



## AGROMETEOROLOGICAL BULLETIN

AUGUST 1971.

### The weather during August

Rainfall varied considerably during August. Many areas had heavy rain during the first fortnight of the month especially in the period 1st - 5th when some places reported falls of over 30 millimetres on individual days. The period 14th - 25th was almost completely dry in all areas but during the last week of the month many places had periods of heavy rain, the wettest day being the 28th. Over the month, rainfall totals were above normal in most parts of the country except for some parts of the Midlands and Southwest where rainfall was 70% - 90% of normal. In Belmullet, Co. Mayo it was the wettest August since 1958 but over 50% of the total rainfall for the month fell there during the first five days. During the remainder of the month the northwest was the sunniest part of the country, the highest monthly totals of solar radiation being recorded at Glenamoy, Co. Mayo.

Mean air temperature for the month was below normal everywhere and night-time temperatures were unusually low at mid-month. The night of the 15th/16th was the coldest with ground frost being experienced in many inland places; the lowest grass temperature reported was  $-2.8^{\circ}\text{C}$  at Lullymore, Co. Kildare.

During the first fortnight, conditions were very favourable for the spread of fungus diseases and lengthy spells of "blight-weather" were experienced in most places during this time.

TABLE 1.

## RAINFALL, TEMPERATURE, SUNSHINE AND WIND

AUGUST 1971

| STATION                                     | PERIOD | RAINFALL |                       |                  |                 | TEMPERATURE |                         |                |     |                            |                         |                         |                      |     |                               | BRIGHT SUNSHINE |                       | WIND       |                             |            |                         |
|---|--------|----------|-----------------------|------------------|-----------------|-------------|-------------------------|----------------|-----|----------------------------|-------------------------|-------------------------|----------------------|-----|-------------------------------|-----------------|-----------------------|------------|-----------------------------|------------|-------------------------|
|   |        | Amount   | Percentage of Average | No. of Rain Days | No. of Wet Days | AIR         |                         |                |     |                            | GROUND                  |                         | SOIL (10cm)          |     |                               | Mean Daily      | Percentage of Average | Mean Speed | No. of Days with Gale Gusts |            |                         |
|   |        |          |                       |                  |                 | Mean Daily  | Difference from Average | Lowest Minimum | Day | No. of Days with Air Frost | Degree Days Above 4.4°C | Degree Days Above 6.0°C | Lowest Grass Minimum | Day | No. of Days with Ground Frost |                 |                       |            |                             | Mean Daily | Difference from Average |
| mm  | %      | °C       | °C                    | °C               |                 |             |                         |                |     |                            | °C                      | °C                      | Hr                   | %   | Kt                            |                 |                       |            |                             |            |                         |
| Carlow<br>(Oak Park)<br>Co. Carlow          | 1-10   | 46.6     | -                     | 8                | 7               | 15.3        | -                       | +5.5           | 07  | 0                          | 109.5                   | 93.5                    | -0.2                 | 07  | 1                             | -               | -                     | 2.49       | -                           | 5          | -                       |
|   | 11-20  | 15.6     | -                     | 4                | 4               | 14.3        | -                       | +3.4           | 16  | 0                          | 98.6                    | 83.0                    | -2.5                 | 16  | 2                             | -               | -                     | 3.96       | -                           | 4          | -                       |
|   | 21-end | 8.3      | -                     | 5                | 3               | 15.0        | -                       | +5.8           | 27  | 0                          | 117.0                   | 99.4                    | -0.7                 | 27  | 1                             | -               | -                     | 2.97       | -                           | 5          | -                       |
|   | Month  | 70.5     | -                     | 17               | 14              | 14.9        | -                       | +3.4           | 16  | 0                          | 325.1                   | 275.9                   | -2.5                 | 16  | 4                             | -               | -                     | 3.14       | -                           | 5          | -                       |
| Shannon Airport<br>Co. Clare                | 1-10   | 31.2     | -                     | 7                | 4               | 15.8        | -                       | +9.6           | 07  | 0                          | 114.5                   | 98.5                    | +6.0                 | 07  | 0                             | 17.4            | -                     | 4.28       | -                           | 8          | 0                       |
|   | 11-20  | 6.4      | -                     | 2                | 1               | 15.1        | -                       | +6.7           | 16  | 0                          | 107.0                   | 91.0                    | +3.4                 | 16  | 0                             | 17.0            | -                     | 5.41       | -                           | 7          | 0                       |
|   | 21-end | 31.3     | -                     | 8                | 5               | 15.5        | -                       | +9.1           | 27  | 0                          | 121.9                   | 104.3                   | +6.0                 | 27  | 0                             | 17.0            | -                     | 3.04       | -                           | 10         | 0                       |
|   | Month  | 68.9     | 89                    | 17               | 10              | 15.5        | -0.1                    | +6.7           | 16  | 0                          | 343.4                   | 293.8                   | +3.4                 | 16  | 0                             | 17.1            | +0.4                  | 4.20       | 85                          | 9          | 0                       |
| Ferry<br>(Moore Park)<br>Co. Cork           | 1-10   | 111.7    | -                     | 5                | 5               | 15.6        | -                       | +6.0           | 07  | 0                          | 112.3                   | 96.3                    | -0.6                 | 07  | 1                             | -               | -                     | 4.23       | -                           | 4          | -                       |
|   | 11-20  | 15.1     | -                     | 4                | 3               | 15.4        | -                       | +4.5           | 16  | 0                          | 109.7                   | 94.1                    | -1.5                 | 16  | 2                             | -               | -                     | NA         | -                           | 4          | -                       |
|   | 21-end | 9.1      | -                     | 6                | 3               | 15.9        | -                       | +8.5           | 27  | 0                          | 126.2                   | 108.6                   | +1.0                 | 27  | 0                             | -               | -                     | 3.01       | -                           | 4          | -                       |
|   | Month  | 135.9    | -                     | 15               | 11              | 15.6        | -                       | +4.5           | 16  | 0                          | 348.2                   | 299.0                   | -1.5                 | 16  | 3                             | -               | -                     | NA         | -                           | 4          | -                       |
| Mallow<br>Co. Cork                          | 1-10   | 67.9     | -                     | 6                | 6               | 15.5        | -                       | +5.8           | 07  | 0                          | 110.9                   | 94.9                    | +0.2                 | 07  | 0                             | -               | -                     | 2.68       | -                           | -          | -                       |
|   | 11-20  | 15.1     | -                     | 3                | 3               | 14.4        | -                       | +3.4           | 16  | 0                          | 99.9                    | 84.6                    | -0.9                 | 16  | 2                             | -               | -                     | 3.37       | -                           | -          | -                       |
|   | 21-end | 9.3      | -                     | 5                | 2               | 15.5        | -                       | +8.5           | 27  | 0                          | 121.7                   | 104.1                   | +1.2                 | 27  | 0                             | -               | -                     | 2.24       | -                           | -          | -                       |
|   | Month  | 92.3     | 118                   | 14               | 11              | 15.1        | -                       | +3.4           | 16  | 0                          | 332.5                   | 283.6                   | -0.9                 | 16  | 2                             | -               | -                     | 2.75       | -                           | -          | -                       |
| Roche's Point<br>Co. Cork                   | 1-10   | 69.5     | -                     | 7                | 5               | 15.2        | -                       | +9.3           | 07  | 0                          | 107.8                   | 91.8                    | +5.3                 | 05  | 0                             | 17.1            | -                     | 5.12       | -                           | 10         | 0                       |
|   | 11-20  | 35.0     | -                     | 4                | 4               | 14.9        | -                       | +9.3           | 17  | 0                          | 104.6                   | 88.6                    | +6.4                 | 17  | 0                             | 16.2            | -                     | 4.98       | -                           | 9          | 0                       |
|   | 21-end | 3.8      | -                     | 4                | 2               | 15.5        | -                       | +10.6          | 27  | 0                          | 122.0                   | 104.4                   | +8.0                 | 27  | 0                             | 17.1            | -                     | 2.97       | -                           | 11         | 0                       |
|   | Month  | 108.3    | 170                   | 15               | 11              | 15.2        | -0.3                    | +9.3           | 17  | 0                          | 334.4                   | 284.8                   | +5.3                 | 05  | 0                             | 16.8            | +0.3                  | 4.31       | 76                          | 10         | 0                       |
| Glencolumbkille<br>Co. Donegal              | 1-10   | 61.5     | -                     | 9                | 7               | 14.9        | -                       | +10.8          | 07  | 0                          | 105.2                   | 89.2                    | +7.2                 | 07  | 0                             | -               | -                     | 2.82       | -                           | 6          | -                       |
|   | 11-20  | 9.0      | -                     | 4                | 3               | 14.0        | -                       | +9.5           | 20  | 0                          | 95.5                    | 79.5                    | +4.0                 | 20  | 0                             | -               | -                     | 5.12       | -                           | 5          | -                       |
|   | 21-end | 44.0     | -                     | 8                | 7               | 14.4        | -                       | +10.0          | 21  | 0                          | 110.3                   | 92.7                    | +5.4                 | 22  | 0                             | -               | -                     | 4.35       | -                           | 7          | -                       |
|   | Month  | 114.5    | -                     | 21               | 17              | 14.4        | -                       | +9.5           | 20  | 0                          | 311.0                   | 261.4                   | +4.0                 | 20  | 0                             | -               | -                     | 4.11       | -                           | 6          | -                       |
| Glenties<br>Co. Donegal                     | 1-10   | 79.5     | -                     | 9                | 8               | 14.5        | -                       | +7.5           | 07  | 0                          | 100.9                   | 84.9                    | +5.2                 | 02  | 0                             | -               | -                     | 2.26       | -                           | -          | -                       |
|   | 11-20  | 6.8      | -                     | 5                | 1               | 13.0        | -                       | +5.0           | 20  | 0                          | 85.8                    | 70.1                    | +2.2                 | 15  | 0                             | -               | -                     | 4.60       | -                           | -          | -                       |
|   | 21-end | 61.3     | -                     | 9                | 7               | 14.3        | -                       | +8.7           | 29  | 0                          | 109.1                   | 91.5                    | +5.2                 | 22  | 0                             | -               | -                     | 3.40       | -                           | -          | -                       |
|   | Month  | 147.6    | 129                   | 23               | 16              | 13.9        | -                       | +5.0           | 20  | 0                          | 295.8                   | 246.5                   | +2.2                 | 15  | 0                             | -               | -                     | 3.42       | -                           | -          | -                       |
| Malin Head<br>Co. Donegal                   | 1-10   | 61.6     | -                     | 8                | 6               | 14.1        | -                       | +9.9           | 01  | 0                          | 97.0                    | 81.0                    | +8.2                 | 07  | 0                             | 15.5            | -                     | 3.77       | -                           | 12         | 1                       |
|   | 11-20  | 31.9     | -                     | 4                | 2               | 13.0        | -                       | +9.3           | 19  | 0                          | 85.6                    | 69.6                    | +5.1                 | 18  | 0                             | 15.6            | -                     | 5.57       | -                           | 10         | 1                       |
|   | 21-end | 38.3     | -                     | 8                | 8               | 14.2        | -                       | +11.1          | 27  | 0                          | 108.2                   | 90.6                    | +7.1                 | 22  | 0                             | 15.3            | -                     | 3.66       | -                           | 13         | 5                       |
|   | Month  | 131.3    | 160                   | 20               | 16              | 13.8        | -0.4                    | +9.3           | 19  | 0                          | 290.8                   | 241.2                   | +5.1                 | 18  | 0                             | 15.5            | -                     | 4.31       | 91                          | 12         | 7                       |
| Dublin Airport<br>Co. Dublin                | 1-10   | 32.7     | -                     | 6                | 5               | 15.4        | -                       | +7.7           | 07  | 0                          | 110.4                   | 94.4                    | +5.5                 | 07  | 0                             | 17.0            | -                     | 2.89       | -                           | 9          | 0                       |
|   | 11-20  | 21.3     | -                     | 4                | 3               | 14.1        | -                       | +7.2           | 16  | 0                          | 96.9                    | 80.9                    | +5.5                 | 15  | 0                             | 16.0            | -                     | 4.73       | -                           | 8          | 0                       |
|   | 21-end | 12.9     | -                     | 4                | 2               | 14.9        | -                       | +7.9           | 27  | 0                          | 115.9                   | 98.3                    | +5.7                 | 27  | 0                             | 16.3            | -                     | 3.39       | -                           | 8          | 1                       |
|   | Month  | 66.9     | 93                    | 14               | 10              | 14.8        | -0.2                    | +7.2           | 16  | 0                          | 323.2                   | 273.6                   | +5.5                 | 15  | 0                             | 16.4            | 0.0                   | 3.66       | 70                          | 8          | 1                       |
| Kinsealy<br>Co. Dublin                      | 1-10   | 16.8     | -                     | 6                | 5               | 15.5        | -                       | +7.6           | 07  | 0                          | 111.4                   | 95.4                    | +3.6                 | 01  | 0                             | -               | -                     | 2.63       | -                           | 7          | -                       |
|   | 11-20  | 22.5     | -                     | 4                | 4               | 13.7        | -                       | +5.6           | 17  | 0                          | 93.2                    | 77.2                    | -1.5                 | 17  | 1                             | -               | -                     | 4.36       | -                           | 6          | -                       |
|   | 21-end | 11.9     | -                     | 5                | 3               | 15.0        | -                       | +7.8           | 27  | 0                          | 116.6                   | 99.0                    | +4.0                 | 26  | 0                             | -               | -                     | 3.19       | -                           | 7          | -                       |
|   | Month  | 51.2     | -                     | 15               | 12              | 14.8        | -                       | +5.6           | 17  | 0                          | 321.2                   | 271.6                   | -1.5                 | 17  | 1                             | -               | -                     | 3.39       | -                           | 7          | -                       |
| Galway<br>(Univ. Coll.)<br>Co. Galway       | 1-10   | 34.3     | -                     | 7                | 6               | 15.5        | -                       | +11.5          | 10  | 0                          | 111.2                   | 95.2                    |                      |     |                               |                 |                       | 3.18       | -                           | -          | -                       |
|   | 11-20  | 2.5      | -                     | 2                | 2               | 14.7        | -                       | +7.0           | 16  | 0                          | 102.7                   | 86.7                    |                      |     |                               |                 |                       | 4.94       | -                           | NA         | -                       |
|   | 21-end | 41.2     | -                     | 7                | 7               | 15.2        | -                       | +9.4           | 21  | 0                          | 118.3                   | 100.7                   |                      |     |                               |                 |                       | 3.48       | -                           | NA         | -                       |
|   | Month  | 78.0     | -                     | 16               | 15              | 15.1        | -                       | +7.0           | 16  | 0                          | 332.2                   | 282.6                   |                      |     |                               |                 |                       | 3.85       | -                           | -          | -                       |
| Killarney<br>(Nuckcross Hse.)<br>Co. Kerry  | 1-10   | 66.5     | -                     | 7                | 7               | 15.2        | -                       | +8.4           | 07  | 0                          | 108.3                   | 92.3                    | +2.2                 | 07  | 0                             | -               | -                     | 3.85       | -                           | -          | -                       |
|   | 11-20  | 10.2     | -                     | 3                | 2               | 14.3        | -                       | +4.4           | 16  | 0                          | 98.5                    | 82.5                    | -0.5                 | 16  | 1                             | -               | -                     | 3.96       | -                           | -          | -                       |
|   | 21-end | 19.7     | -                     | 8                | 6               | 15.7        | -                       | +7.8           | 21  | 0                          | 124.4                   | 106.8                   | +3.0                 | 21  | 0                             | -               | -                     | 2.74       | -                           | -          | -                       |
|   | Month  | 96.4     | -                     | 18               | 15              | 15.1        | -                       | +4.4           | 16  | 0                          | 331.2                   | 281.6                   | -0.5                 | 16  | 1                             | -               | -                     | 3.51       | -                           | -          | -                       |
| Cahiriveen<br>(Valentia Obsy.)<br>Co. Kerry | 1-10   | 43.9     | -                     | 9                | 7               | 15.2        | -                       | +7.6           | 07  | 0                          | 108.0                   | 92.0                    | +5.9                 | 07  | 0                             | 16.9            | -                     | 3.81       | -                           | 8          | 0                       |
|   | 11-20  | 14.5     | -                     | 5                | 3               | 14.6        | -                       | +4.9           | 16  | 0                          | 101.9                   | 86.2                    | +2.3                 | 16  | 0                             | 16.4            | -                     | 5.60       | -                           | 7          | 0                       |
|   | 21-end | 22.9     | -                     | 7                | 6               | 15.2        | -                       | +8.9           | 21  | 0                          | 119.1                   | 101.5                   | +6.3                 | 21  | 0                             | 16.3            | -                     | 2.35       | -                           | 10         | 1                       |
|   | Month  | 81.3     | 85                    | 21               | 16              | 15.0        | -0.4                    | +4.9           | 16  | 0                          | 329.0                   | 279.7                   | +2.3                 | 16  | 0                             | 16.5            | -0.1                  | 3.87       | 79                          | 8          | 1                       |
| Tralee<br>(Caherweesheen)<br>Co. Kerry      | 1-10   | 36.5     | -                     | 6                | 4               | 16.1        | -                       | +8.3           | 05  | 0                          | 117.1                   | 101.1                   | +4.0                 | 05  | 0                             | -               | -                     | 3.76       | -                           | -          | -                       |
|   | 11-20  | 10.6     | -                     | 3                | 3               | 14.6        | -                       | +4.2           | 16  | 0                          | 102.5                   | 86.9                    | -1.6                 | 16  | 1                             | -               | -                     | 4.25       | -                           | -          | -                       |
|   | 21-end | 25.0     | -                     | 5                | 4               | 15.9        | -                       | +9.0           | 21  | 0                          | 126.3                   | 108.7                   | +5.1                 | 21  | 0                             | -               | -                     | 2.86       | -                           | -          | -                       |
|   | Month  | 72.1     | -                     | 14               | 11              | 15.6        | -                       | +4.2           | 16  | 0                          | 345.9                   | 296.7                   | -1.6                 | 16  | 1                             | -               | -                     | 3.60       | -                           | -          | -                       |
| Lullymore<br>Co. Kildare                    | 1-10   | 44.0     | -                     | 9                | 6               | 14.4        | -                       | +3.8           | 09  | 0                          | 100.0                   | 84.4                    | +4.6                 | 09  | 0                             | -               | -                     | 2.00       | -                           | -          | -                       |
|   | 11-20  | 25.5     | -                     | 4                | 4               | 13.0        | -                       | +3.4           | 16  | 0                          | 85.8                    | 71.2                    | -2.8                 | 16  | 2                             | -               | -                     | 4.07       | -                           | NA         | -                       |
|   | 21-end | 19.0     | -                     | 6                | 4               | 14.9        | -                       | +5.1           | 27  | 0                          | 115.6                   | 98.3                    | +0.9                 | 27  | 0                             | -               | -                     | 3.01       | -                           | -          | -                       |
|   | Month  | 88.5     | -                     | 19               | 14              | 14.1        | -                       | +3.4           | 16  | 0                          | 301.4                   | 253.9                   | -2.8                 | 16  | 2                             | -               | -                     | 3.03       | -                           | -          | -                       |

See January issue of Bulletin for explanatory notes on the tables.

| STATION                                    | PERIOD | RAINFALL |                       |                  |                 | TEMPERATURE |                         |                |     |                            |                         |                         |                      |             |                               | BRIGHT SUNSHINE |                       | WIND       |                             |            |                         |
|--|--------|----------|-----------------------|------------------|-----------------|-------------|-------------------------|----------------|-----|----------------------------|-------------------------|-------------------------|----------------------|-------------|-------------------------------|-----------------|-----------------------|------------|-----------------------------|------------|-------------------------|
|  |        | Amount   | Percentage of Average | No. of Rain Days | No. of Wet Days | AIR         |                         |                |     |                            | GROUND                  |                         |                      | SOIL (10cm) |                               | Mean Daily      | Percentage of Average | Mean Speed | No. of Days with Gale Gusts |            |                         |
|  |        |          |                       |                  |                 | Mean Daily  | Difference from Average | Lowest Minimum | Day | No. of Days with Air Frost | Degree Days Above 4.4°C | Degree Days Above 6.0°C | Lowest Grass Minimum | Day         | No. of Days with Ground Frost |                 |                       |            |                             | Mean Daily | Difference from Average |
|  |        |          |                       |                  |                 |             |                         |                |     |                            |                         |                         |                      |             |                               |                 |                       |            |                             |            |                         |
| Kilkenny<br>Co. Kilkenny                   | 1-10   | 88.4     | -                     | 8                | 6               | 14.8        | -                       | +6.5           | 5   | 0                          | 104.2                   | 88.5                    | +0.9                 | 7           | 0                             | 16.6            | -                     | 2.79       | -                           | 5          | 0                       |
|  | 11-20  | 7.2      | -                     | 4                | 2               | 14.3        | -                       | +2.8           | 16  | 0                          | 98.7                    | 83.1                    | -0.3                 | 16          | 1                             | 16.7            | -                     | 4.35       | -                           | 4          | 0                       |
|  | 21-end | 5.6      | -                     | 6                | 3               | 14.7        | -                       | +4.3           | 27  | 0                          | 112.8                   | 95.6                    | +1.4                 | 27          | 0                             | 16.6            | -                     | 2.46       | -                           | 5          | 0                       |
|  | Month  | 101.2    | 149                   | 18               | 11              | 14.6        | -0.6                    | +2.8           | 16  | 0                          | 315.7                   | 267.2                   | -0.3                 | 16          | 1                             | 16.6            | -0.2                  | 3.18       | 59                          | 5          | 0                       |
| Mooncoin<br>(Silverspring)<br>Co. Kilkenny | 1-10   | 45.7     | -                     | 7                | 3               | 15.0        | -                       | +5.6           | 07  | 0                          | 106.0                   | 90.0                    | 0.0                  | 07          | 1                             | -               | -                     | 3.41       | -                           | -          | -                       |
|  | 11-20  | 29.1     | -                     | 5                | 4               | 14.6        | -                       | +4.5           | 16  | 0                          | 102.1                   | 86.4                    | -1.0                 | 16          | 1                             | -               | -                     | 4.45       | -                           | -          | -                       |
|  | 21-end | 4.0      | -                     | 4                | 2               | 15.4        | -                       | +5.9           | 27  | 0                          | 121.5                   | 103.9                   | 0.0                  | 27          | 1                             | -               | -                     | 3.04       | -                           | -          | -                       |
|  | Month  | 78.8     | -                     | 16               | 9               | 15.0        | -                       | +4.5           | 16  | 0                          | 329.6                   | 280.3                   | -1.0                 | 16          | 3                             | -               | -                     | 3.64       | -                           | -          | -                       |
| Ballinamore<br>Co. Leitrim                 | 1-10   | 83.1     | -                     | 8                | 6               | 14.5        | -                       | +7.0           | 07  | 0                          | 101.0                   | 85.0                    | -0.6                 | 07          | 1                             | -               | -                     | 2.49       | -                           | 5          | -                       |
|  | 11-20  | 12.0     | -                     | 4                | 3               | 13.3        | -                       | +6.0           | 20  | 0                          | 89.2                    | 73.2                    | +1.2                 | 20          | 0                             | -               | -                     | 4.26       | -                           | 4          | -                       |
|  | 21-end | 29.7     | -                     | 8                | 8               | 14.9        | -                       | +8.5           | 27  | 0                          | 115.3                   | 97.7                    | +5.0                 | 22          | 0                             | -               | -                     | 2.78       | -                           | 5          | -                       |
|  | Month  | 124.8    | -                     | 20               | 17              | 14.3        | -                       | +6.0           | 20  | 0                          | 305.5                   | 255.9                   | -0.6                 | 07          | 1                             | -               | -                     | 3.16       | -                           | 5          | -                       |
| Ardee<br>(Boharnamoe)<br>Co. Louth         | 1-10   | 20.5     | -                     | 8                | 5               | 14.9        | -                       | +6.1           | 7   | 0                          | 104.6                   | 93.6                    | +2.0                 | 08          | 0                             | -               | -                     | -          | -                           | -          | -                       |
|  | 11-20  | 23.6     | -                     | 4                | 4               | 12.8        | -                       | +4.1           | 16  | 0                          | 84.1                    | 68.9                    | +0.3                 | 16          | 0                             | -               | -                     | -          | -                           | -          | -                       |
|  | 21-end | 47.0     | -                     | 7                | 5               | 14.4        | -                       | +6.6           | 27  | 0                          | 109.7                   | 92.1                    | +2.9                 | 27          | 0                             | -               | -                     | -          | -                           | -          | -                       |
|  | Month  | 91.1     | -                     | 19               | 14              | 14.0        | -                       | +4.1           | 16  | 0                          | 298.4                   | 254.6                   | +0.3                 | 16          | 0                             | -               | -                     | -          | -                           | -          | -                       |
| Ballinrobe<br>(Creagh)<br>Co. Mayo         | 1-10   | 24.0     | -                     | 8                | 5               | 15.0        | -                       | +8.2           | 07  | 0                          | 106.5                   | 90.5                    | +4.3                 | 07          | 0                             | -               | -                     | 2.95       | -                           | 4          | -                       |
|  | 11-20  | 8.5      | -                     | 3                | 2               | 13.7        | -                       | +5.1           | 16  | 0                          | 93.4                    | 77.7                    | +3.1                 | 16          | 0                             | -               | -                     | 4.63       | -                           | 4          | -                       |
|  | 21-end | 30.3     | -                     | 7                | 5               | 14.7        | -                       | +8.2           | 21  | 0                          | 113.2                   | 95.6                    | +4.2                 | 21          | 0                             | -               | -                     | 3.57       | -                           | 5          | -                       |
|  | Month  | 62.8     | -                     | 18               | 12              | 14.5        | -                       | +5.1           | 16  | 0                          | 313.1                   | 263.8                   | +3.1                 | 16          | 0                             | -               | -                     | 3.71       | -                           | 5          | -                       |
| Belmullet<br>Co. Mayo                      | 1-10   | 72.7     | -                     | 8                | 7               | 14.7        | -                       | +10.8          | 6   | 0                          | 103.1                   | 87.1                    | +8.2                 | 7           | 0                             | 16.7            | -                     | 3.50       | -                           | 8          | 0                       |
|  | 11-20  | 3.3      | -                     | 3                | 2               | 13.8        | -                       | +7.7           | 17  | 0                          | 94.0                    | 78.0                    | +4.6                 | 17          | 0                             | 16.6            | -                     | 6.63       | -                           | 8          | 0                       |
|  | 21-end | 40.7     | -                     | 9                | 7               | 14.2        | -                       | +6.8           | 24  | 0                          | 108.3                   | 90.7                    | +3.3                 | 24          | 0                             | 16.4            | -                     | 5.99       | -                           | 13         | 1                       |
|  | Month  | 116.7    | 131                   | 20               | 16              | 14.3        | -0.4                    | +6.8           | 24  | 0                          | 305.4                   | 255.8                   | +3.3                 | 24          | 0                             | 16.5            | +0.6                  | 5.39       | 105                         | 10         | 1                       |
| Claremorris<br>Co. Mayo                    | 1-10   | 59.5     | -                     | 9                | 6               | 14.8        | -                       | +8.9           | 5   | 0                          | 104.1                   | 88.1                    | +6.0                 | 5           | 0                             | 16.5            | -                     | 2.74       | -                           | 5          | 0                       |
|  | 11-20  | 10.7     | -                     | 4                | 3               | 13.2        | -                       | +4.6           | 16  | 0                          | 87.9                    | 72.2                    | 0.0                  | 16          | 1                             | 15.0            | -                     | 4.19       | -                           | 5          | 0                       |
|  | 21-end | 28.1     | -                     | 8                | 5               | 14.1        | -                       | +6.9           | 22  | 0                          | 106.9                   | 89.3                    | +4.4                 | 30          | 0                             | 15.5            | -                     | 3.21       | -                           | 7          | 1                       |
|  | Month  | 98.3     | 108                   | 21               | 14              | 14.0        | -0.4                    | +4.6           | 16  | 0                          | 298.9                   | 249.6                   | 0.0                  | 16          | 1                             | 15.7            | +0.3                  | 3.37       | 78                          | 6          | 1                       |
| Glenamoy<br>Co. Mayo                       | 1-10   | 35.8     | -                     | 7                | 6               | 14.6        | -                       | +9.2           | 07  | 0                          | 102.2                   | 86.2                    | +6.7                 | 07          | 0                             | -               | -                     | 2.21       | -                           | 7          | -                       |
|  | 11-20  | 8.7      | -                     | 5                | 3               | 13.3        | -                       | +6.4           | 17  | 0                          | 98.6                    | 82.6                    | +4.0                 | 18          | 0                             | -               | -                     | 5.98       | -                           | 7          | -                       |
|  | 21-end | 36.8     | -                     | 9                | 7               | 14.3        | -                       | +6.4           | 24  | 0                          | 109.0                   | 91.4                    | +4.8                 | 24          | 0                             | -               | -                     | 5.41       | -                           | 10         | -                       |
|  | Month  | 81.3     | -                     | 21               | 16              | 14.1        | -                       | +6.4           | 17  | 0                          | 309.8                   | 260.2                   | +4.0                 | 18          | 0                             | -               | -                     | 4.56       | -                           | 8          | -                       |
| Dunsany<br>(Grange)<br>Co. Meath           | 1-10   | 18.0     | -                     | 8                | 5               |             | -                       |                |     |                            |                         | +4.0                    | 10                   | 0           | -                             | -               | -                     | 2.43       | -                           | -          | -                       |
|  | 11-20  | 19.1     | -                     | 4                | 4               |             | -                       |                |     |                            |                         | -1.0                    | 15                   | 1           | -                             | -               | -                     | 4.15       | -                           | NA         | -                       |
|  | 21-end | 26.4     | -                     | 7                | 5               |             | -                       |                |     |                            |                         | NA                      | NA                   | NA          | 0                             | -               | -                     | 2.90       | -                           | NA         | -                       |
|  | Month  | 63.5     | -                     | 19               | 14              |             | -                       |                |     |                            |                         | NA                      | NA                   | NA          | 0                             | -               | -                     | 3.15       | -                           | -          | -                       |
| Clones<br>Co. Monaghan                     | 1-10   | 49.9     | -                     | 6                | 5               | 14.6        | -                       | +9.1           | 7   | 0                          | 101.6                   | 85.6                    | +6.1                 | 7           | 0                             | 15.9            | -                     | 2.50       | -                           | 5          | 0                       |
|  | 11-20  | 19.1     | -                     | 4                | 3               | 13.4        | -                       | +5.8           | 16  | 0                          | 89.7                    | 73.7                    | +2.1                 | 16          | 0                             | 15.2            | -                     | 3.83       | -                           | 5          | 0                       |
|  | 21-end | 34.1     | -                     | 6                | 4               | 14.7        | -                       | +9.3           | 27  | 0                          | 113.2                   | 95.6                    | +5.8                 | 22          | 0                             | 15.7            | -                     | 3.17       | -                           | 6          | 1                       |
|  | Month  | 102.6    | 121                   | 16               | 12              | 14.2        | -0.1                    | +5.8           | 16  | 0                          | 304.5                   | 254.9                   | +2.1                 | 16          | 0                             | 15.6            | -0.1                  | 3.17       | 97                          | 5          | 1                       |
| Birr<br>Co. Offaly                         | 1-10   | 17.4     | -                     | 8                | 6               | 14.9        | -                       | +6.3           | 7   | 0                          | 104.8                   | 88.8                    | +4.3                 | 7           | 0                             | 16.7            | -                     | 2.35       | -                           | 5          | 0                       |
|  | 11-20  | 20.0     | -                     | 4                | 4               | 13.7        | -                       | +3.8           | 16  | 0                          | 93.2                    | 77.6                    | +1.2                 | 16          | 0                             | 16.3            | -                     | 4.41       | -                           | 4          | 0                       |
|  | 21-end | 21.2     | -                     | 7                | 3               | 14.9        | -                       | +6.4           | 27  | 0                          | 115.0                   | 97.4                    | +4.4                 | 27          | 0                             | 16.5            | -                     | 3.13       | -                           | 6          | 1                       |
|  | Month  | 58.6     | 72                    | 19               | 13              | 14.5        | -0.6                    | +3.8           | 16  | 0                          | 313.0                   | 263.8                   | +1.2                 | 16          | 0                             | 16.5            | +0.1                  | 3.29       | 66                          | 5          | 1                       |
| Thurles<br>Co. Tipperary                   | 1-10   | 44.3     | -                     | 9                | 7               | 15.1        | -                       | +5.0           | 07  | 0                          | 106.9                   | 91.2                    | +0.6                 | 07          | 0                             | -               | -                     | 2.45       | -                           | -          | -                       |
|  | 11-20  | 7.2      | -                     | 4                | 4               | 14.5        | -                       | +2.5           | 16  | 0                          | 100.9                   | 85.3                    | -1.7                 | 16          | 1                             | -               | -                     | 3.77       | -                           | -          | -                       |
|  | 21-end | 9.1      | -                     | 5                | 3               | 14.7        | -                       | +6.5           | 27  | 0                          | 113.3                   | 95.7                    | +0.6                 | 27          | 0                             | -               | -                     | 2.88       | -                           | -          | -                       |
|  | Month  | 60.6     | 77                    | 18               | 14              | 14.8        | -0.2                    | +2.5           | 16  | 0                          | 321.1                   | 272.2                   | -1.7                 | 16          | 1                             | -               | -                     | 3.03       | -                           | -          | -                       |
| Dungarvan<br>(Ballygagin)<br>Co. Waterford | 1-10   | 82.8     | -                     | 6                | 4               | 15.4        | -                       | +7.2           | 07  | 0                          | 110.3                   | 94.3                    | -0.5                 | 07          | 1                             | -               | -                     | NA         | -                           | 4          | -                       |
|  | 11-20  | 49.1     | -                     | 5                | 4               | 14.7        | -                       | +5.3           | 16  | 0                          | 103.1                   | 87.4                    | +0.4                 | 17          | 0                             | -               | -                     | 4.60       | -                           | 3          | -                       |
|  | 21-end | 10.2     | -                     | 3                | 3               | 15.5        | -                       | +7.4           | 27  | 0                          | 122.0                   | 104.4                   | +2.4                 | 27          | 0                             | -               | -                     | 2.76       | -                           | 4          | -                       |
|  | Month  | 142.1    | -                     | 14               | 11              | 15.2        | -                       | +5.3           | 16  | 0                          | 335.4                   | 286.1                   | -0.5                 | 07          | 1                             | -               | -                     | NA         | -                           | 3          | -                       |
| Mullingar<br>Co. Westmeath                 | 1-10   | 25.6     | -                     | 8                | 7               | 15.1        | -                       | +6.4           | 07  | 0                          | 106.8                   | 90.8                    | +4.2                 | 7           | 0                             | 16.7            | -                     | 2.22       | -                           | 7          | 0                       |
|  | 11-20  | 7.3      | -                     | 3                | 3               | 13.6        | -                       | +4.3           | 16  | 0                          | 92.4                    | 76.8                    | +1.8                 | 16          | 0                             | 15.9            | -                     | 3.90       | -                           | 6          | 0                       |
|  | 21-end | 45.5     | -                     | 6                | 5               | 15.0        | -                       | +6.5           | 27  | 0                          | 116.4                   | 98.8                    | +3.5                 | 27          | 0                             | 16.4            | -                     | 3.42       | -                           | 8          | 1                       |
|  | Month  | 78.4     | 97                    | 17               | 15              | 14.6        | -0.2                    | +4.3           | 16  | 0                          | 315.6                   | 266.4                   | +1.8                 | 16          | 0                             | 16.3            | +0.3                  | 3.19       | 68                          | 7          | 1                       |
| Campile<br>(Ballysop)<br>Co. Wexford       | 1-10   | 57.4     | -                     | 8                | 6               | 14.9        | -                       | +6.7           | 7   | 0                          | 104.5                   | 88.5                    | +5.3                 | 7           | 0                             | -               | -                     | 3.29       | -                           | -          | -                       |
|  | 11-20  | 27.3     | -                     | 4                | 4               | 14.7        | -                       | +6.1           | 16  | 0                          | 103.2                   | 87.2                    | +2.0                 | 16          | 0                             | -               | -                     | 4.48       | -                           | NA         | -                       |
|  | 21-end | 7.3      | -                     | 4                | 3               | 15.0        | -                       | +5.6           | 27  | 0                          | 116.7                   | 99.1                    | +1.9                 | 27          | 0                             | -               | -                     | 3.41       | -                           | NA         | -                       |
|  | Month  | 92.0     | -                     | 16               | 13              | 14.9        | -                       | +5.6           | 27  | 0                          | 324.4                   | 274.8                   | +1.9                 | 27          | 0                             | -               | -                     | 3.72       | -                           | -          | -                       |

See January issue of Bulletin for explanatory notes on the tables.

TABLE 1. (Continued)

## RAINFALL, TEMPERATURE, SUNSHINE AND WIND

AUGUST 1971

| STATION                         | PERIOD | RAINFALL |                       |                  |                 | TEMPERATURE |                         |                |     |                            |                         |                         |                      |     |                               | BRIGHT SUNSHINE |                       | WIND       |                             |            |                         |
|---------------------------------|--------|----------|-----------------------|------------------|-----------------|-------------|-------------------------|----------------|-----|----------------------------|-------------------------|-------------------------|----------------------|-----|-------------------------------|-----------------|-----------------------|------------|-----------------------------|------------|-------------------------|
|                                 |        | Amount   | Percentage of Average | Ho. of Rain Days | No. of Wet Days | AIR         |                         |                |     |                            | GROUND                  |                         | SOIL (10 cm)         |     |                               | Mean Daily      | Percentage of Average | Mean Speed | No. of Days with Gale Gusts |            |                         |
|                                 |        |          |                       |                  |                 | Mean Daily  | Difference from Average | Lowest Minimum | Day | Ho. of Days with Air Frost | Degree Days Above 4.4°C | Degree Days Above 6.0°C | Lowest Grass Minimum | Day | Ho. of Days with Ground Frost |                 |                       |            |                             | Mean Daily | Difference from Average |
|                                 |        |          |                       |                  |                 |             |                         |                |     |                            |                         |                         |                      |     |                               |                 |                       |            |                             |            |                         |
| Glonroche<br>Co. Wexford        | 1-10   | 50.3     | -                     | 10               | 7               | 14.5        | -                       | +5.4           | 07  | 0                          | 101.4                   | 85.7                    | -1.5                 | 07  | 1                             | -               | -                     | NA         | -                           | 4          | -                       |
|                                 | 11-20  | 25.2     | -                     | 4                | 4               | 14.1        | -                       | +5.6           | 16  | 0                          | 97.0                    | 81.0                    | -2.3                 | 16  | 3                             | -               | -                     | NA         | -                           | 4          | -                       |
|                                 | 21-end | 9.5      | -                     | 4                | 2               | 14.9        | -                       | +5.2           | 27  | 0                          | 115.4                   | 98.1                    | -4.4                 | 27  | 1                             | -               | -                     | 3.20       | -                           | 3          | -                       |
|                                 | Month  | 85.0     | -                     | 18               | 13              | 14.5        | -                       | +5.2           | 27  | 0                          | 313.8                   | 264.8                   | -4.4                 | 27  | 5                             | -               | -                     | NA         | -                           | 3          | -                       |
| Johnstown Castle<br>Co. Wexford | 1-10   | 56.8     | -                     | 7                | 6               | 14.8        | -                       | +7.7           | 7   | 0                          | 104.3                   | 88.3                    | +2.5                 | 7   | 0                             | -               | -                     | 4.04       | -                           | 7          | -                       |
|                                 | 11-20  | 14.3     | -                     | 4                | 3               | 14.3        | -                       | +7.7           | 16  | 0                          | 99.0                    | 83.0                    | +3.4                 | 16  | 0                             | -               | -                     | 5.05       | -                           | 6          | -                       |
|                                 | 21-end | 10.5     | -                     | 5                | 3               | 14.9        | -                       | +7.0           | 27  | 0                          | 115.1                   | 97.5                    | +1.0                 | 27  | 0                             | -               | -                     | 3.65       | -                           | 6          | -                       |
|                                 | Month  | 81.6     | 99                    | 16               | 12              | 14.7        | -                       | +7.0           | 27  | 0                          | 318.4                   | 268.8                   | +1.0                 | 27  | 0                             | -               | -                     | 4.23       | -                           | 6          | -                       |
| Rosslare e<br>Co. Wexford       | 1-10   | 60.5     | -                     | 7                | 3               | 15.4        | -                       | +10.2          | 7   | 0                          | 110.4                   | 94.4                    | +6.5                 | 2   | 0                             | 17.7            | -                     | 5.70       | -                           | 9          | 0                       |
|                                 | 11-20  | 14.6     | -                     | 4                | 3               | 14.6        | -                       | +9.1           | 16  | 0                          | 102.9                   | 86.9                    | +4.3                 | 16  | 0                             | 16.3            | -                     | 5.48       | -                           | 12         | 2                       |
|                                 | 21-end | 8.5      | -                     | 5                | 2               | 14.8        | -                       | +7.5           | 27  | 0                          | 113.9                   | 96.3                    | +6.2                 | 27  | 0                             | 16.9            | -                     | 3.78       | -                           | 10         | 2                       |
|                                 | Month  | 83.6     | 121                   | 16               | 8               | 14.9        | -0.5                    | +7.5           | 27  | 0                          | 327.2                   | 277.6                   | +4.3                 | 16  | 0                             | 17.0            | -0.3                  | 4.95       | 77                          | 10         | 4                       |

TABLE 2.

## SOLAR RADIATION (GLOBAL), POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE

| STATION                                       | PERIOD | SOLAR RADIATION        | P. E.  | SOIL MOISTURE |                     |         |
|---|--------|------------------------|--------|---------------|---------------------|---------|
|   |        | Amount                 | Amount | Deficit       | Accumulated Deficit | Surplus |
|   |        | Joules/cm <sup>2</sup> | mm     | mm            | mm                  | mm      |
| Carlow<br>(Oak Park)<br>Co. Carlow            | 1-10   | -                      | 14     | 0             | 12                  | 35      |
|   | 11-20  | -                      | 15     | 0             | 12                  | 0       |
|   | 21-end | -                      | 15     | 7             | 19                  | 0       |
|   | Month  | -                      | 44     | -             | -                   | -       |
| Kinsealy<br>Co. Dublin                        | 1-10   | 13443                  | 9      | 0             | 48                  | 11      |
|   | 11-20  | 14233                  | 19     | 0             | 40                  | 8       |
|   | 21-end | 12712                  | 23     | 9             | 49                  | 0       |
|   | Month  | 40388                  | 51     | -             | -                   | -       |
| Cahiriveen e<br>(Valentia Obay.)<br>Co. Kerry | 1-10   | 12057                  | 21     | 0             | 10                  | 26      |
|   | 11-20  | 14920                  | 13     | 0             | 6                   | 4       |
|   | 21-end | 11562                  | 20     | 0             | 1                   | 5       |
|   | Month  | 38539                  | 54     | -             | -                   | -       |
| Kilkenny e<br>Co. Kilkenny                    | 1-10   | 12601                  | -      | -             | -                   | -       |
|   | 11-20  | 15635                  | -      | -             | -                   | -       |
|   | 21-end | 11735                  | -      | -             | -                   | -       |
|   | Month  | 39971                  | -      | -             | -                   | -       |
| Ballinamore<br>Co. Leitrim                    | 1-10   | 11072                  | 6      | 0             | 0                   | 77      |
|   | 11-20  | 13364                  | 15     | 3             | 3                   | 0       |
|   | 21-end | 11436                  | 17     | 0             | 0                   | 13      |
|   | Month  | 35872                  | 38     | -             | -                   | -       |
| Glenamoy<br>Co. Mayo                          | 1-10   | 11934                  | 21     | 0             | 9                   | 15      |
|   | 11-20  | 18691                  | 38     | 29            | 38                  | 0       |
|   | 21-end | 13805                  | 31     | 0             | 30                  | 8       |
|   | Month  | 44430                  | 90     | -             | -                   | -       |
| Birr e<br>Co. Offaly                          | 1-10   | 12423                  | -      | -             | -                   | -       |
|   | 11-20  | 14634                  | -      | -             | -                   | -       |
|   | 21-end | 11862                  | -      | -             | -                   | -       |
|   | Month  | 38919                  | -      | -             | -                   | -       |
| Johnstown Castle<br>Co. Wexford               | 1-10   | -                      | 17     | 0             | 0                   | 40      |
|   | 11-20  | -                      | 9      | 0             | 0                   | 5       |
|   | 21-end | -                      | 18     | 9             | 9                   | 0       |
|   | Month  | -                      | 44     | -             | -                   | -       |

See January issue of Bulletin for explanatory notes on the tables.