

# METEOROLOGICAL SERVICE



## AGROMETEOROLOGICAL BULLETIN

JULY 1978

### The Weather of July

On 1st and 2nd conditions were humid with spells of rain. From 3rd to 10th cool westerly or northwesterly winds prevailed. The period 4th to 7th was mostly dry, dull and cool but between 8th and 10th it was close and rainy. Dry, hazy but sunny weather followed between 11th and 14th with light variable or northeasterly winds. Winds returned to a northwesterly direction between 15th and 20th when it was cool, cloudy and mainly dry. Between 21st and 28th the weather was very changeable as winds ranged between south and west in direction. Munster and the southeast of Leinster had heavy rain on 25th and 27th when between 55% and 75% of the monthly total fell. From 29th to 31st there were a few thundery showers here and there as winds became variable and then northerly.

Mean Monthly Rainfall Amounts ranged from less than 50% of normal in the extreme north to about 125% of normal near the south and southeast coasts; the midlands received between 80% and 100% of normal rainfall. This north-south variation was due mainly to the pattern of rainfall on 25th and 27th; then Munster and the south-east corner of Leinster received between 37 mm and 57 mm, the midlands 20 mm to 30 mm while the extreme north had falls amounting to only 5 mm.

Wettest spells of the month were 1st to 3rd, 8th to 10th, 22nd to 23rd, 25th and 27th. Weather favourable to the spread of potato blight occurred on 1st and 2nd, between 8th and 11th and at times between 22nd and 31st when areas near the south coast had lengthy spells of blight weather for the first time this season. The wet spells were favourable to the spread of septoria on cereals. The period 11th to 14th and to a lesser extent 15th to 20th were favourable to the spread of mildew. During the dry spell of 11th to 20th soil moisture deficits ranged 60 mm to 70 mm in most areas; at these levels, grass growth was slow but the rain of the last ten days improved matters.

Mean Monthly Air Temperatures ranged from 0.4°C to 1.1°C below normal. During the first ten days maximum air temperatures were 2°C to 3°C below normal. Only between 11th and 14th and again on 29th were afternoon temperatures above normal. Nights were cool chiefly during the first fortnight. There was slight ground frost in a few places on 7th, 12th, 13th and 24th.

Soil temperatures at 10 cm (4 inches) were also well below normal in most areas. Monthly values ranged from 0.4°C to 1.5°C below normal generally but were just a little below normal in a few places.

Mean Daily Duration of Bright Sunshine varied between 2.9 and 4.7 hours and amounted to only between 60% and 90% of normal.

Strong Winds gusting to between 18 ms<sup>-1</sup> and 28 ms<sup>-1</sup> (35 to 55 kts) in exposed places were recorded between 3rd and 5th, on 22nd, 25th and 27th.

Summary. July was dull and cool but rainfall was below normal in most areas.

The data contained in this Bulletin are provisional. Some of the material in Table 1 will be published in its final form later in the Monthly Weather Report; final values of Solar Radiation at stations; marked "e" in Table 2 will be published in the Annual Summary of Solar Radiation.

TABLE 1

JULY 1978

| STATION                            | PERIOD | RAINFALL (MM.) |              |           |          | TEMPERATURE °C |           |            |                             |             |      |                     |                         |                          |                     |      |                        |            | BRIGHT SUNSHINE   |              | WIND                           |                      |                         |
|------------------------------------|--------|----------------|--------------|-----------|----------|----------------|-----------|------------|-----------------------------|-------------|------|---------------------|-------------------------|--------------------------|---------------------|------|------------------------|------------|-------------------|--------------|--------------------------------|----------------------|-------------------------|
|                                    |        | AMOUNT         | % OF AVERAGE | RAIN DAYS | WET DAYS | AIR            |           |            |                             |             |      | GROUND              |                         |                          | SOIL (10 CM)        |      |                        |            | MEAN DAILY (HRS.) | % OF AVERAGE | MEAN SPEED (ms <sup>-1</sup> ) | DAYS WITH GALE GUSTS |                         |
|                                    |        |                |              |           |          | MEAN MAX.      | MEAN MIN. | MEAN DAILY | AND DIFFERENCE FROM AVERAGE | LOWEST MIN. | DATE | DAYS WITH AIR FROST | DEGREE DAYS ABOVE 2.4°C | DEGREE DAYS ABOVE 10.0°C | LOWEST "GRASS-MIN." | DATE | DAYS WITH GROUND FROST | MEAN DAILY |                   |              |                                |                      | DIFFERENCE FROM AVERAGE |
| Carlow<br>(Oak Park)<br>Co. Carlow | 1-10   | 14.9           | /            | 5         | 3        | 17.1           | 10.3      | 13.7       | /                           | 6.4         | 07   | 0                   | 93                      | 37                       | 1.8                 | 07   | 0                      | /          | /                 | 1.96         | /                              | 4                    | /                       |
|                                    | 11-20  | 1.2            | /            | 1         | 1        | 19.7           | 10.7      | 15.2       | /                           | 9.0         | 18   | 0                   | 108                     | 52                       | 5.2                 | 17   | 0                      | /          | /                 | 5.07         | /                              | 2                    | /                       |
|                                    | 21-end | 36.9           | /            | 6         | 4        | 18.6           | 11.2      | 14.9       | /                           | 7.8         | 25   | 0                   | 116                     | 60                       | 2.5                 | 24   | 0                      | /          | /                 | 4.24         | /                              | 4                    | /                       |
|                                    | Month  | 53.0           | /            | 12        | 8        | 18.5           | 10.7      | 14.6       | /                           | 6.4         | 07   | 0                   | 317                     | 149                      | 1.8                 | 07   | 0                      | /          | /                 | 3.77         | /                              | 3                    | /                       |
| Shannon Airport e<br>Co. Clare     | 1-10   | 14.5           | -            | 7         | 7        | 16.7           | 11.2      | 13.9       | -                           | 8.5         | 06   | 0                   | 96                      | 40                       | 5.5                 | 06   | 0                      | 15.5       | -                 | 2.60         | -                              | 6                    | 1                       |
|                                    | 11-20  | 1.2            | -            | 1         | 0        | 19.5           | 12.0      | 15.8       | -                           | 10.5        | 15   | 0                   | 114                     | 58                       | 7.6                 | 13   | 0                      | 18.1       | -                 | 3.65         | -                              | 4                    | 0                       |
|                                    | 21-end | 62.8           | -            | 7         | 4        | 18.5           | 12.6      | 15.5       | -                           | 11.3        | 31   | 0                   | 123                     | 67                       | 6.6                 | 26   | 0                      | 16.7       | -                 | 2.49         | -                              | 6                    | 0                       |
|                                    | Month  | 78.5           | 112          | 15        | 11       | 18.2           | 12.0      | 15.1       | -0.4                        | 8.5         | 06   | 0                   | 333                     | 165                      | 5.5                 | 06   | 0                      | 16.8       | -0.6              | 2.90         | 62                             | 5                    | 1                       |
| Fermoy<br>(Moore Park)<br>Co. Cork | 1-10   | 10.3           | /            | 5         | 3        | 18.3           | 10.1      | 14.2       | /                           | 7.5         | 06   | 0                   | 98                      | 42                       | 4.3                 | 06   | 0                      | /          | /                 | 3.87         | /                              | 4                    | /                       |
|                                    | 11-20  | 2.7            | /            | 1         | 1        | 19.6           | 9.8       | 14.7       | /                           | 6.0         | 15   | 0                   | 104                     | 48                       | 2.0                 | 15   | 0                      | /          | /                 | 3.47         | /                              | 2                    | /                       |
|                                    | 21-end | 40.5           | /            | 8         | 6        | 18.5           | 10.8      | 14.6       | /                           | 5.4         | 24   | 0                   | 113                     | 57                       | 0.8                 | 24   | 0                      | /          | /                 | 3.23         | /                              | 3                    | /                       |
|                                    | Month  | 53.5           | /            | 14        | 10       | 18.8           | 10.3      | 14.5       | /                           | 5.4         | 24   | 0                   | 315                     | 147                      | 0.8                 | 24   | 0                      | /          | /                 | 3.51         | /                              | 3                    | /                       |
| Mallow<br>Co. Cork                 | 1-10   | 8.3            | -            | 4         | 2        | 17.6           | 10.3      | 14.0       | /                           | 7.5         | 07   | 0                   | 96                      | 40                       | 4.0                 | 04   | 0                      | /          | /                 | 3.40         | /                              | /                    | /                       |
|                                    | 11-20  | 3.0            | -            | 1         | 1        | 19.4           | 10.0      | 14.7       | /                           | 6.5         | 15   | 0                   | 103                     | 47                       | 2.3                 | 15   | 0                      | /          | /                 | 3.63         | /                              | /                    | /                       |
|                                    | 21-end | 34.0           | -            | 8         | 4        | 19.0           | 10.7      | 14.9       | /                           | 6.5         | 24   | 0                   | 115                     | 59                       | 0.0                 | 24   | 0                      | /          | /                 | 3.20         | /                              | /                    | /                       |
|                                    | Month  | 45.3           | 71           | 13        | 7        | 18.7           | 10.4      | 14.5       | /                           | 6.5         | 15   | 0                   | 314                     | 146                      | 0.0                 | 24   | 0                      | /          | /                 | 3.40         | /                              | /                    | /                       |
| Roche's Point e<br>Co. Cork        | 1-10   | 11.0           | -            | 4         | 3        | 18.0           | 11.1      | 14.5       | -                           | 9.6         | 04   | 0                   | 101                     | 45                       | 6.5                 | 07   | 0                      | 16.7       | -                 | 4.44         | -                              | 8                    | 4                       |
|                                    | 11-20  | 6.1            | -            | 2         | 1        | 17.0           | 11.9      | 14.4       | -                           | 10.9        | 15   | 0                   | 101                     | 45                       | 6.3                 | 17   | 0                      | 17.6       | -                 | 5.14         | -                              | 5                    | 1                       |
|                                    | 21-end | 65.3           | -            | 7         | 5        | 16.2           | 12.0      | 14.1       | -                           | 10.0        | 24   | 0                   | 107                     | 51                       | 6.0                 | 24   | 0                      | 15.9       | -                 | 4.41         | -                              | 7                    | 2                       |
|                                    | Month  | 82.4           | 123          | 13        | 9        | 17.0           | 11.6      | 14.3       | -0.9                        | 9.6         | 04   | 0                   | 309                     | 141                      | 6.0                 | 24   | 0                      | 16.7       | -0.4              | 4.65         | 82                             | 7                    | 7                       |
| Glencolumbkille<br>Co. Donegal     | 1-10   | 42.9           | /            | 9         | 9        | 14.3           | 10.1      | 12.2       | /                           | 8.7         | 05   | 0                   | 78                      | 22                       | 7.0                 | 06   | 0                      | /          | /                 | 2.34         | /                              | 4                    | /                       |
|                                    | 11-20  | 7.5            | /            | 6         | 3        | 17.0           | 10.8      | 13.9       | /                           | 8.5         | 13   | 0                   | 95                      | 39                       | 3.5                 | 13   | 0                      | /          | /                 | 6.02         | /                              | 3                    | /                       |
|                                    | 21-end | 45.9           | /            | 10        | 10       | 17.3           | 11.7      | 14.5       | /                           | 10.3        | 24   | 0                   | 112                     | 56                       | 8.5                 | 26   | 0                      | /          | /                 | 3.67         | /                              | 3                    | /                       |
|                                    | Month  | 96.3           | /            | 25        | 22       | 16.3           | 10.9      | 13.6       | /                           | 8.5         | 13   | 0                   | 285                     | 117                      | 3.5                 | 13   | 0                      | /          | /                 | 4.00         | /                              | 3                    | /                       |
| Glenties<br>Co. Donegal            | 1-10   | 44.9           | -            | 9         | 8        | 14.6           | 9.8       | 12.2       | /                           | 7.8         | 03   | 0                   | 78                      | 22                       | 5.0                 | 06   | 0                      | /          | /                 | 2.54         | /                              | /                    | /                       |
|                                    | 11-20  | 8.4            | -            | 6         | 3        | 16.9           | 9.5       | 13.2       | /                           | 6.4         | 14   | 0                   | 88                      | 32                       | 1.0                 | 14   | 0                      | /          | /                 | 5.13         | /                              | /                    | /                       |
|                                    | 21-end | 37.6           | -            | 6         | 8        | 17.9           | 11.6      | 14.7       | /                           | 9.8         | 24   | 0                   | 114                     | 58                       | 5.2                 | 26   | 0                      | /          | /                 | 3.45         | /                              | /                    | /                       |
|                                    | Month  | 90.9           | 79           | 25        | 19       | 16.5           | 10.3      | 13.4       | /                           | 6.4         | 14   | 0                   | 280                     | 112                      | 1.0                 | 14   | 0                      | /          | /                 | 3.70         | /                              | /                    | /                       |

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TABLE 1 (Continued)

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| STATION                                     | PERIOD | RAINFALL (MM.) |              |           |          | TEMPERATURE °C |           |            |                             |             |      |                     |                         |                          |                     |              |                        |            |                         | BRIGHT SUNSHINE   |              | WIND                           |                      |
|---|--------|----------------|--------------|-----------|----------|----------------|-----------|------------|-----------------------------|-------------|------|---------------------|-------------------------|--------------------------|---------------------|--------------|------------------------|------------|-------------------------|-------------------|--------------|--------------------------------|----------------------|
|   |        | AMOUNT         | % OF AVERAGE | RAIN DAYS | WET DAYS | AIR            |           |            |                             |             |      |                     | GROUND                  |                          |                     | SOIL (10 CM) |                        |            |                         | MEAN DAILY (HRS.) | % OF AVERAGE | MEAN SPEED (ms <sup>-1</sup> ) | DAYS WITH GALE GUSTS |
|   |        |                |              |           |          | MEAN MAX.      | MEAN MIN. | MEAN DAILY | AND DIFFERENCE FROM AVERAGE | LOWEST MIN. | DATE | DAYS WITH AIR FROST | DEGREE DAYS ABOVE 4.4°C | DEGREE DAYS ABOVE 10.0°C | LOWEST "GRASS-MIN." | DATE         | DAYS WITH GROUND FROST | MEAN DAILY | DIFFERENCE FROM AVERAGE |                   |              |                                |                      |
| Malin Head<br>Co. Donegal                   | 1-10   | 27.0           | -            | 7         | 7        | 13.3           | 9.9       | 11.6       | -                           | 8.8         | 05   | 0                   | 73                      | 17                       | 7.4                 | 03           | 0                      | 13.3       | -                       | 2.44              | -            | 8                              | 3                    |
|   | 11-20  | 3.6            | -            | 4         | 2        | 14.8           | 10.9      | 12.9       | -                           | 10.0        | 12   | 0                   | 85                      | 29                       | 6.0                 | 11           | 0                      | 16.7       | -                       | 4.63              | -            | 5                              | 0                    |
|   | 21-end | 7.7            | -            | 8         | 2        | 17.3           | 11.7      | 14.5       | -                           | 6.5         | 21   | 0                   | 111                     | 55                       | 2.3                 | 21           | 0                      | 16.3       | -                       | 3.14              | -            | 7                              | 6                    |
|   | Month  | 38.3           | 45           | 19        | 11       | 15.2           | 10.9      | 13.1       | -0.9                        | 6.5         | 21   | 0                   | 269                     | 101                      | 2.3                 | 21           | 0                      | 15.5       | -0.1                    | 3.39              | 74           | 7                              | 9                    |
| Dublin Airport<br>Co. Dublin                | 1-10   | 24.5           | -            | 8         | 5        | 16.5           | 10.2      | 13.3       | -                           | 7.0         | 07   | 0                   | 90                      | 34                       | 5.8                 | 06           | 0                      | 14.9       | -                       | 2.67              | -            | 6                              | 1                    |
|   | 11-20  | 1.0            | -            | 1         | 1        | 18.2           | 10.2      | 14.2       | -                           | 8.2         | 12   | 0                   | 98                      | 42                       | 3.2                 | 12           | 0                      | 18.0       | -                       | 5.48              | -            | 3                              | 0                    |
|   | 21-end | 24.2           | -            | 5         | 2        | 19.5           | 12.0      | 15.7       | -                           | 9.5         | 24   | 0                   | 126                     | 70                       | 5.9                 | 25           | 0                      | 17.3       | -                       | 4.84              | -            | 5                              | 0                    |
|   | Month  | 49.7           | 81           | 14        | 8        | 18.1           | 10.8      | 14.5       | -0.6                        | 7.0         | 07   | 0                   | 314                     | 146                      | 3.2                 | 12           | 0                      | 16.7       | -0.7                    | 4.35              | 84           | 5                              | 1                    |
| Kinsealy<br>Co. Dublin                      | 1-10   | 30.3           | /            | 7         | 5        | 16.7           | 9.9       | 13.3       | /                           | 7.0         | 07   | 0                   | 89                      | 33                       | 5.5                 | 06           | 0                      | /          | /                       | 2.92              | /            | 4                              | /                    |
|   | 11-20  | 0              | /            | 0         | 0        | 18.2           | 8.4       | 13.3       | /                           | 5.8         | 13   | 0                   | 89                      | 33                       | 3.0                 | 13           | 0                      | /          | /                       | 5.28              | /            | 3                              | /                    |
|   | 21-end | 24.0           | /            | 4         | 3        | 19.4           | 11.2      | 15.3       | /                           | 8.1         | 25   | 0                   | 120                     | 64                       | 3.4                 | 25           | 0                      | /          | /                       | 4.96              | /            | 4                              | /                    |
|   | Month  | 54.3           | /            | 11        | 8        | 18.1           | 9.8       | 14.0       | /                           | 5.8         | 13   | 0                   | 298                     | 130                      | 3.0                 | 13           | 0                      | /          | /                       | 4.41              | /            | 4                              | /                    |
| Lucan<br>(U.C.D. Field Stn.)<br>Co. Dublin  | 1-10   | 22.3           | /            | 7         | 7        | 16.3           | 10.0      | 13.2       | /                           | 6.3         | 07   | 0                   | 88                      | 32                       | 4.9                 | 07           | 0                      | /          | /                       | 2.80              | /            | 3                              | /                    |
|   | 11-20  | 1.4            | /            | 1         | 1        | 18.6           | 9.4       | 14.0       | /                           | 6.1         | 13   | 0                   | 97                      | 41                       | 2.4                 | 13           | 0                      | /          | /                       | 5.98              | /            | 1                              | /                    |
|   | 21-end | 22.4           | /            | 5         | 5        | NA             | NA        | -          | /                           | NA          | -    | NA                  | NA                      | NA                       | NA                  | -            | -                      | /          | /                       | NA                | /            | 3                              | /                    |
|   | Month  | 46.1           | /            | 13        | 13       | -              | -         | -          | /                           | -           | -    | -                   | -                       | -                        | -                   | -            | -                      | -          | /                       | /                 | -            | /                              | 2                    |
| Galway<br>(Univ. Coll.)<br>Co. Galway       | 1-10   | 10.8           | /            | 5         | 3        | 16.1           | 11.5      | 13.8       | /                           | 9.5         | 07   | 0                   | 94                      | 38                       | 3.5                 | 07           | 0                      | /          | /                       | 3.41              | /            | NA                             | /                    |
|   | 11-20  | 4.2            | /            | 1         | 1        | 18.9           | 12.2      | 15.6       | /                           | 10.2        | 20   | 0                   | 112                     | 56                       | 4.5                 | 16           | 0                      | /          | /                       | 4.14              | /            | NA                             | /                    |
|   | 21-end | 41.6           | /            | 10        | 8        | 17.6           | 12.5      | 15.0       | /                           | 11.0        | 24   | 0                   | 117                     | 61                       | 5.5                 | 21           | 0                      | /          | /                       | 4.37              | /            | NA                             | /                    |
|   | Month  | 56.6           | /            | 16        | 12       | 17.5           | 12.1      | 14.8       | /                           | 9.5         | 07   | 0                   | 323                     | 155                      | 3.5                 | 07           | 0                      | /          | /                       | 3.99              | /            | NA                             | /                    |
| Killarney<br>(Muckross Hse)<br>Co. Kerry    | 1-10   | 19.0           | /            | 6         | 4        | 15.7           | 11.1      | 13.4       | /                           | 9.0         | 07   | 0                   | 90                      | 34                       | NA                  | -            | -                      | /          | /                       | 2.56              | /            | NA                             | /                    |
|   | 11-20  | 6.0            | /            | 4         | 2        | 18.2           | 10.9      | 14.6       | /                           | 9.0         | 15   | 0                   | 102                     | 46                       | NA                  | -            | -                      | /          | /                       | 3.85              | /            | NA                             | /                    |
|   | 21-end | 56.9           | /            | 9         | 9        | 17.4           | 12.6      | 15.0       | /                           | 11.0        | 26   | 0                   | 117                     | 61                       | NA                  | -            | -                      | /          | /                       | 2.93              | /            | NA                             | /                    |
|   | Month  | 81.9           | /            | 19        | 15       | 17.1           | 11.6      | 14.3       | /                           | 9.0         | 07   | 0                   | 309                     | 141                      | NA                  | -            | -                      | /          | /                       | 3.11              | /            | NA                             | /                    |
| Cahiriveen<br>(Valentia Obsy.)<br>Co. Kerry | 1-10   | 12.8           | -            | 7         | 3        | 14.7           | 11.2      | 13.0       | -                           | 9.6         | 07   | 0                   | 86                      | 30                       | 7.0                 | 07           | 0                      | 14.6       | -                       | 1.98              | -            | 6                              | 3                    |
|   | 11-20  | 10.7           | -            | 6         | 4        | 17.8           | 10.5      | 14.1       | -                           | 8.3         | 13   | 0                   | 97                      | 41                       | 6.2                 | 13           | 0                      | 17.0       | -                       | 4.48              | -            | 3                              | 0                    |
|   | 21-end | 72.7           | -            | 7         | 7        | 17.0           | 12.2      | 14.6       | -                           | 11.3        | 24   | 0                   | 112                     | 56                       | 8.0                 | 26           | 0                      | 16.2       | -                       | 3.46              | -            | 6                              | 2                    |
|   | Month  | 96.2           | 102          | 20        | 14       | 16.5           | 11.4      | 13.9       | -1.1                        | 8.3         | 13   | 0                   | 295                     | 127                      | 6.2                 | 13           | 0                      | 15.9       | -1.2                    | 3.31              | 71           | 5                              | 5                    |

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TABLE 1 (Continued)

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| STATION                                    | PERIOD | RAINFALL (MM.) |              |           |          | TEMPERATURE °C |           |            |                         |             |      |                     |                         |                          |                     |      |                        |            | BRIGHT SUNSHINE   |              | WIND                           |                      |                         |
|--|--------|----------------|--------------|-----------|----------|----------------|-----------|------------|-------------------------|-------------|------|---------------------|-------------------------|--------------------------|---------------------|------|------------------------|------------|-------------------|--------------|--------------------------------|----------------------|-------------------------|
|  |        | AMOUNT         | % OF AVERAGE | RAIN DAYS | WET DAYS | MEAN MAX.      | MEAN MIN. | MEAN DAILY | AIR                     |             |      |                     |                         | GROUND                   |                     |      | SOIL (10 CM)           |            | MEAN DAILY (HRS.) | % OF AVERAGE | MEAN SPEED (ms <sup>-1</sup> ) | DAYS WITH GALE GUSTS |                         |
|  |        |                |              |           |          |                |           |            | DIFFERENCE FROM AVERAGE | LOWEST MIN. | DATE | DAYS WITH AIR FROST | DEGREE DAYS ABOVE 4.4°C | DEGREE DAYS ABOVE 10.0°C | LOWEST "GRASS-MIN." | DATE | DAYS WITH GROUND FROST | MEAN DAILY |                   |              |                                |                      | DIFFERENCE FROM AVERAGE |
| Tralee<br>(Caherwarsheen)<br>Co. Kerry     | 1-10   | 18.2           | /            | 6         | 4        | 16.0           | 11.6      | 13.8       | /                       | 9.9         | 05   | 0                   | 94                      | 38                       | 7.8                 | 07   | 0                      | /          | /                 | 1.37         | /                              | /                    | /                       |
|  | 11-20  | 4.2            | /            | 4         | 2        | 18.3           | 9.9       | 14.1       | /                       | 9.7         | 13   | 0                   | 102                     | 46                       | 5.2                 | 13   | 0                      | /          | /                 | 2.72         | /                              | /                    | /                       |
|  | 21-end | 58.6           | /            | 9         | 7        | 18.1           | 12.6      | 15.3       | /                       | 11.6        | 24   | 0                   | 120                     | 64                       | 6.9                 | 24   | 0                      | /          | /                 | 3.51         | /                              | /                    | /                       |
|  | Month  | 81.0           | /            | 19        | 13       | 17.5           | 11.4      | 14.4       | /                       | 9.7         | 13   | 0                   | 316                     | 148                      | 5.2                 | 13   | 0                      | /          | /                 | 2.56         | /                              | /                    | /                       |
| Lullymore<br>Co. Kildare                   | 1-10   | 28.8           | /            | 7         | 6        | 16.3           | 9.5       | 12.9       | /                       | 4.1         | 07   | 0                   | 86                      | 30                       | -1.8                | 07   | 1                      | /          | /                 | 2.35         | /                              | 5                    | /                       |
|  | 11-20  | 0.5            | /            | 2         | 0        | NA             | 8.9       | -          | /                       | 5.1         | 13   | 0                   | NA                      | NA                       | 2.6                 | 15   | 0                      | /          | /                 | 4.63         | /                              | NA                   | /                       |
|  | 21-end | 32.2           | /            | 8         | 5        | 18.7           | NA        | -          | /                       | NA          | -    | -                   | NA                      | NA                       | NA                  | -    | -                      | /          | /                 | NA           | /                              | NA                   | /                       |
|  | Month  | 61.5           | /            | 17        | 11       | -              | -         | -          | /                       | -           | -    | -                   | -                       | -                        | NA                  | -    | -                      | /          | /                 | NA           | /                              | NA                   | /                       |
| Kilkenny e<br>Co. Kilkenny                 | 1-10   | 8.8            | -            | 5         | 3        | 17.4           | 10.4      | 13.9       | -                       | 7.0         | 07   | 0                   | 95                      | 39                       | 3.2                 | 07   | 0                      | 15.5       | -                 | 2.36         | -                              | 4                    | 3                       |
|  | 11-20  | 1.7            | -            | 1         | 1        | 19.9           | 10.2      | 15.1       | -                       | 7.1         | 15   | 0                   | 107                     | 51                       | 4.0                 | 15   | 0                      | 18.9       | -                 | 3.82         | -                              | 2                    | 0                       |
|  | 21-end | 41.1           | -            | 6         | 5        | 19.0           | 10.8      | 14.9       | -                       | 5.4         | 25   | 0                   | 116                     | 60                       | 1.6                 | 25   | 0                      | 16.8       | -                 | 3.25         | -                              | 4                    | 0                       |
|  | Month  | 51.6           | 82           | 12        | 9        | 18.8           | 10.5      | 14.6       | -0.7                    | 5.4         | 25   | 0                   | 318                     | 150                      | 1.6                 | 25   | 0                      | 17.0       | -1.0              | 3.15         | 64                             | 3                    | 3                       |
| Mooncoin<br>(Silverspring)<br>Co. Kilkenny | 1-10   | 12.9           | /            | 7         | 5        | 17.8           | 10.5      | 14.2       | /                       | 7.0         | 07   | 0                   | 98                      | 42                       | 2.7                 | 07   | 0                      | /          | /                 | 2.99         | /                              | /                    | /                       |
|  | 11-20  | 0.8            | /            | 1         | 0        | 19.3           | 9.6       | 14.4       | /                       | 5.0         | 17   | 0                   | 100                     | 44                       | 0.0                 | 17   | 0                      | /          | /                 | 4.14         | /                              | /                    | /                       |
|  | 21-end | 65.1           | /            | 5         | 4        | 18.4           | 10.7      | 14.5       | /                       | 5.1         | 24   | 0                   | 112                     | 56                       | 1.7                 | 24   | 0                      | /          | /                 | 2.96         | /                              | /                    | /                       |
|  | Month  | 78.8           | /            | 13        | 9        | 18.5           | 10.3      | 14.4       | /                       | 5.0         | 17   | 0                   | 310                     | 142                      | 0.0                 | 17   | 0                      | /          | /                 | 3.35         | /                              | /                    | /                       |
| Ballinamore<br>Co. Leitrim                 | 1-10   | 21.0           | /            | 8         | 6        | 15.8           | 10.1      | 13.0       | /                       | 7.8         | 06   | 0                   | 86                      | 30                       | 2.2                 | 06   | 0                      | /          | /                 | 2.77         | /                              | /                    | /                       |
|  | 11-20  | 1.4            | /            | 3         | 0        | 19.0           | 9.8       | 14.4       | /                       | 5.2         | 12   | 0                   | 101                     | 45                       | -0.9                | 12   | 1                      | /          | /                 | 5.13         | /                              | NA                   | /                       |
|  | 21-end | 37.7           | /            | 10        | 8        | 18.2           | 11.2      | 14.7       | /                       | 8.0         | 24   | 0                   | 113                     | 57                       | 1.6                 | 24   | 0                      | /          | /                 | 3.25         | /                              | NA                   | /                       |
|  | Month  | 60.1           | /            | 21        | 14       | 17.7           | 10.4      | 14.0       | /                       | 5.2         | 12   | 0                   | 300                     | 132                      | -0.9                | 12   | 1                      | /          | /                 | 3.70         | /                              | NA                   | /                       |
| Ardee<br>(Boharnamoe)<br>Co. Louth         | 1-10   | 23.1           | /            | 6         | 6        | 16.2           | 9.2       | 12.7       | /                       | 6.2         | 07   | 0                   | 83                      | 27                       | 3.4                 | 07   | 0                      | /          | /                 | /            | /                              | /                    | /                       |
|  | 11-20  | 4.1            | /            | 1         | 1        | 19.1           | NA        | NA         | /                       | NA          | NA   | NA                  | NA                      | NA                       | 3.2                 | 16   | 0                      | /          | /                 | /            | /                              | /                    | /                       |
|  | 21-end | NA             | /            | NA        | NA       | NA             | NA        | NA         | /                       | NA          | NA   | NA                  | NA                      | NA                       | NA                  | NA   | NA                     | /          | /                 | /            | /                              | /                    | /                       |
|  | Month  | -              | /            | -         | -        | -              | -         | -          | /                       | -           | -    | -                   | -                       | -                        | -                   | -    | -                      | /          | /                 | /            | /                              | /                    | /                       |
| Ballinrobe<br>(Creagh)<br>Co. Mayo         | 1-10   | 7.9            | /            | 5         | 3        | 17.4           | 11.3      | 14.4       | /                       | 9.2         | 04   | 0                   | 100                     | 44                       | 6.4                 | 07   | 0                      | /          | /                 | 3.45         | /                              | /                    | /                       |
|  | 11-20  | 0.2            | /            | 0         | 0        | 18.6           | 11.1      | 14.8       | /                       | 8.6         | 15   | 0                   | 105                     | 49                       | 5.2                 | 15   | 0                      | /          | /                 | 4.29         | /                              | /                    | /                       |
|  | 21-end | 51.0           | /            | 8         | 6        | 17.9           | 11.6      | 14.8       | /                       | 10.1        | 21   | 0                   | 114                     | 58                       | 6.2                 | 26   | 0                      | /          | /                 | 4.21         | /                              | /                    | /                       |
|  | Month  | 59.1           | /            | 13        | 9        | 18.0           | 11.3      | 14.7       | /                       | 8.6         | 15   | 0                   | 319                     | 151                      | 5.2                 | 15   | 0                      | /          | /                 | 3.99         | /                              | /                    | /                       |

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TABLE 1 (Continued)

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| STATION                          | PERIOD | RAINFALL (MM.) |              |           |          | TEMPERATURE °C |           |            |                             |             |      |                     |                         |                          |                     |              |                        |            |                         | BRIGHT SUNSHINE   |              | WIND                           |                      |
|----------------------------------|--------|----------------|--------------|-----------|----------|----------------|-----------|------------|-----------------------------|-------------|------|---------------------|-------------------------|--------------------------|---------------------|--------------|------------------------|------------|-------------------------|-------------------|--------------|--------------------------------|----------------------|
|                                  |        | AMOUNT         | % OF AVERAGE | RAIN DAYS | WET DAYS | AIR            |           |            |                             |             |      |                     | GROUND                  |                          |                     | SOIL (10 CM) |                        |            |                         | MEAN DAILY (HRS.) | % OF AVERAGE | MEAN SPEED (ms <sup>-1</sup> ) | DAYS WITH GALE GUSTS |
|                                  |        |                |              |           |          | MEAN MAX.      | MEAN MIN. | MEAN DAILY | AND DIFFERENCE FROM AVERAGE | LOWEST MIN. | DATE | DAYS WITH AIR FROST | DEGREE DAYS ABOVE 4.4°C | DEGREE DAYS ABOVE 10.0°C | LOWEST "GRASS-MIN." | DATE         | DAYS WITH GROUND FROST | MEAN DAILY | DIFFERENCE FROM AVERAGE |                   |              |                                |                      |
| Belmullet e<br>Co. Mayo          | 1-10   | 28.8           | -            | 6         | 6        | 14.5           | 10.8      | 12.6       | -                           | 9.5         | 03   | 0                   | 83                      | 27                       | 7.6                 | 07           | 0                      | 14.5       | -                       | 1.97              | -            | 7                              | 2                    |
|                                  | 11-20  | 3.9            | -            | 5         | 2        | 16.4           | 11.0      | 13.7       | -                           | 8.6         | 12   | 0                   | 93                      | 37                       | 5.0                 | 12           | 0                      | 17.4       | -                       | 4.45              | -            | 4                              | 0                    |
|                                  | 21-end | 27.5           | -            | 8         | 6        | 16.6           | 12.0      | 14.3       | -                           | 10.0        | 21   | 0                   | 109                     | 53                       | 7.0                 | 31           | 0                      | 16.3       | -                       | 4.47              | -            | 8                              | 5                    |
|                                  | Month  | 60.2           | 77           | 19        | 14       | 15.9           | 11.3      | 13.6       | -0.8                        | 8.6         | 12   | 0                   | 285                     | 117                      | 5.0                 | 12           | 0                      | 16.1       | -0.3                    | 3.66              | 76           | 6                              | 7                    |
| Claremorris e<br>Co. Mayo        | 1-10   | 24.7           | -            | 7         | 5        | 15.9           | 10.0      | 12.9       | -                           | 6.6         | 07   | 0                   | 88                      | 32                       | 4.2                 | 07           | 0                      | 14.3       | -                       | 2.55              | -            | 5                              | 3                    |
|                                  | 11-20  | 2.9            | -            | 3         | 1        | 18.1           | 10.6      | 14.4       | -                           | 7.8         | 12   | 0                   | 100                     | 44                       | 6.1                 | 12           | 0                      | 16.8       | -                       | 3.67              | -            | 3                              | 0                    |
|                                  | 21-end | 35.7           | -            | 9         | 7        | 17.7           | 11.1      | 14.4       | -                           | 9.4         | 26   | 0                   | 111                     | 55                       | 7.0                 | 26           | 0                      | 15.6       | -                       | 3.28              | -            | 6                              | 2                    |
|                                  | Month  | 63.3           | 77           | 19        | 13       | 17.3           | 10.6      | 13.9       | -0.5                        | 6.6         | 07   | 0                   | 299                     | 131                      | 4.2                 | 07           | 0                      | 15.6       | -0.5                    | 3.17              | 78           | 5                              | 5                    |
| Glenamoy<br>Co. Mayo             | 1-10   | 33.9           | /            | 6         | 5        | 14.8           | 10.3      | 12.5       | /                           | 8.6         | 06   | 0                   | 82                      | 26                       | 6.2                 | 06           | 0                      | /          | /                       | 2.04              | /            | /                              | /                    |
|                                  | 11-20  | 11.2           | /            | 5         | 3        | 17.0           | 10.3      | 13.6       | /                           | 5.9         | 12   | 0                   | 93                      | 37                       | 3.5                 | 12           | 0                      | /          | /                       | 4.63              | /            | /                              | /                    |
|                                  | 21-end | 58.6           | /            | 9         | 9        | 17.2           | 11.2      | 14.2       | /                           | 8.9         | 31   | 0                   | 108                     | 52                       | 6.0                 | 31           | 0                      | /          | /                       | 3.90              | /            | NA                             | /                    |
|                                  | Month  | 103.7          | /            | 20        | 17       | 16.3           | 10.6      | 13.5       | /                           | 5.9         | 12   | 0                   | 283                     | 115                      | 3.5                 | 12           | 0                      | /          | /                       | 3.54              | /            | /                              | /                    |
| Dunsany<br>(Grange)<br>Co. Meath | 1-10   | /              | /            | /         | /        | /              | /         | /          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /          | /                       | /                 | /            | /                              | /                    |
|                                  | 11-20  | /              | /            | /         | /        | /              | /         | /          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /          | /                       | /                 | /            | /                              | /                    |
|                                  | 21-end | /              | /            | /         | /        | /              | /         | /          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /          | /                       | /                 | /            | /                              | /                    |
|                                  | Month  | /              | /            | /         | /        | /              | /         | /          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /          | /                       | /                 | /            | /                              | /                    |
| Clones e<br>Co. Monaghan         | 1-10   | 33.8           | -            | 7         | 6        | 15.0           | 9.6       | 12.3       | -                           | 6.6         | 07   | 0                   | 79                      | 23                       | 5.0                 | 03           | 0                      | 13.7       | -                       | 2.72              | -            | 5                              | 4                    |
|                                  | 11-20  | 1.2            | -            | 2         | 0        | 18.6           | 9.9       | 14.3       | -                           | 6.2         | 12   | 0                   | 99                      | 43                       | 1.5                 | 12           | 0                      | 16.2       | -                       | 5.28              | -            | 3                              | 0                    |
|                                  | 21-end | 26.4           | -            | 8         | 6        | 18.2           | 11.3      | 14.7       | -                           | 8.2         | 24   | 0                   | 114                     | 58                       | 4.5                 | 24           | 0                      | 15.5       | -                       | 2.64              | -            | 5                              | 2                    |
|                                  | Month  | 61.4           | 77           | 17        | 12       | 17.3           | 10.3      | 13.8       | -0.6                        | 6.2         | 12   | 0                   | 292                     | 124                      | 1.5                 | 12           | 0                      | 15.1       | -1.3                    | 3.51              | 90           | 4                              | 6                    |
| Birr e<br>Co. Offaly             | 1-10   | 21.5           | -            | 8         | 5        | 16.2           | 9.7       | 12.9       | -                           | 6.5         | 07   | 0                   | 86                      | 30                       | 3.1                 | 07           | 0                      | 14.8       | -                       | 2.33              | -            | 5                              | 2                    |
|                                  | 11-20  | 9.5            | -            | 2         | 1        | 18.9           | 11.2      | 15.0       | -                           | 8.8         | 15   | 0                   | 107                     | 51                       | 6.1                 | 15           | 0                      | 17.9       | -                       | 3.58              | -            | 2                              | 0                    |
|                                  | 21-end | 35.7           | -            | 7         | 4        | 18.5           | 11.1      | 14.8       | -                           | 8.1         | 26   | 0                   | 115                     | 59                       | 3.7                 | 26           | 0                      | 16.0       | -                       | 2.67              | -            | 5                              | 2                    |
|                                  | Month  | 66.7           | 90           | 17        | 10       | 17.9           | 10.7      | 14.3       | -0.8                        | 6.5         | 07   | 0                   | 308                     | 140                      | 3.1                 | 07           | 0                      | 16.2       | -1.2                    | 2.85              | 63           | 4                              | 4                    |
| Thurles<br>Co. Tipperary         | 1-10   | /              | /            | /         | /        | /              | /         | /          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /          | /                       | /                 | /            | /                              | /                    |
|                                  | 11-20  | /              | /            | /         | /        | /              | /         | /          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /          | /                       | /                 | /            | /                              | /                    |
|                                  | 21-end | /              | /            | /         | /        | /              | /         | /          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /          | /                       | /                 | /            | /                              | /                    |
|                                  | Month  | /              | /            | /         | /        | /              | /         | /          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /          | /                       | /                 | /            | /                              | /                    |

Notes on the tables in January issue

TABLE 1 (Continued)

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| STATION                                    | PERIOD                           | RAINFALL (MM.)              |                    |                   |                   | TEMPERATURE °C               |                              |                              |                             |                           |                      |                     |                         |                          |                            |                      |                   |                              |                                | BRIGHT SUNSHINE              |                        | WIND             |                         |   |
|--|----------------------------------|-----------------------------|--------------------|-------------------|-------------------|------------------------------|------------------------------|------------------------------|-----------------------------|---------------------------|----------------------|---------------------|-------------------------|--------------------------|----------------------------|----------------------|-------------------|------------------------------|--------------------------------|------------------------------|------------------------|------------------|-------------------------|---|
|  |                                  | AMOUNT                      | % OF AVERAGE       | RAIN DAYS         | WET DAYS          | MEAN MAX.                    | MEAN MTN                     | MEAN DAILY                   | AIR                         |                           |                      |                     | GROUND                  |                          | SOIL (10 CM)               |                      | MEAN DAILY (HRS.) | % OF AVERAGE                 | MEAN SPEED (ms <sup>-1</sup> ) | DAYS WITH GALE GUSTS         |                        |                  |                         |   |
|  |                                  |                             |                    |                   |                   |                              |                              |                              | AND DIFFERENCE FROM AVERAGE | LOWEST MIN.               | DATE                 | DAYS WITH AIR FROST | DEGREE DAYS ABOVE 4.4°C | DEGREE DAYS ABOVE 10.0°C | LOWEST "GRASS-MIN."        | DATE                 |                   |                              |                                |                              | DAYS WITH GROUND FROST | MEAN DAILY       | DIFFERENCE FROM AVERAGE |   |
| Pungarvan<br>(Ballygagin)<br>Co. Waterford | 1-10<br>11-20<br>21-end<br>Month | /                           | /                  | /                 | /                 | /                            | /                            | /                            | NOT AVAILABLE               | /                         | /                    | /                   | /                       | /                        | /                          | /                    | /                 | /                            | /                              | /                            | /                      | /                | /                       | / |
| Mullingar<br>Co. Westmeath                 | 1-10<br>11-20<br>21-end<br>Month | 27.9<br>3.3<br>45.4<br>76.6 | -<br>-<br>-<br>92  | 7<br>3<br>7<br>17 | 6<br>1<br>6<br>13 | 16.2<br>18.7<br>18.0<br>17.6 | 9.6<br>9.7<br>10.5<br>10.0   | 12.9<br>14.2<br>14.3<br>13.8 | -<br>-<br>-<br>-0.4         | 6.0<br>6.2<br>7.7<br>6.0  | 07<br>13<br>25<br>07 | 0<br>0<br>0<br>0    | 85<br>99<br>109<br>293  | 29<br>43<br>53<br>125    | 2.3<br>5.1<br>3.7<br>2.3   | 07<br>12<br>25<br>07 | 0<br>0<br>0<br>0  | 14.0<br>16.5<br>15.1<br>15.2 | -<br>-<br>-<br>-1.5            | 3.10<br>4.58<br>3.09<br>3.57 | -<br>-<br>-<br>80      | 5<br>3<br>5<br>4 | 3<br>0<br>0<br>3        |   |
| Campile<br>(Ballysoy)<br>Co. Wexford       | 1-10<br>11-20<br>21-end<br>Month | 11.9<br>0.5<br>59.3<br>72.2 | /                  | 6<br>1<br>5<br>12 | 4<br>0<br>5<br>9  | 17.5<br>18.6<br>17.6<br>17.9 | 10.4<br>10.3<br>11.4<br>10.7 | 14.0<br>14.4<br>14.5<br>14.3 | /                           | 7.0<br>7.9<br>7.0<br>7.0  | 07<br>16<br>24<br>07 | 0<br>0<br>0<br>0    | 96<br>100<br>111<br>307 | 40<br>44<br>55<br>139    | 3.6<br>4.5<br>2.2<br>2.2   | 07<br>17<br>24<br>24 | 0<br>0<br>0<br>0  | /                            | /                              | 0.29<br>4.77<br>3.96<br>3.04 | /                      | NA               | /                       | / |
| Clonroche<br>Co. Wexford                   | 1-10<br>11-20<br>21-end<br>Month | 14.5<br>0.2<br>75.4<br>90.1 | /                  | 8<br>1<br>6<br>15 | 5<br>0<br>5<br>10 | 17.0<br>19.1<br>17.6<br>17.9 | 9.6<br>9.5<br>10.1<br>9.8    | 13.3<br>14.3<br>13.9<br>13.8 | /                           | 5.6<br>6.6<br>4.9<br>4.9  | 07<br>17<br>24<br>24 | 0<br>0<br>0<br>0    | 90<br>99<br>105<br>294  | 34<br>43<br>49<br>126    | 1.0<br>0.6<br>-0.5<br>-0.5 | 07<br>15<br>24<br>24 | 0<br>0<br>1<br>1  | /                            | /                              | 2.75<br>4.50<br>4.29<br>2.86 | /                      | 3<br>2<br>3<br>3 | /                       | / |
| Johnstown Castle<br>Co. Wexford            | 1-10<br>11-20<br>21-end<br>Month | 16.9<br>0.1<br>71.7<br>88.7 | -<br>-<br>-<br>125 | 7<br>0<br>6<br>13 | 4<br>0<br>4<br>8  | 16.9<br>17.5<br>17.3<br>17.2 | 10.5<br>10.7<br>11.5<br>10.9 | 13.7<br>14.1<br>14.4<br>14.1 | /                           | 7.7<br>7.8<br>8.7<br>7.7  | 07<br>17<br>24<br>07 | 0<br>0<br>0<br>0    | 93<br>97<br>110<br>300  | 37<br>41<br>54<br>132    | 0.5<br>3.0<br>3.5<br>0.5   | 07<br>17<br>25<br>07 | 0<br>0<br>0<br>0  | /                            | /                              | 2.29<br>5.43<br>4.50<br>4.09 | /                      | 1<br>1<br>2<br>1 | /                       | / |
| Rosslare<br>Co. Wexford                    | 1-10<br>11-20<br>21-end<br>Month | 17.4<br>0.2<br>52.4<br>70.0 | -<br>-<br>-<br>127 | 7<br>1<br>5<br>13 | 4<br>0<br>4<br>8  | 16.8<br>17.1<br>16.8<br>16.9 | 11.0<br>11.9<br>12.0<br>11.6 | 13.9<br>14.5<br>14.4<br>14.3 | -<br>-<br>-<br>-0.9         | 9.3<br>10.0<br>9.5<br>9.3 | 03<br>17<br>24<br>03 | 0<br>0<br>0<br>0    | 95<br>101<br>110<br>306 | 39<br>45<br>54<br>138    | 7.1<br>3.9<br>7.1<br>3.9   | 03<br>17<br>24<br>17 | 0<br>0<br>0<br>0  | 15.3<br>18.5<br>17.0<br>16.9 | -<br>-<br>-<br>-1.3            | 2.32<br>5.36<br>5.44<br>4.41 | -<br>-<br>-<br>69      | 6<br>3<br>6<br>5 | 2<br>0<br>2<br>4        |   |

Notes on the tables in January issue

TABLE 2

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

JULY 1978

| STATION  | PERIOD | SOLAR RADIATION                 | P.E. (mm) | SOIL MOISTURE (mm) |                        |         |
|--|--------|---------------------------------|-----------|--------------------|------------------------|---------|
|  |        | Amount<br>Joule/cm <sup>2</sup> | Amount    | Deficit            | Accumulated<br>Deficit | Surplus |
| Carlow<br>(Oak Park)<br>Co. Carlow             | 1-10   |                                 | 21        | 1                  | 55                     | -       |
|  | 11-20  |                                 | 24        | 16                 | 71                     | -       |
|  | 21-end | -                               | 35        | -                  | 53                     | 18      |
|  | Month  |                                 | 80        | -                  | -                      | -       |
| Kinsealy*<br>Co. Dublin                        | 1-10   |                                 | 24        | -                  | 49                     | 15      |
|  | 11-20  |                                 | 24        | 19                 | 68                     | -       |
|  | 21-end | NA                              | 23        | -                  | 57                     | 11      |
|  | Month  |                                 | 71        | -                  | -                      | -       |
| Cahirfiveen e<br>(Valentia Obsy.)<br>Co. Kerry | 1-10   | 11693                           | 16        | 2                  | 9                      | -       |
|  | 11-20  | 15786                           | 18        | 7                  | 16                     | -       |
|  | 21-end | 15136                           | 17        | -                  | 0                      | 55      |
|  | Month  | 42615                           | 51        | -                  | -                      | -       |
| Kilkenny e<br>Co. Kilkenny                     | 1-10   | 14132                           |           |                    |                        |         |
|  | 11-20  | 16967                           |           |                    |                        |         |
|  | 21-end | 16201                           | -         | -                  | -                      | -       |
|  | Month  | 47300                           |           |                    |                        |         |
| Ballinamore<br>Co. Leitrim                     | 1-10   |                                 | 13        | -                  | 37                     | 10      |
|  | 11-20  |                                 | 26        | 23                 | 60                     | -       |
|  | 21-end | -                               | 21        | -                  | 36                     | 24      |
|  | Month  |                                 | 60        | -                  | -                      | -       |
| Glenamoy/<br>Co. Mayo                          | 1-10   |                                 | 12        | -                  | 5                      | 22      |
|  | 11-20  |                                 | 21        | 9                  | 14                     | -       |
|  | 21-end | -                               | 26        | -                  | 0                      | 33      |
|  | Month  |                                 | 59        | -                  | -                      | -       |
| Birr e<br>Co. Offaly                           | 1-10   | 13310                           |           |                    |                        |         |
|  | 11-20  | 15448                           |           |                    |                        |         |
|  | 21-end | 14693                           | -         | -                  | -                      | -       |
|  | Month  | 43451                           |           |                    |                        |         |
| Johnstown Castle<br>Co. Wexford                | 1-10   |                                 | 26        | -                  | 65                     | 1       |
|  | 11-20  |                                 | 23        | 14                 | 79                     | -       |
|  | 21-end | -                               | 81        | -                  | 22                     | 57      |
|  | Month  |                                 | 80        | -                  | -                      | -       |

\*, /, See notes in January issue.