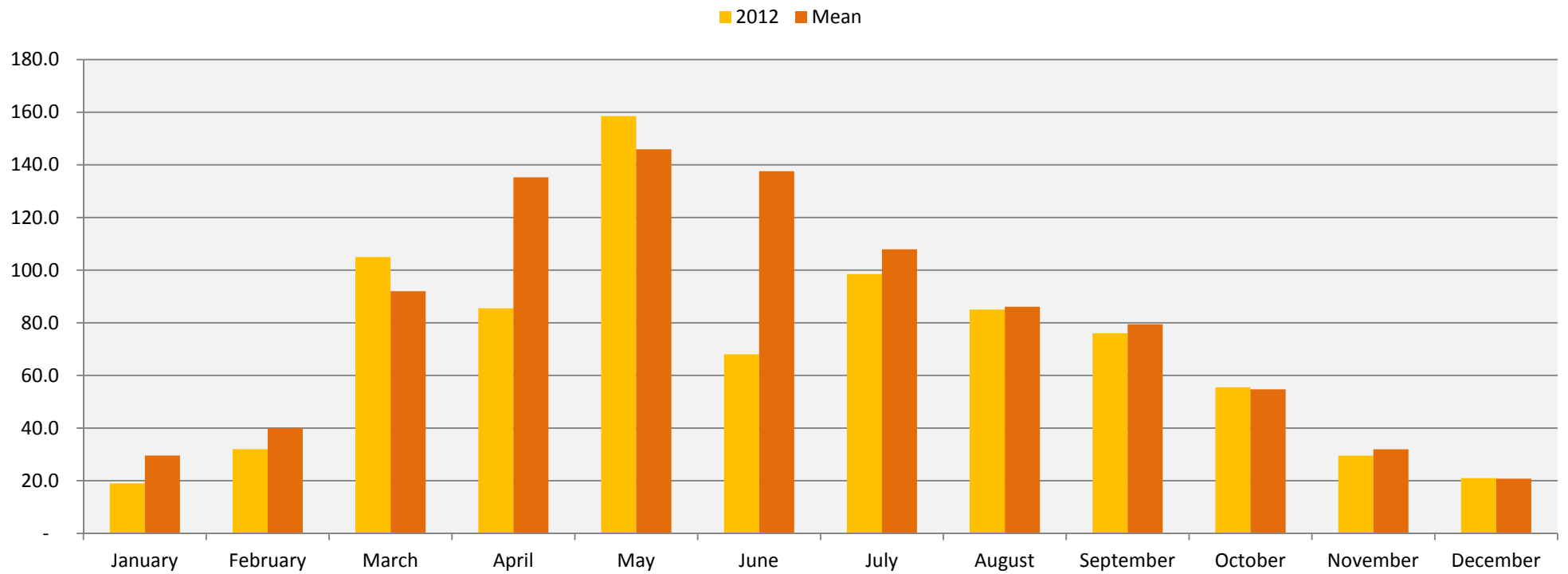


## Wet Days - This Year, Last Year, Mean

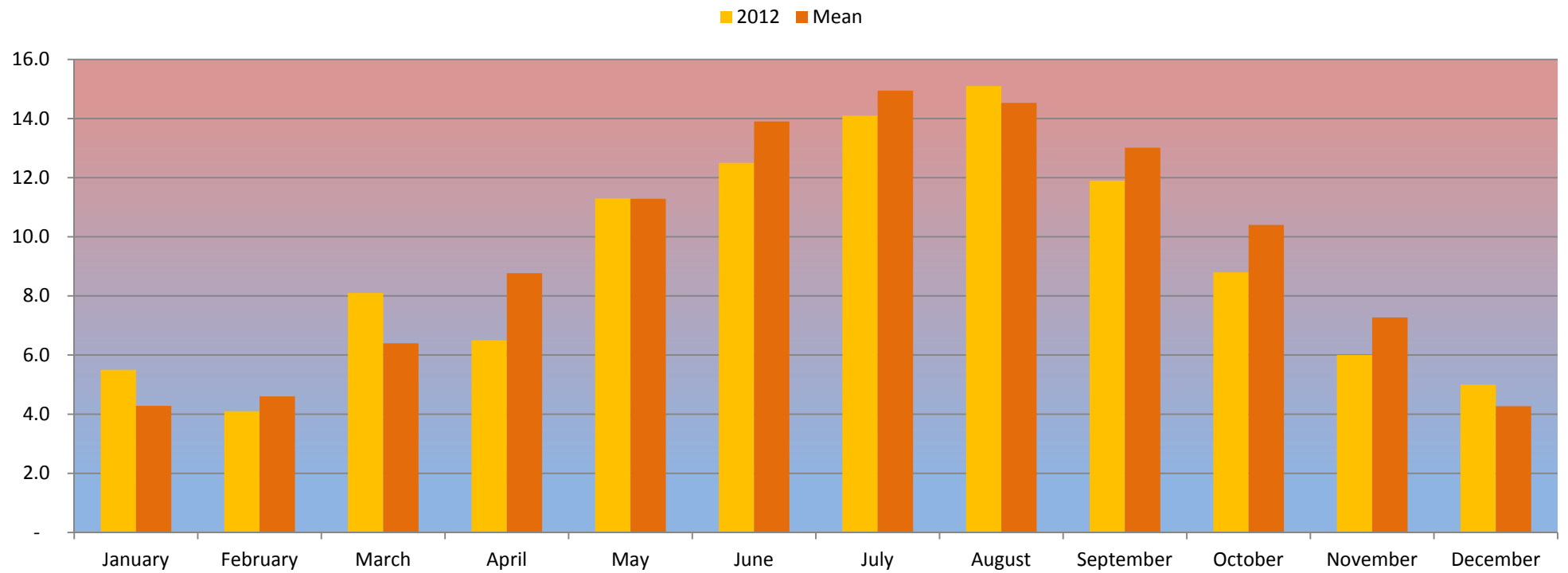




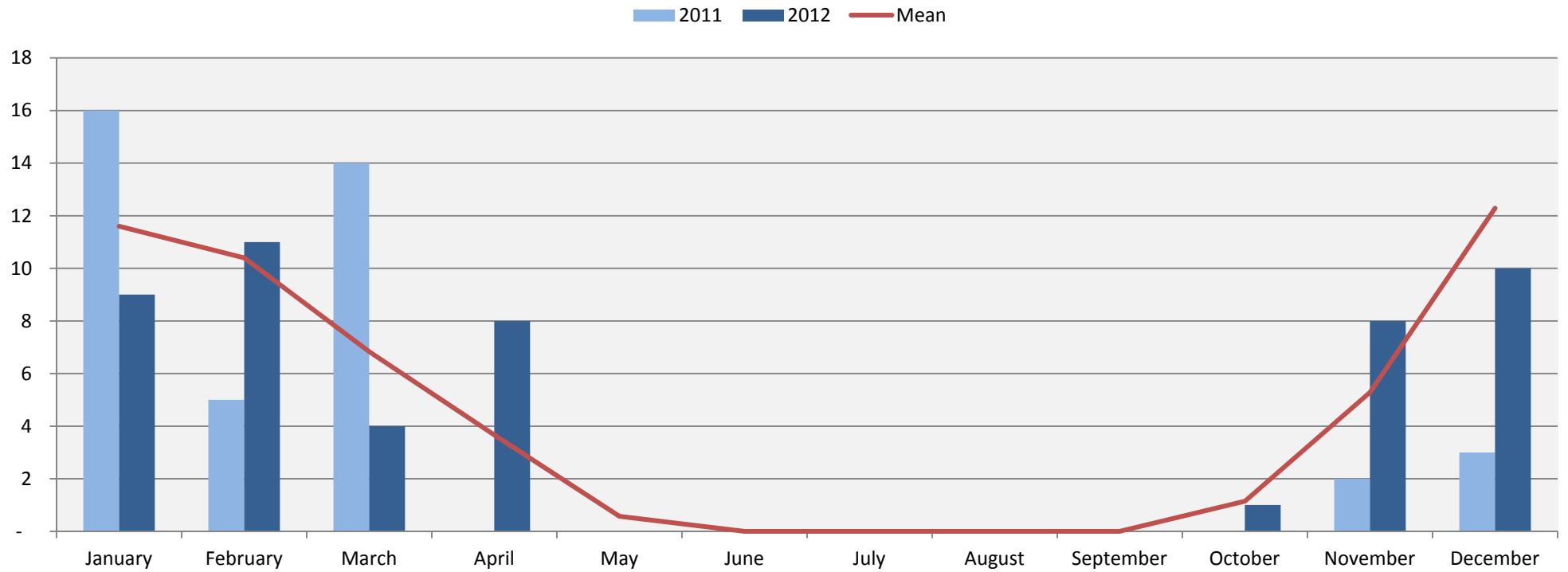
## Hours of Bright Sunshine - Current Year vs. Mean



## Mean Monthly Temperature - Current Year vs. Mean



## Days with Air Frost - This Year, Last Year, Mean



## Wind Run - Current Year vs. Mean

2012 Mean

