

METEOROLOGICAL SERVICE



AGROMETEOROLOGICAL BULLETIN

OCTOBER 1978

The Weather of October

Pressure was high over Ireland for much of October as an anticyclone centred close and to the southwest or south of Ireland dominated our weather. This gave us mild southwesterly or westerly winds and although the Atlantic rainbelts did cross the country with fair regularity they were weaker than usual. Between 6th and 9th and again between 28th and 31st, the high pressure centre moved to the east of Ireland but conditions were still mild in a southerly windflow. However, between 9th and 11th and on 31st the anticyclone was so far to the east that active rainbelts affected the country. The dominant high pressure centre was to the west, in mid-Atlantic, between 15th and 19th and with winds between northwest and west in direction, the only cool spell of the month occurred.

Mean Monthly Rainfall Amounts ranged from 39% to 65% of normal generally but were as high as 85% at Rosslare. However, more than half of Rosslare's total was recorded on 10th when thunderstorms were widespread. As in September, Glencolumbkille recorded 21 wet days while Rosslare had only 5 such days with rainfall in excess of 1 mm. Most areas had less than 10 wet days but soil moisture deficits remained small even in the east and south where September had been dry.

Mean Monthly Air Temperatures were between 1.1°C and 2.3°C above normal. With the exception of 14th to 19th, daytime temperatures were above normal or normal and it was especially mild between 5th and 13th and from 25th to 30th. Night-time temperatures were high also and only on 23rd was air frost recorded. Mean monthly values of the soil temperatures at 10 mm were more than 1°C above normal and at the end of the month were 2°C to 3°C above normal values for the last week of October.

Mean Daily Duration of Bright Sunshine ranged from 58% of normal at Belmullet to 105% of normal at Dublin Airport and Mullingar but was between 70% and 95% of normal in most areas.

Summary October was mild and very dry. Parts of the southeast experienced absolute drought (15 or more consecutive days with less than 0.2 mm of rain on any day) between 11th and 30th. Conditions for fieldwork were good and, as soil moisture deficits were not high, conditions for grass growth were also good.

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

OCTOBER 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 ⁻¹) | 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 | | | | | MEAN DAILY (HRS.) | % OF AVERAGE |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carlow (Oak Park) Co. Carlow | 1-10 | 30.4 | / | 5 | 5 | 16.3 | 9.1 | 12.7 | / | 3.4 | 04 | 0 | 83 | 28 | -2.0 | 04 | 1 | / | / | 3.56 | - | 4 | / | | |
| | 11-20 | 1.7 | / | 5 | 0 | 14.8 | 9.4 | 12.1 | / | 5.0 | 16 | 0 | 77 | 24 | -1.0 | 16 | 1 | / | / | 1.64 | - | 3 | / | | |
| | 21-end | 6.7 | / | 2 | 2 | 14.2 | 8.2 | 11.2 | / | 3.0 | 23 | 0 | 74 | 17 | -1.0 | 23 | 1 | / | / | 1.74 | - | 3 | / | | |
| | Month | 38.8 | / | 12 | 7 | 15.1 | 8.9 | 12.0 | / | 3.0 | 23 | 0 | 234 | 69 | -2.0 | 04 | 3 | / | / | 2.29 | - | 3 | / | | |
| Shannon Airport Co. Clare | 1-10 | 17.5 | - | 5 | 4 | 16.0 | 10.9 | 13.4 | - | 5.3 | 01 | 0 | 91 | 35 | 0.5 | 01 | 0 | 13.4 | - | 3.63 | - | 6 | 0 | | |
| | 11-20 | 15.9 | - | 6 | 4 | 14.5 | 10.9 | 12.7 | - | 8.9 | 18 | 0 | 83 | 27 | 5.1 | 12 | 0 | 13.0 | - | 1.03 | - | 5 | 0 | | |
| | 21-end | 13.2 | - | 3 | 2 | 15.2 | 9.5 | 12.3 | - | 5.9 | 27 | 0 | 88 | 26 | 2.5 | 27 | 0 | 12.6 | - | 3.13 | - | 4 | 0 | | |
| | Month | 46.6 | 54 | 14 | 10 | 15.2 | 10.4 | 12.8 | +2.1 | 5.3 | 01 | 0 | 262 | 88 | 0.5 | 01 | 0 | 13.0 | +1.6 | 2.61 | 91 | 5 | 0 | | |
| Fermoy (Moore Park) Co. Cork | 1-10 | 25.4 | / | 6 | 5 | 15.9 | 8.9 | 12.4 | / | 2.2 | 04 | 0 | 80 | 25 | -1.5 | 04 | 2 | / | / | 3.62 | - | 3 | / | | |
| | 11-20 | 7.3 | / | 5 | 2 | 14.8 | 9.9 | 12.3 | / | 5.5 | 16 | 0 | 80 | 24 | 0.0 | 16 | 0 | / | / | 1.71 | - | 2 | / | | |
| | 21-end | 10.5 | / | 5 | 2 | 14.8 | 6.7 | 10.8 | / | -0.2 | 23 | 1 | 70 | 14 | -2.8 | 23 | 2 | / | / | 1.73 | - | 2 | / | | |
| | Month | 43.2 | / | 16 | 9 | 15.2 | 8.4 | 11.8 | / | -0.2 | 23 | 1 | 230 | 63 | -2.8 | 23 | 4 | / | / | 2.33 | - | 2 | / | | |
| Mallow Co. Cork | 1-10 | 28.5 | - | 4 | 4 | 16.5 | 9.1 | 12.8 | / | 1.9 | 01 | 0 | 84 | 29 | -4.0 | 01 | 2 | / | / | 3.62 | - | / | / | | |
| | 11-20 | 9.1 | - | 4 | 3 | 14.9 | 9.1 | 12.0 | / | 4.6 | 14 | 0 | 76 | 21 | 2.0 | 16 | 0 | / | / | 0.96 | - | / | / | | |
| | 21-end | 17.5 | - | 3 | 2 | 15.8 | 7.0 | 11.4 | / | 0.0 | 23 | 0 | 77 | 22 | -3.5 | 23 | 2 | / | / | 2.26 | - | / | / | | |
| | Month | 55.1 | 55 | 11 | 9 | 15.8 | 8.3 | 12.1 | / | 0.0 | 23 | 0 | 237 | 72 | -4.0 | 01 | 4 | / | / | 2.28 | - | / | / | | |
| Roche's Point Co. Cork | 1-10 | 17.0 | - | 4 | 1 | 15.2 | 11.1 | 13.1 | - | 7.3 | 01 | 0 | 88 | 32 | 2.3 | 04 | 0 | 13.5 | - | 4.09 | - | 7 | 1 | | |
| | 11-20 | 10.5 | - | 4 | 2 | 14.5 | 10.7 | 12.6 | - | 8.1 | 16 | 0 | 82 | 26 | 4.5 | 16 | 0 | 12.9 | - | 1.83 | - | 5 | 2 | | |
| | 21-end | 7.1 | - | 2 | 1 | 15.1 | 9.9 | 12.5 | - | 5.5 | 23 | 0 | 90 | 28 | 1.0 | 23 | 0 | 12.5 | - | 2.60 | - | 4 | 0 | | |
| | Month | 34.6 | 39 | 10 | 4 | 14.9 | 10.6 | 12.8 | +1.4 | 5.5 | 23 | 0 | 260 | 86 | 1.0 | 23 | 0 | 13.0 | +1.3 | 2.83 | 89 | 5 | 3 | | |
| Glencolumbkille Co. Donegal | 1-10 | 35.7 | / | 8 | 7 | 14.8 | 10.3 | 12.5 | / | 7.7 | 10 | 0 | 82 | 26 | 5.2 | 10 | 0 | / | / | 2.55 | - | 5 | / | | |
| | 11-20 | 72.1 | / | 10 | 9 | 13.3 | 8.8 | 11.1 | / | 7.9 | 16 | 0 | 67 | 11 | 4.0 | 12 | 0 | / | / | 2.10 | - | 4 | / | | |
| | 21-end | 23.7 | / | 6 | 5 | 13.5 | 10.2 | 11.9 | / | 8.0 | 22 | 0 | 82 | 21 | 5.0 | 22 | 0 | / | / | 0.76 | - | 4 | / | | |
| | Month | 131.5 | / | 24 | 21 | 13.8 | 9.8 | 11.8 | / | 7.7 | 10 | 0 | 231 | 58 | 4.0 | 12 | 0 | / | / | 1.77 | - | 4 | / | | |
| Glenties Co. Donegal | 1-10 | 19.4 | - | 7 | 5 | 15.7 | 8.3 | 12.0 | / | 2.0 | 01 | 0 | 76 | 22 | 0.3 | 01 | 0 | / | / | 2.98 | - | / | / | | |
| | 11-20 | 51.6 | - | 10 | 9 | 13.5 | 7.1 | 10.3 | / | 5.0 | 15 | 0 | 60 | 07 | 0.5 | 15 | 0 | / | / | 2.05 | - | / | / | | |
| | 21-end | 26.0 | - | 9 | 6 | 13.7 | 9.1 | 11.4 | / | 6.2 | 22 | 0 | 77 | 17 | 1.0 | 22 | 0 | / | / | 0.70 | - | / | / | | |
| | Month | 97.0 | 63 | 26 | 20 | 14.3 | 8.2 | 11.2 | / | 2.0 | 01 | 0 | 213 | 46 | 0.3 | 01 | 0 | / | / | 1.87 | - | / | / | | |

Notes on the tables in January issue

TABLE 1 (Continued)

OCTOBER 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 ⁻¹) | DAYS WITH GALE GUSTS |
| | | | | | | MEAN MAX. | MEAN MIN. | MEAN DAILY | AND DIFFERENCE FROM AVERAGE | LOWEST MIN. | DATE | DAYS WITH AIR FROST | DEGREE DAYS ABOVE 4.0°C | DEGREE DAYS ABOVE 10.0°C | LOWEST "GRASS-MIN." | DATE | DAYS WITH GROUND FROST | MEAN DAILY | DIFFERENCE FROM AVERAGE | | | | |
| Malin Head Co. Donegal | 1-10 | 10.7 | - | 7 | 3 | 15.2 | 10.9 | 13.0 | - | 9.2 | 03 | 0 | 86 | 30 | 7.4 | 03 | 0 | 12.0 | - | 3.30 | - | 9 | 7 |
| | 11-20 | 30.9 | - | 9 | 6 | 13.2 | 9.7 | 11.5 | - | 7.6 | 16 | 0 | 71 | 16 | 6.5 | 15 | 0 | 11.3 | - | 2.25 | - | 7 | 6 |
| | 21-end | 28.5 | - | 5 | 4 | 13.9 | 10.0 | 11.9 | - | 5.8 | 31 | 0 | 83 | 21 | 4.5 | 21 | 0 | 11.3 | - | 1.01 | - | 7 | 4 |
| | Month | 70.1 | 64 | 21 | 13 | 14.1 | 10.2 | 12.1 | +1.6 | 5.8 | 31 | 0 | 240 | 67 | 4.5 | 21 | 0 | 11.5 | +1.1 | 2.15 | 93 | 8 | 17 |
| Dublin Airport Co. Dublin | 1-10 | 22.1 | - | 6 | 5 | 16.0 | 9.5 | 12.7 | - | 5.1 | 04 | 0 | 84 | 28 | -0.9 | 07 | 1 | 12.7 | - | 4.84 | - | 4 | 1 |
| | 11-20 | 3.1 | - | 2 | 1 | 14.4 | 9.6 | 12.0 | - | 6.7 | 18 | 0 | 76 | 22 | 4.0 | 16 | 0 | 12.6 | - | 2.53 | - | 4 | 0 |
| | 21-end | 6.7 | - | 2 | 1 | 15.3 | 9.4 | 12.3 | - | 4.4 | 28 | 0 | 88 | 27 | 1.4 | 28 | 0 | 12.1 | - | 2.93 | - | 4 | 0 |
| | Month | 31.9 | 51 | 10 | 7 | 15.2 | 9.5 | 12.4 | +2.1 | 4.4 | 28 | 0 | 248 | 77 | -0.9 | 07 | 1 | 12.5 | +1.8 | 3.42 | 105 | 4 | 1 |
| Kinsealy Co. Dublin | 1-10 | 19.9 | / | 5 | 4 | 16.4 | 8.7 | 12.5 | / | 3.8 | 07 | 0 | 81 | 25 | 0.0 | 07 | 0 | / | / | 4.52 | / | 4 | / |
| | 11-20 | 4.5 | / | 1 | 1 | 14.3 | 9.2 | 11.7 | / | 5.6 | 18 | 0 | 74 | 20 | 1.5 | 18 | 0 | / | / | 2.66 | / | 3 | / |
| | 21-end | 6.4 | / | 3 | 2 | 15.0 | 8.3 | 11.7 | / | 1.7 | 28 | 0 | 80 | 21 | -1.1 | 28 | 1 | / | / | 2.93 | / | 4 | / |
| | Month | 30.8 | / | 9 | 7 | 15.2 | 8.7 | 12.0 | / | 1.7 | 28 | 0 | 235 | 66 | -1.1 | 28 | 1 | / | / | 3.35 | / | 4 | / |
| Lucan (U.C.D. Field Stn.) Co. Dublin | 1-10 | 16.8 | / | 4 | 4 | 16.2 | 8.4 | 12.3 | / | 4.4 | 04 | 0 | 79 | 24 | 1.0 | 07 | 0 | / | / | NA | / | 3 | / |
| | 11-20 | 3.9 | / | 4 | 1 | 14.1 | 8.4 | 11.3 | / | 5.5 | 16 | 0 | 69 | 17 | 1.2 | 18 | 0 | / | / | 2.07 | / | 2 | / |
| | 21-end | 2.6 | / | 2 | 1 | 14.7 | 7.7 | 11.2 | / | 0.4 | 28 | 0 | 75 | 17 | -1.3 | 28 | 1 | / | / | 2.34 | / | 3 | / |
| | Month | 22.7 | / | 10 | 6 | 15.0 | 8.2 | 11.6 | / | 0.4 | 28 | 0 | 223 | 58 | -1.3 | 28 | 1 | / | / | - | / | 3 | / |
| Galway (Univ. Coll.) Co. Galway | 1-10 | 25.4 | / | 7 | 3 | 16.1 | 10.6 | 13.4 | / | 6.4 | 01 | 0 | 90 | 34 | / | / | / | / | 3.91 | / | / | / | / |
| | 11-20 | 12.8 | / | 5 | 2 | 14.3 | 10.1 | 12.2 | / | 7.8 | 12 | 0 | 78 | 22 | / | / | / | / | 1.64 | / | / | / | / |
| | 21-end | 10.6 | / | 3 | 3 | 14.6 | 9.7 | 12.1 | / | 6.1 | 28 | 0 | 85 | 24 | NA | NA | / | / | 2.31 | / | NA | / | |
| | Month | 48.8 | / | 15 | 8 | 15.0 | 10.1 | 12.6 | / | 6.1 | 28 | 0 | 253 | 80 | / | / | / | / | 2.61 | / | / | / | / |
| Killarney (Muckross Hse) Co. Kerry | 1-10 | 33.0 | / | 6 | 5 | 15.9 | 11.2 | 13.6 | / | 6.6 | 01 | 0 | 92 | 36 | 2.3 | 01 | 0 | / | / | 3.38 | / | / | / |
| | 11-20 | 12.2 | / | 7 | 4 | 14.5 | 10.2 | 12.3 | / | 7.4 | 16 | 0 | 80 | 24 | 6.6 | 12 | 0 | / | / | 0.81 | / | / | / |
| | 21-end | 35.3 | / | 5 | 4 | 15.0 | 8.5 | 11.7 | / | 3.0 | 23 | 0 | 81 | 22 | 1.0 | 27 | 0 | / | / | 2.45 | / | / | / |
| | Month | 80.5 | / | 18 | 13 | 15.1 | 9.9 | 12.5 | / | 3.0 | 23 | 0 | 253 | 82 | 1.0 | 27 | 0 | / | / | 2.22 | / | / | / |
| Cahiriveen (Valentia Obsy.) Co. Kerry | 1-10 | 37.0 | - | 7 | 4 | 16.2 | 11.5 | 13.8 | - | 9.0 | 10 | 0 | 95 | 39 | 6.9 | 01 | 0 | 13.5 | - | 2.96 | - | 6 | 3 |
| | 11-20 | 6.3 | - | 4 | 3 | 14.7 | 10.2 | 12.4 | - | 5.6 | 12 | 0 | 81 | 25 | 4.0 | 12 | 0 | 12.8 | - | 1.51 | - | 4 | 0 |
| | 21-end | 16.3 | - | 5 | 3 | 15.0 | 8.6 | 11.8 | - | 4.9 | 23 | 0 | 82 | 20 | 1.4 | 27 | 0 | 12.7 | - | 2.39 | - | 4 | 0 |
| | Month | 59.6 | 42 | 16 | 10 | 15.3 | 10.0 | 12.7 | +1.1 | 4.9 | 23 | 0 | 258 | 84 | 1.4 | 27 | 0 | 13.0 | +1.2 | 2.29 | 81 | 5 | 3 |

Notes on the tables in January issue

TABLE 1 (Continued)

OCTOBER 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 ⁻¹) | 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 |
| Tralee (Caherwessheen) Co. Kerry | 1-10 | 14.7 | / | 7 | 4 | 17.1 | 10.7 | 13.9 | / | 4.9 | 01 | 0 | 95 | 39 | -0.2 | 01 | 1 | / | / | 4.36 | / | / | / |
| | 11-20 | 13.1 | / | 6 | 4 | 15.2 | 10.8 | 13.0 | / | 8.9 | 19 | 0 | 86 | 30 | -3.7 | 12 | 0 | / | / | 1.22 | / | / | / |
| | 21-end | 15.7 | / | 2 | 2 | 15.7 | 8.9 | 12.3 | / | 5.5 | 23 | 0 | 87 | 25 | -0.2 | 23 | 1 | / | / | 2.95 | / | / | / |
| | Month | 43.5 | / | 15 | 10 | 16.0 | 10.1 | 13.1 | / | 4.9 | 01 | 0 | 268 | 94 | -0.2 | 01 | 2 | / | / | 2.85 | / | / | / |
| Lullymore Co. Kildare | 1-10 | 19.7 | / | 6 | 5 | 16.0 | 8.2 | 12.1 | / | 3.3 | 04 | 0 | 77 | 23 | 1.7 | 10 | 0 | / | / | 3.41 | / | 5 | / |
| | 11-20 | 4.4 | / | 6 | 2 | 14.1 | 8.3 | 11.2 | / | 4.2 | 16 | 0 | 68 | 17 | -1.7 | 16 | 2 | / | / | 1.71 | / | 4 | / |
| | 21-end | 8.5 | / | 2 | 2 | 14.2 | 7.1 | 10.7 | / | 0.8 | 28 | 0 | 69 | 13 | -2.5 | 23 | 3 | / | / | 0.65 | / | 4 | / |
| | Month | 32.6 | / | 14 | 9 | 14.8 | 7.9 | 11.3 | / | 0.8 | 28 | 0 | 214 | 53 | -2.5 | 23 | 5 | / | / | 1.88 | / | 4 | / |
| Kilkenny Co. Kilkenny | 1-10 | 24.7 | - | 7 | 4 | 15.9 | 9.1 | 12.5 | - | 1.9 | 04 | 0 | 81 | 27 | -1.4 | 04 | 1 | 12.6 | - | 3.14 | - | 3 | 0 |
| | 11-20 | 3.2 | - | 5 | 1 | 14.6 | 9.4 | 12.0 | - | 6.3 | 16 | 0 | 76 | 21 | 1.0 | 16 | 0 | 12.4 | - | 1.51 | - | 3 | 2 |
| | 21-end | 6.8 | - | 2 | 1 | 14.8 | 6.7 | 10.7 | - | -0.5 | 23 | 1 | 70 | 15 | -3.0 | 23 | 1 | 11.4 | - | 1.78 | - | 2 | 0 |
| | Month | 34.7 | 41 | 14 | 6 | 15.1 | 8.3 | 11.7 | +1.8 | -0.5 | 23 | 1 | 227 | 63 | -3.0 | 23 | 2 | 12.1 | +1.5 | 2.13 | 72 | 3 | 2 |
| Mooncoin (Silverspring) Co. Kilkenny | 1-10 | 27.7 | / | 6 | 4 | 16.0 | 8.8 | 12.4 | / | 2.1 | 04 | 0 | 80 | 26 | -2.4 | 04 | 1 | / | / | 3.39 | / | / | / |
| | 11-20 | 2.2 | / | 4 | 0 | 14.5 | 8.2 | 11.4 | / | 1.1 | 13 | 0 | 70 | 18 | -1.1 | 16 | 1 | / | / | 1.25 | / | / | / |
| | 21-end | 7.3 | / | 2 | 2 | 15.1 | 16.9 | 11.0 | / | -0.4 | 23 | 1 | 72 | 14 | -4.0 | 23 | 1 | / | / | 2.38 | / | / | / |
| | Month | 37.2 | / | 12 | 6 | 15.2 | 7.9 | 11.6 | / | -0.4 | 23 | 1 | 222 | 58 | -4.0 | 23 | 3 | / | / | 2.34 | / | / | / |
| Ballinamore Co. Leitrim | 1-10 | 28.4 | / | 9 | 6 | 15.8 | 9.2 | 12.5 | / | 6.1 | 04 | 0 | 83 | 26 | 1.5 | 07 | 0 | / | / | 3.85 | / | 3 | / |
| | 11-20 | 21.1 | / | 9 | 4 | 13.6 | 8.8 | 11.2 | / | 7.3 | 16 | 0 | 69 | 14 | 3.9 | 12 | 0 | / | / | NA | / | 3 | / |
| | 21-end | 18.7 | / | 6 | 5 | 14.1 | 8.6 | 11.4 | / | 4.4 | 23 | 0 | 77 | 18 | -0.7 | 22 | 1 | / | / | 1.45 | / | 3 | / |
| | Month | 68.2 | / | 24 | 15 | 14.5 | 8.9 | 11.7 | / | 4.4 | 23 | 0 | 229 | 58 | -0.7 | 22 | 1 | / | / | - | / | 3 | / |
| Ardee (Boharnamoe) Co. Louth | 1-10 | 12.3 | / | 4 | 3 | 16.3 | 8.9 | 12.6 | / | 4.5 | 04 | 0 | 82 | 26 | -3.2 | 04 | 3 | / | / | / | / | / | / |
| | 11-20 | 4.8 | / | 5 | 2 | 14.1 | 8.4 | 11.2 | / | 5.2 | 18 | 0 | 69 | 15 | -2.9 | 18 | 2 | / | / | / | / | / | / |
| | 21-end | 9.1 | / | 4 | 2 | 14.8 | 8.1 | 11.5 | / | 3.2 | 28 | 0 | 78 | 19 | -3.2 | 22 | 2 | / | / | / | / | / | / |
| | Month | 26.2 | / | 13 | 7 | 15.1 | 8.5 | 11.8 | / | 3.2 | 28 | 0 | 229 | 60 | -3.2 | 04 | 7 | / | / | / | / | / | / |
| Ballinrobe (Greagh) Co. Mayo | 1-10 | 28.5 | / | 6 | 5 | 16.0 | 9.2 | 12.6 | / | 4.2 | 01 | 0 | 82 | 26 | -2.7 | 01 | 1 | / | / | 3.60 | / | 4 | / |
| | 11-20 | 10.1 | / | 6 | 2 | 14.4 | 8.6 | 11.5 | / | 3.8 | 12 | 0 | 71 | 16 | -1.7 | 12 | 1 | / | / | 1.73 | / | 2 | / |
| | 21-end | 8.1 | / | 3 | 2 | 14.7 | 9.5 | 12.1 | / | 4.7 | 23 | 0 | 85 | 25 | -2.7 | 23 | 2 | / | / | 1.33 | / | 2 | / |
| | Month | 46.7 | / | 15 | 9 | 15.0 | 9.1 | 12.1 | / | 3.8 | 12 | 0 | 238 | 67 | -2.7 | 01 | 4 | / | / | 2.19 | / | 3 | / |

Notes on the tables in January issue

TABLE 1 (Continued)

OCTOBER 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 ⁻¹) | DAYS WITH GALE GUSTS | | | | | | | | | | | | | | | | | | |
| | | | | | | MEAN MAX. | MEAN MTE | MEAN DAILY | AND DIFFERENCE FROM AVERAGE | LOWEST MIN. | DATE | DAYS WITH AIR FROST | DEGREE DAYS ABOVE 4.4°C | WARMER DAYS ABOVE 10.0°C | LOWEST "GRASS-MIN." | DATE | DAYS WITH GROUND FROST | MEAN DAILY | DIFFERENCE FROM AVERAGE | | | | | MEAN DAILY (HRS.) | % OF AVERAGE | | | | | | | | | | | | | | | | |
| Dungarvan (Ballygagin) Co. Waterford | 1-10 11-20 21-end Month | / | / | / | / | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Mullingar e Co. Westmeath | 1-10 11-20 21-end Month | 17.3 12.0 12.6 41.9 | - - - 46 | 6 8 4 18 | 4 3 3 10 | 15.3 14.0 14.5 14.6 | 8.5 9.1 7.5 8.3 | 11.9 11.5 11.0 11.5 | - - - +2.0 | 4.8 5.4 0.9 0.9 | 04 15 28 28 | 0 0 0 0 | 75 72 72 219 | 21 18 19 58 | 0.9 1.2 0.5 0.5 | 04 16 28 28 | 0 0 0 0 | 12.2 12.0 11.4 11.9 | - - - +1.6 | 4.21 2.11 2.55 2.94 | - - - 105 | 5 4 4 4 | 0 1 1 2 | | | | | | | | | | | | | | | | | | |
| Campile (Ballysop) Co. Wexford | 1-10 11-20 21-end Month | 28.9 2.5 5.1 36.5 | / | 6 2 2 10 | 5 1 1 7 | 15.4 14.3 14.4 14.7 | 9.7 9.3 8.5 9.1 | 12.5 11.8 11.5 11.9 | / | 4.5 3.6 2.7 2.7 | 04 16 27 27 | 0 0 0 0 | 81 74 78 233 | 26 22 19 67 | 0.5 -1.0 -0.1 -1.0 | 04 18 23 18 | 0 2 1 3 | / | / | 3.37 1.88 2.25 2.49 | / | NA | / | | | | | | | | | | | | | | | | | | |
| Clonroche Co. Wexford | 1-10 11-20 21-end Month | 34.9 2.0 5.5 42.4 | / | 7 2 3 12 | 5 1 1 7 | 15.2 13.8 14.7 14.6 | 8.9 8.6 7.7 8.3 | 12.0 11.2 11.2 11.5 | / | 4.6 3.1 2.5 2.5 | 04 16 23 23 | 0 0 0 0 | 77 68 75 220 | 21 17 17 55 | -2.4 -4.4 -3.8 -4.4 | 04 16 23 16 | 2 2 2 6 | / | / | 3.67 1.76 2.74 2.72 | / | 3 2 2 2 | / | | | | | | | | | | | | | | | | | | |
| Johnstown Castle Co. Wexford | 1-10 11-20 21-end Month | 46.7 0.7 7.0 54.4 | - - - 59 | 6 2 2 10 | 4 0 2 6 | 15.2 14.1 14.8 14.7 | 10.0 9.6 8.9 9.5 | 12.6 11.8 11.9 12.1 | / | 6.0 5.6 2.6 2.6 | 04 18 25 25 | 0 0 0 0 | 82 75 82 239 | 26 21 21 68 | 1.6 1.0 -1.0 -1.0 | 02 16 23 23 | 0 0 1 1 | / | / | 3.75 1.58 2.66 2.66 | / | 4 3 3 3 | / | | | | | | | | | | | | | | | | | | |
| Rosslare e Co. Wexford | 1-10 11-20 21-end Month | 52.1 0.2 16.2 68.5 | - - - 85 | 6 0 1 7 | 4 0 1 5 | 15.3 14.0 14.8 14.7 | 10.7 10.2 10.3 10.4 | 13.0 12.1 12.5 12.6 | - - - +1.3 | 6.0 6.3 5.7 5.7 | 04 16 23 23 | 0 0 0 0 | 86 77 90 253 | 30 22 28 80 | 2.4 3.8 1.9 1.9 | 04 16 23 23 | 0 0 0 0 | 13.4 12.6 12.7 12.9 | - - - +1.1 | 3.92 1.41 2.71 2.68 | - - - 71 | 6 4 4 5 | 2 2 0 4 | | | | | | | | | | | | | | | | | | |

Notes on the tables in January issue

TABLE 1 (Continued)

OCTOBER 1979

| 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 ⁻¹) | 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 Co. Mayo | 1-10 | 32.9 | - | 7 | 5 | 14.8 | 10.2 | 12.5 | - | 5.6 | 01 | 0 | 81 | 26 | 2.8 | 01 | 0 | 12.3 | - | 2.06 | - | 8 | 4 | |
| | 11-20 | 19.3 | - | 9 | 3 | 13.6 | 9.4 | 11.5 | - | 7.2 | 12 | 0 | 70 | 14 | 3.0 | 12 | 0 | 11.9 | - | 2.07 | - | 6 | 3 | |
| | 21-end | 17.9 | - | 6 | 4 | 13.7 | 10.6 | 12.2 | - | 6.3 | 31 | 0 | 86 | 25 | 5.0 | 22 | 0 | 12.3 | - | 0.90 | - | 7 | 0 | |
| | Month | 70.1 | 62 | 22 | 12 | 14.1 | 10.1 | 12.1 | +1.3 | 5.6 | 01 | 0 | 237 | 65 | 2.8 | 01 | 0 | 12.2 | +1.0 | 1.65 | 58 | 7 | 7 | |
| Claremorris Co. Mayo | 1-10 | 21.8 | - | 8 | 5 | 15.3 | 9.2 | 12.3 | - | 4.3 | 01 | 0 | 79 | 23 | 2.4 | 01 | 0 | 12.2 | - | 3.33 | - | 5 | 0 | |
| | 11-20 | 15.6 | - | 9 | 5 | 13.7 | 9.1 | 11.4 | - | 5.1 | 12 | 0 | 70 | 15 | 3.1 | 12 | 0 | 11.9 | - | 1.75 | - | 3 | 1 | |
| | 21-end | 8.8 | - | 6 | 3 | 14.2 | 8.3 | 11.3 | - | 3.1 | 31 | 0 | 76 | 18 | 1.3 | 23 | 0 | 11.6 | - | 1.12 | - | 3 | 0 | |
| | Month | 46.2 | 39 | 23 | 13 | 14.4 | 8.8 | 11.6 | +1.9 | 3.1 | 31 | 0 | 225 | 56 | 1.3 | 23 | 0 | 11.9 | +1.6 | 2.04 | 80 | 4 | 1 | |
| Glenamoy Co. Mayo | 1-10 | 44.9 | / | 7 | 6 | 15.1 | 9.3 | 12.2 | / | 3.9 | 01 | 0 | 78 | 24 | 2.4 | 01 | 0 | / | / | 3.01 | / | / | / | |
| | 11-20 | 31.8 | / | 9 | 6 | 13.6 | 8.5 | 11.0 | / | 6.5 | 12 | 0 | 67 | 11 | 3.0 | 12 | 0 | / | / | 1.76 | / | / | / | |
| | 21-end | 23.0 | / | 8 | 6 | 14.0 | 10.0 | 12.0 | / | 6.1 | 23 | 0 | 84 | 23 | 3.3 | 22 | 0 | / | / | 0.84 | / | NA | / | |
| | Month | 99.7 | / | 24 | 18 | 14.2 | 9.3 | 11.7 | / | 3.9 | 01 | 0 | 229 | 58 | 2.4 | 01 | 0 | / | / | 1.84 | / | NA | / | |
| Dunsany (Grange) Co. Meath | 1-10 | 16.8 | - | 7 | 4 | 15.8 | 8.9 | 12.4 | / | 5.0 | 04 | 0 | 80 | 24 | NA | | | / | / | 4.16 | / | / | / | |
| | 11-20 | 4.5 | - | 4 | 2 | 13.7 | 8.4 | 11.0 | / | 4.8 | 18 | 0 | 66 | 15 | | | | 2.26 | / | / | 2.26 | / | NA | / |
| | 21-end | 9.3 | - | 3 | 3 | 14.1 | 7.3 | 10.7 | / | 1.2 | 28 | 0 | 70 | 14 | | | | 2.21 | / | / | 2.21 | / | NA | / |
| | Month | 30.6 | 39 | 14 | 9 | 14.5 | 8.2 | 11.3 | / | 1.2 | 28 | 0 | 216 | 53 | | | | 2.85 | / | / | 2.85 | / | NA | / |
| Clones Co. Monaghan | 1-10 | 30.7 | - | 7 | 5 | 15.5 | 9.0 | 12.3 | - | 6.0 | 04 | 0 | 79 | 24 | 2.0 | 04 | 0 | 12.0 | - | 3.85 | - | 5 | 1 | |
| | 11-20 | 15.9 | - | 5 | 4 | 13.6 | 8.8 | 11.2 | - | 7.1 | 15 | 0 | 68 | 14 | 3.0 | 13 | 0 | 11.5 | - | 1.94 | - | 4 | 1 | |
| | 21-end | 12.6 | - | 4 | 3 | 14.3 | 9.0 | 11.6 | - | 4.2 | 31 | 0 | 80 | 22 | 0.3 | 23 | 0 | 11.5 | - | 1.55 | - | 4 | 0 | |
| | Month | 59.2 | 65 | 16 | 12 | 14.5 | 8.9 | 11.7 | +2.3 | 4.2 | 31 | 0 | 227 | 60 | 0.3 | 23 | 0 | 11.7 | +1.6 | 2.42 | 99 | 4 | 2 | |
| Birr Co. Offaly | 1-10 | 20.3 | - | 4 | 2 | 15.8 | 9.5 | 12.6 | - | 5.4 | 01 | 0 | 83 | 27 | 2.5 | 01 | 0 | 12.7 | - | 3.84 | - | 4 | 0 | |
| | 11-20 | 12.3 | - | 6 | 3 | 14.0 | 9.5 | 11.7 | - | 6.3 | 15 | 0 | 74 | 19 | 3.7 | 16 | 0 | 12.4 | - | 1.45 | - | 3 | 1 | |
| | 21-end | 13.1 | - | 4 | 3 | 14.8 | 8.2 | 11.5 | - | 3.9 | 31 | 0 | 78 | 21 | -0.5 | 27 | 1 | 11.7 | - | 2.37 | - | 3 | 1 | |
| | Month | 45.7 | 56 | 14 | 8 | 14.8 | 9.1 | 11.9 | +2.0 | 3.9 | 31 | 0 | 235 | 67 | -0.5 | 27 | 1 | 12.3 | +1.7 | 2.61 | 88 | 9 | 2 | |
| Thurles Co. Tipperary | 1-10 | 33.8 | - | NA | NA | NA | NA | - | - | - | - | - | - | - | - | - | - | / | / | 2.89 | / | / | / | |
| | 11-20 | 7.1 | - | 5 | 3 | 14.1 | 9.2 | 11.7 | - | 5.8 | 16 | 0 | 73 | 18 | -1.3 | 16 | 2 | / | / | 1.22 | / | / | / | |
| | 21-end | 10.9 | - | NA | NA | NA | NA | - | - | - | - | - | - | - | - | - | - | / | / | NA | / | / | / | |
| | Month | 51.8 | 59 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | / | / | - | / | / | / | |

Notes on the tables in January issue

TABLE 2

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

OCTOBER 1978

| STATION | PERIOD | SOLAR RADIATION | P.E. (mm) | SOIL MOISTURE (mm) | | |
|---|--------|---------------------------------|-----------|--------------------|------------------------|---------|
| | | Amount Joule/cm ² | Amount | Deficit | Accumulated Deficit | Surplus |
| Carlow (Oak Park) Co. Carlow | 1-10 | | | | | |
| | 11-20 | | | | | |
| | 21-end | - | | | | |
| | Month | | | Not available | | |
| Kinsealy* Co. Dublin | 1-10 | 9268 | 16 | 0 | 26 | 4 |
| | 11-20 | 6355 | 10 | 6 | 32 | - |
| | 21-end | 6202 | 7 | 0 | 32 | - |
| | Month | 21825 | 33 | - | - | - |
| Cahiriveen e (Valentia Obsy.) Co. Kerry | 1-10 | 7570 | 19 | - | 0 | 17 |
| | 11-20 | 5006 | -4 | - | 0 | 12 |
| | 21-end | 5059 | 9 | - | 0 | 7 |
| | Month | 17635 | 24 | - | - | - |
| Kilkenny e Co. Kilkenny | 1-10 | 7674 | | | | |
| | 11-20 | 5413 | | | | |
| | 21-end | 5074 | | | | |
| | Month | 18161 | | | | |
| Ballinamore Co. Leitrim | 1-10 | | 12 | - | 0 | 16 |
| | 11-20 | | 9 | - | 0 | 12 |
| | 21-end | - | 3 | - | 0 | 16 |
| | Month | | 24 | - | - | - |
| Glenamoy/ Co. Mayo | 1-10 | | 13 | - | 0 | 32 |
| | 11-20 | | 2 | - | 0 | 30 |
| | 21-end | - | 2 | - | 0 | 21 |
| | Month | | 17 | - | - | - |
| Birr e Co. Offaly | 1-10 | 8706 | | | | |
| | 11-20 | 5286 | | | | |
| | 21-end | 5593 | | | | |
| | Month | 19585 | | | | |
| Johnstown Castle Co. Wexford | 1-10 | | 23 | - | 28 | 31 |
| | 11-20 | | 8 | 7 | 35 | - |
| | 21-end | - | 13 | 5 | 40 | - |
| | Month | | 44 | - | - | - |

*, /, See notes in January issue.