



# SNOW SURVEY OF GREAT BRITAIN 1977/78

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## 1. Introduction

The material from which this report is compiled has been obtained largely from daily records provided by a special network of observers; these reports are supplemented by snow data from routine climatological returns as mentioned below. Most of the observers in the special Snow Survey network are associated with stations which submit rainfall or other weather information to the Meteorological Office and, for simplicity, it is assumed in the majority of cases that these snow data are observed at the same sites. Observers send their reports to the Meteorological Office each month throughout the main snow-liability season which is taken to begin in October and to end the following May. A few observers, mainly in Scotland, provide special reports throughout the year and their data for the summer of 1977 have been incorporated as brief notes in the text.

Observers report days on which snow or sleet\* is known to have occurred at the station at some time, and days with snow lying and the total depth of undrifted snow at the station, normally at about 09 GMT. Observers also send, where possible, notes on snow cover in the surrounding hills or mountains at various heights (at intervals of about 150 metres) even if snow cover does not extend down to station level. Snow lying at the station and snow cover in the hills or mountains implies that the ground is at least half covered with snow.

As an aid in writing the text the reports from the Snow Survey network have been supplemented by snow information given by stations sending monthly climatological returns to the Meteorological Office. Lack of space precludes the inclusion of all this extra information in this report but certain snow data for these stations are given in the *Monthly Weather Report* of the Meteorological Office published by Her Majesty's Stationery Office. However, data for a selection of these stations have been included in this report in order to fill gaps in the network; these stations are distinguished by the sign # in Table 3. Use has been made of the *Monthly Weather Report* and returns from stations appearing in it to provide data for Tables 1 and 2. Without the co-operation of those responsible for voluntary observations this report could not have been prepared and the Meteorological Office thanks all concerned.

## 2. Presentation of the data

### 2.1 Text

The first part of the text summarizes month by month the snow observations made in Scotland during the summer of 1977. The main report commences with a general description of the 1977/78 snow season in terms of

the total number of days with snow falling and lying. Notes on each individual month then follow; these include details of mean temperature, total precipitation, times of snowy periods and frequencies of days of snow falling and snow lying. It should be borne in mind that such short descriptions are necessarily in very general terms in view of the nature of snow and its occurrence.

### 2.2 Tables

The tables supplement the descriptive text. Some amendments and extensions have been made to the tables this season.

*Table 1* provides a comparison of the snow seasons from 1946/47 to 1977/78. The table has been compiled from data published in the *Monthly Weather Report*; a few values in this table include estimates for missing data but in most cases data for only one month have been estimated. Dashes indicate that no data are available. To provide homogeneous records data have been given for as long a period as possible. In the column headed Fort Augustus/Corpach observations from Corpach go back to the season 1968/69, those for Fort Augustus being used for the earlier years. At Balmoral records of days of snow cover are available for the whole period but there are none of days of snow falling between the seasons 1949/50 and 1957/58; for these observations from Braemar have been used.

*Table 2* gives daily depths of snow in centimetres at a selection of stations. The number of stations in this table has been increased from ten to twenty this season.

*Table 3* is the main table in the report and gives for each station in Figure 1 the following four values for each month and for the season:

- (a) number of days when snow fell at the station,
- (b) number of days when snow was lying at the station,
- (c) a measurement of the maximum depth of undrifted snow lying at the station,
- (d) the earliest date when this maximum depth of snow was attained.

*Table 4* lists the number of days each month and during the season when snow was seen lying at three stated levels observed from a selection of stations; these data are more fully plotted in Figure 2. It should be noted that values in this table do not include days when the mountains were obscured by low cloud etc.; such days are indicated in Figure 2.

### 2.3 Diagrams

*Figure 1* shows the network of special Snow Survey stations together with the stations from the climatological network used to improve the coverage. Figure 1 also shows the county boundaries and the climatological dis-

tracts (identical with those used in the Monthly Weather Report) referred to in Table 3.

Figure 2 illustrates the variation in duration and extent of snow cover with height observed from twelve named stations.

### 3. Snow observations in the Scottish mountains during the summer of 1977

#### June 1977

During the first two weeks sleet was reported on a few occasions in the Scottish Highlands, and some snow fell on high ground in Scotland on the 10th and 11th. There was snow cover above 1200 m all month in the Grampians, although towards the end of the month it was mainly in patches in sheltered corries. Snow lay in some places down to 1000 m at the beginning of the month and temporarily down to 300 m on the 11th.

#### July 1977

Snow lay on the summits in the Scottish Highlands mainly in the sheltered corries and gullies. Patches remained above 1000 m in places in the Grampians.

#### August 1977

A few patches of snow still remained in sheltered areas in sheltered areas in the Central Highlands.

#### September 1977

Snow or sleet fell over the higher ground of the Scottish Highlands during the first week and on the last few days.

Small patches of last season's snow still remained in the Central Highlands. Fresh snow lay down to 1200 m on the 8th and 9th and at the end of the month there was snow cover down to 900 m in the Grampians and Cairngorms.

### 4. Snow observations in Great Britain during the season 1977-78

#### 4.1 Number of days with snow or sleet\* falling

Over Great Britain as a whole there were more days of snow or sleet falling in the 1977-78 season than in the previous season and more than 30 per cent above the 1941-70 average. The outstanding features of this season were the blizzards which occurred in east Scotland and northeast England in January and in southwest England and South Wales in February. These blizzards produced the most severe conditions experienced for many years. On the higher ranges of the Grampians and Cairngorms snowfall was reported on about 120 days. Generally over the high ground of the Scottish Highlands snow fell on 80-100 days. Over the Southern Up-

lands, the Pennines and the Lake District, on the higher ground of North Wales and also on the lower ground of north and west Scotland there was snow or sleet on 60-70 days. Snow fell on 40-50 days on the higher ground of southwest England and South Wales also on the Yorkshire moors and Wolds, in Norfolk, and in some coastal regions of Scotland and north England. Most of the rest of Britain had snow or sleet on 20-30 days, except for east and southeast England, the extreme southwest England and areas around the Firth of Lorne where less than 20 days of snow occurred.

#### 4.2 Number of days with snow lying

The snow cover was very variable compared both with last season and with the 1941-70 average. Wales and southern England and isolated places in Scotland had more days of snow cover than last season, but most of Scotland and northern England had fewer days. Overall the frequency of snow cover was about average but places in Wales had nearly twice the normal incidence while parts of the Midlands and in the Great Glen only about 50 per cent of average occurred. There was snow cover at altitudes above 900 m for more than 200 days in the Central Highlands of Scotland and at levels of about 400 m there were 100-130 days with snow lying. On the Southern Uplands and at lower levels in north Scotland snow lay for 40-60 days. In east Scotland snow lay for 30-40 days and in the west it lay for less than 20 days. Over the Pennines, the Lake District and North Wales there were 80-100 days of snow cover and on 40-60 days snow lay at levels of about 400 m. On the high ground of South Wales and southwest England snow lay for 20-30 days. Generally at lower levels in England and Wales snow lay for 20-30 days in the east and for 10 days or less in the Midlands and the west.

#### 4.3 Notes on the weather of individual months

##### October 1977

Mean temperatures were above average in all areas. Precipitation was above average in southern Scotland and most western areas of Britain; Edinburgh had more than twice the normal amount. Only about half the average precipitation fell in places in northeast Scotland and southeast England.

Snow or sleet fell in the Shetland Islands and over the Scottish Highlands during the first week and again on the 31st. Snow lay on the summits in the Central Highlands on about 8 days and down to 750 m on about 5 days. No snow was reported lying in the Southern Uplands or in England and Wales.

##### November 1977

It was mild at first, but cold during the second half of the month. Mean temperatures were above average in southeast and east England but below average else-

where especially in north and west Scotland. Precipitation was above average in most of Scotland (about twice the normal amount in the northwest), in Wales and in places in north England. Elsewhere amounts were slightly less than normal.

Sleet fell on the first few days of the month in Shetland and parts of the Scottish Highlands, with some snow on the higher ground. Around mid-month sleet fell in most parts of Britain turning to snow over the more elevated regions. On the 20th and 21st snow was widespread in Scotland and north England and scattered falls of snow or sleet occurred in other parts of Britain. A depth of 33 cm was recorded at Whitehillocks (Tayside) on the 21st and drifts of more than 90 cm occurred in Shetland. Snow was reported between the 23rd and 27th on the higher ground in Scotland and Wales, in north England, and also in southwest England and on the North Downs.

Snowfall was more frequent than normal in nearly all areas; over the upland areas there were about twice the normal number of days with snow or sleet. Snow or sleet fell on 15-20 days in Shetland and in the Central Highlands of Scotland, and on 10-15 days in the Northwest Highlands, and Southern Uplands. Over the high ground of the Pennines and North Wales snow or sleet or fell on 6-10 days, while on other high ground in Wales, southwest England and on the Yorkshire moors and Wolds it fell on about 5 days. The rest of the country had generally less than 3 days with snow or sleet.

Snow lay all month on the summits of the Scottish Highlands. On the Southern Uplands and down to about 600 m in the Highlands snow lay for 15-20 days. Over the high ground of the Pennines and North Wales there was snow cover for 10-20 days and on Dartmoor the snow lay for about 6 days. On the low ground in Scotland snow lay for less than 5 days while in most of England and Wales little or no snow lay.

### *December 1977*

Mean temperatures were about average in western coastal areas and above average elsewhere. Precipitation was above average in many parts of England and Wales but north and northwest Scotland had less than half the normal precipitation.

Sleet and snow fell in the more elevated regions of Britain, except for southwest England, on the 6th to the 8th; falls were heavy for a time in Shetland on the 7th. An accumulation of 20 cm was measured at Derry Lodge (Grampian) on the 8th. Sleet and snow showers occurred in all regions on the 27th and 28th; in some places in the Central Highlands, the Peak District and the high ground of southwest England there were further falls on the 30th and 31st.

Snowfall in Shetland was about average, but in all other areas it was well below average. In Shetland and the

high ground of the Central Highlands there were about 10 days of snow or sleet. Generally in the Scottish Highlands and the higher regions of the Southern Uplands snow or sleet fell on 3-6 days. Most of the rest of Britain had less than 3 days with snow; the west coastal areas and most of southeast England having no snow at all.

The summits of the Grampian and Cairngorm ranges and the central regions of the Northwest Highlands down to about 600 m remained snow covered all month. Snow lay on the higher parts of the Southern Uplands on 10-20 days. Where snow did fall on the lower ground in Scotland it lay for only one or two days. There were 10-15 days with snow lying on the summits in North Wales and 5-10 days on the high ground of the Pennines; elsewhere in England and Wales there was little or no snow lying.

### *January 1978*

Mean temperatures were slightly below average in Scotland, northern England and Cornwall, and about or slightly above average elsewhere. Precipitation was below or about average in some western districts, but above normal elsewhere. More than twice the normal precipitation fell in places in the Central Highlands and in Cumbria.

Snow or sleet showers fell on the 2nd and 3rd in Scotland, and on the high ground of the Pennines and northeast Wales, also in East Anglia. Snow fell in all areas during the second and third weeks. Heavy snow showers on the 10th combined with strong winds caused much drifting on the 11th and 12th in Scotland and the Pennines with some disruption of traffic. A depth of 30 cm was recorded at Brig o' Turk (Central) on the 11th and on the same date Ardtalnaig (Tayside) recorded a depth of 25 cm as the deepest level snow measured there in 28 years. On the 19th there was widespread snow across the whole of Britain with heavy falls in Scotland, northern England and East Anglia, accompanied by strong southeasterly winds. The Glasgow area had its heaviest snowfall for 30 years: 17 cm accumulated in 12 hours at the airport. In the Pennines and the Peak District depths of 15-20 cm were recorded. From the 20th to 28th there were more sleet and snow showers in nearly all areas. Severe northerly gales and heavy snowfall resulted in severe blizzard conditions in northern Britain on the 28th and 29th, the most severe storm in Scotland and northeast England for many years. There was considerable disruption to communications and power supplies, mainly in eastern regions, cars and trains being buried in the snow drifts, and great loss of livestock on the farms. A number of places in Scotland had depths of level snow between 40 cm and 60 cm; Clashnoir (Grampian) reported an accumulation of 90 cm on the 30th and 31st and Moor House (Cumbria) recorded 83 cm on the 31st. Much drifting of the snow occurred with the gale force winds; Mossy Hill (Shetland) reported 5 metre drifts on the 29th and there were drifts up to 6 metres in

many places in east Scotland. Severe drifting was reported on the high ground in the Southern Uplands. North Wales was also affected; 3 metre drifts were reported above about 450 m in Snowdonia. Further snow, heavy in places, especially in central and southern Scotland fell on the 31st.

There were more days of snow or sleet than normal in most areas. East and central Scotland and northeast England especially had considerably more than the average frequency. There were 20-30 days with snow on the higher regions of the Central Highlands and 15-20 days in Shetland, the central and eastern parts of the Northwest Highlands and in the higher areas of the Southern Uplands. In the rest of Scotland there were about 10 days of snow or sleet although in the extreme western areas there were less than 5 days. The Peak District had 20-25 days with snow or sleet and on the high ground of the Pennines there were generally 15-20 days. On the low ground in the northeast of England there were about 10 days of snow or sleet and rather less on the western side. In the east Midlands, the more elevated areas of East Anglia and on the moors of southwest England there were 10-15 days with snow. The rest of England had about 5-10 days with snow or sleet. In Wales there were 15-20 days with snow on the high ground and 5-10 days on the low ground generally, but less than 5 days of snow or sleet occurred on the southwest coasts.

Snow lay all month on the higher ground of the Scottish Highlands and down to about 600 m in parts of the Grampians. There was snow cover for 25-30 days above 450 m in the Southern Uplands. On the low ground in Scotland snow lay for 10-15 days in the east and 5-10 days in the west. In the Pennines and north Wales snow lay for 20-25 days on the high ground and on about 15 days down to levels of about 450 m. On the low ground in the north of England and Wales snow lay for 5-10 days. There was snow cover for up to 15 days on the high ground of south Wales and on Exmoor and Dartmoor. On the low ground in south Wales and southern England snow lay for less than 5 days.

### **February 1978**

Mean temperatures were below average. The extreme southeast England and parts of Wales and northwest Britain had below average precipitation, less than 50 per cent of normal falling in parts of northwest Scotland. Over twice the normal amount fell in east Scotland and southwest England, with as much as 300 per cent of average occurring in parts of Devon.

During the first few days snow was mainly confined to the higher ground in north Britain. On the 1st depths of over 50 cm were reported in northeast Scotland, and 120 cm level snow with drifts up to 5 metres occurred in the Cairngorms; these were accumulations from the blizzards in the end of January. Snow fell on most days from the 6th to the 22nd in north Britain and between the 8th

and 20th in southern areas. In the second week snow was widespread over the whole of Britain especially in eastern areas where heavy falls occurred and accumulated depths of 47 cm at Catcleugh (Northumberland) and 46 cm at Hopes (Lothian) were recorded on the 14th. From mid-month snowfalls were most frequent in southwest England and Wales. On the 18th and 19th strong to gale easterly winds and snow brought blizzards to these areas causing severe drifting and consequent disruption to communications and to power and water supplies. Blowing snow made depths difficult to measure but some recordings on the 19th included 85 cm at Nettlecombe Bird Hill (Somerset); 62 cm at Hawkridge (Somerset) with drifts up to 6 metres; 60 cm at Chagford (Devon); 30 cm at Dorchester (Dorset) with drifts to 1.5 m and on the 20th 56 cm at Merthyr Tydfil (Mid Glamorgan) with drifts to 3 m. These are the greatest depths that have been recorded in the southwest for at least 15 years.

The frequency of days with snow or sleet was about average over the country as a whole; only Shetland, southeast Scotland and northeast England had appreciably more than the normal number of days with snow. Snow fell in Shetland on about 20 days and on the high ground in Scotland and the Pennines, and also in East Anglia on 10-15 days. In central England and over the high ground of southwest England and South Wales there were about 10 days of snow or sleet. Most of the rest of the country had 5 days or less with snow or sleet.

Snow lay all month on the higher ground in Scotland and down to 450 m in many central areas. On the low ground in Scotland snow lay 15-25 days in the east and for 5-8 days in the west. Some elevated areas in the north Pennines had snow cover all month, while further south the snow remained on the high ground for about 20 days. At lower levels in northern England snow lay for 10-18 days although on the west coast there were less than 5 days with snow cover. Over the rest of England snow remained on the higher ground for about 10-15 days while on the low ground it generally remained for 2-6 days; in some places in the southern counties, however, 10 days of snow cover were recorded. Some of the summits in north Wales had snow cover all month, but generally in Wales at levels over 450 m snow lay for 10-20 days and at lower levels snow lay for about 5-8 days.

### **March 1978**

Mean temperatures were generally near to or above average. Precipitation was below average in parts of Wales, northeast England and over most of the Midlands. All other areas had more than normal precipitation; northwest England, west Scotland and the Central Highlands had more than twice the average amount with some places in Scotland having their wettest March on record.

Snow fell in Shetland and north Scotland and in some parts of the Cairngorms on the 4th to the 6th. Drifts of up to 1.5 m were recorded in the Northwest Highlands; many places having accumulations of snow from falls in February. Showers or longer periods of snow or sleet fell in most parts of Britain on the 15th to 17th; 13 cm of level snow was reported at Stanford (Leicestershire) on the 15th. Further snow fell in all areas between the 20th and 23rd with heavy falls being reported over the high ground in north Wales. Depths of 13 cm occurred in places in the Central Highlands. Snowfall continued in northern areas from time to time until the 28th.

Snow fall was about average in most areas; rather above average over the high ground of the Central Highlands, the south Pennines, Wales and on Dartmoor. Snow fell on the high ground in the Grampians and Cairngorms on 15-20 days and on the high ground of the Northwest Highlands, the Southern Uplands and the more elevated areas of England and north Wales on 5-10 days. On the low ground in Scotland and northern England snow or sleet fell on 5 days or less. In south Wales, the Midlands and East Anglia there was snow or sleet on 3-6 days, while on the low ground in Wales and in south-east England snow fell on 2 days or less.

Snow lay all month on the high ground of the Scottish highlands on the north face of some of the summits in the Southern Uplands and north Pennines. Generally on the higher regions of the Southern Uplands snow lay for about 25 days. At levels down to 600 m there was snow cover for 20-25 days in the Northwest Highlands although in the southwestern areas the snow lay only for 10-20 days at these levels. On the low ground in Scotland snow lay for 5 days or less. In the Pennines at levels of 450 m snow remained for 4-9 days, while on the low ground in north England there were about 3 days with snow cover. On the high ground of north Wales snow lay for 8-10 days and in south Wales there was generally 2-5 days snow cover. The higher ground of the Midlands and south England had snow cover for about 5 days, but in lower lying areas snow lay only for one or two days in places. However, on the higher parts of the moors of southwest England drifts, remnants of the February storms, lasted most of the month.

#### **April 1978**

Mean temperatures were below average in all areas. Precipitation was above average in east Scotland and in east and south England; more than 150 per cent of average fell in east Scotland and in east Kent. All other areas had less than normal precipitation; some places in west Scotland had less than 25 per cent of average.

Snow fell during the second week in nearly all parts of Britain. On the 9th showers fell in Scotland and north England and the strong winds caused drifting in places. Braemore (Highland) reported a level depth of 17 cm. On

the 10th to 13th there was widespread snow, heavy at times especially in the north and the Midlands giving depths of 6 to 9 cm in the Peak District. Between the 25th and 28th snow or sleet fell in Scotland and over the high ground of England and Wales.

There were more days with snow or sleet than normal in central and southern England, but elsewhere the frequency of snowfall was about average. Snow fell on 8-12 days in Shetland, the Northwest Highlands and on the high ground of the Central Highlands, the Southern Uplands and the north Pennines. There were 4-8 days with snow or sleet on the lower ground of eastern Scotland, in the south Pennines and the higher ground of the Midlands, eastern England and Wales. Over the rest of Britain there were between one and three days with snow or sleet.

Snow lay for the whole month on the summits of the Scottish highlands, and for 10-20 days at levels of about 600 m. On the lower ground of northern Scotland snow lay for 3-6 days, but on the west coast no snow lay. On the high ground of the Southern Uplands, the Pennines and Wales there was snow cover the 5-10 days. At lower levels in these regions and over most of southern England snow lay for less than 5 days; many places in southwest England and west Wales having no snow at all.

#### **May 1978**

Mean temperatures were slightly above average in northern and western areas and below average in eastern England. Southeast England and East Anglia had above average precipitation but less than 25 per cent of normal fell in some areas of western Scotland.

Sleet showers fell on the first few days of the month in Shetland and in a few isolated elevated regions of the Scottish highlands.

Patches of snow remained all month on the high ground in parts of the Grampians. At levels of about 600 m in central Scotland snow remained for about 5-8 days and in Shetland and on the Pennines it remained for 1-3 days. However, in sheltered gullies and on north facing slopes patches of snow remained during the first half of the month.

\*sleet — in the United Kingdom a mixture of snow and rain, or of snow and drizzle.\*

Table 1 Number of days with snow or sleet falling, and snow lying, during each snow season

number of days with snow or sleet falling											number of days with snow lying									
Fort Augustus/Corpach	Balmoral/Braemar	West Linton	Eskdalemuir	Huddersfield Oakes	Buxton	Woburn	Boscombe Down	Exeter	Lake Vymwy	Season	Fort Augustus/Corpach	Balmoral	West Linton	Eskdalemuir	Huddersfield Oakes	Buxton	Woburn	Boscombe Down	Exeter	Lake Vymwy
4	31	42	65	51	46	34	37	22	42	1946/47	5	72	66	59	64	71	58	42	10	63
25	30	34	49	25	23	13	14	9	33	1947/48	8	53	25	22	15	33	5	11	2	25
1	23	24	31	19	13	7	5	5	20	1948/49	1	23	10	14	10	12	2	1	0	11
1	45	28	46	30	11	7	5	7	23	1949/50	1	29	20	18	10	7	1	1	1	11
1	92	75	79	70	59	29	30	18	72	1950/51	1	102	65	61	31	48	12	10	10	47
23	61	41	45	37	38	20	22	13	40	1951/52	38	52	38	41	22	38	7	8	1	30
19	51	44	44	25	32	26	23	10	34	1952/53	12	61	34	32	11	25	25	4	2	32
24	45	31	36	26	26	14	12	10	23	1953/54	12	40	26	32	24	29	7	15	7	22
28	71	43	52	47	42	28	31	29	40	1954/55	32	82	58	57	37	52	27	15	6	38
31	74	50	54	42	40	23	28	19	34	1955/56	18	59	46	44	39	40	20	12	8	34
17	37	27	34	26	15	12	12	3	22	1956/57	13	14	15	10	10	12	5	2	0	17
36	51	40	48	31	25	19	19	19	27	1957/58	27	61	32	22	23	23	12	6	6	32
15	29	22	25	15	12	7	8	7	21	1958/59	23	60	29	26	19	26	13	9	3	22
20	31	39	38	29	31	13	11	14	30	1959/60	22	40	29	26	20	30	11	8	5	24
14	35	22	33	20	22	7	8	6	20	1960/61	2	31	8	10	6	10	0	0	0	14
36	56	41	67	38	26	17	17	19	39	1961/62	30	88	43	40	25	29	13	5	2	36
26	58	42	62	44	47	42	40	32	43	1962/63	29	90	86	82	70	74	69	64	40	78
18	29	19	40	20	20	14	17	11	19	1963/64	1	35	12	8	12	17	7	2	2	14
28	65	34	63	36	40	20	20	14	43	1964/65	13	71	31	34	20	34	10	15	2	48
28	84	46	87	53	37	18	18	11	42	1965/66	18	93	46	37	39	38	9	13	1	42
22	64	25	82	26	28	4	9	10	27	1966/67	13	53	19	20	7	14	1	1	0	11
26	48	35	66	30	39	23	24	11	32	1967/68	27	78	43	51	22	44	14	10	4	31
21	74	24	71	51	34	24	29	20	39	1968/69	25	83	32	35	53	50	18	5	11	56
28	69	32	96	63	53	34	42	25	57	1969/70	36	96	25	35	40	50	25	16	3	62
6	34	21	46	25	16	17	27	16	20	1970/71	3	28	22	19	10	23	6	14	2	20
10	32	20	52	34	27	11	15	9	25	1971/72	1	29	12	16	12	12	1	2	0	21
22	38	19	54	28	23	9	11	12	25	1972/73	11	44	12	27	15	17	2	2	2	22
22	57	20	58	27	28	8	16	9	36	1973/74	21	49	10	17	9	13	0	2	0	20
11	38	21	56	30	31	18	21	12	42	1974/75	3	37	5	15	3	6	3	3	0	18
10	50	11	53	26	31	9	10	12	29	1975/76	4	38	6	12	2	11	4	0	1	15
26	46	30	72	46	51	19	18	15	51	1976/77	5	67	42	47	31	43	7	4	1	34
27	54	34	70	46	36	21	33	22	48	1977/78	10	75	29	34	23	31	8	9	8	43

Table 2 Daily depth of snow, in centimetres, at selected stations

T indicates snow depth less than 0.5 cm  
 \* indicates snow lying but depth not available  
 † indicates no information available

November 1977

Day	Wick	Knockanrock	Inverawe	Whitehillocks	Cramond	Eskdalemuir	Alston	Lanthwaite	Belmont	Riccall	Buxton	Martley	Marham	Penshurst	Dolgellau	Lake Vyrnwy	Merthyr Tydfil	Swansea	Exeter	Okehampton	Day	
1																					1	
2																						2
3																						3
4																						4
5																						5
6																						6
7																						7
8																						8
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16		1																				16
17							1									3	T					17
18		2																				18
19																						19
20		7		*																	2	20
21		8	1	*			1														1	21
22				*																		22
23																						23
24		3																				24
25																3	T					25
26							T									3	T					26
27							T									1	T					27
28																1						28
29																1						29
30																1						30

there were no reports of snow lying at these stations for October 1977.

Table 2 (continued)

December 1977

Day	Wick	Knockanrock	Inverawe	Whitehillocks	Cramond	Eskdalemuir	Alston	Lanthwaite	Belmont	Riccall	Buxton	Martley	Marham	Penshurst	Dolgellau	Lake Vyrnwy	Merthyr Tydfil	Swansea	Exeter	Okehampton	Day	
1																					1	
2																						2
3																						3
4																						4
5																						5
6																						6
7		2		2			T		T													7
8		3		3																		8
9																						9
10																						10
11																						11
12																						12
13																						13
14																						14
15																						15
16																						16
17																						17
18																						18
19																						19
20																						20
21																						21
22																						22
23																						23
24																						24
25																						25
26																						26
27																						27
28		1		1					T									T		1		28
29																				T		29
30		1		1																		30
31																						31

Table 2 (continued)

January 1978

Day	Wick	Knockanrock	Inverawe	Whitehillocks	Crammond	Eskdalemuir	Alston	Lanthwaite	Belmont	Riccall	Buxton	Martley	Marham	Penshurst	Doigellau	Lake Vyrnwy	Merthyr Tydfil	Swansea	Exeter	Okehampton	Day	
1																					1	
2																						2
3		5	1	1	3	1	1															3
4		5	1	1												5						4
5				T											1							5
6																						6
7																						7
8																						8
9																						9
10		5	1	1	5	6	2		T													10
11		11	1	1	7	6	11		T	1						T				1		11
12		13	1	2	6	5	13				3					T						12
13			1		5		8				2											13
14					3		7															14
15							6															15
16		1					6			T												16
17		1				T	9	1	1		2		1		1	1	T					17
18		12				T	9		1	1	2		4		1	1	T			T		18
19		14	1		5	6	15	13	10	T	15	4	3	1		14	11					19
20		14		5	4	7	11		T	T	T	3	3	1		8	11					20
21		12		5	3	5	5		T		T		1			4	9					21
22		5		T			2		T													22
23		3		1		1	3															23
24		*		T																		24
25																						25
26			1			4	3		3		1					1						26
27						11	9		4		3					3						27
28		6		21		6	1				3											28
29		40		25			3				3					3						29
30		40		25		1	3			1						10						30
31		45	4	27	1	9	3	4	T	1	1	3				14	9					31

Table 2 (continued)

February 1978

Day	Wick	Knockanrock	Inverawe	Whitehilllocks	Cramond	Eskdalemuir	Alston	Lanthwaite	Belmont	Riccall	Buxton	Martley	Marham	Penshurst	Dolgellau	Lake Vyrnwy	Merthyr Tydfil	Swansea	Exeter	Okehampton	Day	
1		40		27	1	10	2						T		4						1	
2		20		15		6															2	
3		20		15		4															3	
4		12		15		2															4	
5		T		15																	5	
6		T		15																	6	
7				12																	7	
8				12			1			1						T					8	
9		1		14	2	1	3		T	4	4	1	2	3		1	T			T	9	
10	1	1		14	3		3		3	T	6		1	3		T	T				10	
11	7	2		27	11		2	3		9	7		3	1		T	T				11	
12	8	2		30	20	6	15		5	1	7		8	1		T	T				12	
13	8	6		34	18	7	18		8	T	7		10	1	4	1	T	2		5	13	
14	5	8		34	15	7	19			T	7	T	8	T	2	T			T	8	14	
15	5	9		34	14	4	18			T	7		5	T		T	T				15	
16	6	9		34	12	3	13			T	7		3	1		T	T		3	22	16	
17	5	9		34	12	2	12			T	7		2	1		T	3	1	7	27	17	
18	6	9		34	12	2	10			T	7		2			T	2		4	27	18	
19	4	9		34	12	2	9			T	6		1			T	46	5	21	*	19	
20	4	9		34	11	2	7				5		1		1	3	56	3	32	*	20	
21		9	3	34	12	1	7		1		5		1			3	48	1	15	*	21	
22	2	9		30	11		3				3					1	30		9	*	22	
23		T		21	6												5			*	23	
24				20	3																	24
25				10																		25
26				8																		26
27				8																		27
28				6																		28

Table 2 (continued)

March 1978

Day	Wick	Knockanrock	Inverawe	Whitehillocks	Cramond	Eskdalemuir	Alston	Lanthwaite	Belmont	Riccall +	Buxton	Martley	Marham	Penshurst	Dolgellau	Lake Vyrwy	Merthyr Tydfil	Swansea	Exeter	Okehampton	Day	
1				5																	1	
2																						2
3																						3
4																						4
5		T																				5
6																						6
7																						7
8																						8
9																						9
10																						10
11																						11
12																						12
13																						13
14																						14
15																						15
16		2		1	1		1		1			4	1				5					16
17		3		1			1									T	T			2		17
18																						18
19																						19
20		1				1																20
21		7	1				1		4		2					T						21
22																						22
23							1		1		2					T						23
24																						24
25								T														25
26		T				5	T									T						26
27																						27
28																						28
29																						29
30																						30
31																						31

Table 2 (continued)

April 1978

Day	Wick	Knockanrock	Inverawe	Whitehilllocks	Crammond	Eskdalemuir	Alston	Lanthwaite	Belmont	Riccall +	Buxton	Martley	Marham	Penshurst	Dolgellau	Lake Vyrnwy	Merthyr Tydfil	Swansea	Exeter	Okehampton	Day	
1																					1	
2																						2
3																						3
4																						4
5																						5
6																						6
7																						7
8																						8
9																						9
10	3		1	1			1	1	3		4					4					T	10
11	2	12		1			T				5				3	4					T	11
12		14				1	3		1													12
13		14		1			1	3	4		1											13
14				1		1	1				3											14
15																						15
16																						16
17																						17
18																						18
19																						19
20																						20
21																						21
22																						22
23																						23
24																						24
25																						25
26																						26
27				2																		27
28	<i>There were no reports of snow lying at these stations for May 1978</i>																				28	
29																					29	
30																					30	

TABLE 3

Number of days with snow falling, snow lying, and maximum depth, in centimetres, with the date, during each month and during the season

The values are arranged in a pattern of four thus:  $\begin{matrix} a & b \\ c & d \end{matrix}$

where a is the number of days on which snow occurred,  
 b is the number of days on which half or more of the ground in the immediate neighbourhood was snow covered,  
 c is the greatest depth of accumulated and undrifted snow,  
 d is the date on which c first occurred

The entry D indicates that no snow depth was measured because of excessive drifting: the entry T indicates that the depth of snow was less than 0.5 cm.

1977

1978

Station	grid reference	altitude (metres)	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Season
DISTRICT O - SCOTLAND, NORTH											
<i>Shetland</i>											
Mossy Hill	HU 396203	229	0 0	5 3	3 1	17 8	15 14	1 0	7 4	1 0	49 30
			- -	2 20	1 7	41 28	3 15	- -	1 10	- -	41 28/1
Ollaberry	HU 333836	226	2 0	17 6	11 1	20 12	22 19	10 4	11 5	2 0	95 47
			- -	11 20	7 8	10 29	23 17	4 5	2 14	- -	23 17/2
<i>Orkney</i>											
Kirkwall #	HY 483076	26	1 0	11 1	7 1	22 4	13 10	11 0	8 0	0 0	73 16
			- -	2 20	1 8	5 10	6 18	- -	- -	- -	6 18/2
<i>Western Islands</i>											
Benbecula#	NF 782555	6	0 0	9 0	4 0	17 2	8 0	3 0	8 1	0 0	49 3
			- -	- -	- -	4 12	- -	- -	2 10	- -	4 12/1
Stornoway	NB 459332	3	0 0	10 1	2 0	16 4	9 5	7 0	7 1	0 0	51 11
			- -	7 16	- -	5 31	3 18	- -	7 10	- -	5 31/1
<i>Highland</i>											
Achnagoichan	NH 913082	305	0 2	12 11	2 4	9 20	10 23	11 9	8 7	0 0	52 74
			- -	25 22	7 9	120 28	120 1	10 16	8 11	- -	120 28/1
Achnashellach	NH 038492	67	0 0	8 5	5 0	18 14	8 10	10 2	8 3	0 0	57 34
			- -	3 20	- -	32 31	30 1	5 21	4 10	- -	32 31/1
Ardross	NH 629737	171	0 0	2 3	2 3	18 16	8 27	5 9	9 9	0 0	44 67
			- -	14 20	D -	D -	54 1	5 20	5 10	- -	- -
Braemore	ND 074297	155	0 0	10 4	4 4	16 12	12 24	10 3	9 6	0 0	61 53
			- -	4 20	2 8	53 31	50 1	1 20	17 10	- -	53 31/1
Broadford	NG 649228	30	0 0	6 1	1 0	11 7	2 2	6 0	5 3	0 0	31 13
			- -	3 20	- -	8 10	1 12	- -	3 11	- -	8 10/1
Cassley	NC 396232	99	0 0	7 4	2 1	12 14	11 26	6 1	5 4	0 0	43 50
			- -	7 20	1 30	26 31	26 1	3 20	5 13	- -	26 31/1
Corpach#	NN 080764	8	0 0	3 1	0 0	15 9	4 0	2 0	3 0	0 0	27 10
			- -	* 20	- -	5 11	- -	- -	- -	- -	* *
Dalwhinnie	NN 634841	362	3 0	15 14	6 2	17 16	14 22	16 7	9 2	1 0	81 63
			- -	13 17	1 7	33 31	30 1	13 21	1 10	- -	33 31/1
Fairburn	NH 455528	152	0 0	1 2	0 0	* *	* *	* *	* *	* *	* *
			- -	1 20	- -	* *	* *	* *	* *	* *	* *
Fersit	NN 351782	259	0 0	16 8	3 1	29 18	14 22	4 4	10 7	0 0	76 60
			- -	5 20	1 30	46 30	46 1	8 20	1 12	- -	46 30/1
Fort William (Br. Al.)	NN 130751	27	0 0	2 2	0 0	8 11	2 3	1 1	4 4	0 0	17 21
			- -	3 20	- -	11 12	1 13	1 21	3 10	- -	11 12/1
Glenferness	NH 937430	213	0 0	10 8	5 0	14 9	1 1	11 11	* *	* *	* *
			- -	23 20	- -	8 26	15 10	10 19	* *	* *	* *
Glenshero Lodge	NN 562929	268	0 0	15 14	3 2	21 19	9 26	18 15	9 8	0 0	75 84
			- -	15 20	7 28	D -	D -	13 20	4 10	- -	* *
Grantown-on-Spey#	NJ 039285	229	0 0	9 12	4 9	17 15	11 28	10 8	8 5	0 0	59 77
			- -	* *	* *	63 30	67 18	22 1	15 10	- -	* *
Inverpolly	NC 074134	14	0 0	4 0	1 0	12 5	3 8	1 0	5 3	0 0	26 16
			- -	- -	- -	13 31	10 1	- -	9 11	- -	13 31/1
Knockanrock	NC 187088	244	0 0	14 5	6 4	17 18	12 21	14 6	8 3	0 0	71 57
			- -	8 21	3 8	45 31	40 1	7 21	14 12	- -	45 31/1
Lairg#	NC 578055	107	0 0	12 4	4 3	20 14	14 18	12 1	8 2	0 0	70 42
			- -	6 20	* *	29 31	30 1	2 21	7 10	- -	* *
Morar	NM 688922	16	0 0	2 1	0 0	9 4	1 0	3 0	4 0	0 0	19 5
			- -	2 20	- -	8 17	- -	- -	- -	- -	8 17/1

TABLE 3 (continued)

1977

1978

Station	grid reference	altitude (metres)	1977		1978		1977		1978		1977		1978		1977		1978		Season					
			Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Oct	Nov	Dec	Jan	Feb	Mar
Muir of Ord	NH 527500	46	0	0	3	2	2	1	12	13	6	25	1	1	5	2	0	0	29	44				
			-	-	7	20	7	30	15	31	23	17	7	16	1	13	-	-	23	17/2				
Prabost	NG 418501	67	0	0	2	1	0	0	14	10	5	15	3	4	6	3	0	0	30	33				
			-	-	2	21	-	-	8	18	4	14	*	*	2	10	-	-	*	*				
Ratagan	NG 919197	4	*	*	*	*	6	8	7	7	*	*	5	1	3	3	*	*	*	*				
			*	*	*	*	3	7	11	12	*	*	1	23	3	10	*	*	*	*				
Wick#	ND 364522	36	0	0	4	0	4	0	17	0	10	13	4	0	8	2	0	0	47	15				
			-	-	-	-	-	-	-	-	8	12	-	-	3	10	-	-	8	12/2				
DISTRICT 1 - SCOTLAND E																								
<i>Grampian</i>																								
Balmoral#	NO 260946	283	0	0	7	12	6	9	14	13	12	28	5	8	10	5	0	0	54	75				
			-	-	*	*	*	*	*	*	*	*	*	*	*	*	-	-	*	*				
Derry Lodge	NO 036932	427	0	0	22	19	10	18	21	28	17	28	18	18	12	9	0	2	100	122				
			-	-	20	21	20	7	D	-	51	1	15	1	5	10	7	1	*	*				
Drummuir	NJ 372441	189	0	0	8	3	4	1	16	6	12	26	7	3	9	5	0	0	56	44				
			-	-	9	21	4	7	20	30	30	13	10	16	8	10	-	-	30	13/2				
Dyce#	NJ 883125	58	0	0	12	1	4	1	18	4	16	15	7	0	9	1	0	0	66	22				
			-	-	7	21	7	7	2	12	16	13	-	-	2	10	-	-	16	13/2				
Glenlatterach	NJ 200546	151	0	0	5	1	2	1	11	7	10	13	2	2	8	3	0	0	38	27				
			-	-	5	18	1	7	15	31	33	21	8	16	10	10	-	-	15	31/1				
Rochomie	NJ 441633	94	0	0	1	1	0	0	7	7	13	11	2	0	2	2	0	0	25	21				
			-	-	1	27	-	-	8	29	25	10	-	-	1	10	-	-	25	10/2				
<i>Tayside</i>																								
Ardalnaig	NN 702394	130	0	0	5	0	2	0	14	15	11	13	6	0	5	0	0	0	43	28				
			-	-	-	-	-	-	25	11	14	1	-	-	-	-	-	-	25	11/1				
Drummond Castle	NN 841178	113	0	0	2	0	1	0	16	14	6	28	1	1	1	0	0	0	27	43				
			-	-	-	-	-	-	25	28	25	2	10	1	-	-	-	-	25	28/1				
Loch Vennachar	NN 598063	84	0	0	0	0	0	0	11	21	3	24	0	0	0	0	0	0	14	45				
			-	-	-	-	-	-	15	11	15	1	-	-	-	-	-	-	15	11/1				
Whitehilllocks	NO 448800	258	0	0	3	3	4	4	13	15	14	28	2	3	9	5	0	0	45	58				
			-	-	*	*	3	8	27	31	34	13	5	1	2	27	-	-	*	*				
<i>Fife</i>																								
Leuchars#	NO 468208	10	0	0	2	1	4	0	16	8	12	14	3	0	6	0	0	0	43	23				
			-	-	2	21	-	-	10	10	13	12	-	-	-	-	-	-	13	12/2				
Loch Leven	NT 158988	122	0	0	1	1	*	*	10	20	10	24	1	1	5	0	0	0	*	*				
			-	-	1	21	*	*	11	11	23	12	7	15	-	-	-	-	*	*				
<i>Lothian</i>																								
Cramond	NT 180758	26	0	0	2	0	1	0	11	10	11	17	6	1	4	1	0	0	35	29				
			-	-	-	-	-	-	7	11	20	12	1	16	1	11	-	-	20	12/2				
Hopes	NT 551622	247	0	0	2	3	1	1	12	17	12	14	6	2	5	5	0	0	38	42				
			-	-	25	20	1	7	10	10	46	14	7	16	3	13	-	-	46	14/2				
Hungry Snout	NT 665633	218	0	0	10	3	4	0	19	24	13	28	6	4	9	6	0	0	61	65				
			-	-	25	21	-	-	46	30	47	19	7	16	7	9	-	-	47	19/2				
<i>Borders</i>																								
Baddingsgill	NT 126554	335	0	0	8	8	1	1	18	18	12	12	13	11	9	9	0	0	61	59				
			-	-	4	17	1	7	9	3	25	12	4	16	2	14	-	-	25	12/2				
Broughton	NT 123296	226	0	0	8	1	3	2	19	15	12	14	10	4	8	4	0	0	60	40				
			-	-	1	17	3	27	18	31	13	1	3	17	3	11	-	-	18	31/1				
Newcastleton	NY 479870	105	0	0	1	0	0	0	*	4	10	1	3	0	7	0	0	0	*	5				
			-	-	-	-	-	-	6	31	10	12	-	-	-	-	-	-	6	31/1				
Portmore	NT 260507	305	0	0	6	3	1	0	11	24	8	28	6	14	3	3	0	0	35	72				
			-	-	4	21	-	-	13	11	30	12	3	16	3	14	-	-	30	12/2				
Sourhope	NT 843203	221	0	0	4	5	2	0	16	10	13	21	3	2	6	2	0	0	44	40				
			-	-	10	21	-	-	5	17	38	14	3	16	1	10	-	-	38	14/2				
West Linton#	NT 150520	244	0	0	1	0	0	0	13	10	*	*	6	2	3	0	0	0	*	*				
			-	-	-	-	-	-	15	11	*	*	4	16	-	-	-	-	*	*				
DISTRICT 6 - SCOTLAND W																								
<i>Strathclyde</i>																								
Inverawe	NN 021316	23	1	0	12	1	1	0	14	9	3	1	13	1	7	1	0	0	51	13				
			-	-	1	21	-	-	4	31	3	21	1	21	1	10	-	-	4	31/1				
Lanark	NS 875434	152	0	0	1	0	0	0	7	9	9	13	7	1	6	1	0	0	30	24				
			-	-	-	-	-	-	10	12	23	12	1	16	1	9	-	-	23	12/2				



TABLE 3 (continued)

Station	grid reference	altitude (metres)	1977		1978										Season
			Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Season				
<b>DISTRICT 3 — EAST ANGLIA</b>															
<i>Norfolk</i>															
Coltishall#	TG 262229	17	0 0	3 0	2 0	14 1	11 15	5 2	6 0	0 0	0 0	0 0	41 18		
			— —	— —	— —	7 20	15 13	2 16	— —	— —	— —	— —	15 13/2		
Marham	TF 726094	23	0 0	3 0	2 0	10 5	9 14	4 1	6 0	0 0	0 0	34 20			
			— —	— —	— —	4 18	10 13	1 16	— —	— —	— —	10 13/2			
<i>Cambridgeshire</i>															
Cambridge	TL 434604	24	0 0	0 0	0 0	4 4	3 6	1 1	2 1	0 0	0 0	10 12			
			— —	— —	— —	3 17	3 14	5 16	7 11	— —	— —	5 16/3			
Etton	TF 142048	11	0 0	0 0	0 0	7 5	9 7	3 0	4 1	0 0	0 0	23 13			
			— —	— —	— —	8 19	4 12	— —	5 11	— —	— —	8 19/1			
<i>Suffolk</i>															
Melton	TM 281506	9	0 0	1 0	0 0	6 2	5 6	2 1	2 1	0 0	0 0	16 10			
			— —	— —	— —	1 20	4 14	7 16	1 13	— —	— —	4 14/2			
Wingfield	TM 235782	49	0 0	0 0	0 0	6 1	7 5	3 1	4 2	0 0	0 0	20 9			
			— —	— —	— —	3 19	6 9	3 16	3 11	— —	— —	6 9/2			
Wattisham	TM 025514	89	0 0	* 0	2 0	12 3	9 7	4 0	7 1	0 0	0 0	* 11			
			— —	— —	— —	11 20	5 10	— —	1 11	— —	— —	11 20/1			
<i>Bedfordshire</i>															
Cardington#	TL 081464	28	0 0	2 0	2 0	9 1	8 5	2 1	5 1	0 0	0 0	28 8			
			— —	— —	— —	3 17	1 9	6 16	13 11	— —	— —	13 11/4			
Woburn#	SP 964358	89	0 0	2 0	0 0	9 4	5 2	2 1	3 1	0 0	0 0	21 8			
			— —	— —	— —	4 17	1 9	10 16	3 11	— —	— —	10 16/3			
<i>Hertfordshire</i>															
Garston	TL 123017	78	0 0	0 0	1 0	13 3	5 3	2 0	3 1	0 0	0 0	24 7			
			— —	— —	— —	3 17	1 9	— —	3 11	— —	— —	3 17/1			
Rothamsted#	TL 132134	128	0 0	2 0	2 0	14 5	6 4	1 1	5 1	0 0	0 0	33 11			
			— —	— —	— —	4 19	1 10	5 16	6 11	— —	— —	6 11/4			
<i>Essex</i>															
Langham	TM 018339	12	0 0	0 0	0 0	5 1	4 0	3 0	4 0	0 0	0 0	16 1			
			— —	— —	— —	1 18	— —	— —	— —	— —	— —	1 18/1			
Layer-de-la Haye	TL 965196	44	0 0	0 0	0 0	7 1	7 2	3 0	5 0	0 0	0 0	22 3			
			— —	— —	— —	1 19	1 8	— —	— —	— —	— —	1 19/1			
Rayleigh	TQ 805910	73	0 0	0 0	0 0	4 0	5 7	1 0	3 1	0 0	0 0	13 8			
			— —	— —	— —	— —	3 13	— —	6 11	— —	— —	6 11/4			
<b>DISTRICT 4 — MIDLAND COUNTIES</b>															
<i>West Yorkshire</i>															
Huddersfield Oakes#	SE 113177	232	0 0	2 0	3 0	15 7	10 14	8 0	8 2	0 0	0 0	46 23			
			— —	— —	— —	3 19	20 13	— —	3 13	— —	— —	20 13/2			
Thornton Moor	SE 051334	363	0 0	5 5	2 1	12 18	8 14	7 9	5 6	0 0	0 0	39 53			
			— —	1 13	5 7	8 19	15 12	6 21	5 14	— —	— —	15 12/2			
<i>South Yorkshire</i>															
Doncaster	SE 576040	9	0 0	0 0	0 0	5 0	7 0	0 0	0 3	0 0	0 0	15 0			
			— —	— —	— —	— —	— —	— —	— —	— —	— —	— —			
Hall Broom	SK 267891	320	0 0	6 1	3 2	19 11	10 14	6 4	5 4	0 0	0 0	49 36			
			— —	1 13	2 8	8 20	9 13	1 26	8 14	— —	— —	9 13/2			
Redmires	SK 262857	338	0 0	5 1	3 2	19 15	12 17	5 4	6 5	0 0	0 0	50 44			
			— —	1 12	4 7	10 19	14 12	3 20	6 14	— —	— —	14 12/2			
<i>Derby</i>															
Buxton #	SK 060725	307	0 0	6 0	3 0	13 12	5 14	5 2	4 3	0 0	0 0	36 31			
			— —	— —	— —	15 19	7 11	2 21	5 11	— —	— —	15 19/1			
Edale	SK 097855	293	0 0	5 1	5 5	15 13	8 16	10 5	5 4	0 0	0 0	48 44			
			— —	2 13	3 5	9 12	11 13	5 21	5 13	— —	— —	11 13/2			
Howden	SK 168924	258	0 0	4 0	6 5	11 14	* 17	7 3	4 5	0 0	0 0	* 75			
			— —	— —	1 7	7 12	9 14	3 26	3 12	— —	— —	9 14/2			
Littleover	SK 334339	71	0 0	3 0	1 0	15 8	8 7	5 0	4 2	0 0	0 0	36 17			
			— —	— —	— —	4 19	1 13	— —	2 11	— —	— —	4 19/1			
Wingerworth	SK 378665	116	0 0	1 0	1 0	8 7	9 15	6 1	4 2	0 0	0 0	29 25			
			— —	— —	— —	11 19	6 13	1 21	4 14	— —	— —	11 19/1			
Wood Cottage	SK 128896	310	0 0	5 2	6 6	17 14	* 14	9 5	4 4	0 0	0 0	* 45			
			— —	1 13	2 5	8 19	8 19	2 17	4 13	— —	— —	8 19/1			
<i>Staffordshire</i>															
Hednesford	SK 123017	235	0 0	* *	0 0	6 4	3 3	0 0	3 3	0 0	0 0	* *			
			— —	* *	— —	15 19	6 12	— —	9 10	— —	— —	* *			

TABLE 3 (continued)

Station	grid reference	altitude (metres)	1977						1978						Season					
			Oct	Nov	Dec	Jan	Feb	Mar	Apr	May										
<i>Leicestershire</i>																				
Market	SP 732879	96	0	0	1	0	0	0	5	3	4	7	2	1	4	1	0	0	16	12
Harborough			-	-	-	-	-	-	5	19	1	9	8	16	7	11	-	-	8	16/3
Stanford	SP 596804	112	0	0	1	0	0	0	12	8	8	9	5	4	6	3	0	0	32	24
			-	-	-	-	-	-	5	19	2	12	13	15	5	10	-	-	13	15/3
<i>Salop</i>																				
Shawbury#	SJ 553220	72	0	0	1	0	2	0	12	2	9	2	6	0	4	0	0	0	34	4
			-	-	-	-	-	-	2	31	1	10	-	-	-	-	-	-	2	31/1
<i>Warwickshire</i>																				
Shipston-on-Stour #	SP 213407	111	0	0	0	0	0	0	8	5	5	1	2	2	5	1	0	0	20	9
			-	-	-	-	-	-	3	19	7	13	12	16	7	13	-	-	12	16/3
<i>Hereford and Worcester</i>																				
Longtown	SO 322291	172	0	0	0	0	0	0	6	4	8	7	3	1	*	*	0	0	*	*
			-	-	-	-	-	-	13	19	5	16	10	15	*	*	-	-	*	*
Martley	SO 743598	53	0	0	1	0	0	0	6	3	6	2	3	1	5	0	0	0	21	6
			-	-	-	-	-	-	4	19	1	9	4	16	-	-	-	-	4	19/1
<i>Oxfordshire</i>																				
Brize Norton#	SP 289060	84	0	0	1	0	0	0	12	4	9	2	2	1	5	0	0	0	29	7
			-	-	-	-	-	-	1	17	1	17	1	16	-	-	-	-	1	17/1
Shirburn#	SU 695971	108	*	*	*	*	0	0	8	5	5	3	5	0	6	0	0	0	*	*
			*	*	*	*	-	-	5	17	1	10	-	-	-	-	-	-	*	*
<i>Buckinghamshire</i>																				
Little Chalfont	SU 988968	130	0	0	1	0	1	0	9	5	5	2	4	1	4	2	0	0	24	10
			-	-	-	-	-	-	4	17	7	10	7	16	5	11	-	-	5	11/4
DISTRICT 5 — ENGLAND SE AND CENTRAL SOUTHERN																				
<i>Greater London</i>																				
Charlton Park	TQ 433745	46	0	0	0	0	0	0	2	0	4	4	1	0	1	0	0	0	8	4
			-	-	-	-	-	-	-	-	7	9	-	-	-	-	-	-	7	9/2
Eastcote	TQ 110881	53	0	0	0	0	0	0	6	1	3	0	1	1	3	2	0	0	13	4
			-	-	-	-	-	-	1	17	-	-	1	16	4	11	-	-	4	11/4
Twickenham	TQ 158718	13	0	0	0	0	0	0	6	1	5	4	3	0	4	1	0	0	18	6
			-	-	-	-	-	-	7	26	7	9	-	-	1	11	-	-	1	11/4
<i>Wiltshire</i>																				
Boscombe Down#	SU 172403	126	0	0	2	0	2	0	10	1	11	7	3	1	5	0	0	0	33	9
			-	-	-	-	-	-	3	19	11	19	7	16	-	-	-	-	11	19/2
Upavon#	SU 162552	179	0	0	2	0	0	0	10	4	10	5	3	1	4	0	0	0	29	10
			-	-	-	-	-	-	5	19	5	17	7	16	-	-	-	-	5	19/1
<i>Surrey</i>																				
Camberley	SU 867600	66	0	0	0	0	0	0	6	3	7	3	2	0	2	1	0	0	17	7
			-	-	-	-	-	-	1	19	1	16	-	-	1	11	-	-	1	19/1
<i>Kent</i>																				
Biddenden	TQ 850362	52	0	0	0	0	0	0	1	3	3	6	0	0	1	1	0	0	5	10
			-	-	-	-	-	-	4	19	3	9	-	-	5	11	-	-	5	11/4
East Malling #	TQ 708571	32	0	0	0	0	0	0	5	1	6	7	2	0	3	1	0	0	16	9
			-	-	-	-	-	-	7	19	4	10	-	-	6	11	-	-	6	11/4
Lyminge	TR 138405	182	0	0	3	0	0	0	7	2	3	3	3	0	4	0	0	0	20	5
			-	-	-	-	-	-	5	19	5	9	-	-	-	-	-	-	5	19/1
Manston#	TR 335666	44	0	0	3	0	0	0	7	2	8	6	5	0	4	1	0	0	27	9
			-	-	-	-	-	-	7	19	2	10	-	-	1	11	-	-	2	10/2
Penshurst Place	TQ 528440	40	0	0	2	0	0	0	5	2	7	9	1	0	0	0	0	0	15	11
			-	-	-	-	-	-	7	19	3	9	-	-	-	-	-	-	3	9/2
Wye#	TR 057469	56	0	0	2	0	0	0	3	2	5	7	1	0	2	1	0	0	13	10
			-	-	-	-	-	-	7	19	6	10	-	-	7	11	-	-	7	11/4
<i>West Sussex</i>																				
Washington	TQ 118135	23	0	0	1	0	1	0	5	2	7	11	1	0	3	0	0	0	18	13
			-	-	-	-	-	-	5	19	8	17	-	-	-	-	-	-	8	17/2
DISTRICT 7A — ENGLAND NW AND ISLE-OF-MAN																				
<i>Cumbria</i>																				
Alston	NY 717471	287	0	0	9	2	1	1	15	21	14	16	8	6	6	5	0	0	53	51
			-	-	1	17	7	7	15	19	19	14	1	16	3	12	-	-	19	14/2

TABLE 3 (continued)

Station	grid reference	altitude (metres)	1977					1978					Season							
			Oct	Nov	Dec	Jan	Feb	Mar	Apr	May										
Dale Head	NY 313175	189	0	0	2	1	2	1	16	15	5	8	4	2	3	5	0	0	32	32
			-	-	1	17	1	27	8	19	6	14	5	16	4	13	-	-	8	19/1
Ennerdale	NY 085153	117	0	0	1	0	1	0	9	7	6	0	4	1	3	2	0	0	24	10
			-	-	-	-	-	-	5	19	-	-	1	16	1	10	-	-	5	19/1
Geltsdale	NY 575537	229	0	0	7	1	1	0	17	9	8	6	6	3	7	3	0	0	46	22
			-	-	2	17	-	-	13	11	10	11	1	16	3	12	-	-	13	11/1
Hawes Water	NY 503159	213	0	0	4	0	0	0	13	13	7	3	1	1	*	3	0	0	*	20
			-	-	-	-	-	-	10	19	5	12	4	21	8	12	-	-	10	19/1
High Nibthwaite	SD 294898	54	0	0	0	0	1	1	11	8	8	3	4	1	4	3	0	0	28	16
			-	-	-	-	7	7	20	19	2	1	7	16	3	13	-	-	20	19/1
Lanthwaite	SD 165851	44	0	0	0	0	1	0	8	3	5	1	2	0	4	2	0	0	20	6
			-	-	-	-	-	-	13	19	3	11	-	-	3	13	-	-	13	19/1
Moor House#	NY 758328	556	1	0	15	12	2	6	17	25	15	28	16	8	9	6	0	0	75	85
			-	-	9	22	5	27	83	31	83	14	12	23	7	12	-	-	83	31/1
<i>Lancashire</i>																				
Bacup	SD 847198	404	0	0	5	1	3	0	18	10	16	14	5	3	4	4	0	0	51	32
			-	-	4	12	-	-	10	18	15	13	1	21	5	9	-	-	15	13/2
Belmont	SD 692142	247	0	0	1	1	2	2	11	11	6	5	3	3	3	3	0	0	26	25
			-	-	7	12	7	7	10	19	8	13	4	21	4	13	-	-	10	19/1
Slaidburn	SD 717547	192	0	0	5	0	2	0	15	10	2	1	9	0	5	3	0	0	38	14
			-	-	-	-	-	-	10	19	1	1	-	-	4	13	-	-	10	19/1
Squires Gate#	SD 316317	10	0	0	0	0	2	0	9	2	6	1	2	0	4	1	0	0	23	4
			-	-	-	-	-	-	2	19	7	21	-	-	1	10	-	-	2	19/1
<i>Greater Manchester</i>																				
Ringway#	SJ 818850	75	0	0	3	0	2	0	15	1	7	4	5	0	5	1	0	0	37	6
			-	-	-	-	-	-	1	31	1	10	-	-	6	10	-	-	6	10/4
Strinesdale	SD 975066	244	0	0	6	1	4	0	22	7	16	4	9	0	7	3	0	0	64	15
			-	-	3	12	-	-	4	26	15	11	-	-	7	10	-	-	15	11/2
<i>Cheshire</i>																				
Northwich	SJ 656729	14	0	0	0	0	1	0	6	2	6	11	1	0	4	1	0	0	18	14
			-	-	-	-	-	-	4	30	2	10	-	-	2	10	-	-	4	30/1
<i>Isle of Man</i>																				
Maughold Head	SC 498914	70	0	0	1	0	0	0	2	1	1	1	1	1	0	0	0	0	5	3
			-	-	-	-	-	-	7	18	7	19	1	20	-	-	-	-	1	20/3
Snæfell	SC 397880	614	0	0	4	5	2	2	6	20	3	8	4	6	6	5	0	0	19	46
			-	-	D	-	4	8	D	-	D	-	D	-	1	10	-	-	D	-
DISTRICT 7B — WALES N																				
<i>Gwynedd</i>																				
Bryn Gwynant	SH 642513	95	0	0	5	0	3	0	10	7	8	12	7	0	2	2	0	0	35	21
			-	-	-	-	-	-	1	18	11	14	-	-	4	11	-	-	11	14/2
Dolgellau	SH 732177	27	0	0	2	0	3	0	8	2	4	3	0	0	2	1	0	0	19	6
			-	-	-	-	-	-	1	17	4	13	-	-	3	11	-	-	4	13/2
Valley#	SH 310758	10	0	0	0	0	0	0	7	1	8	6	3	0	2	1	0	0	20	8
			-	-	-	-	-	-	7	18	6	13	-	-	7	11	-	-	6	13/2
<i>Clwyd</i>																				
Alwen	SH 956528	335	0	0	13	10	4	3	19	11	9	17	9	2	6	2	0	0	60	45
			-	-	10	25	2	1	30	30	20	1	2	23	3	10	-	-	30	30/1
Bwlch Tunnel	SJ 164580	277	0	0	6	2	0	0	7	9	5	13	2	2	2	2	0	0	22	28
			-	-	3	17	-	-	5	16	5	11	1	16	5	9	-	-	5	16/1
Cae Llwyd	SJ 269482	280	0	0	4	0	3	0	9	5	7	1	3	0	5	0	0	0	31	6
			-	-	-	-	-	-	10	19	1	12	-	-	-	-	-	-	10	19/1
Clawdd Newydd	SJ 078521	300	0	0	10	3	4	0	14	10	7	13	8	1	2	2	0	0	45	29
			-	-	8	17	-	-	10	30	4	14	7	23	5	10	-	-	10	30/1
Mount Pleasant (Mold)	SJ 256663	153	0	0	4	1	1	1	6	3	5	8	3	0	2	2	0	0	21	15
			-	-	1	16	1	7	8	19	1	12	-	-	3	10	-	-	8	19/1
<i>Powys (North)</i>																				
Lake Vyrnwy#	SJ 017188	303	0	0	5	7	3	0	17	14	11	16	6	4	6	2	0	0	48	43
			-	-	3	17	-	-	14	19	4	1	7	17	4	10	-	-	14	19/1
Mael Cynnedd#	SN 843877	358	0	0	7	4	5	3	14	15	10	15	7	2	4	0	0	0	47	39
			-	-	1	17	1	28	12	19	4	20	7	17	-	-	-	-	12	19/1
DISTRICT 8A — WALES S																				
<i>Dyfed</i>																				
Aberporth	SN 242521	133	0	0	1	0	0	0	7	1	11	8	2	0	2	0	0	0	23	9
			-	-	-	-	-	-	2	18	6	13	-	-	-	-	-	-	6	13/2

TABLE 3 (continued)

Station	grid reference	altitude (metres)	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Season
Towy Castle	SN 406141	84	* * * * * 5 3 8 8 4 1 1 1 0 0	* * * * * 1 17 3 17 7 16 1 10 - -	* *						
<i>Powys (South)</i> Evancoyd	SO 261630	227	0 0 1 1 0 0 7 6 6 12 1 1 0 0 0 0	- - 1 24 - - 13 19 9 15 3 16 - - - -	15 20 13 19/1						
<i>South Glamorgan</i> Barry	ST 077668	210	* * * * 0 0 2 1 6 11 1 1 1 0 0 0	* * * * - - 7 18 30 18 3 16 - - - -	* *						
<i>West Glamorgan</i> Penmaen	SS 531889	87	0 0 1 0 0 0 4 0 11 8 2 1 3 0 0 0	- - - - - - - - 8 19 5 16 - - - -	21 9 8 19/2						
Swansea	SS 655925	23	0 0 4 0 1 0 5 0 9 5 2 0 2 0 0 0	- - - - - - - - 5 19 - - - - - -	23 5 5 19/2						
<i>Mjd Glamorgan</i> Merthyr Tydfil	SO 048071	235	0 0 6 7 1 1 11 6 10 14 4 2 3 0 0 0	- - 6 21 7 28 11 19 56 20 5 16 - - - -	35 30 56 20/2						
<i>Gwent</i> Crumbland#	SO 474024	245	0 0 0 0 0 0 5 7 3 7 2 2 0 0 0 0	- - - - - - 14 20 6 17 4 17 - - - -	10 16 14 20/1						
DISTRICT 8B - ENGLAND SW											
<i>Avon</i> Bath	ST 751638	118	0 0 * * 0 0 2 0 9 7 * 0 * 0 0 0	- - * * - - - - 8 19 - - - - - -	* *						
Filton #	ST 598802	59	0 0 0 0 0 0 9 0 10 6 4 1 2 0 0 0	- - - - - - - - 12 19 7 16 - - - - - -	25 7 12 19/2						
<i>Somerset</i> Exton #	SS 962338	335	0 0 8 0 1 0 20 8 12 12 6 1 4 1 0 0	- - - - - - 6 19 70 20 7 16 7 11 - - - -	51 22 70 20/2						
Hawkridge	SS 877327	314	0 0 2 0 1 0 11 4 6 13 3 0 0 0 0 0	- - - - - - 5 19 62 19 - - - - - -	23 17 62 19/2						
Glastonbury	ST 503400	15	0 0 * * 0 0 0 0 3 5 1 1 0 0 0 0	- - * * - - - - 10 20 3 16 - - - - - -	* *						
<i>Dorset</i> Dorchester	SY 697900	6	0 0 2 0 0 0 7 0 8 10 2 0 1 0 0 0	- - - - - - - - 30 19 - - - - - -	20 10 30 19/2						
<i>Devon</i> Burrator	SX 553680	230	0 0 3 0 1 0 10 5 6 12 2 2 2 0 0 0	- - - - - - 4 11 30 20 3 14 - - - - - -	24 19 30 20/2						
Chagford	SX 661866	381	0 0 3 0 2 2 11 10 7 15 5 1 3 2 0 0	- - - - 4 28 7 18 60 19 3 17 5 10 - - - -	31 30 60 19/2						
Exeter#	SY 001933	32	0 0 1 0 0 0 7 0 10 8 2 0 2 0 0 0	- - - - - - - - 32 20 - - - - - -	22 8 32 20/2						
North Hessary Tor	SX 585735	427	0 0 8 7 3 1 13 7 * * 11 2 5 0 0 0	- - 1 21 3 27 10 30 * * 5 17 - - - - - -	* *						
Okehampton	SX 593943	240	0 0 5 2 1 2 13 2 12 12 7 1 3 2 0 0	- - 2 20 1 28 7 18 D - 2 17 7 10 - - - -	41 21 D -						
Plymouth	SX 514529	49	0 0 0 0 0 4 1 7 4 1 0 2 0 0 0 0	- - - - - 7 17 9 19 - - - - - -	14 5 9 19/2						
Yalland	SX 690628	264	0 0 4 0 1 0 11 2 7 10 4 1 2 1 0 0	- - - - - 1 18 D - T 24 T 10 - - - -	29 14 D -						
<i>Cornwall</i> Bastreet #	SX 244765	232	0 0 0 0 0 0 8 3 9 9 2 2 2 1 0 0	- - - - - 7 11 5 14 7 16 1 11 - - - -	21 15 5 14/2						
St Mawgan	SW 871642	103	0 0 0 0 0 0 6 1 9 2 2 0 2 1 0 0	- - - - - 1 18 2 13 - - 5 11 - - - -	19 4 5 11/4						

# FIGURE 2 DISTRIBUTION OF SNOW COVER 1977/78

DAYS WHEN SNOW COVER WAS POSSIBLY OBSERVED BY  
LOW CLOUD SHOWN BY BLACK SQUARES BELOW 0 METRES

NUMBER OF DAYS WHEN SNOW  
WAS SEEN TO BE LYING  
Oct - May

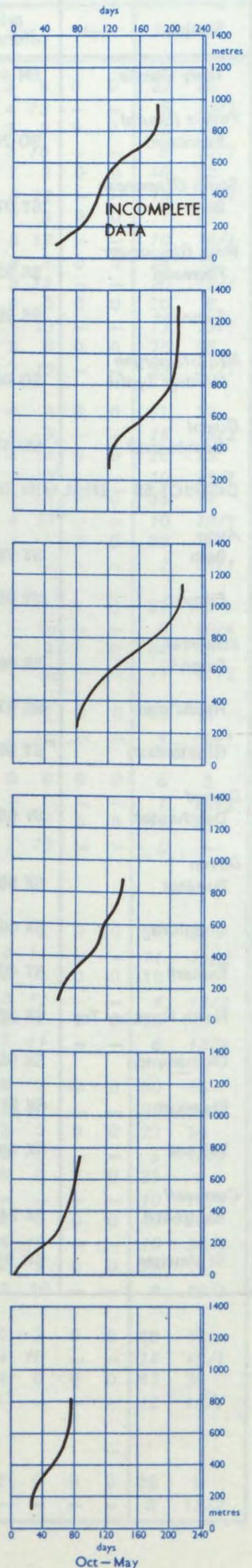
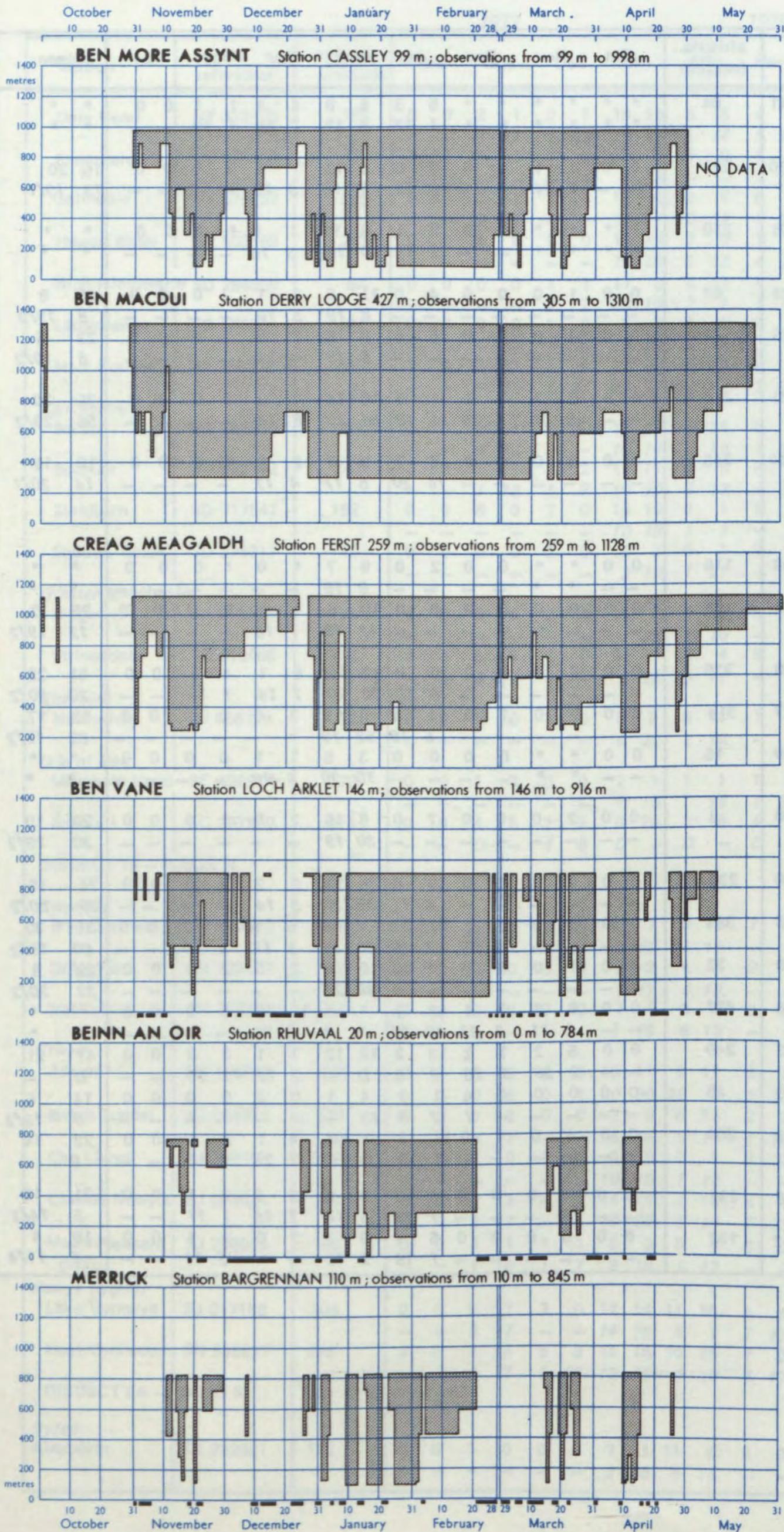




Table 4 Number of days with snow observed to be lying in the mountains

(a) near the summit, (b) at about 750 m, (c) at station level

See Figure 2 for days when mountains were obscured

The name of the peak is set in *italic*, the station in roman type

Peak and station	Altitude (metres)	Level	1977					1978					Total
			Oct	Nov	Dec	Jan	Feb	Mar	Apr	May			
Highland		a	1	30	31	30	28	31	30	0	181		
<i>Ben More Assynt</i>	998	b	1	26	28	30	28	31	28	0	172		
Cassley	99	c	0	4	1	14	26	1	4	0	50		
Highland		a	3	30	28	31	28	31	30	31	212		
<i>Creag Meagaidh</i>	1128	b	1	25	10	28	28	30	26	4	152		
Fersit	259	c	0	8	1	18	22	4	7	0	60		
Grampian		a	4	30	31	31	28	31	30	21	206		
<i>Ben Macdui</i>	1310	b	2	29	31	31	28	31	29	10	191		
Derry Lodge	427	c	0	19	18	28	28	18	9	2	122		
Central		a	0	23	13	28	26	22	17	9	138		
<i>Ben Vane</i>	916	b	0	22	8	27	26	22	17	9	131		
Loch Arklet	146	c	0	1	0	20	25	3	5	0	54		
Strathclyde		a	0	15	4	24	21	13	6	0	83		
<i>Beinn An Oir</i>	784	b	0	15	4	24	21	13	6	0	83		
Rhuvaal	20	c	0	0	0	2	0	0	0	0	2		
Dumfries and Galloway		a	0	14	4	21	20	9	7	0	75		
<i>Merrick</i>	845	b	0	14	4	21	20	9	7	0	75		
Bargrennan	110	c	0	1	0	15	1	1	2	0	20		
Northumberland		a	0	4	0	24	28	3	4	0	63		
<i>Carter Bar</i>	579	b	—	—	—	—	—	—	—	—	—		
Catcleugh	250	c	0	2	0	22	28	3	3	0	58		
Cumbria		a	0	17	15	22	28	31	15	12	140		
<i>Cross Fell</i>	893	b	0	17	15	22	28	31	15	12	140		
Alston	287	c	0	2	1	21	16	6	5	0	51		
Cumbria		a	0	14	8	26	20	12	8	0	88		
<i>Helvellyn</i>	950	b	0	7	4	26	20	8	7	0	72		
Dale Head	189	c	0	1	1	15	8	2	5	0	32		
Gwynedd		a	0	18	15	26	27	10	12	0	108		
<i>Snowdon</i>	1085	b	0	18	11	21	24	10	10	0	94		
Bryn Gwynant	95	c	0	0	0	7	12	0	2	0	21		
Gwynedd		a	0	12	8	20	18	5	8	0	71		
<i>Cader Idris</i>	892	b	0	12	8	20	18	5	8	0	71		
Dolgellau	27	c	0	0	0	2	3	0	1	0	6		
West Glamorgan		a	0	10	1	8	11	8	2	0	40		
<i>Brecon Beacons</i>	879	b	0	10	1	8	11	7	2	0	39		
Penmaen	87	c	0	0	0	0	8	1	0	0	9		