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Fire Research Note No 1008

PRELIMINARY ANALYSIS OF FIRE REPORTS FROM FIRE BRIGADES IN THE UNITED KINGDOM, 1973

by

S E Chandler April 1974

FIRE RESEARCH STATION

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FR Note No.1008 · April 1974

PRELIMINARY ANALYSIS OF FIRE REPORTS FROM FIRE BRIGADES IN THE UNITED KINGDOM, 1973

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S E Chandler

SUMMARY

A preliminary analysis shows that there were 322 037 fires attended by local authority fire brigades in the United Kingdom, the highest ever total recorded. There were 944 deaths reported in the year of which three were fire brigade personnel; it is likely that the final figure will exceed 1000. There were 6377 non-fatal casualties reported in the United Kingdom. The direct fire loss was £193.9M, the highest figure ever reported.

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INTRODUCTION

A preliminary analysis of fire reports shows that during 1973, local authority fire brigades attended 280 885 fires in England and Wales, 36931 in Scotland and 4221 in Northern Ireland. The United Kingdom total of 322 037 fires is the highest ever recorded. It is likely that the Northern Ireland figure is lower than the true figure because of civil unrest and the inability of brigades to attend some fires. The number of fires occurring in each brigade area is shown in Table 1.

With the exception of Table 8 (direct fire damage) this analysis is based on reports received up to 8 March 1974 and all information contained in it is subject to revision when outstanding reports have been received.

NATURE OF INJURIES TO CASUALTIES

One fireman in England and Wales was fatally injured at a school fire. Another fireman was killed on the way to a fire. In Northern Ireland, a fireman was shot whilst on duty. In England and Wales, 635 members of the fire services were injured at fires, the corresponding figures for Scotland and Northern Ireland were 72 and 14 respectively. Details of the nature of injuries to firemen and civilians are shown in Table 2. Injuries attributed to explosions (other than non-fatal casualties in mass bomb incidents) are included, but only those due to burning or asphyxiation are shown for fires resulting from crashes. Electrocutions are not included, but 'suicide by fire' injuries are shown.

AGE AND SEX OF CASUALTIES

Information on the sex and age of fatal and non-fatal casualties is given in Tables 3A and 3B. Fatal casualties were equally distributed between the sexes but nearly two-thirds of the non-fatal casualties were males.

FATALITIES

Tables 4, 5 and 6 give information on fatal casualties related to month of occurrence, hazard of origin and source of ignition. There were 760 fatal casualties in England and Wales, 149 in Scotland and 35 in Northern Ireland. This gives a total of 944 deaths in the United Kingdom and it is likely that the final figure will approach the record high figure of 1078 recorded in 1972. Apart from the Summerland fire (50 deaths) in the Isle of Man, which is outside the scope of this report, the worst fire during the year was at a hotel in Oban, resulting in ten deaths. A total of 6377 non-fatal casualties were reported.

RESCUES AND ESCAPES

Fire brigades assisted in the rescue of 1047 persons from hazardous situations in fires in buildings in England and Wales, 285 in Scotland and 15 in Northern Ireland. The corresponding figures for rescues from outdoor fires were 47, 4 and one respectively. At least a further 1998 persons were rescued by police and private citizens: 1715 in England and Wales, 210 in Scotland and 73 in Northern Ireland. Five hundred and eighty persons escaped by unorthodox routes from buildings in England and Wales, the corresponding figures for Scotland and Northern Ireland were 107 and 28 respectively. The figures for escapes by unorthodox or emergency means from outdoor fires were 103 in England and Wales, 15 in Scotland and one in Northern Ireland.

COST OF DAMAGE ,

Table 8 gives details of direct monthly monetary losses due to material damage estimated by the British Insurance Association in Great Britain. The total for the United Kingdom was £193.9M.

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Fires attended by fire brigades in the United Kingdom 1973

Fire brigades	Total fires	Total fires reported on Form K433 (1)	Total fires reported on Form K433H (2)
England and Wales - County Fire Brigades			
Anglesey Bedfordshire Berks and Reading Brecon Co. and Radnor Buckinghamshire Caernarvonshire Cambridgeshire and Ely, Isle of Cardiganshire and Carmarthenshire Cheshire Cornwall Cumberland Denbigh and Montgomery Derbyshire Devonshire (includes Exeter and Plymouth	248 1379 2402 285 2716 769 1274 926 6168 1650 1132 985 2788	138(3) 678 1142(4) 173 1426 311 824 490 2921 863 608 537 1353	110(3) 701 1260 112 1290 458 450 436 3247 787(3) 524 448 1435
from 1.5.73) Dorsetshire Durham Co. Essex Flintshire Glamorganshire Gloucestershire Hampshire Herefordshire Hertfordshire Huntingdonshire and Peterborough Kent and Canterbury Lancashire Leicestershire and Rutland Lincs (Holland) Lincs (Kesteven) Lincs (Lindsey) London (Greater) Merionethshire Monmouthshire Norfolk Northamptonshire Northumberland Nottinghamshire Oxfordshire Pembrokeshire Scilly, Isles of	2581 1983 4567 6840 967 4459 2724 5181 607 3453 1008 7172 15745 1716 342 559 1827 47992 152 1677 1801 1653 2582 2770 843 501 28	$\begin{array}{c} 1480\\ 707\\ 1915\\ 2772\\ 502\\ 1640(3)\\ 1508\\ 2107\\ 366\\ 1723(4)\\ 526\\ 3030\\ 8021\\ 991\\ 217\\ 343\\ 1145\\ 20711\\ 104\\ 579(4)\\ 1029\\ 962\\ 1144\\ 1267\\ 517(6)\\ 249\\ 10(7)\\ \end{array}$	$\begin{array}{c} 1101\\ 1276\\ 2652\\ 4068\\ 465\\ 2819\\ 1216\\ 3074\\ 241\\ 1730(4)\\ 482\\ 4142\\ 7724(5)\\ 725\\ 125\\ 216\\ 682\\ 27281\\ 48\\ 1098(4)\\ 772\\ 691\\ 1438\\ 1503\\ 326(6)\\ 252\\ 18(6)\end{array}$

Fire brigades	Total fires	Total fires reported . on Form K433 (1)	Total fires reported on Form K433H (2)
County fire brigades (cont d)			
Shropshire Somerset Staffordshire Suffolk and Ipswich Surrey Sussex East Sussex West Warwickshire Westmorland Wight, Isle of Wiltshire Worcester Co. and Worcs. C.B. Yorks (East Riding) Yorks (North Riding) Yorks (West Riding)	1401 1876 3059 2443 5026 1830 1844 2607 253 444 1314 2158 688 1193 8876	820 1245 1335(6) 1282 2127 921(3) 1120(3) 1395 187 242 751(5) 1170 308(8) 600(5) 3906	581 631 1724 1161 2899(3) 909 724(3) 1212 66(3) 202 563 988 380 593 4970
England and Wales - County Borough Fire Brigades			
Barnsley Barrow in Furness Bath Birkenhead Birmingham Blackburn Blackpool Bolton Bootle Bournemouth Bradford Brighton Bristol Burnley Burton on Trent Bury Cardiff Carlisle Chester Coventry Darlington Derby Dewsbury Doncaster Dudley	453 534 313 2033 5939 1121 880 1328 1772 807 2291 820 2276 1134 168 738 2111 395 346 1995 645 908 469 501 836	166 200 235 554 2745 401 500 505 546 338 857 430 1152 415 80(4) 261 784 192 183 872 258 456 165 202 356	287 334 78 1479 3194(6) 720 380 823 1226 469 1434 390 1124 719 88 477 1327 203 163 1123 387 452 304 299 480

Table 1 (cont'd)

Fire brigades	Total fires	Total fires reported on Form K433 (1)	Total fires reported on Form K433H (2)
County Borough Fire Brigades (cont'd)			
Eastbourne Exeter (ceased from 1.5.73) Great Yarmouth Grimsby Halifax Hartlepool Hastings Huddersfield Kingston upon Hull Leeds Leicester Lincoln Liverpool Luton Manchester Merthyr Tydfil Newcastle on Tyne and Gateshead Newport (Mon.) Northampton Norwich Nottingham Oldham Oxford Plymouth (ceased from 1.5.73) Portsmouth Preston Rochdale Rotherham St Helens Salford Sheffield Solihull Southampton Southend Southport South Shields Stockport Stoke on Trent Sunderland Swansea	$\begin{array}{c} 276\\ 101\\ 233\\ 754\\ 775\\ 912\\ 387\\ 816\\ 2537\\ 3764\\ 1663\\ 376\\ 8955\\ 887\\ 7846\\ 327\\ 2990\\ 839\\ 745\\ 512\\ 1918\\ 940\\ 459\\ 454\\ 1598\\ 872\\ 1141\\ 554\\ 1598\\ 872\\ 1141\\ 554\\ 1598\\ 872\\ 1141\\ 554\\ 1598\\ 872\\ 1141\\ 554\\ 1598\\ 872\\ 1141\\ 554\\ 1598\\ 872\\ 1141\\ 554\\ 1598\\ 872\\ 1141\\ 554\\ 1598\\ 872\\ 1141\\ 554\\ 1598\\ 872\\ 1141\\ 554\\ 1168\\ 2690\\ 321\\ 1455\\ 594\\ 417\\ 996\\ 1161\\ 1190\\ 1887\\ 1182 \end{array}$	$\begin{array}{c} 156\\ 63\\ 136\\ 291\\ 274\\ 355\\ 168\\ 382\\ 865\\ 1423\\ 622\\ 148\\ 2300(6)\\ 424\\ 2357\\ 156\\ 1179\\ 339\\ 425\\ 309\\ 842\\ 427\\ 308\\ 240\\ 642\\ 377\\ 479\\ 273\\ 308\\ 240\\ 642\\ 377\\ 479\\ 273\\ 409\\ 624\\ 1234\\ 177\\ 587\\ 317\\ 263\\ 310\\ 424\\ 528\\ 551\\ 414 \end{array}$	120 38 97 463 501 557 219 434 1672 2341 1041 228 6655(6) 463 5489 171 1811 500 320 203(3) 1076 513 151 214 956 495 662 281(3) 759 2104 1456 144 868 277 154 686 737 662 1336 768

Table 1 (cont'd)

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Fire brigades	Total fires	Total fires reported on Form K433 (1)	Total fires reported on Form K433H (2)
County Borough Fire Brigades (cont'd)			
Tees-side Tynemouth Wakefield Wallasey Walsall Warley Warrington West Bromwich Wigan Wolverhampton York	3281 620 342 1041 1260 910 534 955 587 1220 438	1427 196 150 309 460 406 192 397 239 522 223	1854 424 192 732 800 504 342 558 348 698 215
Total number of fires attended in England and Wales	280885	123610	157275

Fire brigades	Total fires	Total fires reported on Form K433 (1)	Total fires reported on Form K433H (2)
Scotland			
Glasgow Lanark Central Western South Western South Eastern Fife Perth and Kinross Angus North Eastern Northern	8146 4624 3424 2936 2309 6269 2610 695 2732 2236 950	3196 2156 1448 1411 1406 2833 1024 447 1079 1300 550	4950 2468 1976 1525 903 3436 1586 248 1653 936 400
Total number of fires attended in Scotland	36931 ·	16850	20081

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Table 1 (cont'd)

Fire brigades	Total fires	Total fires reported on Form K433 (1)	Total fires reported on Form K433H (2)
<u>Northern Ireland</u> (9) Northern Ireland F.A. Belfast	2890 1331	2790(3) 867(8)	100(10) 464(11)
Total number of fires attended in Northern Ireland	4221	3657	564

- (1) Fires reported on K433 include all fires except those confined to derelict buildings, buildings under demolition, grassland, heathland, railway embankments, stubble, single trees, refuse, fences, lamp standards, road furniture, road surfaces, verges and telegraph poles. The figures are adjusted for blank call numbers, duplicate call numbers and fires transferred by mutual agreement to category K433H (see note (2)).
- (2) Fires reported on K433H are small fires not reported on K433. Again adjustments are made for blanks and fires transferred to/from category K433.
- (3) Date of last report received 30.11.73
- (4) Date of last report received 30.9.73
- (5) Date of last report received 31.8.73
- (6) Date of last report received 31.10.73
- (7) Date of last report received 31.7.73
- (8) Date of last report received 30.6.73
- (9) It is possible that some fires attributable to civil disturbances were not attended and not reported to these brigades.
- (10) Date of last report received 28.2.73
- (11) Date of last report received 30.4.73

Table 2	
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	Engl	and and Wale	S		Scotland		Nor	thern Irelan	ıd.
Casualties	Fire brigade	Other casualties	Total	Fire brigade	Other casualties	Total	Fire brigade	Other casualties	Total
FATAL CASUALTIES ¹									
Burns and scalds Overcome by gas or smoke Other and undefined injuries	0 1 1	316 341 101	316 342 102	0 0 0	45 91 13	45 91 13	0 0 1	12 1 21	12 1 22
Total	2	758	760	0	149	149	1	34	35
NON FATAL CASUALTIES									
Burns and scalds Bruises, cuts, abrasions Dislocations, sprains, fractures Overcome by gas or smoke More than one of the above injuries Shock ²	114 170 41 153 31 3	2841 260 55 796 149 620	2955 430 96 949 180 623	19 25 5 12 0	272 28 10 165 19 65	291 53 15 177 19 66	2 6 2 4 0 0	63 8 4 14 4 25	65 14 6 18 4 25
Other and undefined injuries	123	209	332	10	43	53	ŏ	6	6
Total	635	4930	5565	72	602	674	14	124	138
TOTAL	637	5688	6325	72	751	823	15	158	173

Nature of injuries of casualties in fires

1. Casualties who are certified as having died from 'Burns and asphyxiation' are included under 'Overcome by gas or smoke'

2. Casualties who suffer shock in addition to another injury are classified according to the other injury ·

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Table	3A

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S	ex	and	age	of	fatal	casualties	

	England and Wales					Scotland				Northern	Ireland	
Age (years)	Male	Female	Not stated	Total	Maľe	Female	Not stated	Total	Male	Female	Not stated	Total
Under 1	10	7	0	17	3	1	0	4	0	0	0	0
1 - 4	34	37	0	71	15	9	0	24	1	1	0	2
5 - 14	23	16	0	39	6	1	0	7	1	0	0	1
15 – 24	36	13	0	49	5	· 3	0	8	5	1	0	6
25 - 34	49	17	0	66	4	5	0	9	6	0	0	6
35 - 44	42	21	0	63	2	_ 5	0] 7	1	1	0	2
45 - 54	39	26	0	65	13	11	0	24	0	1	0	1
55 – 64	30	36	0	66	12	17	0	29	1	2	0	3
65 - 74	53	63	0	116	10	3	0	13	4	5	0	9
75 and over	51	130	1	182	8	14	° O	22	4	1	0	5
Not stated, unknown	13	6	7	26	1	1	0	2	0	0	0	0

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		England and Wales Scotland Northern Ire					Ireland	reland				
Age (years)	Male	Female	Not stated	Total	Male	Female	Not stated	Total	Male	Female	Not stated	Tota
Under 1	37	18	0	55	4	2	0	6	2	1	0	3
1 - 4	160	130	0	290	24	17	0 -	41	6	0	0	6
5 - 14	296	147	0	443	26	22	0	48	3	3	0	6
15 – 24	603	289	0	892	60	25	0	85	19	5	0	24
25 – 34	804	313	0	1117	84	34	0	118	22	. 6	0	28
35 – 44	474	219	0	693	66	24	0	90	11	5	0	16
45 - 54	416	192	0	608	49 -	34	0	83	8	6	0	12
55 – 64	225	182	0	407	41	37	0	78	3	8	0	11
65 - 74	151	208	0	359	22	24	0	46	4	4	0	6
75 and over	107	195	2	304	17	28	0	45	1	3	0	
Not stated, unknown	296	88	13	397	19	15	0	34	10	4	4	18
TOTAL	3569	1981	15	5565	412	262	0	674	89	45	4	138

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$\mathtt{Sex} \cdot \mathtt{and}$ age of non-fatal casualties

Table 3B

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Month of occurrence	England and Wales	Scotland	Northern Ireland	United Kingdom
January	93	19	0	112
February	77	17	· 4	98
March	82	10	4	96
April	77	12	3	92
May	50	11	7	68
June .	65	7	9	81
July	35 -	20	2	57
August	. 29	9	1	39
September	44	8	1	53
October	50 ,	14	2	66
November	77	11	2	90
December	81	11	0	92
TOTAL	760	149	35	944

Fatal casualties according to month of occurrence

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Fatal casualties according to hazard in which fire started

Hazard in which fire started	England and Wales	Scotland	Northern Ireland	United Kingdom
In buildings				
Industrial premises Distributive trades	18 5	4 2	0 1	22 8
Financial, professional, scientific and miscellaneous services Medical services Hotels	10 12 6	0 0 13	1 . 0 0	11 12 19
Clubs, public houses and restaurants* Public administration and defence	6 6	2 1	0 0	8 7
Houses Flats Dwellings within other occupancies	416 150 6	40 70 2	12 0 . 0	468 220 8
Other private occupancies (eg sheds)	10	2	0	12
Other buildings	4	1	2.	7
Total	649	137	16	802
Not in buildings				
Agriculture, forestry, fishing	15	· 1	2	18
Road vehicles Other means of transport	41 27	7 3	16 0	64 30
Outdoor storage	7	1	0	8
Outdoor plant, machinery and equipment	4	0	0	4
Caravans	16	`o	1	17
Other	1	0	0	1
Total	111	12	19	142
TOTAL	760	149	35	944

*For comparability with Tables 7A, 7B, 7C, boarding houses are included in this category.

Source of ignition	England and Wales	Scotland	Northern Ireland	United Kingdom
Children with fire	41	11	0	52
Crash or collision	32	6	o	38
Malicious or intentional ignition, doubtful	34	13	12	59
Matches, naked lights not elsewhere specified	30	15	0	45
Smokers materials	137	33	1	171
Candle	14	0	0	14
Electric - space heating	68	12	1	81
- wire and cable	19	4	0	23
- blanket	14	9	0	23
- other	34	3	0	37
Gas - cooking appliances	10	3	0	13
- space heating	10	0	0	10
- other	0	0	0	0
Solid fuel – fire in grate	48	4	4	56
- other	2	0	0	2
Oil - space heating	32	0	0	32
- other	9	0	0	9
Other known causes	16	6	0	22
Unknown*	210	30	17	257
TOTAL	760	149	35	944

Fatal casualties according to source of ignition

*Includes fires reported as 'unknown, pending inquest'

Persons rescued or escaped by emergency means

Hazard	England and Wales	Scotland	Northern Ireland	United Kingdom
FIRES IN BUILDINGS*				
Rescue with fire brigade assistance Rescue without fire brigade assistance Escape by emergency means	1047 1715 580	285 210 107	15 73 28	1347 1998 715
Total	3342	[.] 602	116	4060
FIRES NOT IN BUILDINGS				
Rescue with fire brigade assistance from: Road vehicles Caravan Ship Other outdoor hazards	24 0 12 11	0 1 3 0	1 0 0, 0	25 1 15 11
Rescue without fire brigade assistance from: Road vehicles Caravans Ships Other outdoor hazards	77 12 21 11	25 2 1 3	6 4 3 0	108 18 25 14
Escape by emergency means from: Aircraft Road vehicles Caravans Ships Other outdoor hazards	5 48 14 15 21	2 10 0 3	0 0 1 0 0	7 58 15 15 24
Total	271	50	15	336
Total person's rescued or escaped	36.13	652	131	4396

*For fuller details of hazards and methods used, see Tables 7A, 7B, 7C

Table 7A

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Persons rescued or escaped by emergency means from buildings (England and Wales)

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				Haz	zard i	nvolved	1	
Appliance or methods used	Industry	Distributive trades	Hotels	Clubs, etc	Houses	Other dwellings	Other hazards	TOTAL
Rescue (fire brigade assisted) Snorkel, hydraulic platform Automatic escape lines Escape (hand operated) Ladder - extension - first floor - hook - turntable - other or undefined Oxyacetylene cutting gear Breathing apparatus Other apparatus Without apparatus	0 0 2 2 0 0 0 0 3 0 8	9 0 7 14 0 0 3 0 11 0 2	0 0 11 28 0 2 7 1 0 22 0 3	0 0 17 29 1 1 3 3 0 35 0 16	0 9 133 0 0 0 11 178 1 53	4 1 113 0 3 12 9 0 131 0 50	0 4 20 0 0 0 0 0 16 1 14	13 5 89 339 1 6 22 27 1 396 2 146
Total	15	46	74	105	386	364	57	1047
Rescue (not fire brigade assisted) Carried out or led to safety Jumping into sheet Ladder Lowered from window, roof, etc Other or undefined methods	1 0 1 0 1	· 3 1 2 0 5	5 0 5 0 13	18 0 26 0 19	727 2 220 54 251	192 0 15 3 77	34 0 8 0 32	980 3 277 57 398
Total	3	11	23	63	1254	287	74	1715
Escape by emergency means Climbing over roof, etc Fixed fire escape Jumping from upstairs windows,	0 0	3 0	, 0 2	0	50	0	0 0	8 2
roof, etc Sliding down drainpipe, sheets, rope, etc Through ground floor windows Other or undefined methods	4 0 0 6	3 0 0 4	8 1 2 12	18 8 6 15	187 21 18 130	43 7 16 33	3 0 0 25	266 37 42 225
Total	10	10	25	47	361	99	28	580
Total persons rescued or escaped	28	67	122	215	2001	7 50	159	3342

Table 7B

Persons rescued or escaped by emergency means from buildings (Scotland)

· · · · · · · · · · · · · · · · · · ·		Ha	.zard	l inv	olve	d.		
Appliance or methods used	Industrial premises	Distributive trades	Hotels	Clubs, etc	Houses	Other dwellings	Other hazards	TOTAL
Rescue (fire brigade assisted) Snorkel, hydraulic platform Automatic escape lines Escape (hand operated) Ladder - extension - turntable - other or undefined Breathing apparatus Other apparatus Without apparatus	0 0 0 0 0 0 0 0	0 2 1 0 21 0 3	0 0 3 18 0 7 0 2	0 0 0 0 0 0 0 1	1 0 1 0 12 0 4	0 14 1 40 39 1 86 2	0 0 0 0 0 5 0 0	- 14 60 39 1 131 2 31
Total	0	27	30	1	18	204	5	285
Rescue (not fire brigade assisted) Carried out or led to safety Jumping into sheet Ladder Lowered from window, roof, etc Other or undefined methods	0 0 0 3	3 0 0 0 0	0 1 0 0 11	0 0 0 0 0	53 1 8 5 11	81 2 1 1 28	1 0 0 0	138 4 9 6 53
Total	3	3	12	0	78	113	1	210
Escape by emergency means Climbing over roof Jumping from upstairs window, roof, etc	0	0 0	0	0 0	0 13	7 25	0	7
Sliding down drainpipe, sheets, rope, etc Through ground floor window Other or undefined methods	0 0 0	0 1 2	15 0 12	0	2 4 6	2 4 6	0 0 1	19 9 31
. Total	0	3	30	4	25	44	1	107
Total persons rescued or escaped	3	33	72	5	121	361	7	602

Table 7C

Persons rescued or escaped by emergency means from buildings (Northern Ireland)

		Ha	azaro	l inv	olve	đ		
Appliance or methods used	Industrial premises	Distributive trades	Hotels	Clubs, etc	Houses	Other dwellings	Other hazards	TOTAL
Rescue (fire brigade assisted) Escape (hand operated) Ladder - extension Breathing apparatus Without apparatus	0 0 0	0 0 0 1	0 6 0 0	0 0 0	1 0 3 3	0 0 0	0 1 0 0	1 7 3 4
Total	0	1	6	0.	7	0	1	15
Rescue (not fire brigade assisted) Carried out, led to safety Ladder Lowered from windows, roof, etc Other or undefined methods	0 0 0 0	0 [.] 0 0 0	0 0 0 0	0 0 0 0	47 7- 8 7	0 0 0 0	4 0 0 0	51 · 7 8 7
Total	0	0	0	0.	69	0	4	73
Escape by emergency means Jumping from upstairs window, roof, etc Ladder Through ground floor windows Other or undefined methods Total	0 0 0 0	0 0 0 0	0 0 0 0	0 0 6 6	13 1 1 7 22	0 0 0 0	0 0 0 0	13 1 1 13 28
Total persons rescued or escaped	0	1	6	6	98	0	5	116

(BIA estima (Great Brit		
Month	Loss (£M)	
January	12.8	
February	12.6	
March	16.5	
April	16.8	
May	14.3	
June	14.2	
July	18.4	
August	15.5	
September	12.5	
October	17.3	
November	16.4	
December	12.0	
TOTAL	179.3*	

Monthly estimated direct fire damage, 1973 (BIA estimates) (Great Britain)

*The total figure for United Kingdom (including Northern Ireland) £193.9M

Printed for Her Majesty's Stationery Office by Studio Trade Plates Ltd., Watford, WD1 8SA 6/74

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