



STANNY FARM

# Weather Bulletin

March 2016

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A review of the month's weather recorded by the Davis Vantage Pro2 weather station

*latitude* 52° 08.733' N *longitude* 1° 33.313' E *elevation* 2m asl

[www.stannyfarm.org/weather](http://www.stannyfarm.org/weather)

*Steve*

3<sup>rd</sup> April 2016

Weather station data March 2016

Part 1

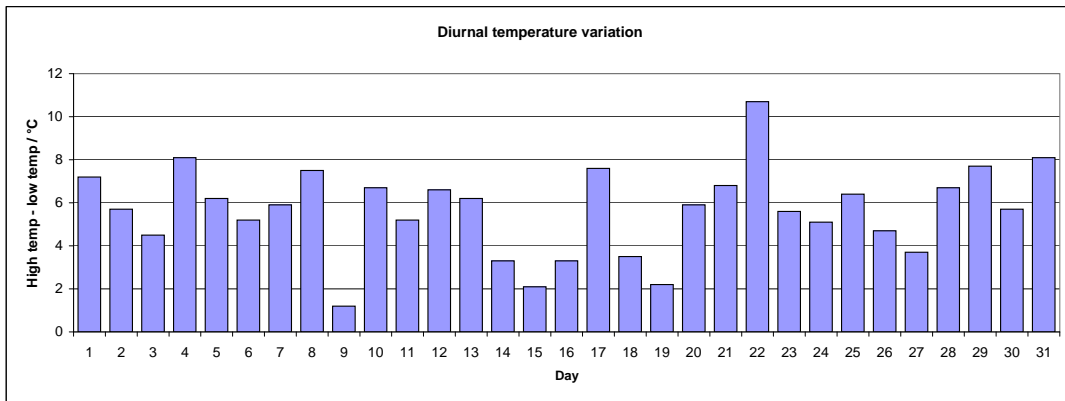
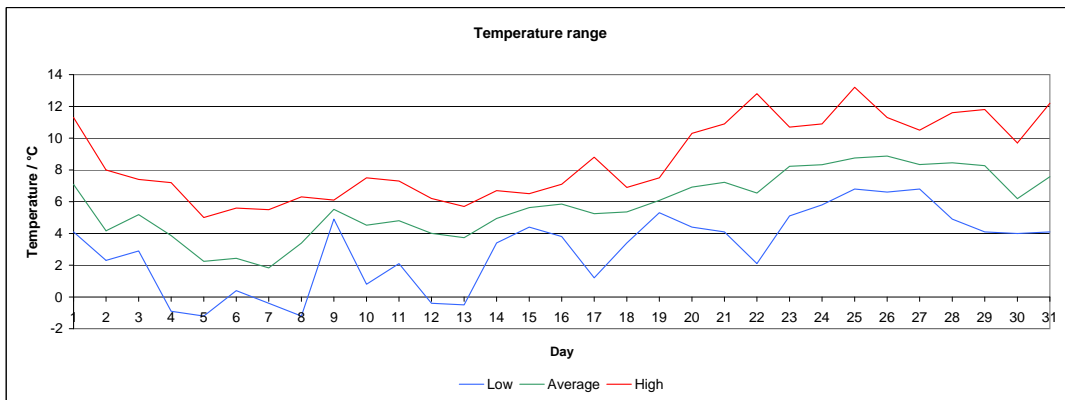
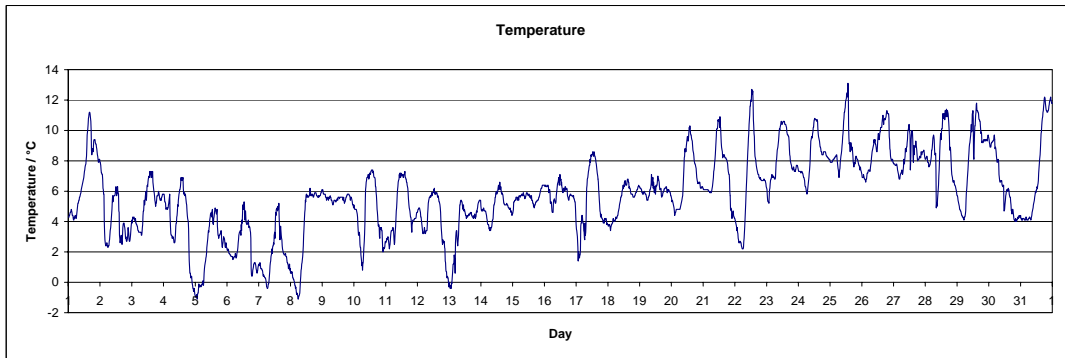
| Day     | Low outside temperature | Mean outside temperature | High outside temperature | Temperature range | Low outside humidity | Mean outside humidity | High outside humidity | Low outside dew point | Mean outside dew point | High outside dew point | Mean wind speed | Total wind run | High wind speed | High gust speed | Low pressure | Mean pressure | High pressure | Rainfall | High rainfall rate |
|---------|-------------------------|--------------------------|--------------------------|-------------------|----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|-----------------|----------------|-----------------|-----------------|--------------|---------------|---------------|----------|--------------------|
|         | °C                      | °C                       | °C                       | °C                | %                    | %                     | %                     | °C                    | °C                     | °C                     | km/hr           | km             | km/hr           | km/hr           | mb           | mb            | mb            | mm       | mm/hr              |
| 1       | 4.1                     | 7.1                      | 11.3                     | 7.2               | 79.0                 | 89.4                  | 96.0                  | 1.2                   | 5.4                    | 9.8                    | 15.6            | 375.4          | 25.7            | 53.1            | 1000.0       | 1008.6        | 1022.4        | 4.4      | 1.4                |
| 2       | 2.3                     | 4.2                      | 8.0                      | 5.7               | 77.0                 | 86.0                  | 93.0                  | 0.1                   | 2.0                    | 5.6                    | 13.3            | 318.6          | 22.5            | 45.1            | 989.8        | 995.2         | 999.7         | 3.2      | 8.8                |
| 3       | 2.9                     | 5.2                      | 7.4                      | 4.5               | 68.0                 | 84.8                  | 92.0                  | 1.5                   | 2.8                    | 4.3                    | 11.1            | 266.8          | 20.9            | 37.0            | 993.6        | 1000.4        | 1004.6        | 1.2      | 2.0                |
| 4       | -0.9                    | 3.9                      | 7.2                      | 8.1               | 61.0                 | 83.5                  | 95.0                  | -1.9                  | 1.2                    | 5.0                    | 8.0             | 192.3          | 19.3            | 41.8            | 986.9        | 990.3         | 995.4         | 8.6      | 3.2                |
| 5       | -1.2                    | 2.2                      | 5.0                      | 6.2               | 88.0                 | 92.1                  | 95.0                  | -2.0                  | 1.1                    | 3.5                    | 7.9             | 188.6          | 17.7            | 37.0            | 993.4        | 996.7         | 1001.3        | 4.4      | 3.0                |
| 6       | 0.4                     | 2.4                      | 5.6                      | 5.2               | 82.0                 | 90.5                  | 94.0                  | -1.0                  | 1.0                    | 3.1                    | 7.4             | 177.9          | 14.5            | 30.6            | 1001.2       | 1002.6        | 1003.6        | 2.4      | 1.2                |
| 7       | -0.4                    | 1.8                      | 5.5                      | 5.9               | 87.0                 | 92.3                  | 94.0                  | -1.3                  | 0.7                    | 3.4                    | 7.9             | 189.1          | 17.7            | 32.2            | 1003.0       | 1006.8        | 1012.3        | 1.4      | 1.0                |
| 8       | -1.2                    | 3.4                      | 6.3                      | 7.5               | 70.0                 | 86.6                  | 94.0                  | -1.9                  | 1.3                    | 5.1                    | 7.6             | 182.2          | 14.5            | 30.6            | 1003.4       | 1011.5        | 1014.5        | 0.2      | 0.0                |
| 9       | 4.9                     | 5.5                      | 6.1                      | 1.2               | 87.0                 | 90.3                  | 95.0                  | 3.4                   | 4.0                    | 5.1                    | 12.0            | 286.1          | 22.5            | 48.3            | 992.8        | 999.2         | 1009.2        | 4.0      | 2.0                |
| 10      | 0.8                     | 4.5                      | 7.5                      | 6.7               | 80.0                 | 89.4                  | 96.0                  | 0.0                   | 2.9                    | 5.6                    | 4.2             | 100.9          | 14.5            | 20.9            | 1009.5       | 1018.6        | 1025.5        | 0.0      | 0.0                |
| 11      | 2.1                     | 4.8                      | 7.3                      | 5.2               | 83.0                 | 90.0                  | 95.0                  | 1.4                   | 3.3                    | 4.9                    | 3.3             | 80.0           | 8.0             | 16.1            | 1025.4       | 1027.6        | 1029.7        | 0.0      | 0.0                |
| 12      | -0.4                    | 4.0                      | 6.2                      | 6.6               | 86.0                 | 91.1                  | 95.0                  | -1.2                  | 2.7                    | 4.6                    | 0.8             | 18.8           | 4.8             | 11.3            | 1028.8       | 1030.4        | 1032.4        | 0.0      | 0.0                |
| 13      | -0.5                    | 3.7                      | 5.7                      | 6.2               | 82.0                 | 88.6                  | 96.0                  | -1.3                  | 2.0                    | 3.9                    | 9.8             | 235.7          | 17.7            | 27.4            | 1032.4       | 1034.5        | 1035.8        | 0.2      | 0.0                |
| 14      | 3.4                     | 4.9                      | 6.7                      | 3.3               | 81.0                 | 86.6                  | 91.0                  | 1.4                   | 2.9                    | 3.7                    | 17.0            | 408.3          | 24.1            | 37.0            | 1030.8       | 1033.1        | 1034.8        | 0.0      | 0.0                |
| 15      | 4.4                     | 5.6                      | 6.5                      | 2.1               | 90.0                 | 94.0                  | 96.0                  | 3.1                   | 4.7                    | 5.5                    | 11.0            | 264.0          | 17.7            | 30.6            | 1028.5       | 1029.3        | 1030.7        | 0.0      | 0.0                |
| 16      | 3.8                     | 5.8                      | 7.1                      | 3.3               | 77.0                 | 88.1                  | 95.0                  | 2.5                   | 4.0                    | 5.6                    | 15.7            | 375.8          | 24.1            | 37.0            | 1028.2       | 1029.6        | 1030.8        | 0.0      | 0.0                |
| 17      | 1.2                     | 5.2                      | 8.8                      | 7.6               | 75.0                 | 88.5                  | 96.0                  | 0.4                   | 3.4                    | 5.6                    | 8.4             | 202.3          | 16.1            | 25.7            | 1027.6       | 1029.5        | 1031.0        | 0.0      | 0.0                |
| 18      | 3.4                     | 5.4                      | 6.9                      | 3.5               | 87.0                 | 91.5                  | 95.0                  | 2.1                   | 4.1                    | 5.5                    | 7.7             | 183.9          | 14.5            | 27.4            | 1024.0       | 1025.3        | 1027.5        | 0.0      | 0.0                |
| 19      | 5.3                     | 6.1                      | 7.5                      | 2.2               | 82.0                 | 87.4                  | 92.0                  | 3.2                   | 4.1                    | 5.4                    | 11.9            | 286.4          | 20.9            | 30.6            | 1024.3       | 1025.1        | 1025.7        | 0.0      | 0.0                |
| 20      | 4.4                     | 6.9                      | 10.3                     | 5.9               | 77.0                 | 88.7                  | 95.0                  | 3.6                   | 5.1                    | 6.7                    | 6.5             | 155.3          | 14.5            | 25.7            | 1022.1       | 1023.3        | 1024.8        | 0.2      | 0.0                |
| 21      | 4.1                     | 7.2                      | 10.9                     | 6.8               | 69.0                 | 84.2                  | 94.0                  | 2.4                   | 4.6                    | 6.8                    | 5.0             | 120.7          | 19.3            | 35.4            | 1018.8       | 1020.8        | 1022.8        | 0.0      | 0.0                |
| 22      | 2.1                     | 6.5                      | 12.8                     | 10.7              | 57.0                 | 87.4                  | 95.0                  | 1.3                   | 4.5                    | 7.1                    | 3.3             | 79.2           | 11.3            | 17.7            | 1015.1       | 1016.3        | 1018.7        | 0.0      | 0.0                |
| 23      | 5.1                     | 8.2                      | 10.7                     | 5.6               | 69.0                 | 80.6                  | 94.0                  | 3.5                   | 5.0                    | 6.0                    | 2.7             | 65.5           | 11.3            | 19.3            | 1014.2       | 1015.0        | 1015.8        | 0.0      | 0.0                |
| 24      | 5.8                     | 8.3                      | 10.9                     | 5.1               | 70.0                 | 82.7                  | 94.0                  | 3.6                   | 5.5                    | 7.3                    | 9.3             | 224.1          | 17.7            | 32.2            | 1007.8       | 1011.2        | 1014.2        | 0.0      | 0.0                |
| 25      | 6.8                     | 8.7                      | 13.2                     | 6.4               | 64.0                 | 85.7                  | 97.0                  | 5.1                   | 6.4                    | 7.9                    | 8.8             | 212.0          | 16.1            | 30.6            | 1006.9       | 1012.0        | 1015.6        | 1.8      | 1.4                |
| 26      | 6.6                     | 8.9                      | 11.3                     | 4.7               | 87.0                 | 90.3                  | 92.0                  | 4.9                   | 7.4                    | 9.8                    | 18.4            | 442.2          | 30.6            | 51.5            | 996.0        | 1004.7        | 1014.5        | 1.8      | 3.4                |
| 27      | 6.8                     | 8.3                      | 10.5                     | 3.7               | 81.0                 | 86.8                  | 92.0                  | 4.6                   | 6.3                    | 7.5                    | 19.7            | 472.0          | 29.0            | 56.3            | 992.4        | 999.2         | 1000.9        | 2.4      | 8.2                |
| 28      | 4.9                     | 8.5                      | 11.6                     | 6.7               | 51.0                 | 78.8                  | 93.0                  | 1.7                   | 4.8                    | 7.7                    | 25.9            | 622.0          | 43.5            | 80.5            | 976.3        | 987.5         | 996.3         | 5.6      | 2.6                |
| 29      | 4.1                     | 8.3                      | 11.8                     | 7.7               | 58.0                 | 85.4                  | 94.0                  | 3.0                   | 5.8                    | 8.7                    | 16.8            | 396.8          | 25.7            | 45.1            | 996.5        | 1004.9        | 1013.3        | 0.8      | 4.2                |
| 30      | 4.0                     | 6.2                      | 9.7                      | 5.7               | 65.0                 | 80.0                  | 95.0                  | -0.6                  | 2.9                    | 8.9                    | 14.7            | 362.9          | 25.7            | 45.1            | 1004.3       | 1006.7        | 1009.3        | 3.4      | 5.8                |
| 31      | 4.1                     | 7.6                      | 12.2                     | 8.1               | 77.0                 | 88.9                  | 95.0                  | 0.4                   | 5.8                    | 10.7                   | 10.7            | 261.0          | 20.9            | 37.0            | 1002.0       | 1006.4        | 1009.4        | 1.2      | 0.8                |
| MIn     | -1.2                    | 1.8                      | 5.0                      | 1.2               | 51.0                 | 78.8                  | 91.0                  | -2.0                  | 0.7                    | 3.1                    | 0.8             | 18.8           | 4.8             | 11.3            | 976.3        | 987.5         | 995.4         | 0.0      | 0.0                |
| Average | 3.0                     | 5.8                      | 8.7                      | 5.7               | 75.7                 | 87.4                  | 94.4                  | 1.4                   | 3.8                    | 6.1                    | 10.4            | 249.9          | 19.5            | 35.4            | 1008.9       | 1013.0        | 1016.9        | 1.5      | 1.6                |
| Max     | 6.8                     | 8.9                      | 13.2                     | 10.7              | 90.0                 | 94.0                  | 97.0                  | 5.1                   | 7.4                    | 10.7                   | 25.9            | 622.0          | 43.5            | 80.5            | 1032.4       | 1034.5        | 1035.8        | 8.6      | 8.8                |

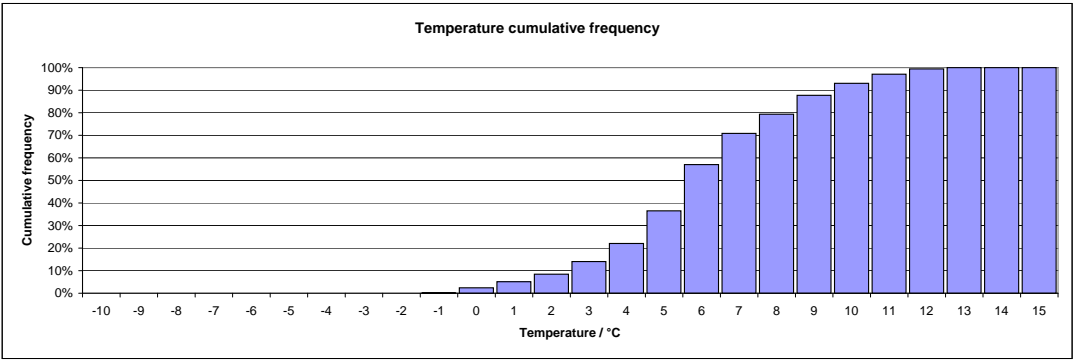
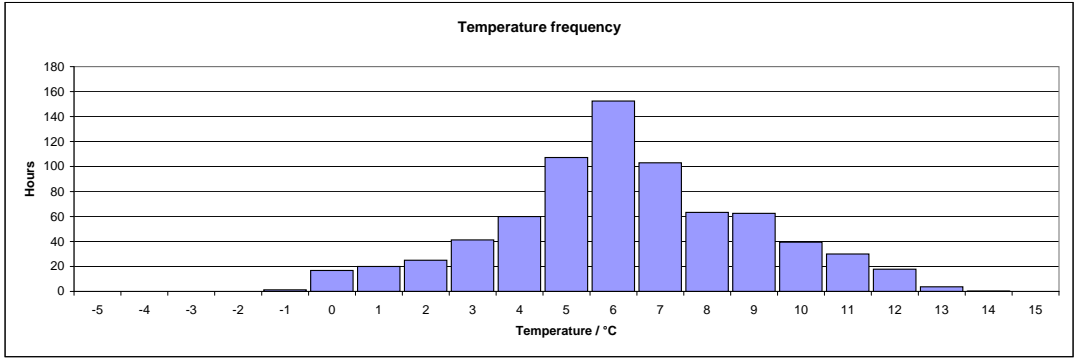
## Weather station data March 2016

## Part 2

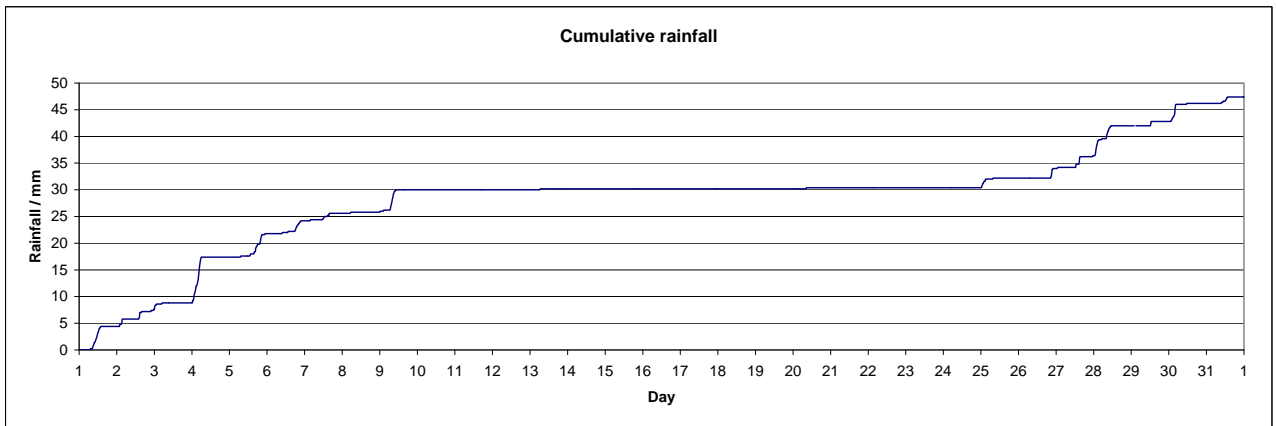
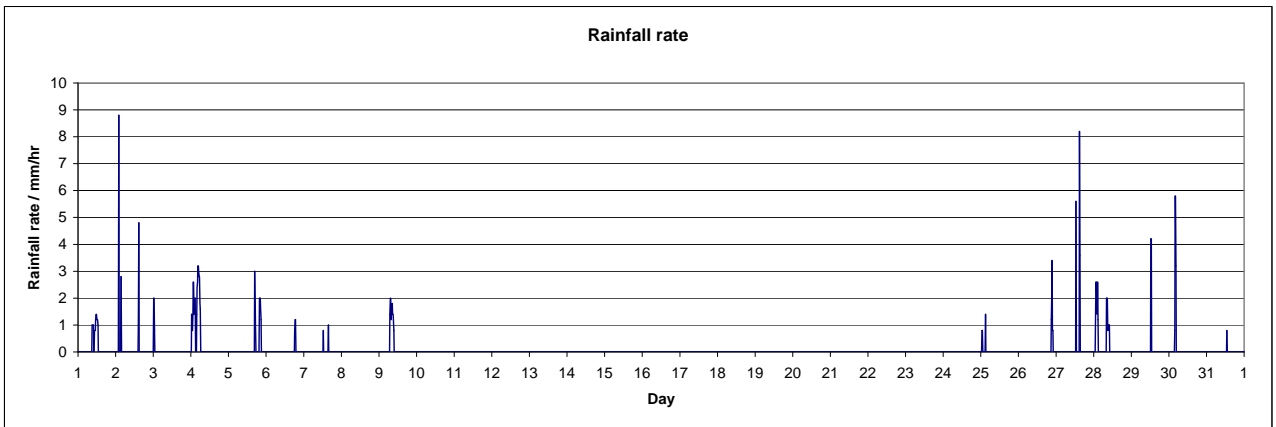
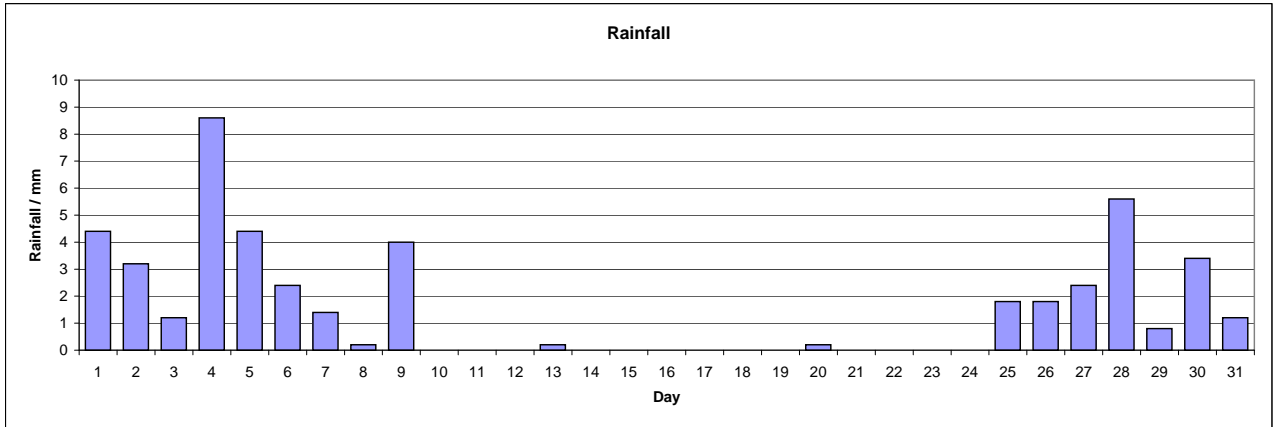
| Day     | Mean wind chill | Mean outside heat index | Mean THW index | Inside low temperature | Mean inside temperature | Inside high temperature | Mean inside humidity | Mean inside dew point | Mean inside heat index | Mean inside EMC | Mean inside air density | Wind samples | Wind transmission | Mean ISS reception |
|---------|-----------------|-------------------------|----------------|------------------------|-------------------------|-------------------------|----------------------|-----------------------|------------------------|-----------------|-------------------------|--------------|-------------------|--------------------|
|         | °C              | °C                      | °C             | °C                     | °C                      | °C                      | %                    | °C                    | °C                     |                 |                         |              |                   | %                  |
| 1       | 4.2             | 7.1                     | 4.2            | 13.6                   | 17.9                    | 21.5                    | 44.3                 | 5.5                   | 16.7                   | 8.5             | 1.197                   | 33654        | 1                 | 100.0              |
| 2       | 1.1             | 4.1                     | 1.0            | 14.6                   | 17.0                    | 19.1                    | 45.3                 | 5.1                   | 15.7                   | 8.6             | 1.185                   | 33668        | 1                 | 100.0              |
| 3       | 2.7             | 5.1                     | 2.6            | 13.6                   | 16.9                    | 19.5                    | 45.1                 | 4.9                   | 15.6                   | 8.6             | 1.192                   | 33660        | 1                 | 100.0              |
| 4       | 2.1             | 3.7                     | 1.9            | 14.7                   | 16.8                    | 18.8                    | 45.2                 | 4.8                   | 15.5                   | 8.6             | 1.180                   | 33645        | 1                 | 100.0              |
| 5       | 0.3             | 2.2                     | 0.2            | 13.4                   | 16.0                    | 18.4                    | 45.2                 | 4.1                   | 14.7                   | 8.6             | 1.192                   | 33668        | 1                 | 100.0              |
| 6       | 0.5             | 2.4                     | 0.4            | 12.7                   | 16.2                    | 18.9                    | 44.6                 | 4.1                   | 14.9                   | 8.6             | 1.198                   | 33637        | 1                 | 100.0              |
| 7       | -0.2            | 1.8                     | -0.2           | 13.6                   | 16.2                    | 18.5                    | 44.5                 | 4.1                   | 15.0                   | 8.5             | 1.203                   | 33659        | 1                 | 100.0              |
| 8       | 1.8             | 3.3                     | 1.7            | 13.9                   | 16.6                    | 19.6                    | 43.9                 | 4.3                   | 15.3                   | 8.4             | 1.207                   | 33657        | 1                 | 100.0              |
| 9       | 3.1             | 5.5                     | 3.1            | 14.5                   | 17.3                    | 19.7                    | 44.9                 | 5.2                   | 16.0                   | 8.6             | 1.189                   | 33313        | 1                 | 100.0              |
| 10      | 3.7             | 4.5                     | 3.7            | 16.1                   | 17.7                    | 19.1                    | 47.1                 | 6.2                   | 16.5                   | 8.9             | 1.209                   | 33645        | 1                 | 100.0              |
| 11      | 4.3             | 4.8                     | 4.3            | 15.2                   | 17.1                    | 19.6                    | 47.3                 | 5.8                   | 16.0                   | 8.9             | 1.223                   | 33665        | 1                 | 100.0              |
| 12      | 4.0             | 4.0                     | 4.0            | 14.1                   | 16.8                    | 19.1                    | 47.2                 | 5.5                   | 15.6                   | 8.9             | 1.228                   | 33657        | 1                 | 100.0              |
| 13      | 1.5             | 3.7                     | 1.5            | 13.8                   | 16.7                    | 19.3                    | 46.6                 | 5.2                   | 15.5                   | 8.9             | 1.233                   | 33639        | 1                 | 100.0              |
| 14      | 1.4             | 4.8                     | 1.3            | 13.8                   | 16.5                    | 19.6                    | 46.2                 | 4.9                   | 15.3                   | 8.8             | 1.233                   | 33667        | 1                 | 100.0              |
| 15      | 3.3             | 5.7                     | 3.4            | 13.7                   | 16.1                    | 18.9                    | 47.2                 | 4.9                   | 15.0                   | 9.0             | 1.230                   | 33666        | 1                 | 100.0              |
| 16      | 2.7             | 5.8                     | 2.7            | 13.6                   | 16.5                    | 19.2                    | 48.1                 | 5.5                   | 15.4                   | 9.1             | 1.228                   | 33673        | 1                 | 100.0              |
| 17      | 3.5             | 5.2                     | 3.5            | 13.8                   | 17.1                    | 19.9                    | 46.9                 | 5.7                   | 16.0                   | 8.9             | 1.225                   | 33658        | 1                 | 100.0              |
| 18      | 3.8             | 5.4                     | 3.8            | 14.2                   | 16.5                    | 18.6                    | 47.4                 | 5.2                   | 15.3                   | 9.0             | 1.223                   | 33658        | 1                 | 100.0              |
| 19      | 3.6             | 6.0                     | 3.6            | 13.6                   | 15.9                    | 18.2                    | 48.1                 | 4.9                   | 14.7                   | 9.1             | 1.226                   | 33667        | 1                 | 100.0              |
| 20      | 6.0             | 6.9                     | 6.0            | 13.3                   | 16.3                    | 18.6                    | 48.1                 | 5.3                   | 15.2                   | 9.1             | 1.221                   | 33660        | 1                 | 100.0              |
| 21      | 6.5             | 7.1                     | 6.4            | 14.6                   | 16.8                    | 18.6                    | 47.7                 | 5.6                   | 15.6                   | 9.0             | 1.216                   | 33673        | 1                 | 100.0              |
| 22      | 6.2             | 6.5                     | 6.1            | 14.2                   | 17.4                    | 19.8                    | 47.0                 | 6.0                   | 16.3                   | 8.9             | 1.208                   | 33657        | 1                 | 100.0              |
| 23      | 8.0             | 8.1                     | 7.9            | 16.4                   | 17.9                    | 19.6                    | 46.6                 | 6.2                   | 16.7                   | 8.8             | 1.204                   | 33669        | 1                 | 100.0              |
| 24      | 6.9             | 8.3                     | 6.8            | 15.1                   | 18.0                    | 21.6                    | 47.0                 | 6.5                   | 16.9                   | 8.9             | 1.199                   | 33654        | 1                 | 100.0              |
| 25      | 7.4             | 8.7                     | 7.4            | 15.6                   | 17.0                    | 18.8                    | 49.4                 | 6.4                   | 16.0                   | 9.3             | 1.204                   | 33636        | 1                 | 99.9               |
| 26      | 5.8             | 9.0                     | 5.9            | 14.5                   | 17.7                    | 20.0                    | 49.8                 | 7.1                   | 16.8                   | 9.3             | 1.192                   | 33662        | 1                 | 100.0              |
| 27      | 5.0             | 8.4                     | 5.0            | 16.3                   | 17.9                    | 19.6                    | 49.8                 | 7.2                   | 16.9                   | 9.3             | 1.185                   | 33669        | 1                 | 100.0              |
| 28      | 4.6             | 8.3                     | 4.4            | 15.2                   | 17.4                    | 19.4                    | 48.5                 | 6.4                   | 16.3                   | 9.1             | 1.173                   | 33667        | 1                 | 100.0              |
| 29      | 5.4             | 8.3                     | 5.3            | 15.2                   | 17.7                    | 20.2                    | 50.3                 | 7.2                   | 16.8                   | 9.5             | 1.192                   | 35067        | 1                 | 100.0              |
| 30      | 3.2             | 6.1                     | 3.1            | 15.3                   | 17.2                    | 18.7                    | 53.7                 | 7.7                   | 16.3                   | 10.1            | 1.196                   | 33621        | 1                 | 99.9               |
| 31      | 5.7             | 7.6                     | 5.7            | 14.4                   | 17.1                    | 18.9                    | 53.4                 | 7.5                   | 16.2                   | 10.0            | 1.196                   | 32281        | 1                 | 100.0              |
| MIn     | -0.2            | 1.8                     | -0.2           | 12.7                   | 15.9                    | 18.2                    | 43.9                 | 4.1                   | 14.7                   | 8.4             | 1.2                     | 32281.0      | 1.0               | 99.9               |
| Average | 3.8             | 5.7                     | 3.8            | 14.4                   | 17.0                    | 19.3                    | 47.3                 | 5.6                   | 15.8                   | 9.0             | 1.2                     | 33647.5      | 1.0               | 100.0              |
| Max     | 8.0             | 9.0                     | 7.9            | 16.4                   | 18.0                    | 21.6                    | 53.7                 | 7.7                   | 16.9                   | 10.1            | 1.2                     | 35067.0      | 1.0               | 100.0              |

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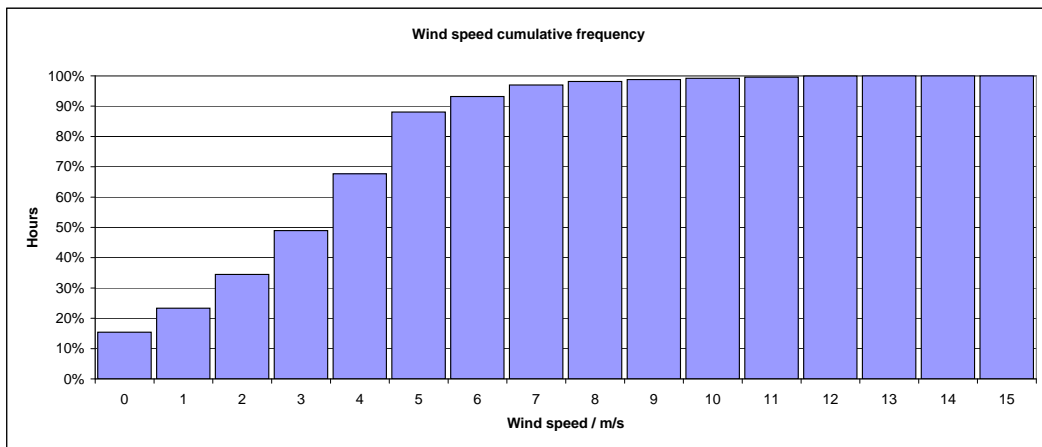
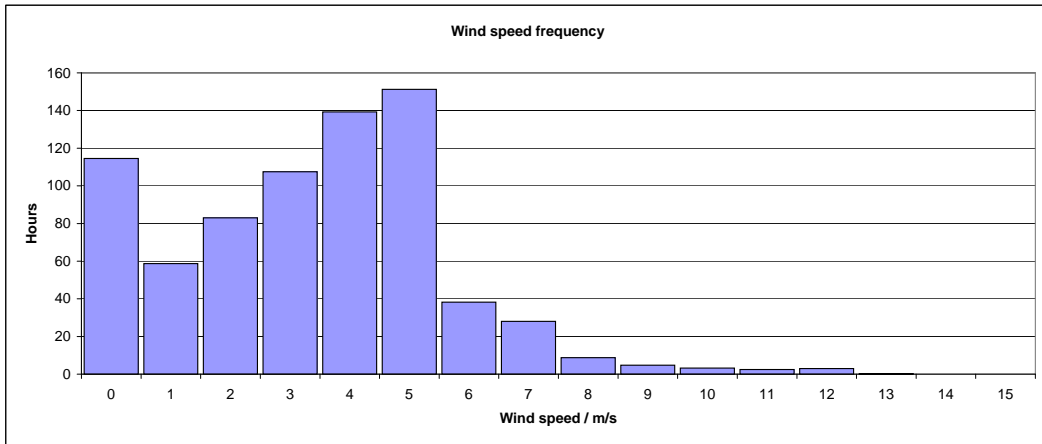
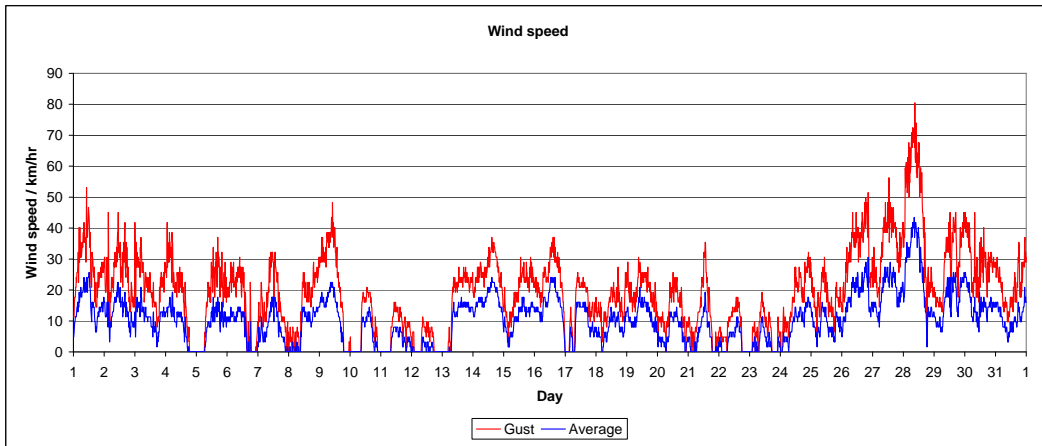




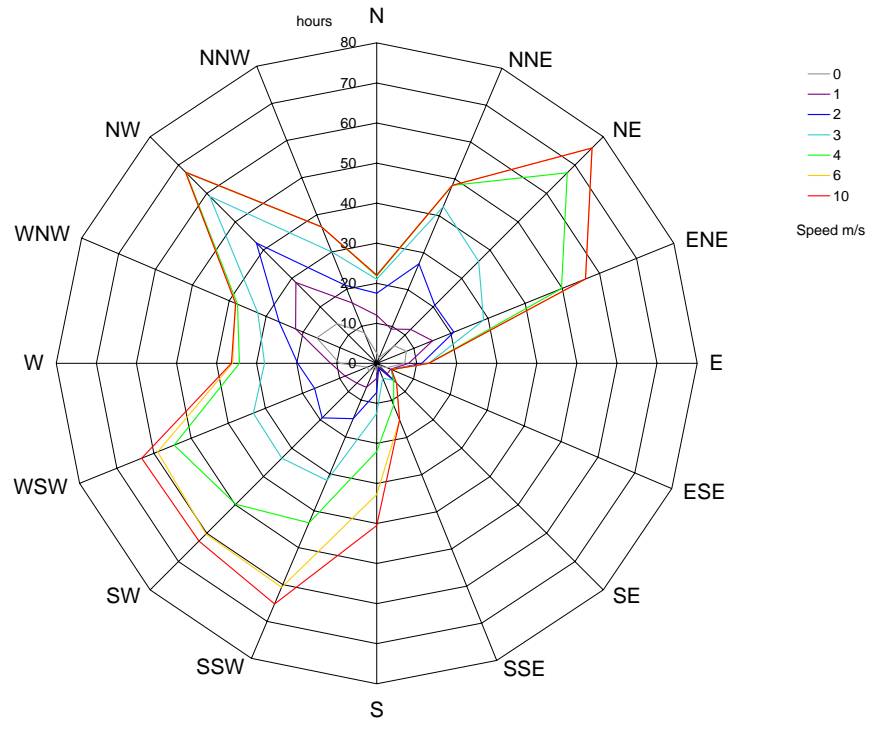
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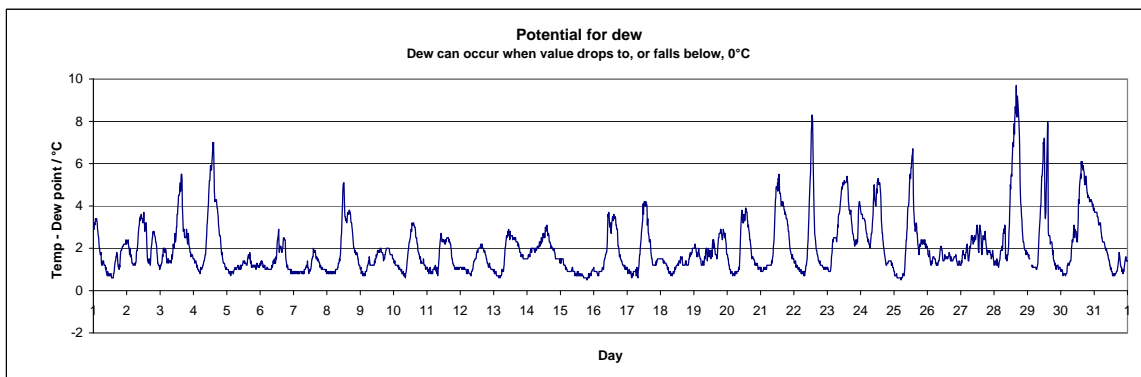
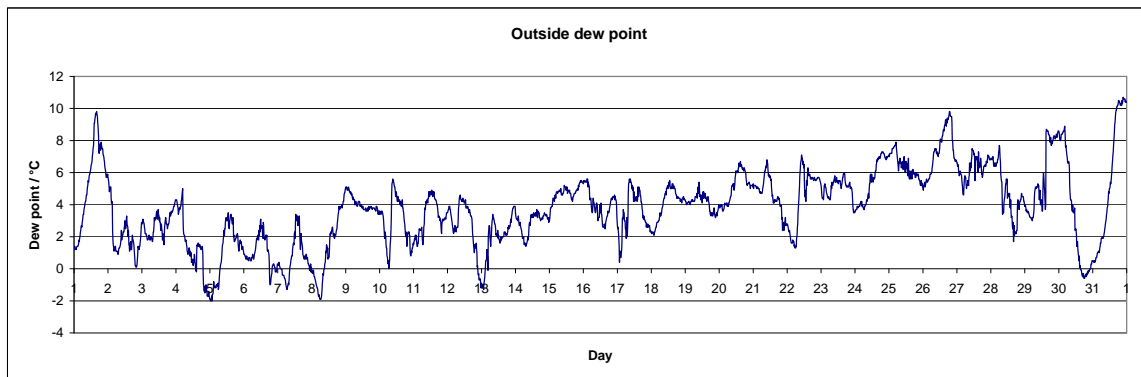
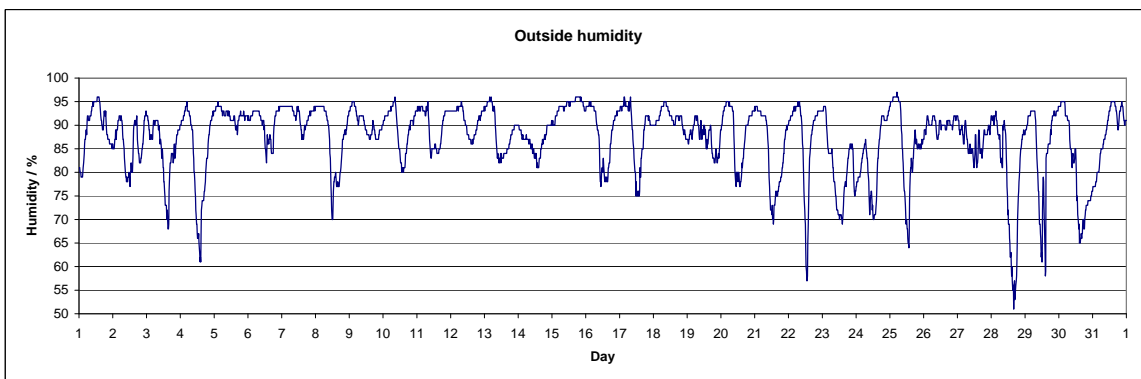
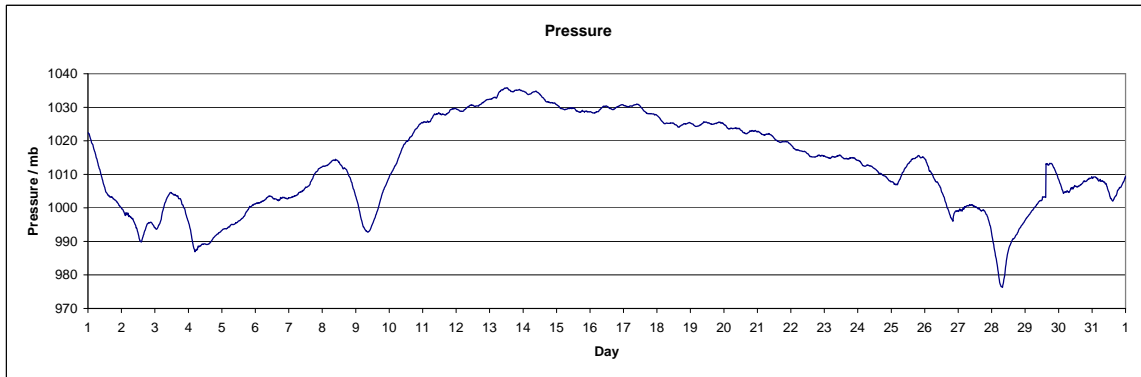


### Distribution of wind speed and direction

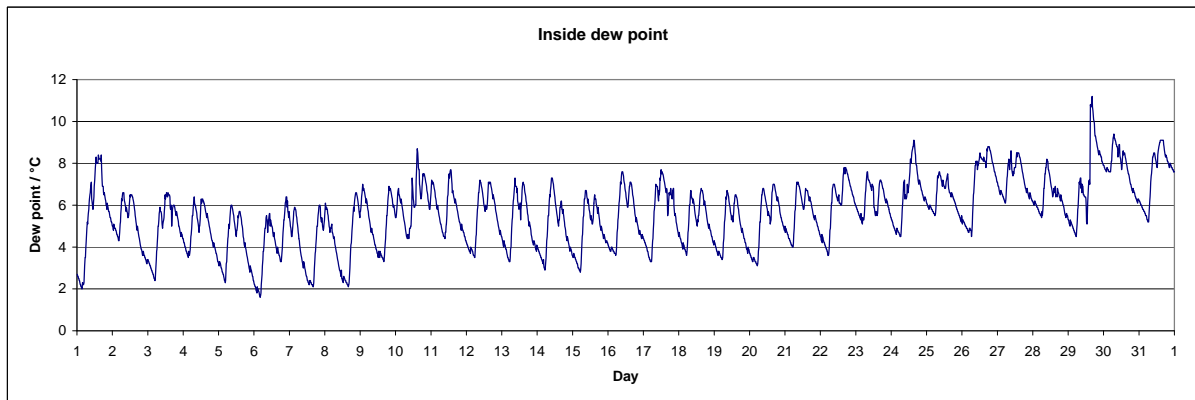
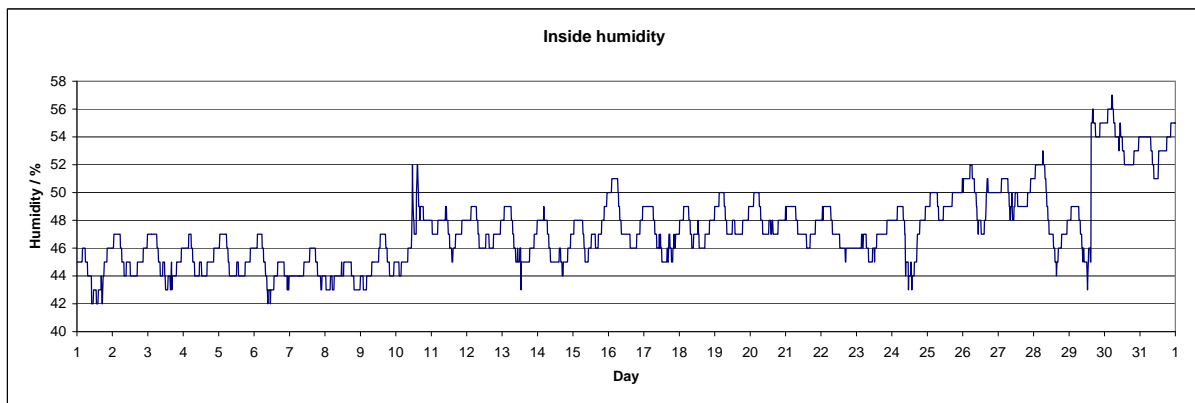
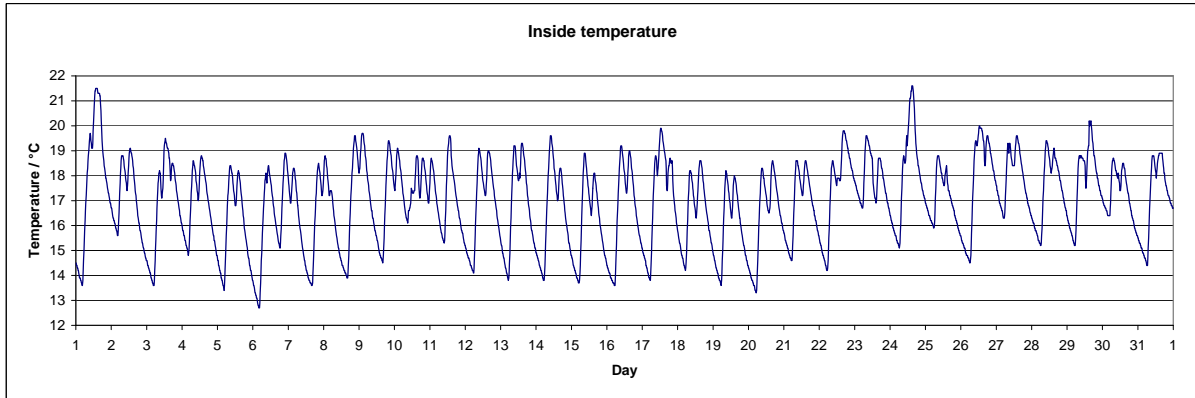




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