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METEOROLOGICAL OFFICE

CLIMATOLOGICAL SERVICES (Net 0 3)

CLIMATOLOGICAL MEMORANDUM No.47

STATISTICS OF SNOW DEPTHS AT SELECTED STATIONS IN ENGLAND,
WALES AND NORTHERN IRELAND, NOV. 1946-APRIL 1964

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Statistics were given in Climatological Memorandum No. 24 of snow depths measured at 0900 GMT during ten winters from November 1946 to April 1956, a winter being taken as the months November-April inclusive. In this memorandum data for a further eight winters have been added and more detailed information is given for seven selected stations.

Fig. 1 shows the Meteorological Office stations originally selected and substitute stations used to continue the records when stations closed. For most of the ten original stations which closed it was possible to substitute a nearby station at roughly the same altitude though for Croydon, Hawarden, West Malling and Castle Archdale it was necessary to use co-operating Climatological stations to replace the original Meteorological Office stations. No really satisfactory substitute station could be found for Cranfield; Cardington, at a much lower altitude, had to be used. No substitute station could be found for Castle Archdale for the period November 1956-April 1958.

In Table 1 frequencies of snow depths for specified ranges of depths each winter are given in the upper part of the panel for each station. As in Clim. Memo No. 24 only occasions when more than half the ground representative of a station was covered with snow were counted, the amount of coverage being indicated by the code figure for the state of ground. When the state of ground figure indicated that more than half the ground had been covered but no value was given for the depth of the snow this was estimated from the daily rainfall measurements taking the temperatures into account. At the four co-operating climatological stations snow depths were measured in inches; ranges in inches taken as corresponding to the centimetre ranges in the headings of the tables are:-

Depth in in.	0-1	2	3-4	5-6	7-8	9-12	13-16	over 16
" " cm	0-2	3-5	6-10	11-15	16-20	21-30	31-40	" 40

Values for each of the years 1946-56 given in Clim. Memo. No. 24 have been given again, partly for convenient reference and partly because some errors were found in the previous values. The lower part of the panel for each station gives the total number of occurrences for each winter month. The order of presentation of the stations is the same as that followed in Clim. Memo. No. 24 i.e. stations have been arranged geographically so that stations which are near to each other are also close together in the tables.

The histograms given in Clim. Memo. No. 24 have not been revised but a new table (Table 2) has been added which gives, for seven selected stations, frequencies of snow depths for each winter month of each individual year from 1946-1964.

It is perhaps desirable to repeat here the cautionary notes of Clim. Memo. No. 24 regarding statistics of snow depth. In the British Isles snow lying is one of the most variable climatological statistics. Orographic and coastal effects are often responsible for large local variations in amounts of snowfall and aspect is also of importance, especially in strong

/winds

winds, when heavy drifting may occur. Snow lying at a level depth of 21 cm (approximately 8") or more may mean a risk of very serious drifting especially in hilly or undulating terrain.

The three most severe winters during the period considered were those of 1946-47, 1954-55 and 1962-63. In the table below the number of occasions of snow lying are given for each of these winters and also the number of occasions of snow lying to a depth of 6 cm or more. Section A of the Table lists stations to the north of a line joining Valley and Mildenhall; Section B contains these two stations and those south of a line joining them. Only the name of the original station has been used in these lists. For Cranfield the comparison is not valid for all three winters as data relate to Cranfield (348 ft) in 1946-47 and 1954-55 and to Cardington at a much lower altitude (93 ft) in 1962-63.

Number of days with snow lying at 0900 GMT

(The figures in brackets give the number of days when the depth was 6 cm or more)

<u>Section A</u>	<u>1946-47</u>	<u>1954-55</u>	<u>1962-63</u>	<u>Section B</u>	<u>1946-47</u>	<u>1954-55</u>	<u>1962-63</u>
Acklington	49(41)	34(27)	64(33)	Valley	14 (2)	9 (1)	3 (0)
Leeming	53(28)	32 (9)	69(25)	Shawbury	47(32)	30(12)	56(42)
Driffield	54(30)	28 (8)	61(27)	Mildenhall	40 (7)	26 (7)	58 (5)
Finningley	54(49)	24 (3)	52(21)	Edgbaston	57(56)	36(14)	75(47)
Waddington	55(51)	30(15)	61(19)	Aberporth	20 (8)	3 (0)	31(13)
West Raynham	55(49)	36(12)	60(19)	Ross-on-Wye	43(35)	17 (8)	58(48)
Hawarden	44(25)	21 (5)	45 (4)	Little Rissington	55(42)	34(12)	74(67)
Ringway	17 (0)	22(11)	36 (5)	Cranfield	56(42)	32 (9)	48(21)
Squires Gate	11 (1)	16 (9)	18 (0)	Abingdon	39(29)	15 (2)	65(50)
Aldergrove	26 (7)	21 (5)	19 (8)	Croydon	40 (4)	16 (3)	64(56)
Castle Archdale	19(14)	10 (2)	9 (0)	West Malling	44(18)	20 (7)	57(38)
				South Farnborough	38 (8)	12 (2)	58(13)
				Boscombe Down	38(10)	16 (2)	64(55)
				Tangmere	17 (8)	8 (1)	41(24)
				Exeter	9 (0)	6 (1)	40(33)
				Mt. Batten	7 (3)	5 (1)	15 (4)

Dividing the stations in this way brings out some interesting features of the number of occasions of snow lying during these winters. Nearly all the stations had considerably less snow cover in 1954-55 than in the other two severe winters except for Ringway and Squires Gate which, as regards fairly deep snow (6 cm or more) fared far worse than in 1946-47 and 1962-63 when they had little. The six stations heading the list of Section A indicate that in north-east England, Lincolnshire and Norfolk, though the total number of days with snow-cover was mostly rather more in 1962-63 than in 1946-47, occasions of fairly deep snow were fewer, less than half those in 1946-47, in fact, in Lincolnshire and north Norfolk. The figures for stations in Section (B), representing roughly the southern half of England, show that with a few exceptions there were considerably more occasions of snow lying in 1962-63 than in 1946-47 and that occasions of fairly deep snow were also more numerous at most stations.

A comparison of the winters of 1946-47 and 1954-55 was made by Booth¹ with notes on the synoptic developments leading to the cold weather and the snowfall of January to March 1947 and 1955. Maps were included showing the number of days with snow falling and with snow lying for the two periods. The synoptic developments leading to the severe winter of 1946-47 were also described by Douglas². The snow of January and February 1955 was the subject of another paper by Booth³ which included maps based on several hundred observations.

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A survey of the winter of 1962-63 up to mid-February has been given by Booth in an article in the Journal of the British Waterworks Association⁴. The Climatological Atlas of the British Isles⁵ contains maps showing the average number of days with snow falling and snow lying on low ground between 1912 and 1938.

References

1. R. E. Booth. A comparison of the winters 1946-47 and 1954-55. Met O 3 Climatological Memoranda No. 4.
2. C. K. M. Douglas. The Severe winter of 1946 to 1947. Met. Mag. Vol. 76 1947 pp.51-56.
3. R. E. Booth. The snow of January and February 1955. Met. Mag. Vol. 84 1955 pp.129-137.
4. R. E. Booth. The winter of 1963 until mid-February. The Journal of the British Waterworks Association. Vol. XLV, March 1963 pp.169-174.
5. London. Meteorological Office. Climatological Atlas of the British Isles M.O.448 1952. Published by H.M.S.O. price £2 12. 6d. net.

Table 1

Depth in cm	0 to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 30	31 to 40	> 40	Total	0 to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 30	31 to 40	> 40	Total
Station	Acklington 138 ft									Leeming 105 ft Dishforth 106 ft								
1946-47	2	6	13	7	6	11	3	1	49	2	23	9	7	9	3			53
1947-48	1	2							3	1	2							3
1948-49		4							4	2	3							5
1949-50	1	3							4	1	4	1						6
1950-51	9	4	1	1	1				16	8	3	1	1					13
1951-52	11	1	3	2					17	8	1	1						10
1952-53	3	6	1						10	9	5							14
1953-54	2	5	6						13	3	4	8	1					16
1954-55	3	4	14	2	4	4	2	1	34	13	10	9						32
1955-56	6	12	8	3					29	7	13	9	5		2			36
1956-57	1		2						3	5								5
1957-58	5	11	6	1					23	4	13	5	2	1				25
1958-59	1	5	6						12	6	3	3						12
1959-60	8	4	6	3					21	4	2	3	1					10
1960-61	1	2							3	3								3
1961-62	4		5	4	4				17	4	5	2						11
1962-63	20	11	28	4	1				64	27	17	16	9					69
1963-64	5	2							7	4	6	2						12
Total	83	82	99	27	16	15	5	2	329	111	114	69	26	10	5			335
November 1946-63	1	4							5	3	1							4
December 1946-63	15	11	6	2	3				37	16	6	3	3		2			30
January 1947-64	29	25	27	10	2				93	48	37	19	1	1				106
February 1947-64	28	34	43	10	7	11	3	1	137	26	60	35	16	5	1			143
March 1947-64	10	8	23	5	4	4	2	1	57	17	10	12	6	4	2			51
April 1947-64										1								1
Driffield 69 ft Leconfield 24 ft										Finningley 20 ft Lindholme 21 ft								
1946-47	1	23	12	6	8	4			54	1	4	7	6	15	21			54
1947-48		3							3	2	2							4
1948-49	2	1							3	3	2							5
1949-50	5								5		5							5
1950-51	5	10	6	4	2				27	6	2	2	1	1				12
1951-52	3	6	1						10	4	1							5
1952-53	3	6	5						14	3	1							4
1953-54	6	2	8						16	9	8	3						20
1954-55	7	13	7	1					28	11	10	3						24
1955-56	9	10	12	3	2	4			40	8	8	8	5	1				30
1956-57	2	1							3	3	1							4
1957-58	7	5	9	4	1	2			28	5	7	4						16
1958-59		4	8						12		9	2						11
1959-60	6	3	1						10	3	4	4	1					12
1960-61	1								1									
1961-62	13								13	4	2	5		3				14
1962-63	27	7	21	6					61	10	21	21						52
1963-64	9	3							12	3	2							5
Total	106	97	90	24	13	10			340	75	89	59	13	20	21			277
November 1946-63	5								5	3								3
December 1946-63	17	14	7	4	3				45	8	6	5	1	1				21
January 1947-64	44	34	17	4	1				100	23	44	26	3	3				99
February 1947-64	23	42	55	8	5	8			141	32	33	28	5	10	16			124
March 1947-64	16	7	11	8	4	2			48	9	6		4	6	5			30
April 1947-64	1								1									

Table 1 (cont.)

Depth in cm	0 to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 30	31 to 40	> 40	Total	0 to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 30	31 to 40	> 40	Total
Station	Waddington 224 ft Scampton 186 ft									West Raynham 250 ft								
1946-47		4	8	10	10	23			55	1	5	2	14	12	10	7	4	55
1947-48	3	2	1	2					8	1	1							2
1948-49			1	3					4									
1949-50	5	1							6	1								1
1950-51	2	10	5						17	12	6							18
1951-52	7	1							8	5	2							7
1952-53	8	2	2	1					13	11	2							13
1953-54	4	5	7	5					21	4	9	4						17
1954-55	5	10	13	2					30	6	18	9	2		1			36
1955-56	8	4	12	7		1	2		34	10	6	3	3	3				25
1956-57										5	1							6
1957-58	8	1	4		1	1			15	4	3	7	1	2				17
1958-59	1	8	3						12		4	7						11
1959-60	4	9	4						17	5	4	3	1					13
1960-61																		
1961-62	6	5	8	3					22	4	4	3						11
1962-63	24	18	11	8					61	19	22	19						60
1963-64	5	2							7	5								5
Total	90	82	79	41	11	25	2		330	93	87	57	21	17	11	7	4	297
November 1946-63		1							1	1								1
December 1946-63	20	10	5						35	26	5							31
January 1947-64	29	35	29	11		1	2		107	35	38	25	5					103
February 1947-64	35	27	32	17	8	19			138	24	34	26	15	15	8	1		123
March 1947-64	6	8	13	13	3	5			48	7	10	6	1	2	3	6	4	39
April 1947-64		1							1									
Station	Mildenhall 15 ft									Cranfield 348 ft Cardington 93 ft								
1946-47	17	16	5		2				40	1	13	10	20	1	4	5	2	56
1947-48	3	1							4		1							1
1948-49	3								3		1							1
1949-50											1							1
1950-51	4	3							7	13								13
1951-52	5	2							7	5	3							8
1952-53	8	2							10	15	7							22
1953-54	5	4	1						10	4								4
1954-55	14	5	5	2					26	14	9	6	3					32
1955-56	11	7							18	9	5	5						19
1956-57	1	1							2		1							1
1957-58	7		1	2					10	3	4	1						8
1958-59	5	1							6	8								8
1959-60	2	1	2						5	3		2						5
1960-61																		
1961-62	5	4		3					12	3	3	1	3					10
1962-63	32	21	5						58	11	16	11	10					48
1963-64	2	3							5	2	1	2						5
Total	124	71	19	7	2				223	91	65	38	36	1	4	5	2	242
November 1946-63	2								2	2	3							5
December 1946-63	12	7	1						20	20	9	3						32
January 1947-64	47	26	5						78	37	19	20	13					89
February 1947-64	49	34	9	7					99	25	22	12	19		2	4		84
March 1947-64	12	4	4		2				22	7	12	3	4	1	2	1	2	32
April 1947-64	2								2									

Table 1 (cont.)

Depth in cm	0 to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 30	31 to 40	> 40	Total	0 to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 40	31 to 40	> 40	Total
Station	Edgbaston 536 ft									Shawbury 235 ft								
1946-47		1	6	23	17	7	2	1	57	8	7	20	10	1	1			47
1947-48	2	8							10	3	1							4
1948-49		3	1						4	2	1	3						6
1949-50		2							2	2	1							3
1950-51	6	4	4	1	1	1			17	9	4	7		1				21
1951-52	7	4	1						12	4	2	2						8
1952-53	9	3	1		1				14	2	4	1	1					8
1953-54	10	2							12	5	2	9	2					18
1954-55	8	14	7	3	4				36	8	10	9	2	1				30
1955-56	6	9	14						29	12	8	2						22
1956-57	2	1	1	1	1				6	2	1	1	1					5
1957-58	11	1	2						14	9	2	4						15
1958-59	2		6	5					13	5	3	8	2	1				19
1959-60	4	4	8	1					17	9	4							13
1960-61	1	1							2									
1961-62	7	2	2	2	1	1			15	8		6	1					15
1962-63	10	18	18	26	3				75	13	1	22	19	1				56
1963-64	6	1	5						12	4	1							5
Total	91	78	76	62	28	9	2	1	347	105	52	94	38	5	1			295
November 1946-63	2	5	2						9	4								4
December 1946-63	16	12	6	1	2				37	20	4	7	3	1				35
January 1947-64	21	24	22	37	5	2			111	34	15	46	17	2				114
February 1947-64	35	28	38	17	20	1			139	32	28	36	14	1				111
March 1947-64	16	9	8	7	1	6	2	1	50	15	4	5	4	1	1			30
April 1947-64	1								1		1							1
Station	Ross on Wye 223 ft									Little Rissington 740 ft								
1946-47		8	22	11	2				43	6	7	2	14	8	18			55
1947-48	2	2	1						5	2	1							3
1948-49		1							1	1	2							3
1949-50										1								1
1950-51	6	4	2						12	8	4	3						15
1951-52	3	1							4	10		2						12
1952-53	3	5	7						15	7	8	7	2	3				27
1953-54	2	3	7	1					13	3	1	7	4					15
1954-55	6	3	7	1					17	14	8	9	3					34
1955-56	11	4	1						16	13	10							23
1956-57		1		1		1			3	3	2	2						7
1957-58	6								6	5	9							14
1958-59	3	2	2						7	5	7	3						15
1959-60	6	2	1						9	4	4	5	5					18
1960-61												1						1
1961-62	2	3	5						10	4	5	1	1	2	1			14
1962-63		10	22	23	3				58	3	4	30	31	6				74
1963-64	4								4	10	2	1						13
Total	54	49	77	37	5	1			223	99	74	73	60	19	19			344
November 1946-63	2	2	2						6	7	3	3	2	1				16
December 1946-63	7	10	9	1		1			28	13	9	13	1	3				39
January 1947-64	17	15	25	23	3				83	34	26	23	27	7	1			118
February 1947-64	23	19	39	10					91	29	27	31	24	6	13			130
March 1947-64	5	3	2	3	2				15	16	8	3	6	2	5			40
April 1947-64											1							1

Table 1 (cont.)

Depth in cm	0 to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 30	31 to 40	> 40	Total	0 to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 30	31 to 40	> 40	Total
Station	Croydon 201 ft Bromley 213 ft									West Malling 304 ft East Malling 122 ft								
1946-47	6	30	3	1					40	1	25	4	7	6	1			44
1947-48		2	1	1	2				6	7	2							9
1948-49	1	1	1						3	2								2
1949-50										3								3
1950-51	4	3							7	4	2							6
1951-52	4	1	1	1					7	4	2	1	1					8
1952-53	3	1	1						5	2	3	2	2					9
1953-54	6	1							7	12	1							13
1954-55	11	2	1		1	1			16	6	7	4	2	1				20
1955-56	9	1							10	3	7	1						11
1956-57										2								2
1957-58	4		1						5	6	4		1	1				12
1958-59	1								1	1								1
1959-60	7								7	5	1		1	1				8
1960-61																		
1961-62	10	1							11	6	1	3	1					11
1962-63	1	7	9	10	22	9	5	1	64	16	3	7	12	9	9	1		57
1963-64	6								6	4		1						5
Total	73	50	18	13	25	10	5	1	195	84	58	23	27	18	10	1		221
November 1946-63										1								1
December 1946-63	4	4	1		3	1	1		14	8	4		1		3	1		17
January 1947-64	31	7	1	5	14	9	4	1	72	22	8	12	19	16	7			84
February 1947-64	28	34	13	7	8				90	35	33	11	5	2				86
March 1947-64	10	5	2	1					18	15	12		2					29
April 1947-64			1						1	3	1							4
Station	Tangmere 52 ft Thorney Island 10 ft									Abingdon 210 ft								
1946-47	1	8	4	1		3			17	6	4	24	3	2				39
1947-48		2	2	1					5									
1948-49																		
1949-50																		
1950-51	2	2	1						5	8								8
1951-52		2	1						3	2	1	2						5
1952-53	1	1							2	3	2	11						16
1953-54		4	5	3					12	6	3	1						10
1954-55	3	4	1						8	12	1	2						15
1955-56	4	1	1						6	15	3							18
1956-57										2								2
1957-58	2	1							3	8	1							9
1958-59										5								5
1959-60	2	3	2						7	2	2	3	1					8
1960-61																		
1961-62	4								4	4	2	1	2		1			10
1962-63	1	16	17	2		5			41	7	8	11	15	14	9		1	65
1963-64	2	1							3	4	2	1						7
Total	22	45	34	7		8			116	84	29	56	21	16	10		1	217
November 1946-63										4		1						5
December 1946-63	2	2	4			2			10	14	2	11	1		2			30
January 1947-64	9	26	14	4		5			58	28	10	10	12	13	8		1	82
February 1947-64	8	16	14	3		1			42	34	17	29	6	1				87
March 1947-64	3	1	2						6	3		4	2	2				11
April 1947-64										1		1						2

Table 1 (cont.)

Depth in cm	0 to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 30	31 to 40	> 40	Total	0 to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 30	31 to 40	> 40	Total
Station	South Farnborough 226 ft									Boscombe Down 414 ft								
1946-47	4	26	7	1					38	14	14	5	5					38
1947-48		3	2	1					6	1	1							2
1948-49		1							1	1								1
1949-50		1							1			1	1					2
1950-51	1	4	1	2	1				9	4	4		2					10
1951-52	3	2	1		1				7	5	2	1						8
1952-53	3	2							5	2	2							4
1953-54	8	3	4						15	1	3	8	1	2				15
1954-55	7	3	2						12	10	4	1	1					16
1955-56	11	7							18	12								12
1956-57		1							1			1		1				2
1957-58	4	2							6	6								6
1958-59	3	1							4	6	3							9
1959-60	2	4							6	3	1	4						8
1960-61																		
1961-62	2	4	2	2	1				11		1	4						5
1962-63	18	27	6	4	2	1			58	1	8	15	25	9	6			64
1963-64	3	3							6		2							2
Total	69	94	25	10	5	1			204	66	45	40	35	12	6			204
November 1946-63		1							1		1							1
December 1946-63	5	6	5	2					18	8	3	4	2	3				20
January 1947-64	21	37	9	6	4	1			78	15	14	10	23	8	6			76
February 1947-64	37	45	6	2					90	32	23	25	9	1				90
March 1947-64	5	5	5		1				16	10	3							13
April 1947-64	1								1	1	1	1						4
Station	Squire's Gate 33 ft									Ringway 248 ft								
1946-47	7	3	1						11	15	2							17
1947-48										4								4
1948-49	3								3	2								2
1949-50	2								2			1						1
1950-51	1	7	4						12	7	1	7	2					17
1951-52	1								1	5	1							6
1952-53	2			1					3	4	2	1						7
1953-54	4	8	4						16	5	2	3		2				12
1954-55	5	2	4	2	2	1			16	6	5	9	2					22
1955-56	5	1	2						8	8	7	2						17
1956-57			2						2	2								2
1957-58		1	2	3	2				8	7	2	1	2					12
1958-59	1	2	1	1					5	5	4	2						11
1959-60	2								2	6	4							10
1960-61																		
1961-62	3	6							9	15	2	1						18
1962-63	9	9							18	20	11	5						36
1963-64		1	1						2			1						1
Total	45	40	21	7	4	1			118	111	43	33	6	2				195
November 1946-63										2								2
December 1946-63	5	7	7	1					20	21	2	6	2					31
January 1947-64	12	20	9	3	2				46	37	21	9	3					70
February 1947-64	21	9	4	3	2	1			40	34	16	14	1	2				67
March 1947-64	7	4	1						12	17	4	4						25
April 1947-64																		

Table 1 (cont.)

Depth in cm	0 to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 30	31 to 40	> 40	Total	C to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 30	31 to 40	> 40	Total
Station	Hawarden 15 ft Hawarden Bridge 17 ft									Valley 26 ft								
1946-47	1	18	24	1					44	6	6	2						14
1947-48																		
1948-49	2								2									
1949-50		1							1	1								1
1950-51	4	10							14	3								3
1951-52	4	3							7		1	2						3
1952-53	1	1	1	1					4	1								1
1953-54	5	1	4	4	3	1			18	1	2							3
1954-55	13	3	4	1					21	3	5							9
1955-56	12		4						16	1	2	1	1					5
1956-57	3								3									
1957-58	5	5	5	1					16	5								5
1958-59	5	1							6	3								3
1959-60	3								3									
1960-61	1								1									
1961-62	9	1							10	6	1	3						10
1962-63	25	16	4						45	3								3
1963-64	2								2									
Total	95	60	46	8	3	1			213	33	17	9	1					60
November 1946-63																		
December 1946-63	12	8	4	1					25	7								7
January 1947-64	37	31	7	2	3	1			81	11	2	5						18
February 1947-64	32	19	25	5					81	10	14	4	1					29
March 1947-64	14	2	10						26	5	1							6
April 1947-64																		
Station	Mt. Batten 87 ft									Exeter 106 ft								
1946-47	1	3	1	1		1			7	7	2							9
1947-48		1	2	1					4									
1948-49																		
1949-50										1								1
1950-51	3								3	4	3	2						9
1951-52	4								4	1								1
1952-53		1							1	1	1							2
1953-54	1								1	7								7
1954-55	1	3		1					5	4	1	1						6
1955-56	4	3	4	1					12	8								8
1956-57																		
1957-58	3	1	1						5	1	3	2						6
1958-59	2								2	3								3
1959-60	2								2	3	2							5
1960-61																		
1961-62	4								4	2								2
1962-63	8	3	2	2					15	4	3	25	5	2	1			40
1963-64	2								2	2								2
Total	35	15	10	6		1			67	48	15	30	5	2	1			101
November 1946-63																		
December 1946-63	4	3		1					8	7	5	2	1	1				16
January 1947-64	17	2	3	2		1			25	14	5	26	4	1	1			51
February 1947-64	12	10	7	3					32	25	5	2						32
March 1947-64	2								2	2								2
April 1947-64																		

Table 1 (cont.)

Depth in cm	0 to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 30	31 to 40	> 40	Total	0 to 2	3 to 5	6 to 10	11 to 15	16 to 20	21 to 30	31 to 40	> 40	Total
Station	Aberporth 217 ft																	
1946-47	4	8	2	1	3	2			20									
1947-48																		
1948-49																		
1949-50																		
1950-51	6	2	1						9									
1951-52	1	3							4									
1952-53		1							1									
1953-54																		
1954-55	2	1							3									
1955-56	1	2	2	1					6									
1956-57	1								1									
1957-58	3	3							6									
1958-59																		
1959-60	1								1									
1960-61																		
1961-62	4	3	2						9									
1962-63	11	7	12		1				31									
1963-64																		
Total	34	30	19	2	4	2			91									
November 1946-63			1						1									
December 1946-63	5	3	1						9									
January 1947-64	12	15	14						41									
February 1947-64	14	8	4	1	1				28									
March 1947-64	3	3		1	3	2			12									
April 1947-64																		
Station	Aldergrove 217 ft									Castle Archdale 225 ft Ely Lodge 210 ft								
1946-47	7	12	4	3					26	2	3	5	6	3				19
1947-48	1	2							3	3	1							4
1948-49	1								1	2		2	1					5
1949-50	1								1	4								4
1950-51	4	3	9	2	3				21	13	6	6	1	2				28
1951-52	10	4							14	2	2	18						22
1952-53	1	1	2						4	1		2		1				4
1953-54	3								3	4	2							6
1954-55	5	11	2	1	1	1			21	2	6	2						10
1955-56	7	3							10	2	6	1						9
1956-57		4							4	-	-	-	-	-	-	-	-	*
1957-58	4	1	2	1	3	2			13	-	-	-	-	-	-	-	-	*
1958-59	3	4	1	2					10	6	4							10
1959-60	3	1	4	1					9	2	2	3						7
1960-61	2	1							3	1								1
1961-62	8								8	1								1
1962-63	5	6	2	1	5				19	7	2							9
1963-64																		
Total	65	53	26	11	12	3			170	52	34	39	8	6				139
November 1946-63	2	2							4									
December 1946-63	3	10	9	2					24	5	3	7	1	3				19
January 1947-64	34	17	6	3	10	2			72	26	14	21	1					62
February 1947-64	19	16	8	5	2	1			51	15	13	6	2	1				37
March 1947-64	5	8	3	1					17	4	4	5	4	2				19
April 1947-64	2								2	2								2

* No record for either station Nov. 1956-Apr. 1958

Table 2. Frequency of specified snow depths (at 0900 GMT) each year at specific stations.

ACKLINGTON

Month	Depth in cm	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64
Nov	0-2																	1	
	3-5																	4	
	6-10																		
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total																	5	
Dec	0-2					3	1	2			3							3	3
	3-5		2			3					3							1	2
	6-10					1		1				2						2	
	11-15					1											1		
	16-20					1											2		
	21-30																		
	31-40																		
	over 40																		
	Total		2			9	1	3			6	2					3	6	5
Jan	0-2	2	1		1	1	6	1		1	1	1	2	1	4	1		6	
	3-5	1			2	1	1		2	3	1		5	5				4	
	6-10	1					3		2	4	2			6			1	8	
	11-15						2				1				2		3	2	
	16-20																1	1	
	21-30																		
	31-40																		
	over 40																		
	Total	4	1		3	2	12	1	4	8	5	1	7	12	6	1	5	21	
Feb	0-2					2	4				2		2		3		3	10	2
	3-5	5			1			6	3		8		4		4	2		1	
	6-10	5							4	6	6		2		6			14	
	11-15	4								1	2				1			2	
	16-20	4								3									
	21-30	7								4									
	31-40	1								2									
	over 40									1									
	Total	26			1	2	4	6	7	17	18		8		14	2	3	27	2
Mar	0-2					3			2	2			1		1		1		
	3-5			4						1			2				-	1	
	6-10	7								4			4				4	4	
	11-15	3								1			1				-		
	16-20	2								1							1		
	21-30	4																	
	31-40	2																	
	over 40	1																	
	Total	19		4		3			2	9			8		1		6	5	
Apr	0-2																		
	3-5																		
	6-10																		
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total																		

Table 2. Frequency of specified snow depths (at 0900 GMT) each year at specific stations.

LEEMING/DISHFORTH

Month	Depth in cm	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64
Nov	0-2																	3	
	3-5																	1	
	6-10																		
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total																	4	
Dec	0-2		1			1		1				3					2	7	1
	3-5																1		5
	6-10					1													2
	11-15					1					2								
	16-20																		
	21-30										2								
	31-40																		
	over 40																		
	Total		1			3		1			4	3					3	7	8
Jan	0-2	2			1	4	3	4	1	1	3	1	1	6		2	1	17	1
	3-5	2				1	1			4	5		9	3	2		2	8	
	6-10				1		1		3	2	3		2	3	3			1	
	11-15														1				
	16-20	1																	
	21-30																		
	31-40																		
	over 40																		
	Total	5			2	5	5	4	4	7	11	1	12	12	6	2	3	26	1
Feb	0-2					3	4	4	1	4	4	1			4	1			
	3-5	20	2		4			5	4	6	8		2				1	7	1
	6-10	2							4	7	6		3				2	11	
	11-15	1							1		3		2					9	
	16-20	4											1						
	21-30	1																	
	31-40																		
	over 40																		
	Total	28	2		4	3	4	9	10	17	21	1	8		4	1	3	27	1
Mar	0-2			2			1		1	8			2				1		2
	3-5	1		3		2							2				1	1	
	6-10	7							1									4	
	11-15	6																	
	16-20	4																	
	21-30	2																	
	31-40																		
	over 40																		
	Total	20		5		2	1		2	8			4				2	5	2
Apr	0-2												1						
	3-5																		
	6-10																		
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total												1						

Table 2. Frequency of specific snow depths (at 0900 GMT) each year at selected stations.

MILDENHALL																			
Month	Depth in cm	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64
Nov	0-2							2											
	3-5																		
	6-10																		
	11-20																		
	21-30																		
	31-40																		
	over 40																		
	Total							2											
Dec	0-2	1				1		1				1		1			1	5	1
	3-5					3		1				1					1	1	
	6-10																	1	
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
Total	1				4		2				2		1			2	7	1	
Jan	0-2	2				3	3	4	2	4	3		4	4	2			16	
	3-5	5	1					1		3				1	1			11	3
	6-10	1													2			2	
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
Total	8	1			3	3	5	2	7	3		4	5	5			29	3	
Feb	0-2	14	3				1	1	1	7	8		2				1	11	
	3-5	10					1		3	2	7						2	9	
	6-10	1							1	4			1					2	
	11-15									2			2				3		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
Total	25	3				2	1	5	15	15		5				6	22		
Mar	0-2			3			1		2	3			1				1		1
	3-5	1					1		1								1		
	6-10	3								1									
	11-15																		
	16-20	2																	
	21-30																		
	31-40																		
	over 40																		
Total	6		3			2		3	4			1				2		1	
Apr	0-2																2		
	3-5																		
	6-10																		
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
Total																2			

Table 2. Frequency of specified snow depths (at 0900 GMT) each year at selected stations.

SHAWBURY

Month	Depth in cm	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64
Nov	0-2		1															3	
	3-5																		
	6-10																		
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total		1								3	1					2	3	
Dec	0-2			1	1	5					3	1					2	7	
	3-5					3						1							
	6-10					4		1				1					1		
	11-15							1				1					1		
	16-20					1													
	21-30																		
	31-40																		
	over 40																		
	Total			1	1	13		2			3	4					4	7	
Jan	0-2	6		1	1	1	3			5	2		3	5	3		1	2	1
	3-5	1				1	1			5	1		1	3	2				
	6-10	1		3		3	2		4	1	2		2	8			5	15	
	11-15								2					2				13	
	16-20													1				1	
	21-30																		
	31-40																		
	over 40																		
	Total	8		4	1	5	6		6	11	5		6	19	5		6	31	1
Feb	0-2	1	2			1	1	2	3	1	7	1	3		6		2	1	1
	3-5	5	1					4	2	5	7		1		2			1	
	6-10	16							5	6			2					7	
	11-15	6								2								6	
	16-20									1									
	21-30																		
	31-40																		
	over 40																		
	Total	28	3			1	1	6	10	15	14	1	6		8		2	15	1
Mar	0-2	1				2			2	2			3				3		2
	3-5	1		1			1												1
	6-10	3								2									
	11-15	4																	
	16-20	1																	
	21-30	1																	
	31-40																		
	over 40																		
	Total	11		1		2	1		2	4			3				3		3
Apr	0-2																		
	3-5				1														
	6-10																		
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total				1														

Table 2. Frequency of specified snow depths (at 0900 GMT) each year at selected stations.

SOUTH FARNBOROUGH

Month	Depth in cm	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64
Nov	0-2																		
	3-5		1																
	6-10																		
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
Dec	Total		1																
	0-2	1				1		2										1	
	3-5	2				3						1							
	6-10					1											1	3	
	11-15																	2	
	16-20																		
	21-30																		
	31-40																		
Jan	over 40																		
	Total	3				5		2				1					1	6	
	0-2	2					3		2	1	3		1					4	1
	3-5	4				1	1		2	1				1	4		2	19	2
	6-10								3	2							1	3	
	11-15					2											2	2	
	16-20					1											1	2	
	21-30																	1	
Feb	31-40																		
	over 40																		
	Total	6				4	4		7	4	3		1	4	5		6	31	3
	0-2							1	5	6	8		1		1		1	13	1
	3-5	20	2					2	1	2	7		1				2	8	
	6-10	4	2																
	11-15	1	1																
	16-20																		
Mar	21-30																		
	31-40																		
	over 40																		
	Total	25	5					3	6	8	15		2		1		3	21	1
	0-2	1							1				1				1		1
	3-5			1	1		1						1						1
	6-10	3					1		1										
	11-15																		
Apr	16-20						1												
	21-30																		
	31-40																		
	over 40																		
	Total	4		1	1		3		2				2				1		2
	0-2												1						
	3-5																		
	6-10																		
Apr	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total												1						

Table 2. Frequency of specified snow depths (at 0900 GMT) each year at selected stations.

MT. BATTEN

Month	Depth in cm	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64
Nov	0-2																		
	3-5																		
	6-10																		
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total																		
Dec	0-2					3												1	
	3-5						1											2	
	6-10																		
	11-15																	1	
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total					3		1					2	2	2		2	4	
Jan	0-2						3		1				2	2	2		2	3	2
	3-5									1								1	
	6-10												1					2	
	11-15	1								1									
	16-20																		
	21-30	1																	
	31-40																		
	over 40																		
	Total	2					3		1	2			3	2	2		2	6	2
Feb	0-2	1					1			1	4						1	4	
	3-5	3	1							2	3		1						
	6-10	1	2								4								
	11-15		1								1							1	
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total	5	4				1			3	12		1				1	5	
Mar	0-2												1				1		
	3-5																		
	6-10																		
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total												1				1		
Apr	0-2																		
	3-5																		
	6-10																		
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total																		

Table 2. Frequency of specified snow depths (at 0900 GMT) each year at selected stations.

ALDERGROVE

Month	Depth in cm	1946-47	1947-48	1948-49	1949-50	1950-51	1951-52	1952-53	1953-54	1954-55	1955-56	1956-57	1957-58	1958-59	1959-60	1960-61	1961-62	1962-63	1963-64
Nov	0-2					1												1	
	3-5					1												1	
	6-10																		
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total					2												2	
Dec	0-2																2	1	
	3-5		2			2		1				3						2	
	6-10					7		2											
	11-15					2													
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total		2			11		3				3					2	3	
Jan	0-2	1	1	1		2	8			3	6			3	2	1	5	1	
	3-5	1					3			5	1	1		4		1		1	
	6-10					1				1			1	1				2	
	11-15												1	2					
	16-20					3							3					4	
	21-30												2						
	31-40																		
	over 40																		
	Total	2	1	1		6	11			9	7	1	7	10	2	2	5	8	
Feb	0-2	4					2	1	2	2	1		2		1	1	1	2	
	3-5	4					1			6	2				1			2	
	6-10	1				1				1			1		4				
	11-15	2								1					1			1	
	16-20									1								1	
	21-30									1									
	31-40																		
	over 40																		
	Total	11				1	3	1	2	12	3		3		7	1	1	6	
Mar	0-2	2							1				2						
	3-5	7											1						
	6-10	3																	
	11-15	1																	
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total	13							1				3						
Apr	0-2				1	1													
	3-5																		
	6-10																		
	11-15																		
	16-20																		
	21-30																		
	31-40																		
	over 40																		
	Total				1	1													

Figure 1

STATIONS USED FOR FREQUENCIES OF SNOW DEPTH

● original stations

○ substitute stations

Periods covered by each station when there was a change of station

Leeming Nov. 1946 - April 1952
 Driffield Nov. 1946 - April 1959
 Finningley Nov. 1946 - April 1954
 Hawarden Nov. 1946 - April 1956
 Cranfield Nov. 1946 - April 1955
 Croydon Nov. 1946 - April 1959
 W. Malling Nov. 1946 - April 1960
 Tangmere Nov. 1946 - April 1958
 Castle Archdale Nov. 1946 - April 1956

Dishforth Nov. 1952 - April 1964
 Leconfield Nov. 1959 - April 1964
 Lindholme Nov. 1954 - April 1964
 Hawarden Bridge Nov. 1956 - April 1964
 Cardington Nov. 1955 - April 1964
 Bromley Nov. 1959 - April 1964
 E. Malling Nov. 1960 - April 1964
 Thorney Island Nov. 1958 - April 1964
 Ely Lodge Nov. 1958 - April 1964

Scampton was used to replace Waddington from Nov. 1954 - April 1955

