

# METEOROLOGICAL SERVICE



## AGROMETEOROLOGICAL BULLETIN

FEBRUARY 1980

### The Weather of February

The changeable weather conditions, which had set in towards the end of January, continued through the first week of February. Spells of heavy rain occurred in all regions from the 1st to the 3rd, and some of the falls on the 2nd and 3rd were of sleet or snow in northwestern and northern regions. From the 4th to the 7th a complex depression affected the country. Rain was widespread and heavy on the 4th in the midlands and western regions and on the 6th in eastern and southern regions.

A southerly airflow set in on the 8th and between then and the 22nd the wind varied mostly between the southeast and southwest, strong and gusty at times. The period was dull and mild. Spells of rain took place on most days in all regions. The wettest day of this period occurred on the 17th in western regions, and on the 18th in eastern regions. Soil temperatures ranged between 7 and 8 °C at most stations by the middle of the month, some 2 to 3 °C above normal. A start to grass growth took place in all regions, this being three to four weeks ahead of the average year especially with respect to northeastern regions.

A ridge of high pressure developed over the country on the 23rd and dominated weather conditions to the end of the month. In contrast to the earlier part of the month this period was mostly dry. Although it was generally cloudy by day widespread sharp frost occurred on most nights. Soil temperatures dropped a little and grass growth was interrupted for a short spell between the 20th and the 25th.

Mean Monthly Amounts of Precipitation were above normal in all regions and well above normal in southern and southeastern regions. Amounts ranged from 10% of normal at Malin Head, and 130% to 160% at many inland stations, to 229% of normal at Rosslare. The wettest day in most regions occurred on the 4th except in eastern and southern regions when the 6th proved to be the wettest day.

Mean Monthly Air Temperatures were above normal everywhere. They ranged from 0.6 °C above normal at Belmullet to 1.9 °C above normal at Casement. Some 4 to 6 days with air frost occurred, mostly confined to regions away from coasts, and widespread severe ground frost took place on a similar number of occasions. Soil temperatures varied from 0.8 °C above normal at Malin Head to 1.9 °C above normal at Casement.

Mean Duration of Bright Sunshine was well below normal in nearly all regions. It ranged from 56% of normal at Kilkenny to 89% of normal at Malin Head. Over most of the country it was less than 70% of normal.

Widespread Strong Winds with gale gusts occurred on the 2nd, 4th/5th, 14th to 17th, and on the 21st.

Summary. February was mild and dull. Rainfall was well above normal, especially in the south and southeast. The last week of the month was mostly dry however.

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

February, 1980

| STATION                            | PERIOD | RAINFALL (MM.) |              |           |          | TEMPERATURE °C |           |            |                             |             |      |                                 |                          |                     |      |                        |            |                   |              | BRIGHT SUNSHINE                |                      | WIND                    |   |
|------------------------------------|--------|----------------|--------------|-----------|----------|----------------|-----------|------------|-----------------------------|-------------|------|---------------------------------|--------------------------|---------------------|------|------------------------|------------|-------------------|--------------|--------------------------------|----------------------|-------------------------|---|
|                                    |        | AMOUNT         | % OF AVERAGE | RAIN DAYS | WET DAYS | MEAN MAX.      | MEAN MIN. | AIR        |                             |             |      |                                 |                          | GROUND              |      | SOIL (10 CM)           |            | MEAN DAILY (HRS.) | % OF AVERAGE | MEAN SPEED (ms <sup>-1</sup> ) | DAYS WITH GALE GUSTS |                         |   |
|                                    |        |                |              |           |          |                |           | MEAN DAILY | AND DIFFERENCE FROM AVERAGE | LOWEST MIN. | DATE | DAYS WITH AIR FROST ABOVE 4.4°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   | 54.7           | /            | 9         | 8        | 9.0            | 1.9       | 5.5        | /                           | -2.2        | 01   | 3                               | 16                       | 0                   | -4.2 | 01                     | 5          | /                 | /            | 1.04                           | /                    | 4                       | / |
|                                    | 11-20  | 33.5           | /            | 9         | 7        | 9.7            | 5.0       | 7.3        | /                           | 1.8         | 15   | 0                               | 30                       | 0                   | -1.5 | 15                     | 1          | /                 | /            | 0.93                           | /                    | 4                       | / |
|                                    | 21-end | 6.6            | /            | 3         | 2        | 8.7            | 1.4       | 5.1        | /                           | -1.2        | 23   | 3                               | 9                        | 0                   | -5.8 | 23                     | 7          | /                 | /            | 1.94                           | /                    | 2                       | / |
|                                    | Month  | 94.8           | /            | 21        | 17       | 9.2            | 2.8       | 6.0        | /                           | -2.2        | 01   | 6                               | 55                       | 0                   | -5.8 | 23                     | 13         | /                 | /            | 1.28                           | /                    | 3                       | / |
| Shannon Airport<br>Co. Clare       | 1-10   | 48.9           | -            | 9         | 8        | 9.6            | 4.3       | 6.9        | -                           | 1.1         | 01   | 0                               | 27                       | 0                   | -0.8 | 01                     | 1          | 5.6               | -            | 1.50                           | -                    | 5                       | 2 |
|                                    | 11-20  | 27.4           | -            | 7         | 6        | 10.4           | 4.3       | 7.4        | -                           | 0.1         | 19   | 1                               | 30                       | 0                   | -3.3 | 20                     | 2          | 6.9               | -            | 1.32                           | -                    | 4                       | 0 |
|                                    | 21-end | 6.0            | -            | 3         | 3        | 9.8            | 3.8       | 6.8        | -                           | 0.5         | 25   | 0                               | 22                       | 0                   | -3.5 | 23                     | 3          | 6.2               | -            | 1.93                           | -                    | 3                       | 0 |
|                                    | Month  | 82.3           | 131          | 19        | 17       | 9.9            | 4.1       | 7.0        | +1.5                        | -0.1        | 19   | 1                               | 79                       | 0                   | -3.5 | 23                     | 6          | 6.2               | +1.2         | 1.57                           | 62                   | 4                       | 2 |
| Fermoy<br>(Moore Park)<br>Co. Cork | 1-10   | /              | /            | /         | /        | /              | /         | /          | /                           | /           | /    | /                               | /                        | /                   | /    | /                      | /          | /                 | /            | /                              | /                    | /                       | / |
|                                    | 11-20  | /              | /            | /         | /        | /              | /         | /          | /                           | /           | /    | /                               | /                        | /                   | /    | /                      | /          | /                 | /            | /                              | /                    | /                       | / |
|                                    | 21-end | /              | /            | /         | /        | /              | /         | /          | /                           | /           | /    | /                               | /                        | /                   | /    | /                      | /          | /                 | /            | /                              | /                    | /                       | / |
|                                    | Month  | /              | /            | /         | /        | /              | /         | /          | /                           | /           | /    | /                               | /                        | /                   | /    | /                      | /          | /                 | /            | /                              | /                    | /                       | / |
| Mallow<br>Co. Cork                 | 1-10   | 51.3           | -            | 8         | 6        | 10.2           | 2.9       | 6.5        | /                           | -2.0        | 10   | 2                               | 21                       | 0                   | -4.5 | 10                     | 5          | /                 | /            | 1.33                           | /                    | /                       | / |
|                                    | 11-20  | 41.1           | -            | 8         | 8        | 10.2           | 2.8       | 6.5        | /                           | -2.5        | 19   | 2                               | 23                       | 0                   | -6.2 | 19                     | 6          | /                 | /            | 1.06                           | /                    | /                       | / |
|                                    | 21-end | 9.6            | -            | 5         | 2        | 9.4            | 0.9       | 5.2        | /                           | -2.5        | 24   | 5                               | 11                       | 0                   | -5.2 | 23                     | 6          | /                 | /            | 1.71                           | /                    | /                       | / |
|                                    | Month  | 102.0          | 120          | 21        | 16       | 9.9            | 2.2       | 6.1        | /                           | -2.5        | 24   | 9                               | 55                       | 0                   | -6.2 | 19                     | 17         | /                 | /            | 1.36                           | /                    | /                       | / |
| Roche's Point<br>Co. Cork          | 1-10   | 66.5           | -            | 7         | 7        | 9.7            | 5.1       | 7.4        | -                           | 1.4         | 06   | 0                               | 30                       | 0                   | -0.8 | 07                     | 2          | 6.5               | -            | 2.20                           | -                    | 6                       | 5 |
|                                    | 11-20  | 47.5           | -            | 7         | 7        | 9.5            | 6.0       | 7.7        | -                           | 2.4         | 15   | 0                               | 33                       | 0                   | -1.7 | 16                     | 2          | 7.8               | -            | 1.77                           | -                    | 6                       | 1 |
|                                    | 21-end | 5.0            | -            | 2         | 1        | 9.1            | 4.4       | 6.7        | -                           | 1.2         | 24   | 0                               | 21                       | 0                   | -0.9 | 23                     | 1          | 6.8               | -            | 2.24                           | -                    | 4                       | 2 |
|                                    | Month  | 119.0          | 186          | 16        | 15       | 9.4            | 5.2       | 7.3        | +0.9                        | 1.2         | 24   | 0                               | 84                       | 0                   | -1.7 | 16                     | 5          | 7.1               | +1.2         | 2.07                           | 80                   | 5                       | 8 |
| Glencolumbkille<br>Co. Donegal     | 1-10   | 72.2           | /            | 10        | 7        | 7.7            | 1.2       | 4.4        | /                           | -2.0        | 01   | 2                               | 8                        | 0                   | -6.2 | 01                     | 6          | /                 | /            | 0.73                           | /                    | 4                       | / |
|                                    | 11-20  | 68.1           | /            | 10        | 9        | 9.8            | 4.1       | 6.9        | /                           | -1.6        | 19   | 1                               | 26                       | 0                   | -4.1 | 19                     | 3          | /                 | /            | 2.53                           | /                    | 4                       | / |
|                                    | 21-end | 12.7           | /            | 5         | 3        | 9.0            | 2.8       | 5.9        | /                           | -0.4        | 23   | 1                               | 14                       | 0                   | -4.2 | 23                     | 4          | /                 | /            | 1.51                           | /                    | 3                       | / |
|                                    | Month  | 153.0          | /            | 25        | 19       | 8.8            | 2.7       | 5.7        | /                           | -2.0        | 01   | 4                               | 48                       | 0                   | -6.2 | 01                     | 13         | /                 | /            | 1.59                           | /                    | 4                       | / |
| Glenties<br>Co. Donegal            | 1-10   | 78.0           | -            | 9         | 8        | 8.2            | -0.6      | 3.8        | /                           | -5.5        | 01   | 6                               | 7                        | 0                   | -8.0 | 04                     | 9          | /                 | /            | 0.34                           | /                    | /                       | / |
|                                    | 11-20  | 62.3           | -            | 9         | 8        | 10.3           | 2.0       | 6.1        | /                           | -2.5        | 19   | 2                               | 19                       | 0                   | -6.0 | 15                     | 7          | /                 | /            | 1.74                           | /                    | /                       | / |
|                                    | 21-end | 11.0           | -            | 6         | 4        | 9.1            | 0.5       | 4.8        | /                           | -2.5        | 27   | 3                               | 6                        | 0                   | -7.0 | 27                     | 8          | /                 | /            | 1.70                           | /                    | /                       | / |
|                                    | Month  | 151.3          | 141          | 24        | 20       | 9.2            | 0.6       | 4.9        | /                           | -5.5        | 01   | 11                              | 30                       | 0                   | -8.0 | 04                     | 24         | /                 | /            | 1.24                           | /                    | /                       | / |

Notes on the tables in January issue

TABLE 1 (Continued)

February, 1980

| 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 e<br>Co. Donegal                    | 1-10   | 47.9           | -            | 8         | 7        | 6.7            | 2.2       | 4.5        | -                           | -2.0        | 01   | 2                   | 9                       | 0                        | -6.7                 | 01           | 4                      | 3.4        | -                       | 1.24              | -            | 7                              | 5                    |
|  | 11-20  | 31.3           | -            | 9         | 8        | 9.8            | 5.3       | 7.6        | -                           | 2.2         | 15   | 0                   | 32                      | 0                        | -1.2                 | 16           | 2                      | 6.5        | -                       | 2.00              | -            | 7                              | 4                    |
|  | 21-end | 1.4            | -            | 3         | 0        | 8.8            | 3.6       | 6.2        | -                           | 1.3         | 24   | 0                   | 16                      | 0                        | -3.3                 | 24           | 5                      | 5.6        | -                       | 2.76              | -            | 5                              | 2                    |
|  | Month  | 80.6           | 103          | 20        | 15       | 8.4            | 3.7       | 6.1        | +0.7                        | -2.0        | 01   | 2                   | 57                      | 0                        | -6.7                 | 01           | 11                     | 5.2        | +0.8                    | 1.97              | 89           | 6                              | 11                   |
| Casement Aerodrome<br>Co. Dublin               | 1-10   | 40.4           | -            | 9         | 8        | 8.8            | 2.6       | 5.7        | -                           | -2.9        | 01   | 1                   | 19                      | 0                        | -8.0                 | 01           | 5                      | 4.6        | -                       | 1.25              | -            | 5                              | 5                    |
|  | 11-20  | 18.7           | -            | 7         | 5        | 10.1           | 5.2       | 7.7        | -                           | 0.9         | 15   | 0                   | 33                      | 0                        | -5.0                 | 15           | 2                      | 6.6        | -                       | 1.85              | -            | 6                              | 4                    |
|  | 21-end | 0.9            | -            | 3         | 0        | 8.6            | 1.1       | 4.9        | -                           | -2.8        | 24   | 3                   | 7                       | 0                        | -8.5                 | 24           | 8                      | 4.8        | -                       | 1.81              | -            | 3                              | 1                    |
|  | Month  | 60.0           | 113          | 19        | 13       | 9.2            | 3.0       | 6.1        | +1.9                        | -2.9        | 01   | 4                   | 59                      | 0                        | -8.5                 | 24           | 15                     | 5.4        | -                       | 1.63              | 80           | 5                              | 10                   |
| Dublin Airport e<br>Co. Dublin                 | 1-10   | 51.1           | -            | 9         | 8        | 8.2            | 2.9       | 5.6        | -                           | -1.2        | 01   | 1                   | 16                      | 0                        | -3.3                 | 01           | 3                      | 4.7        | -                       | 1.53              | -            | 5                              | 3                    |
|  | 11-20  | 16.8           | -            | 8         | 5        | 10.1           | 5.7       | 7.9        | -                           | 2.3         | 15   | 0                   | 36                      | 0                        | 0.0                  | 15           | 0                      | 6.9        | -                       | 1.84              | -            | 5                              | 2                    |
|  | 21-end | 0.6            | -            | 1         | 0        | 8.9            | 2.5       | 5.7        | -                           | -0.1        | 23   | 1                   | 12                      | 0                        | -4.0                 | 24           | 8                      | 5.5        | -                       | 1.83              | -            | 4                              | 1                    |
|  | Month  | 68.5           | 140          | 18        | 13       | 9.1            | 3.8       | 6.4        | +1.3                        | -1.2        | 01   | 2                   | 64                      | 0                        | -4.0                 | 24           | 11                     | 5.7        | +1.4                    | 1.73              | 65           | 5                              | 6                    |
| Kinsealy<br>Co. Dublin                         | 1-10   | 45.6           | /            | 9         | 8        | 8.6            | 2.0       | 5.3        | /                           | -1.9        | 01   | 3                   | 13                      | 0                        | -4.0                 | 01           | 4                      | /          | /                       | 1.46              | /            | 4                              | /                    |
|  | 11-20  | 21.2           | /            | 8         | 7        | 10.2           | 5.3       | 7.7        | /                           | 1.7         | 15   | 0                   | 33                      | 0                        | 0.2                  | 15           | 0                      | /          | /                       | 1.61              | /            | 3                              | /                    |
|  | 21-end | 0.7            | /            | 1         | 0        | 8.9            | 2.1       | 5.5        | /                           | 0.1         | 24   | 0                   | 11                      | 0                        | -3.4                 | 25           | 8                      | /          | /                       | 2.04              | /            | 3                              | /                    |
|  | Month  | 67.5           | 144          | 18        | 15       | 9.2            | 3.1       | 6.2        | /                           | -1.9        | 01   | 3                   | 57                      | 0                        | -4.0                 | 01           | 12                     | /          | /                       | 1.69              | /            | 3                              | /                    |
| Galway<br>Co. Galway                           | 1-10   | 62.5           | -            | 10        | 9        | 8.9            | 3.1       | 6.0        | -                           | -2.2        | 01   | 1                   | 20                      | 0                        | -5.5                 | 01           | 2                      | 5.2        | -                       | 1.38              | -            | 5                              | 3                    |
|  | 11-20  | 33.9           | -            | 9         | 7        | 9.7            | 4.2       | 7.0        | -                           | -0.3        | 19   | 2                   | 26                      | 0                        | -1.6                 | 20           | 3                      | 6.9        | -                       | 1.96              | -            | 4                              | 1                    |
|  | 21-end | 6.2            | -            | 3         | 3        | 9.6            | 3.2       | 6.4        | -                           | -0.6        | 23   | 1                   | 19                      | 0                        | -3.1                 | 23           | 3                      | 6.4        | -                       | 2.03              | -            | 3                              | 0                    |
|  | Month  | 102.6          | -            | 22        | 19       | 9.4            | 3.5       | 6.5        | -                           | -2.2        | 01   | 4                   | 65                      | 0                        | -5.5                 | 01           | 8                      | 6.2        | -                       | 1.78              | -            | 4                              | 4                    |
| Killarney<br>(Muokross Hse)<br>Co. Kerry       | 1-10   | 95.9           | /            | 10        | 10       | 10.5           | 4.8       | 7.6        | /                           | 1.8         | 07   | 0                   | 32                      | 0                        | -2.0                 | 01           | 6                      | /          | /                       | 0.78              | /            | /                              | /                    |
|  | 11-20  | 90.2           | /            | 9         | 9        | 10.5           | 4.6       | 7.6        | /                           | -1.4        | 20   | 2                   | 33                      | 0                        | -5.5                 | 20           | 5                      | /          | /                       | 1.29              | /            | /                              | /                    |
|  | 21-end | 15.8           | /            | 5         | 3        | 9.6            | 3.0       | 6.3        | /                           | -0.9        | 21   | 1                   | 17                      | 0                        | -3.7                 | 25           | 6                      | /          | /                       | 1.32              | /            | /                              | /                    |
|  | Month  | 201.9          | /            | 24        | 22       | 10.2           | 4.2       | 7.2        | /                           | -1.4        | 20   | 3                   | 82                      | 0                        | -5.5                 | 20           | 17                     | /          | /                       | 1.12              | /            | /                              | /                    |
| Calireiveen e<br>(Valentia Obsy.)<br>Co. Kerry | 1-10   | 72.4           | -            | 10        | 7        | 10.4           | 5.5       | 8.0        | -                           | 3.2         | 06   | 0                   | 36                      | 0                        | 0.4                  | 01           | 0                      | 7.2        | -                       | 1.59              | -            | 6                              | 6                    |
|  | 11-20  | 110.4          | -            | 9         | 8        | 10.6           | 5.1       | 7.9        | -                           | -0.5        | 20   | 1                   | 35                      | 0                        | -3.5                 | 20           | 3                      | 7.9        | -                       | 1.78              | -            | 5                              | 4                    |
|  | 21-end | 19.6           | -            | 6         | 4        | 10.4           | 5.1       | 7.8        | -                           | 1.2         | 23   | 0                   | 31                      | 0                        | -2.1                 | 23           | 2                      | 7.9        | -                       | 2.11              | -            | 3                              | 2                    |
|  | Month  | 202.4          | 184          | 25        | 19       | 10.5           | 5.2       | 7.9        | +1.1                        | -0.5        | 20   | 1                   | 102                     | 0                        | -3.5                 | 20           | 5                      | 7.7        | +1.6                    | 1.82              | 74           | 5                              | 12                   |

Notes on the tables in January issue



TABLE 1 (Continued)

February, 1980

| 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<br>Co. Mayo            | 1-10   | 42.4           | -            | 10        | 8        | 8.7            | 3.0       | 5.9        | -                           | -2.2        | 01   | 1                   | 19                      | 0                        | -5.2                | 01           | 2                      | 5.2               | -            | 1.19                           | -                    | 6          | 3                       |
|                                  | 11-20  | 36.8           | -            | 9         | 7        | 9.7            | 4.3       | 7.0        | -                           | -0.4        | 20   | 1                   | 27                      | 0                        | -3.1                | 20           | 4                      | 6.9               | -            | 2.59                           | -                    | 6          | 3                       |
|                                  | 21-end | 7.9            | -            | 4         | 2        | 9.5            | 4.5       | 7.0        | -                           | 0.5         | 23   | 0                   | 24                      | 0                        | -2.6                | 23           | 2                      | 6.9               | -            | 0.82                           | -                    | 4          | 0                       |
|                                  | Month  | 87.1           | 115          | 23        | 17       | 9.3            | 3.9       | 6.6        | +0.6                        | -2.2        | 01   | 2                   | 70                      | 0                        | -5.2                | 01           | 8                      | 6.3               | +1.0         | 1.56                           | 62                   | 5          | 6                       |
| Claremorris<br>Co. Mayo          | 1-10   | 62.5           | -            | 10        | 7        | 8.0            | 1.2       | 4.6        | -                           | -6.3        | 01   | 1                   | 12                      | 0                        | -9.6                | 01           | 9                      | 4.2               | -            | 0.91                           | -                    | 4          | 2                       |
|                                  | 11-20  | 57.2           | -            | 8         | 7        | 9.5            | 3.2       | 6.4        | -                           | -1.1        | 20   | 2                   | 22                      | 0                        | -5.9                | 20           | 5                      | 6.3               | -            | 1.69                           | -                    | 4          | 1                       |
|                                  | 21-end | 3.4            | -            | 3         | 1        | 9.6            | 1.5       | 5.6        | -                           | -2.3        | 23   | 2                   | 12                      | 0                        | -7.2                | 23           | 6                      | 5.5               | -            | 1.81                           | -                    | 2          | 0                       |
|                                  | Month  | 123.1          | 162          | 21        | 15       | 9.0            | 2.0       | 5.5        | +1.3                        | -6.3        | 01   | 5                   | 46                      | 0                        | -9.6                | 01           | 20                     | 5.3               | +1.3         | 1.46                           | 86                   | 3          | 3                       |
| Glenamoy<br>Co. Mayo             | 1-10   | 57.2           | -            | 10        | 9        | 8.9            | 1.2       | 5.0        | /                           | -3.0        | 01   | 2                   | 11                      | 0                        | -4.6                | 01           | 4                      | /                 | /            | 0.94                           | /                    | /          | /                       |
|                                  | 11-20  | 53.7           | -            | 9         | 8        | 10.2           | 3.1       | 6.7        | /                           | -3.2        | 20   | 3                   | 25                      | 0                        | -5.5                | 20           | 3                      | /                 | /            | 2.42                           | /                    | HA         | /                       |
|                                  | 21-end | 9.9            | -            | 6         | 3        | 9.9            | 2.8       | 6.4        | /                           | -1.9        | 23   | 1                   | 19                      | 0                        | -4.1                | 23           | 4                      | /                 | /            | 0.87                           | /                    | /          | /                       |
|                                  | Month  | 120.8          | 123          | 25        | 20       | 9.6            | 2.4       | 6.0        | /                           | -3.2        | 20   | 6                   | 55                      | 0                        | -5.5                | 20           | 11                     | /                 | /            | 1.43                           | /                    | /          | /                       |
| Dunsany<br>(Grange)<br>Co. Meath | 1-10   | -              | -            | -         | -        | -              | -         | -          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /                 | /            | /                              | /                    | /          | /                       |
|                                  | 11-20  | -              | -            | -         | -        | -              | -         | -          | NOT AVAILABLE               | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /                 | /            | /                              | /                    | /          | /                       |
|                                  | 21-end | -              | -            | -         | -        | -              | -         | -          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /                 | /            | /                              | /                    | /          | /                       |
|                                  | Month  | -              | -            | -         | -        | -              | -         | -          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /                 | /            | /                              | /                    | /          | /                       |
| Clones<br>Co. Monaghan           | 1-10   | 48.9           | -            | 8         | 6        | 7.0            | 1.2       | 4.1        | -                           | -4.0        | 01   | 3                   | 9                       | 0                        | -11.0               | 01           | 5                      | 3.5               | -            | 1.37                           | -                    | 3          | 0                       |
|                                  | 11-20  | 31.1           | -            | 9         | 7        | 9.6            | 4.5       | 7.0        | -                           | 0.1         | 15   | 0                   | 26                      | 0                        | -0.9                | 19           | 2                      | 6.2               | -            | 1.17                           | -                    | 4          | 2                       |
|                                  | 21-end | 4.0            | -            | 3         | 2        | 9.0            | 2.3       | 5.7        | -                           | -1.0        | 23   | 1                   | 12                      | 0                        | -7.8                | 23           | 5                      | 5.1               | -            | 2.72                           | -                    | 3          | 0                       |
|                                  | Month  | 84.0           | 133          | 20        | 15       | 8.5            | 2.7       | 5.6        | +1.3                        | -4.0        | 01   | 4                   | 47                      | 0                        | -11.0               | 01           | 12                     | 4.9               | +1.2         | 1.72                           | 74                   | 3          | 2                       |
| Birr<br>Co. Offaly               | 1-10   | 35.8           | -            | 8         | 6        | 8.6            | 2.8       | 5.7        | -                           | -2.8        | 01   | 1                   | 19                      | 0                        | -5.8                | 01           | 4                      | 4.9               | -            | 1.33                           | -                    | 4          | 2                       |
|                                  | 11-20  | 27.5           | -            | 8         | 7        | 9.6            | 4.5       | 7.1        | -                           | -0.2        | 15   | 1                   | 27                      | 0                        | -4.0                | 15           | 2                      | 6.6               | -            | 1.12                           | -                    | 3          | 1                       |
|                                  | 21-end | 4.8            | -            | 4         | 2        | 9.1            | 1.8       | 5.5        | -                           | -2.4        | 23   | 3                   | 12                      | 0                        | -7.2                | 23           | 5                      | 5.5               | -            | 2.79                           | -                    | 2          | 0                       |
|                                  | Month  | 68.1           | 128          | 20        | 15       | 9.1            | 3.1       | 6.1        | +1.2                        | -2.8        | 01   | 5                   | 58                      | 0                        | -7.2                | 23           | 11                     | 5.7               | +1.4         | 1.71                           | 65                   | 3          | 3                       |
| Thurles<br>Co. Tipperary         | 1-10   | -              | -            | -         | -        | -              | -         | -          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /                 | /            | /                              | /                    | /          | /                       |
|                                  | 11-20  | -              | -            | -         | -        | -              | -         | -          | NOT AVAILABLE               | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /                 | /            | /                              | /                    | /          | /                       |
|                                  | 21-end | -              | -            | -         | -        | -              | -         | -          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /                 | /            | /                              | /                    | /          | /                       |
|                                  | Month  | -              | -            | -         | -        | -              | -         | -          | /                           | /           | /    | /                   | /                       | /                        | /                   | /            | /                      | /                 | /            | /                              | /                    | /          | /                       |

Notes on the tables in January issue

TABLE 1 (Continued)

February, 1980

| STATION                                    | PERIOD | RAINFALL (MM.) |              |           |          | TEMPERATURE °C |          |            |                             |             |      |                     |                         |                          |                     |             |                        |                   | BRIGHT SUNSHINE |                                | WIND                 |            |                         |
|--|--------|----------------|--------------|-----------|----------|----------------|----------|------------|-----------------------------|-------------|------|---------------------|-------------------------|--------------------------|---------------------|-------------|------------------------|-------------------|-----------------|--------------------------------|----------------------|------------|-------------------------|
|  |        | AMOUNT         | % OF AVERAGE | RAIN DAYS | WET DAYS | MEAN MAX.      | MEAN MTH | 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 BELOW 10.0°C | LOWEST "GRASS-MIN." | DATE        | DAYS WITH GROUND FROST |                   |                 |                                |                      | MEAN DAILY | DIFFERENCE FROM AVERAGE |
| Dungarvan<br>(Ballygagin)<br>Co. Waterford | 1-10   | 67.9           |              | 10        | 9        | 9.9            | 4.0      | 7.0        | /                           | -0.5        | 07   | 2                   | 26                      | 0                        | -4.0                | 10          | 4                      | /                 | /               | 1.40                           | /                    | 3          | /                       |
|  | 11-20  | 52.4           |              | 10        | 9        | 9.7            | 5.4      | 7.5        | /                           | -0.1        | 15   | 1                   | 32                      | 0                        | -3.8                | 15          | 2                      | /                 | /               | 1.55                           | /                    | 3          | /                       |
|  | 21-end | 10.2           |              | 5         | 3        | 9.0            | 2.7      | 5.8        | /                           | -0.8        | 24   | 3                   | 15                      | 0                        | -5.0                | 23          | 6                      | /                 | /               | 2.59                           | /                    | 2          | /                       |
|  | Month  | 130.5          | 165          | 25        | 21       | 9.5            | 4.1      | 6.8        | /                           | -0.8        | 24   | 6                   | 73                      | 0                        | -5.0                | 23          | 12                     | /                 | /               | 1.82                           | /                    | 3          | /                       |
| Mullingar<br>Co. Westmeath                 | 1-10   | 51.2           | -            | 9         | 7        | 7.6            | 1.6      | 4.6        | -                           | -3.2        | 01   | 1                   | 11                      | 0                        | -8.0                | 01          | 5                      | 4.2               | -               | 1.45                           | -                    | 4          | 1                       |
|  | 11-20  | 35.0           | -            | 8         | 6        | 9.2            | 3.7      | 6.5        | -                           | -1.1        | 15   | 1                   | 23                      | 0                        | -2.8                | 15          | 2                      | 6.2               | -               | 1.07                           | -                    | 4          | 0                       |
|  | 21-end | 7.1            | -            | 3         | 1        | 8.5            | 1.5      | 5.0        | -                           | -2.5        | 24   | 3                   | 8                       | 0                        | -6.2                | 24          | 6                      | 4.7               | -               | 2.57                           | -                    | 3          | 0                       |
|  | Month  | 93.3           | 150          | 20        | 14       | 8.4            | 2.3      | 5.4        | +0.9                        | -3.2        | 01   | 5                   | 42                      | 0                        | -8.0                | 01          | 13                     | 5.0               | +1.1            | 1.67                           | 65                   | 4          | 1                       |
| Cannile<br>(Ballysoy)<br>Co. Wexford       | 1-10   | 72.9           | /            | 9         | 8        | 9.4            | 2.8      | 6.1        | /                           | -1.2        | 07   | 1                   | 18                      | 0                        | -5.8                | 07          | 6                      | /                 | /               | 1.11                           | /                    | NA         | /                       |
|  | 11-20  | 47.8           | /            | 10        | 7        | 9.2            | 5.3      | 7.2        | /                           | 0.2         | 15   | 0                   | 29                      | 0                        | -4.9                | 15          | 2                      | /                 | /               | 1.12                           | /                    | NA         | /                       |
|  | 21-end | 9.3            | /            | 2         | 2        | 9.0            | 1.9      | 4.9        | /                           | -0.4        | 24   | 2                   | 10                      | 0                        | -6.7                | 23          | 8                      | /                 | /               | 2.74                           | /                    | NA         | /                       |
|  | Month  | 130.0          | 176          | 21        | 17       | 9.2            | 3.4      | 6.3        | /                           | -1.2        | 07   | 3                   | 57                      | 0                        | -6.7                | 23          | 16                     | /                 | /               | 1.62                           | /                    | NA         | /                       |
| Clonroche<br>Co. Wexford                   | 1-10   | 75.2           | /            | 9         | 8        | 8.7            | 2.2      | 5.4        | /                           | -1.4        | 07   | 2                   | 14                      | 0                        | -6.5                | 07          | 5                      | /                 | /               | 1.07                           | /                    | 3          | /                       |
|  | 11-20  | 56.8           | /            | 9         | 7        | 9.0            | 5.2      | 7.1        | /                           | 0.9         | 15   | 0                   | 27                      | 0                        | -5.0                | 15          | 2                      | /                 | /               | 0.88                           | /                    | 3          | /                       |
|  | 21-end | NA             | /            | NA        | NA       | 8.6            | 1.6      | 5.1        | /                           | 0.0         | 28   | 0                   | 8                       | 0                        | -5.0                | 28          | 7                      | /                 | /               | 2.49                           | /                    | 2          | /                       |
|  | Month  | -              | /            | -         | -        | 8.8            | 3.1      | 5.9        | /                           | -1.4        | 07   | 2                   | 49                      | 0                        | -6.5                | 07          | 14                     | /                 | /               | 1.44                           | /                    | 3          | /                       |
| Johnstown Castle<br>Co. Wexford            | 1-10   | 89.5           | -            | 9         | 9        | 9.1            | 3.2      | 6.1        | /                           | -0.6        | 07   | 1                   | 18                      | 0                        | -5.5                | 07          | 5                      | /                 | /               | 1.10                           | /                    | 4          | /                       |
|  | 11-20  | 49.7           | -            | 8         | 7        | 9.5            | 5.5      | 7.5        | /                           | 2.0         | 15   | 0                   | 31                      | 0                        | -2.9                | 15          | 2                      | /                 | /               | 1.55                           | /                    | 4          | /                       |
|  | 21-end | 7.5            | -            | 3         | 2        | 8.6            | 2.0      | 5.3        | /                           | 0.1         | 24   | 0                   | 9                       | 0                        | -4.7                | 23          | 8                      | /                 | /               | 2.72                           | /                    | 3          | /                       |
|  | Month  | 146.7          | 210          | 20        | 18       | 9.1            | 3.6      | 6.3        | /                           | -0.6        | 07   | 1                   | 58                      | 0                        | -5.5                | 07          | 15                     | /                 | /               | 1.76                           | /                    | 4          | /                       |
| Rosslare<br>Co. Wexford                    | 1-10   | 83.0           | -            | 10        | 8        | 9.2            | 4.8      | 7.0        | -                           | 1.2         | 07   | 0                   | 27                      | 0                        | -3.9                | 07          | 3                      | 6.1               | -               | 1.21                           | -                    | 5          | 5                       |
|  | 11-20  | 45.3           | -            | 8         | 6        | 9.8            | 6.6      | 8.2        | -                           | 4.0         | 15   | 0                   | 38                      | 0                        | -2.7                | 15          | 1                      | 7.9               | -               | 1.67                           | -                    | 6          | 1                       |
|  | 21-end | 6.7            | -            | 3         | 2        | 8.7            | 3.8      | 6.3        | -                           | 1.2         | 24   | 0                   | 17                      | 0                        | -4.4                | 24          | 5                      | 6.1               | -               | 2.71                           | -                    | 4          | 1                       |
|  | Month  | 135.0          | 229          | 21        | 16       | 9.3            | 5.1      | 7.2        | +1.2                        | 1.2         | 24   | 0                   | 82                      | 0                        | -4.4                | 24          | 9                      | 6.7               | +1.2            | 1.83                           | 66                   | 5          | 7                       |

Notes on the tables in January issue

TABLE 2

SOLAR RADIATION (GLOBAL), POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE February, 1980

| 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   |                                 | NA        | NA                 | 0                      | NA      |
|  | 11-20  | -                               | -1        | -                  | 0                      | 34      |
|  | 21-end |                                 | 2         | -                  | 0                      | 5       |
|  | Month  |                                 | -         | -                  | -                      | -       |
| Kinsealy*<br>Co. Dublin                        | 1-10   | 2431                            | -3        | -                  | 0                      | 48      |
|  | 11-20  | 3237                            | 5         | -                  | 0                      | 16      |
|  | 21-end | 4216                            | 3         | 3                  | 3                      | -       |
|  | Month  | 9884                            | 5         | -                  | -                      | -       |
| Cahirciveen e<br>(Valentia Obsy.)<br>Co. Kerry | 1-10   | 3548                            | 2         | -                  | 0                      | 77      |
|  | 11-20  | 4257                            | 11        | -                  | 0                      | 91      |
|  | 21-end | 5600                            | 3         | -                  | 0                      | 19      |
|  | Month  | 13405                           | 16        | -                  | -                      | -       |
| Kilkenny e<br>Co. Kilkenny                     | 1-10   | 2876                            |           |                    |                        |         |
|  | 11-20  | 3544                            | -         | -                  | -                      | -       |
|  | 21-end | 5568                            |           |                    |                        |         |
|  | Month  | 12008                           |           |                    |                        |         |
| Ballinamore<br>Co. Leitrim                     | 1-10   |                                 | 3         | -                  | 0                      | 29      |
|  | 11-20  |                                 | 2         | -                  | 0                      | 36      |
|  | 21-end | -                               | -2        | -                  | 0                      | 5       |
|  | Month  |                                 | 3         | -                  | -                      | -       |
| Glenamoy/<br>Co. Mayo                          | 1-10   |                                 | -4        | -                  | 0                      | 61      |
|  | 11-20  | -                               | 0         | -                  | 0                      | 53      |
|  | 21-end |                                 | -1        | -                  | 0                      | 11      |
|  | Month  |                                 | -5        | -                  | -                      | -       |
| Birr e<br>Co. Offaly                           | 1-10   | 3631                            |           |                    |                        |         |
|  | 11-20  | 4773                            | -         | -                  | -                      | -       |
|  | 21-end | 5551                            |           |                    |                        |         |
|  | Month  | 13955                           |           |                    |                        |         |
| Johnstown Castle<br>Co. Wexford                | 1-10   |                                 | 1         | -                  | 0                      | 88      |
|  | 11-20  |                                 | 6         | -                  | 0                      | 44      |
|  | 21-end | -                               | -3        | -                  | 0                      | 11      |
|  | Month  |                                 | -         | -                  | -                      | -       |

\*, /, See notes in January issue.