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DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH

AND

FIRE OFFICES' COMMITTEE

JOINT FIRE RESEARCH ORGANIZATION

STATISTICAL ANALYSIS

OF

REPORTS OF FIRES ATTENDED BY

FIRE BRIGADES IN THE UNITED KINGDOM

DURING 1957

(Prepared by the Joint Fire Research Organization for the Home Office and the Scottish Home Department)

Lab. File. A.1.1(S).

February 1960

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PREFACE

Tables of statistics relating to fires attended by National and Local Authority Fire Services in the United Kingdom have been compiled annually since 1946. Summary tables have been published in the Annual Reports of the Joint Research Organization.

With the agreement of the Home Office, the Scottish Home Department and the Ministry of Home Affairs, Northern Ireland, the tables for 1957 contained in this volume are generally available to interested persons.

By arrangement with the Home Office, the Scottish Home Department, the Ministry of Home Affairs, Northern Ireland, and Local Authorities, a report is received on every fire attended by a Local Authority Fire Brigade in the United Kingdom. The tables are compiled from these reports. They do not give information on all the fires that occur, but they give an accurate assessment of all the fires to which Fire Brigades are called.

For this statistical analysis all reports received in 1957 have been used. For other years referred to in the Tables a sample of reports was used. The sampling factors were:- for 1953, 1:5; for 1954, 1:2; for 1955 and 1956, 1:4.

The tables are divided into four sections. The first section provides a summary of the United Kingdom figures for the years 1953 - 1957. More detailed statistical information for 1957 is given in Sections II, III, and IV for England and Wales, Scotland, and Northern Ireland respectively.

Where percentages are given these have been rounded up to the nearest tenth so that the sums of the constituents are not always equal to 100.

DEPARTMENT OF SCIENTIFIC AND INDUSTRIAL RESEARCH AND FIRE OFFICES' COMMITTEE
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Statistics of fires attended by Fire Brigades in the United Kingdom

INDEX

Section I: Fires attended by Fire Brigades in the United Kingdom 1953-1957

Table		Page
1	Hazard in which fire started	1
2A	Supposed causes of fires in buildings	2
2B	Supposed cauces of fires other than those in buildings	3
3A	Method of extinction of fires in buildings	4
3B	Method of extinction of fires other than those in buildings	5
4	Casualties in fires	6

Section II: Fires attended by Fire Brigades during 1957 in England and Wales

Table		
1	Method of calling Fire Brigades to fires	7
2	Hazard in which fire started	12
3	Hazard in which fire started classified according to Fire Brigade	16
4	Supposed cause of fires	20
5A	Supposed cause of fires in buildings in relation to hazard in which fire started	22
5B	Supposed cause of fires other than those in buildings in relation to hazard in which fire started	26
6	Material first ignited in fires	28
7A	Material first ignited in fires in buildings in relation to supposed cause	31
7B	Material first ignited in fires other than in buildings in relation to supposed cause	33
8	Method of extinction of fires	35
9	Behaviour of sprinkler systems at fires	36
10	Persons rescued or escaped by emergency means from fires	37
11	Nature of injuries of casualties in fires	38

Section III: Fires attended by Fire Brigades during 1957 in Scotland

Table		
1	Method of calling Fire Brigades to fires	39
2	Hazard in which fire started	40
3	Hazard in which fire started classified according to Fire Brigade	44
4	Supposed cause of fires	45
5A	Supposed cause of fires in buildings in relation to hazard in which fire started	47
5B	Supposed cause of fires other than those in buildings in relation to hazard in which fire started	52
6	Material first ignited in fires	54
7A	Material first ignited in fires in buildings in relation to the supposed cause	57
7B	Material first ignited in fires other than those in buildings in relation to the supposed cause	59
8	Method of extinction of fires	61
9	Behaviour of sprinkler systems at fires	62
10	Persons rescued or escaped by emergency means from fires	63
11	Nature of injuries of casualties in fires	64

SECTION IV: Fires attended by Fire Brigades during 1957 in Northern Ireland

Table		
1	Method of calling Fire Brigades to fires	65
2	Hazard in which fire started	66
3	Hazard in which fire started classified according to Fire Brigade	70
4	Supposed cause of fires	71
5A	Supposed cause of fires in buildings in relation in relatioh to hazard which fire started	73
5B	Supposed cause of fires other than those in buildings to hazard in which fire started	77
6	Material first ignited in fires	80
7A	Material first ignited in fires in buildings in relation to the supposed cause	83
7B	Material first ignited in fires other than those in buildings in relation to the supposed cause	85
8	Method of extinction of fires	87
9	Behaviour of sprinkler systems at fires	88
10	Persons rescued or escaped by emergency means from fires	88
11	Nature of injuries of casualties in fires	89

SECTION I

Table 1

HAZARD IN WHICH FIRE STARTED

Reports from Fire Brigades in the United Kingdom, 1953-1957

Hazard in which fire started	No. of fires				
	1953	1954	1955	1956	1957
Fires in buildings					
Industrial and agricultural premises	8,080	8,290	9,408	9,564	9,507
Gas, water, electricity and sewage undertakings	215	212	192	228	204
Transport and communications	1,635	1,722	2,148	1,940	1,966
Commercial premises	3,470	3,508	3,872	3,808	3,834
Offices, Government and other	505	596	636	568	542
Navy, Army, Air Force and Fire Service establishments	330	442	432	440	426
Professional establishments, public institutions	1,475	1,740	1,816	1,916	1,906
Places of public entertainment	610	532	616	748	753
Private residential houses and flats	21,240	22,808	23,520	24,458	22,767
Clubs, hotels, restaurants, public houses	2,765	2,516	2,888	2,560	2,813
Other buildings	3,550	3,604	4,964	5,224	5,976
TOTAL FIRES IN BUILDINGS	43,875	45,970	50,492	51,464	50,694
Fires other than those in buildings					
Crops, standing or stooked, ricks, stacks, etc.	2,425	1,808	3,596	1,484	1,974
Grassland, heathland, railway embankments	17,285	14,940	35,636	38,680	34,160
Woods, forests, plantations	870	432	724	1,352	1,703
Other hazards of agriculture and forestry	3,440	2,862	5,572	5,256	5,011
Aircraft	90	142	100	116	83
Railway rolling stock, etc.	505	346	616	452	530
Road vehicles	6,760	6,602	7,920	7,792	7,551
Ships and river craft; marine structures	530	552	652	712	658
Refuse	4,755	4,600	7,340	7,096	7,913
Outdoor storage	2,155	2,078	3,620	3,584	3,739
Other fires	4,310	4,168	5,504	5,180	5,268
TOTAL FIRES OTHER THAN THOSE IN BUILDINGS	43,125	38,530	71,280	71,704	68,590
TOTAL FIRES ATTENDED	87,000	84,500	121,772	123,168	119,284

SECTION I

Table 2A

SUPPOSED CAUSES OF FIRES IN BUILDINGS

Reports from Fire Brigades in the United Kingdom, 1953-1957

Supposed cause of fire	No. of fires				
	1953	1954	1955	1956	1957
Ashes, soot	930	822	1,088	984	952
Brazier	90	100	68	152	72
Campfire, fire in open air(1)	...	...	12	12	5
Candle	340	364	308	380	323
Chimney on fire, not confined to chimney	2,610	3,168	3,164	3,148	2,689
Chimney, sparks from (outside building)	530	400	416	456	387
Cooker, cooking range, oven, other than electric, coal gas or oil.(1)	420	408	380	352	457
Electric cooker	930	924	976	1,184	1,335
fire, heater, radiator	1,045	1,190	1,416	1,288	1,090
iron	365	376	364	272	305
motor	295	256	268	324	322
refrigerator	1,025	916	880	752	800
wire and cable	2,825	2,630	2,536	2,416	2,043
wireless, television	560	592	540	604	680
other apparatus	970	1,298	1,772	1,792	2,030
Explosives, fireworks	190	280	272	268	292
Fire in grate igniting -					
bedding, clothing, linen	1,035	1,178	1,064	1,124	937
furniture and furnishings	930	1,060	1,116	1,052	839
structural timber under hearth	740	2,712	2,472	2,084	1,422
other materials	4,085	2,752	2,724	2,728	2,169
Fish frying range (all fuels)	1,020	864	936	924	960
Flue	1,120	1,148	956	948	747
Furnace (coal or coke)	50	68	64	64	44
Gas (coal) burner, jet, ring	575	524	400	376	304
cooker	1,230	1,266	1,360	1,552	1,589
fire, heater, radiator	160	286	304	264	209
other apparatus	395	608	640	684	518
Incubator, brooder (all fuels)	650	582	720	764	576
Intentional burning of grassland, gorse, etc.	10	24	28	72	20
Lighting	145	60	104	132	249
Lime	5	16	-	12	6
Locomotives, sparks from	215	242	336	264	290
Malicious ignition, (1) (2)	155	228	244	312	357
Matches	760	770	924	844	681
Matches, children with(5)	2,130	2,254	3,192	3,464	4,675
Mechanical heat or sparks	555	500	588	616	590
Metal, hot	185	240	212	148	179
Naked light(1) (3)	645	484	584	504	599
Oil blow lamp	890	1,058	1,036	1,204	845
engine (including petrol)	285	200	256	248	181
lamp, stove	725	1,034	1,224	1,844	1,948
tractor	95	102	80	76	90
other apparatus	170	236	200	308	261
Oxyacetylene cutting and welding apparatus	345	366	336	384	389
Rubbish burning	675	682	872	848	980
Slow combustion stove igniting					
structural woodwork	300	376	400	408	297
other materials	935	996	1,032	1,096	1,005
Smoking materials	3,640	3,714	4,412	4,440	4,971
Spontaneous combustion	150	192	364	160	308
Static electricity	35	34	36	20	11
Steam roller, engine, traction engine	10	4	-	-	1
Sun's rays	80	22	120	36	109
Taper, lighted paper or sticks	360	330	380	296	269
Taper, lighted paper or sticks, children with(5)	85	128	156	148	212
Miscellaneous(4)	790	724	1,012	896	860
Unknown source of ignition	4,385	4,182	5,148	5,736	6,215
TOTAL FIRES IN BUILDINGS	43,875	45,970	50,492	51,464	50,694

Notes (1) Causes specified for the first time in the Annual Statistical Tables for 1954.
(2) Malicious ignition is a general heading for suspected or proven arson or incendiarism.
(3) No further information given in original reports.
(4) Not comparable with the miscellaneous category in Annual Statistical Tables for the years prior to 1954.
(5) A change in definition has increased the number of incidents in these categories in 1957.

Table 2B

SUPPOSED CAUSES OF FIRES OTHER THAN THOSE IN BUILDINGS

Reports from Fire Brigades, in the United Kingdom, 1953-1957

Supposed cause of fire	No. of fires				
	1953	1954	1955	1956	1957
Aircraft, crashed	85	132	80	92	63
Ashes, soot	1,240	1,280	1,872	1,728	1,719
Brazier	120	148	168	196	128
Camp fire, fire in open air(1)	...	226	360	240	149
Candle	10	8	20	16	13
Chimney on fire not confined to chimney	-	-	4	12	8
Chimney, sparks from (outside building)	85	76	112	88	79
Cooker, cooking range, oven, other than electric coal gas or oil(1)	25	12	16	16	22
Electric motor	65	50	36	32	54
wire and cable	2,885	2,966	2,724	2,812	2,447
other apparatus	625	532	1,056	1,120	1,087
Explosives, fireworks	410	506	708	620	530
Fish frying range (all fuels)	20	22	20	16	15
Flue	90	142	116	164	157
Furnace (coal or coke)	-	4	4	4	1
Gas (coal) apparatus	370	412	512	392	339
Incubator, brooder (all fuels)	20	26	20	16	16
Intentional burning of grassland, gorse, etc.	640	400	824	1,068	477
Lightning	35	60	52	48	113
Lime	60	28	12	20	30
Locomotives, sparks from	5,635	5,070	13,340	9,688	17,138
Malicious ignition(1) (2)	80	90	108	124	123
Matches	850	600	1,256	1,456	583
Matches, children with(5)	8,440	8,088	15,368	18,220	14,050
Mechanical heat or sparks	400	458	604	516	581
Metal, hot	50	54	96	56	95
Naked light(1) (3)	855	508	1,252	1,376	1,161
Oil blow lamp	30	66	48	60	41
engine (including petrol)	2,420	2,150	2,784	2,432	2,358
lamp, stove	230	178	288	296	282
tractor	420	278	440	292	288
other apparatus	205	150	312	184	221
Oxyacetylene cutting and welding apparatus	360	352	432	476	439
Rubbish burning	3,640	3,214	6,940	6,420	5,503
Slow combustion stove	390	322	332	448	326
Smoking materials	4,255	3,238	7,060	6,508	6,757
Spontaneous combustion in rubbish	105	146	220	112	131
other materials	335	366	660	196	429
Static electricity	-	4	8	-	-
Steam roller engine, traction engine	5	12	24	16	3
Sun's rays	100	38	296	104	353
Taper, lighted paper or sticks	100	150	176	184	129
Taper, lighted paper or sticks, children with (5)	40	18	52	84	107
Miscellaneous(4)	570	300	336	372	333
Unknown source of ignition	6,825	5,650	10,132	13,384	9,712
TOTAL FIRES OTHER THAN THOSE IN BUILDINGS	43,125	38,530	71,280	71,704	68,590

Notes (1) Causes specified for the first time in the Annual Statistical Tables for 1954.
(2) Malicious ignition is a general heading for suspected or proven arson or incendiarism.
(3) No further information given in original reports.
(4) Not comparable with the miscellaneous category in Annual Statistical Tables for the years prior to 1954.
(5) A change in definition has increased the number of incidents in these categories in 1957.

SECTION I

Table 3A

METHOD OF EXTINCTION OF FIRES IN BUILDINGS

Reports from Fire Brigades in the United Kingdom, 1953-1957

	Method of extinction	Extinguished before arrival of Fire Brigade					Extinguished by Fire Brigade					Total				
		1953	1954	1955	1956	1957	1953	1954	1955	1956	1957	1953	1954	1955	1956	1957
1	Burned out	815	904	844	880	1,032	-	-	-	-	-	815	904	844	880	1,032
2	Removal	1,210	1,278	1,100	1,268	1,287	3,315	3,616	3,008	2,864	3,040	4,525	4,894	4,108	4,132	4,327
3	Automatic sprinkler system	25	42	60	48	51	-	-	-	-	-	25	42	60	48	51
4	Beating	170	240	316	204	234	50	54	64	68	68	220	294	380	272	302
5	Smothering	690	830	952	1,076	773	315	298	388	328	298	1,005	1,128	1,340	1,404	1,071
6	Sand, earth, etc.	175	130	188	140	169	55	38	44	80	63	230	168	232	220	232
7	Water from buckets	2,910	3,022	3,368	3,668	3,428	2,560	2,692	2,636	2,656	2,118	5,470	5,714	6,004	6,324	5,546
8	Water from stirrup or hand pumps	30	50	48	40	41	4,055	4,446	4,408	4,216	3,472	4,085	4,496	4,456	4,256	3,513
9	Chemicals and chemical extinguishers	1,125	1,216	1,148	1,232	1,269	2,000	1,862	1,916	1,856	1,838	3,125	3,078	3,064	3,088	3,107
10	Two or more methods 4 - 9	350	374	436	384	352	95	150	248	156	198	445	524	684	540	550
11	Water from garden hose	115	170	216	224	248	-	-	-	-	-	115	170	216	224	248
12	Hose reel jets (using water in tank only)	20	48	40	52	54	14,625	15,696	18,568	19,788	20,218	14,645	15,744	18,608	19,840	20,272
13	Hose reel jets (using more water than that in tank)	5	8	-	4	9	2,470	2,164	2,552	2,236	2,258	2,475	2,172	2,552	2,240	2,267
14	Jets from inside hose reel or inside hydrant	45	60	60	112	93	135	102	100	108	124	180	162	160	220	217
15	Hose reel jets and jets from inside hose reel or inside hydrant	-	2	-	-	-	35	8	28	36	20	35	10	28	36	20
16	Jets from pumps and hydrants	120	104	96	92	89	5,490	5,528	6,536	6,464	6,765	5,610	5,632	6,632	6,556	6,854
17	Other and undefined methods	455	450	616	656	616	415	388	508	528	469	870	838	1,124	1,184	1,085
18	TOTAL FIRES IN BUILDINGS	6,260	8,928	9,488	10,080	9,745	35,615	37,042	41,004	41,384	40,949	43,875	45,970	50,492	51,464	50,694

Notes on methods of extinction

1. "Removal" includes occurrences where (a) burning material was removed from the building (b) gas supply was turned off. If the burning material was tackled with methods 3-11 before removing it from the building, then such occurrences were classified under whichever of these methods applied.

2. Methods 11-15 and method 16 include those occurrences in which methods 3-10 and 3-15 respectively may also have been used.

3. "Fires extinguished by the Fire Brigade" include those fires which were tackled but not extinguished before the arrival of the Fire Brigade.

SECTION I

Table 3B

METHOD OF EXTINCTION OF FIRES OTHER THAN THOSE IN BUILDINGS

Reports from Fire Brigades in the United Kingdom, 1953-1957

	Method of extinction	Extinguished before arrival of Fire Brigade					Extinguished by Fire Brigade					Total				
		1953	1954	1955	1956	1957	1953*	1954	1955	1956	1957	1953*	1954	1955	1956	1957
1	Burned out	1,065	1,276	1,572	1,720	1,672	-	-	-	-	-	1,065	1,276	1,572	1,720	1,672
2	Removal	355	394	508	416	387	720	732	728	664	697	1,075	1,126	1,236	1,080	1,084
3	Automatic sprinkler system	-	2	-	-	-	-	-	-	-	-	-	2	-	-	-
4	Beating	925	784	1,432	1,440	1,090	7,345	6,468	11,540	15,456	11,112	8,270	7,252	12,972	16,896	12,202
5	Smothering	400	366	428	428	415	45	60	56	52	63	445	426	484	480	478
6	Sand, earth, etc.	275	270	312	276	265	150	174	188	192	121	425	444	500	468	386
7	Water from buckets	865	750	1,160	1,136	1,110	345	428	620	616	636	1,210	1,178	1,780	1,752	1,746
8	Water from stirrup or hand pumps	10	10	12	16	5	255	190	340	348	322	265	200	352	364	327
9	Chemicals and chemical extinguishers	995	1,036	1,276	1,176	1,029	1,700	1,638	2,108	1,872	1,796	2,695	2,674	3,384	3,048	2,825
10	Two or more methods 4 - 9	285	236	316	260	278	485	326	880	1,020	949	770	562	1,196	1,280	1,227
11	Water from garden hose	70	58	120	96	136	-	-	-	-	-	70	58	120	96	136
12	Hose reel jets (using water in tank only)	125	150	200	380	304	16,700	15,444	31,552	32,120	33,074	16,825	15,594	31,752	32,500	33,378
13	Hose reel jets (using more water than that in tank)	5	6	8	-	8	1,495	1,202	2,896	2,076	2,353	1,500	1,208	2,904	2,076	2,361
14	Jets from pumps and hydrants	150	120	232	200	242	7,855	6,008	12,244	9,288	10,104	8,005	6,128	12,476	9,488	10,346
15	Other and undefined methods	335	258	356	316	283	170	144	196	140	139	505	402	552	456	422
16	TOTAL FIRES OTHER THAN THOSE IN BUILDINGS	5,860	5,716	7,932	7,860	7,224	37,265	32,814	63,348	63,844	61,366	43,125	38,530	71,280	71,704	68,590

Notes on methods of extinction

1. Methods 10-12 and method 13 include those occurrences in which methods 3-9 and 3-12 respectively may also have been used.

2. "Fires extinguished by the Fire Brigade" include those fires which were tackled but not extinguished before the arrival of the Fire Brigade.

* Revised figures.

SECTION I

Table 4

CASUALTIES IN FIRES

Reports from Fire Brigades in the United Kingdom, 1953-1957*

Casualties	England and Wales					Scotland					Northern Ireland					United Kingdom				
	1953	1954	1955	1956	1957	1953	1954	1955	1956	1957	1953	1954	1955	1956	1957	1953	1954	1955	1956	1957
Fatal casualties																				
Fire Brigade	3	3	2	2	5	-	-	-	-	-	-	-	-	-	-	3	3	2	2	5
Other casualties	377	423	574	461	439	46	67	50	61	54	37	2	7	5	9	460	492	631	527	502
Total	380	426	576	463	444	46	67	50	61	54	37	2	7	5	9	463	495	633	529	507
Non-fatal casualties **																				
Fire Brigade	1,126	584	347	342	328	78	40	60	25	22	33	7	10	7	8	1,237	631	417	374	358
Other casualties	3,582	3,454	3,065	2,928	2,627	248	210	218	195	166	58	27	44	47	28	3,888	3,691	3,327	3,170	2,821
Total	4,708	4,038	3,412	3,270	2,955	326	250	278	220	188	91	34	54	54	36	5,125	4,322	3,744	3,544	3,179
Total casualties	5,088	4,464	3,988	3,733	3,399	372	317	328	281	242	128	36	61	59	45	5,588	4,817	4,377	4,073	3,686

* The number of fatalities is less than the number of deaths recorded by the Registrar General as being due to conflagration and accidental burns and scalds because although the Fire Brigades most probably attend all occurrences where persons are burnt to death by being trapped in burning buildings, etc., they only attend a proportion of the much larger number of incidents where deaths due to accidental burns and scalds occur.

** Change in reporting procedure excludes casualties requiring first-aid treatment only in 1954 and subsequent years.

SECTION II

STATISTICAL TABLES FOR FIRE BRIGADES IN ENGLAND AND WALES, 1957

Table 1

METHOD OF CALLING FIRE BRIGADES TO FIRES

Reports from England and Wales, 1957

Method of Calling	County Fire Brigades																												
	Anglesey	Bedfordshire	Berkshire and Reading C.B.	Breconshire and Radnorshire	Buckinghamshire	Caernarvonshire	Cambridgeshire	Cardiganshire and Carmarthenshire	Cheshire	Cornwall	Cumberland	Denbighshire and Montgomeryshire	Derbyshire	Devonshire	Dorsetshire	Durham	Ely, Isle of	Essex	Flintshire	Glamorganshire	Gloucestershire	Hampshire	Herefordshire	Hertfordshire	Huntingdonshire	Kent and Canterbury	Lancashire	Leicestershire and Rutland	Lincolnshire, Holland	Lincolnshire, Kesteven	Lincolnshire, Lindsey
By Special Fire Service methods																													
Automatic fire alarm	-	-	1	-	3	-	1	-	-	-	-	-	-	-	-	1	-	2	-	1	1	-	-	7	-	-	4	1	-	-	-
Fire and police pillar box	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	3	-	-	-	28
Police telephone	-	60	50	-	29	2	32	25	24	-	4	-	36	2	26	1	-	42	-	10	1	8	8	81	7	48	22	44	11	5	2
Private fire telephone	1	10	16	-	7	-	1	4	88	6	-	-	10	-	7	62	-	70	-	33	-	13	-	22	1	71	104	-	2	-	1
Street fire alarm	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	79	-	-	1	-	-	-	-	-	-	-	-	-	-
Total	1	70	68	-	39	2	34	29	112	6	4	1	46	2	33	64	-	193	-	44	3	21	8	111	8	120	133	45	13	5	31
Exchange telephone	60	603	921	99	1006	183	304	336	1784	479	256	452	1338	778	484	1385	185	4197	296	1175	736	1915	297	1766	184	4190	4000	476	158	190	451
Running call	7	56	40	9	59	24	28	27	146	28	43	43	99	41	46	173	11	250	23	102	46	62	13	124	21	211	361	55	16	13	29
Late call	3	48	38	1	12	15	6	14	25	6	13	21	94	17	16	38	2	132	9	67	14	296	4	37	9	163	95	2	3	5	10
Other and undefined methods	-	13	14	3	14	5	1	2	10	3	41	1	15	1	372	25	-	56	12	11	10	10	4	17	1	50	46	13	1	3	11
Total fires attended	71	790	1081	112	1130	229	373	408	2077	522	357	518	1592	839	951	1685	198	4828	340	1399	809	2304	326	2055	223	4734	4635	591	191	216	532

SECTION II

Table 1 (contd.)

METHOD OF CALLING FIRE BRIGADES TO FIRES

Reports from England and Wales, 1957

Method of Calling	County Fire Brigades (Contd.)																								
	London	Merioneth	Middlesex	Monmouthshire	Norfolk	Northamptonshire	Northumberland	Nottinghamshire	Oxfordshire	Pembrokeshire	Peterborough, Soke of	Salop	Scilly, Isles of	Somersetshire	Staffordshire	Suffolk and Ipswich C.B.	Surrey	Sussex, East	Sussex, West	Warwickshire	Westmorland	Wight, Isle of	Wiltshire	Worcestershire and Worcester C.B.	Yorkshire East Riding	Yorkshire North Riding	Yorkshire West Riding
By Special Fire Service methods																										
Automatic fire alarm	8	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	5
Fire and police pillar box	-	-	-	-	-	-	-	1	-	-	-	-	-	-	3	2	-	1	-	-	-	-	1	1	-	8
Police telephone	11	-	13	2	-	20	27	3	4	-	15	24	-	22	143	57	14	26	15	37	12	-	17	20	10	24	77
Private fire telephone	109	-	97	4	-	-	3	6	1	-	-	21	-	1	7	3	26	1	2	21	-	-	-	8	-	112	12
Street fire alarm	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	143	-	110	6	-	21	30	11	5	-	15	45	-	23	153	62	40	28	17	59	12	-	17	29	11	136	102
Exchange telephone	9290	74	4934	463	627	439	621	1180	308	137	132	608	-	728	1834	998	3644	861	640	1363	76	200	677	1040	284	561	2715
Running call	559	4	219	39	51	49	50	62	24	5	8	72	-	34	190	73	125	31	32	81	9	10	41	75	21	38	246
Late call	232	1	331	13	3	10	3	27	8	8	15	38	-	8	34	9	121	12	19	55	1	5	129	24	4	28	71
Other and undefined methods	87	-	-	2	6	1	20	4	2	1	2	8	-	10	6	15	8	7	9	19	33	1	10	14	3	16	16
Total fires attended	10311	79	5594	523	687	520	724	1284	347	151	172	771	-	803	2217	1157	3938	939	717	1577	131	216	874	1182	323	779	3150

SECTION II

Table 1 (Contd.)

METHOD OF CALLING FIRE BRIGADES TO FIRES

Reports from England and Wales, 1957

Method of Calling	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	Croydon	Darlington	Derby	Dewsbury	Doncaster	Dudley	Eastbourne
By Special Fire Service methods																											
Automatic fire alarm	-	-	-	-	1	-	-	-	-	-	6	-	4	-	-	-	-	-	-	-	-	1	1	-	-	-	-
Fire and police pillar box	2	-	11	9	-	43	32	31	29	-	-	-	11	14	-	2	62	7	-	-	-	-	7	3	1	15	-
Police telephone	19	24	15	66	205	33	12	8	22	8	96	60	142	7	-	11	77	22	21	38	13	15	31	23	23	15	-
Private fire telephone	-	3	1	16	62	2	17	13	23	-	-	6	18	5	7	1	1	2	6	1	2	6	4	-	-	-	2
Street fire alarm	-	-	-	-	149	-	-	-	-	-	-	7	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
Total	21	27	27	91	417	78	61	52	74	8	102	73	175	26	7	14	142	31	27	39	15	22	43	26	24	30	2
Exchange telephone	161	105	152	382	2247	161	347	252	149	340	472	258	873	198	87	136	452	126	191	590	443	156	366	150	144	129	84
Running call	15	6	12	54	217	8	22	5	46	17	23	11	55	11	8	21	36	11	18	55	15	18	36	20	6	14	8
Late call	1	-	6	27	67	18	18	8	28	3	31	15	64	11	8	1	2	6	4	1	47	1	6	7	2	9	5
Other and undefined methods	1	1	6	22	14	1	8	9	1	5	3	1	5	3	-	4	8	6	5	3	5	5	13	3	8	4	8
Total fires attended	199	139	203	578	2962	266	456	326	298	373	631	358	1172	249	110	176	640	180	245	688	525	202	464	206	184	186	107

SECTION II

Table 1 (Contd.)

METHOD OF CALLING FIRE BRIGADES TO FIRES

Reports from England and Wales, 1957

Method of Calling	County Borough Fire Brigades (Contd.)																								
	East Ham	Exeter	Gloucester	Great Yarmouth	Grimsby	Halifax	Hastings	Huddersfield	Kingston upon Hull	Leeds	Leicester	Lincoln	Liverpool	Manchester	Merthyr Tydfil	Middlesborough	Newcastle upon Tyne and Gateshead	Newport (Mon.)	Northampton	Norwich	Nottingham	Oldham	Oxford	Plymouth	Portsmouth	Preston	Rochdale
By Special Fire Service methods																											
Automatic fire alarm	-	-	-	-	-	+	-	-	3	1	3	-	3	3	-	1	-	-	-	1	-	-	-	-	-	-	
Fire and police pillar box	-	3	-	1	-	3	-	4	-	-	-	-	-	1	-	-	81	-	-	11	-	6	-	-	1	-	17
Public telephone	1	35	1	16	56	17	3	36	127	163	76	28	161	262	13	82	89	94	38	27	84	47	19	44	42	-	24
Private fire telephone	2	-	2	-	2	3	-	-	1	5	9	-	63	21	2	-	4	1	2	2	29	3	-	29	38	-	3
Street fire alarm	3	-	-	-	-	-	-	-	8	-	-	-	248	98	-	20	-	-	-	+	-	-	-	-	-	-	-
Total	6	38	3	17	58	24	3	40	139	169	88	28	475	385	15	103	174	95	40	42	114	56	19	73	81	-	44
Exchange telephone	213	144	166	98	145	158	112	201	505	881	575	132	1457	1195	58	198	512	215	146	244	535	227	150	311	354	254	195
Running Call	10	9	8	11	15	8	4	6	24	39	21	13	172	161	13	12	42	34	13	7	36	13	14	19	33	16	4
Late call	14	5	4	1	-	5	5	4	20	27	4	-	116	158	1	28	4	8	-	8	15	11	7	3	9	7	6
Other and undefined methods	-	3	3	3	1	1	28	-	4	1	8	-	5	7	1	4	1	2	2	2	7	1	1	3	-	4	4
Total fires attended	243	199	184	130	219	196	152	251	692	1117	696	173	2225	1906	88	345	733	354	201	303	707	308	191	409	477	281	253

SECTION II

Table 1 (Contd.)

METHOD OF CALLING FIRE BRIGADE TO FIRES

Reports from England and Wales, 1957

Method of Calling	County Borough Fire Brigades (Contd.)																						Total fires attended in England and Wales	
	Rotherham	St. Helens	Salford	Sheffield	Smethwick and West Bromwich	Southampton	Southend	Southport	South Shields	Stockport	Stoke on Trent	Sunderland	Swansea	Tynemouth	Wakefield	Wallasey	Walsall	Warrington	West Ham	West Hartlepool	Wigan	Wolverhampton	York	No.	Per Cent
By Special Fire Service methods																								
Automatic Fire alarm	-	-	-	3	1	-	-	-	1	1	-	1	-	-	-	-	-	-	-	-	-	-	1	76	0.1
Fire and police pillar box	4	8	-	84	3	-	-	4	2	12	-	-	-	-	7	9	34	-	-	12	6	12	-	655	0.6
Police telephone	32	16	65	25	40	-	12	12	39	26	32	90	41	31	24	32	32	29	14	19	14	47	36	4472	4.1
Private fire telephone	1	-	14	1	2	24	6	-	-	3	3	-	1	30	-	2	1	-	12	-	3	2	1	1488	1.4
Street fire alarm	-	-	-	-	11	1	-	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	650	0.6
Total	37	24	79	113	57	25	18	16	42	42	35	91	42	61	31	43	67	29	32	31	23	61	38	7341	6.8
Exchange telephone	133	153	209	644	330	502	240	153	172	244	355	375	216	98	91	222	208	150	518	169	130	283	167	89412	82.7
Running call	11	17	15	50	40	25	20	8	10	31	39	33	14	12	3	14	13	27	46	53	7	17	7	6391	5.9
Late call	4	7	37	23	14	3	13	15	3	6	14	1	13	-	3	12	24	7	25	-	-	5	1	3520	3.3
Other and undefined methods	1	1	15	2	1	49	5	2	1	10	6	3	1	1	4	5	9	-	-	2	7	12	-	1450	1.3
Total fires attended	186	202	355	832	442	604	296	194	228	333	449	503	286	172	132	296	321	213	621	255	167	378	213	108114	100.0

SECTION II

Table 2

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED

Reports from England and Wales, 1957

Hazard in which fire started	Total	
	No.	Per cent
Fires in buildings classified according to trade or business carried on		
Agriculture		
Farming (not fruit or poultry) and horse and stock rearing	1,936	1.8
Allotments, market gardening, fruit and poultry farming	465	0.4
Total	2,401	2.2
Mining, quarrying and treatment of non-metalliferous mine and quarry products (excluding gas works)	138	0.1
Manufacture of bricks, pottery, glass, etc.	110	0.1
Manufacture of chemicals, dyes, explosives, paints, oils		
Chemicals	182	0.2
Explosives	14	-
Paints, varnish, oils, grease	134	0.1
Miscellaneous	55	0.1
Total	385	0.4
Manufacture of metals, machines, implements, conveyances		
Smelting, converting, refining, rolling of iron, steel	77	0.1
Extracting, refining, smelting of other metals	54	-
Founding, other secondary processes in metal working	258	0.2
Engineering (not marine or electrical)	308	0.3
Electrical installations, cables and apparatus	204	0.2
Construction and repair of vehicles	229	0.2
Shipbuilding and repairing, marine engineering	54	-
Cutlery and small tools	45	-
Other metal industries	335	0.3
Total	1,564	1.4
Manufacture of textiles and textile goods (not dress)		
Cotton	248	0.2
Wool, worsted and shoddy	106	0.1
Silk, natural and artificial	12	-
Other or mixed fibres	50	-
Miscellaneous	107	0.1
Textile dyeing, printing, bleaching, finishing	50	-
Total	573	0.5

SECTION II

Table 2 (Contd.)

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED

Reports from England and Wales, 1957

Hazard in which fire started	Total	
	No.	Per cent
Fires in buildings classified according to trade or business carried on (contd.)		
Preparation of skins and leather and manufacture of goods of leather and leather substitute (not clothing or footwear)	60	0.1
Manufacture of clothing (not knitted) including footwear	257	0.2
Manufacture of food, drink, tobacco		
Food	390	0.4
Drink	57	0.1
Tobacco, cigars, cigarettes, snuff	6	-
Total	453	0.4
Woodworking, manufacture of cane and basket ware, furniture, fittings		
Woodworking and basket ware	272	0.3
Furniture (not metal or basket)	208	0.2
Fittings	21	-
Total	501	0.5
Paper making, manufacture of stationery and stationery requisites, printing and bookbinding	214	0.2
Building, decorating, contracting: slate and stone cutting and dressing	1,350	1.2
Rubber and synthetic rubber	119	0.1
Other manufacturing industries	191	0.2
Gas, water, electricity, sewage	171	0.2
Transport and communication		
Railway - stations etc.	404	0.4
Road - garages, depots, etc.	1,145	1.1
Water - dock buildings other than warehouses	59	0.1
Air, aerodromes, etc.	14	-
Other communication (post, telephone, wireless)	100	0.1
Total	1,722	1.6

SECTION II

Table 2 (Contd.)

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED

Reports from England and Wales, 1957

Hazard in which fire started	Total	
	No.	Per cent
Fires in buildings classified according to trade or business carried on (contd.)		
Commerce		
Departmental stores	109	0.1
Retail shops	2,627	2.4
Wholesale dealers	489	0.5
Dock and other warehouses	57	0.1
Total	3,282	3.0
Offices, Government and other		
Government departments	57	0.1
Local authorities	99	0.1
Other offices	304	0.3
Total	460	0.4
Navy, Army and Air Force establishments	373	0.3
Fire Service establishments	18	-
Professional establishments (other than offices); public institutions		
Educational establishments	675	0.6
Hospitals, homes, etc. for the care of the sick and infirm	478	0.4
Places of worship	194	0.2
Other public and professional services	343	0.3
Total	1,690	1.6
Places of public entertainment		
Cinemas and theatres	203	0.2
Other places of entertainment	464	0.4
Total	667	0.6
Private residential and personal service (including hotels and catering)		
Private residential houses	15,854	14.7
Private residential flats and maisonettes	3,727	3.4
Clubs, hotels, restaurants, public houses	2,527	2.3
Private huts, unoccupied houses, personal service	007	1.9
Total	24,115	22.3
Miscellaneous	2,988	2.8
Undefined	20	-
Total fires in buildings	43,822	40.5

SECTION II

Table 2 (Contd.)

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED

Reports from England and Wales, 1957

Hazard in which fire started	Total	
	No.	Per cent
Fires other than those in buildings		
Agriculture and Forestry		
Crops, standing or stooked (including hay fields)	392	0.4
Crops, ricks and stacks	1,302	1.2
Agricultural machinery	428	0.4
Agricultural waste	287	0.3
Other agricultural hazards	336	0.3
Allotments and gardens	1,435	1.3
Railway embankments	12,447	11.5
Grassland, heathland	20,100	18.6
Woods, forests, plantations	1,599	1.5
Single trees	2,102	1.9
Felled timber	168	0.2
Total	40,596	37.6
Transport and communication		
Aircraft	77	0.1
Railway, rolling stock etc.	457	0.4
Road vehicles - electrically driven	93	0.1
- oil, petrol or gas driven	6,763	6.3
- other	73	0.1
Water vessels - craft on inland waters	124	0.1
- ships in dock	364	0.3
- ships at sea	1	-
- marine structures	54	-
Total	8,006	7.4
Outdoor storage		
Chemicals, explosives, ammunition, oils grease	496	0.5
Coal and coke	98	0.1
Refuse	7,605	7.0
Timber	1,514	1.4
Cotton, metal, packing materials, rubber, etc.	1,266	1.2
Total	10,979	10.2
Other outdoor structures	4,711	4.4
Total fires other than those in buildings	64,292	59.5
Total fires attended	108,114	100.0

SECTION II

Table 3

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED FOR EACH BRIGADE

Reports from England and Wales, 1957

Hazard in which fire started	County Fire Brigades																										
	Anglesey	Bedfordshire	Berkshire and Reading C.B.	Breconshire and Radnorshire	Buckinghamshire	Caernarvonshire	Cambridgeshire	Cardiganshire and Carmarthenshire	Chester	Cornwall	Cumberland	Denbigh and Montgomery	Derbyshire	Devonshire	Dorsetshire	Durham	Ely, Isle of	Essex	Flintshire	Glamorganshire	Gloucestershire	Hampshire	Herefordshire	Hertfordshire	Huntingdonshire	Kent and Canterbury C.B.	Lancashire	Leicestershire and Rutland
Fires in buildings																											
Industrial premises	2	31	49	5	46	6	7	23	99	11	18	21	64	19	13	97	7	156	19	108	36	41	8	109	10	114	404	26
Commercial premises and offices	1	14	14	2	11	11	10	10	38	14	14	18	31	22	17	36	8	114	5	64	25	26	8	40	7	94	170	13
Transport and public utilities	1	12	12	2	13	4	9	8	31	8	8	9	32	21	14	41	6	56	4	55	17	30	5	31	3	54	128	14
Dwellings	27	115	131	28	155	39	62	100	304	111	80	109	261	204	102	330	45	612	54	332	182	234	60	232	35	711	810	59
Other buildings	14	76	133	28	100	27	57	67	199	77	67	75	130	155	91	220	22	407	36	165	109	209	77	178	28	383	545	45
Total	45	248	339	65	325	87	145	208	671	221	187	232	518	421	237	724	88	1345	118	724	369	540	158	590	83	1356	2057	157
Fires not in buildings																											
Agriculture, grassland, forestry	14	362	523	30	630	98	160	135	1047	209	98	207	828	307	596	619	94	2576	151	447	310	1430	114	1089	96	2516	1640	312
Transport	9	73	86	9	74	24	28	41	139	44	37	25	99	52	48	111	5	314	23	104	62	144	30	142	28	306	302	62
Outdoor storage including refuse	1	68	77	3	65	16	28	16	163	35	15	38	93	44	50	145	7	411	33	59	33	115	14	157	7	373	460	39
Other outdoor hazards	2	39	56	5	36	4	12	8	57	13	20	16	54	15	20	86	4	182	15	65	35	75	10	77	9	183	176	21
Total	26	542	742	47	805	142	228	200	1406	301	170	286	1074	418	714	961	110	3483	222	675	440	1764	168	1465	140	3378	2578	434
Total fires attended	71	790	1081	112	1130	229	373	408	2077	522	357	518	1592	839	951	1685	198	4828	340	1399	809	2304	326	2055	223	4734	4635	591

SECTION II

Table 3 (contd.)

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED FOR EACH BRIGADE

Reports from England and Wales 1957

Hazard in which fire started	County Fire Brigades (Contd.)																											
	Lincolnshire (Holland)	Lincolnshire (Kesteven)	Lincolnshire (Lindsey)	London	Merioneth	Middlesex	Monmouthshire	Norfolk	Northamptonshire	Northumberland	Nottinghamshire	Oxfordshire	Pembrokeshire	Peterborough, Soke of	Salop	Scilly, Isles of	Somersetshire	Staffordshire	Suffolk and Ipswich C.B.	Surrey	Sussex, East	Sussex, West	Warwickshire	Westmorland	Wight, Isle of	Wiltshire	Worcestershire and Worcester C.B.	Yorkshire (East Riding)	Yorkshire (North Riding)	Yorkshire (West Riding)
Fires in buildings																													
Industrial premises	5	9	20	708	-	261	14	10	20	33	40	21	5	11	22	-	41	115	30	104	17	18	59	2	1	73	73	9	79	241
Commercial premises and offices	10	8	19	523	-	176	14	14	11	23	26	9	13	9	20	-	18	52	26	73	19	28	30	2	2	18	30	12	22	104
Transport and public utilities	5	3	10	135	3	86	12	6	8	24	28	1	3	3	10	-	21	34	9	47	13	19	27	6	5	18	17	5	18	72
Dwellings	25	28	82	2087	13	1026	117	130	92	163	133	76	33	32	117	-	182	226	196	523	156	131	186	23	39	154	203	45	104	540
Other buildings	39	39	71	1571	9	493	51	107	67	117	120	65	29	13	112	-	139	192	105	312	110	89	124	19	26	176	105	57	157	373
Total	84	87	202	5024	25	2042	208	267	198	360	347	172	83	68	281	-	401	619	366	1059	315	285	426	52	73	439	428	128	380	1330
Fires not in buildings																														
Agriculture, grassland, forestry	70	96	244	1406	37	2200	250	344	221	203	736	101	28	70	386	-	252	1286	630	2262	503	297	923	50	120	292	558	115	231	1232
Transport	19	28	38	813	10	412	29	44	52	64	96	46	29	13	55	-	70	132	64	246	58	48	85	19	9	66	68	24	73	223
Outdoor storage including refuse	8	2	30	2298	1	662	23	11	32	62	64	10	1	14	32	-	51	126	67	235	30	61	93	6	9	53	87	38	54	276
Other outdoor hazards	10	3	18	770	6	278	13	21	17	35	41	18	10	7	17	-	29	54	30	136	33	26	50	4	5	24	41	18	41	89
Total	107	129	330	5287	54	3552	315	420	322	364	937	175	68	104	490	-	402	1598	791	2879	624	432	1151	79	143	435	754	195	399	1820
Total fires attended	191	216	532	10311	79	5594	523	687	520	724	1284	347	151	172	771	-	803	2217	1157	3938	939	717	1577	131	216	874	1182	323	779	3150

SECTION II

Table 3 (Contd.)

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED FOR EACH BRIGADE

Reports from England and Wales 1957

Hazard in which fire started	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	Croydon	Darlington	Derby	Dewsbury	Doncaster	Dudley	Eastbourne	East Ham	Exeter	Gloucester	Great Yarmouth	Grimsby	Halifax	Hastings	Huddersfield	Kingston upon Hull	Leeds	Leicester	Lincoln
Fires in buildings																																						
Industrial premises	15	5	5	12	264	20	20	58	28	8	47	17	93	17	15	35	33	11	2	32	21	4	31	11	14	10	1	5	4	9	15	21	26	4	29	66	98	56	2
Commercial premises and offices	8	5	9	27	127	12	31	22	12	10	36	24	33	14	1	10	36	7	10	20	24	6	22	10	15	4	6	11	3	14	2	5	9	7	12	34	52	27	9
Transport and public utilities	6	4	3	10	47	10	18	11	6	4	11	5	19	3	2	2	17	5	2	8	13	8	10	4	2	1	-	2	2	5	1	6	6	3	1	15	19	14	4
Dwellings	30	30	77	110	684	67	90	77	38	49	185	94	205	57	25	37	138	35	37	124	131	27	166	24	35	31	33	47	59	28	33	39	52	31	57	173	185	140	20
Other buildings	12	16	24	38	299	40	106	35	30	41	100	48	100	33	7	21	67	29	34	67	58	33	37	25	19	9	21	22	30	29	24	28	31	18	37	102	196	88	17
Total	71	60	118	197	1421	149	265	203	114	112	379	188	450	124	50	105	291	87	85	251	247	78	266	74	85	55	61	87	98	85	75	99	124	63	136	390	550	325	52
Fires not in buildings																																						
Agriculture, grassland, forestry	108	28	46	202	906	60	75	47	75	221	106	78	454	71	39	31	164	50	105	304	166	53	96	88	57	101	21	81	33	47	16	37	40	65	55	72	330	195	61
Transport	9	12	20	48	203	9	29	26	52	13	54	38	100	12	6	7	51	13	19	43	46	17	29	14	20	9	7	33	19	16	14	26	14	10	21	63	80	60	19
Outdoor storage including refuse	4	33	15	73	289	32	54	29	37	20	57	37	130	29	8	28	106	20	24	68	35	45	51	25	16	11	11	27	41	26	19	51	15	11	19	138	98	85	38
Other outdoor hazards	7	6	4	56	143	16	33	21	20	7	35	17	38	13	7	5	28	10	12	22	31	9	22	5	6	10	7	15	8	10	6	6	3	3	20	29	59	31	3
Total	128	79	85	319	1541	117	191	123	184	261	252	170	722	125	60	71	349	93	160	437	278	124	198	132	99	131	46	156	101	99	55	120	72	89	115	302	567	371	121
Total fires attended	199	139	203	576	2962	266	456	326	298	373	631	358	1172	249	110	176	640	180	245	688	525	202	464	206	184	186	107	243	199	184	130	219	196	152	251	692	1117	696	173

SECTION II

Table 3 (Contd.)

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED FOR EACH BRIGADE

Reports from England and Wales 1957

Hazard in which fire started	County Borough Fire Brigades (Contd.)																																					Total fires in England and Wales
	Liverpool	Manchester	Merthyr Tydfil	Middlesbrough	Newcastle on Tyne and Gateshead	Newport (Mon.)	Northampton	Norwich	Nottingham	Oldham	Oxford	Plymouth	Portsmouth	Preston	Rochdale	Rotherham	St. Helens	Salford	Sheffield	Smethwick and West Bromwich	Southampton	Southend	Southport	South Shields	Stockport	Stoke on Trent	Sunderland	Swansea	Tynemouth	Wakefield	Wallasey	Walsall	Warrington	West Ham	West Hartlepool	Wigan	Wolverhampton	York	
Fires in buildings																																						
Industrial premises	116	155	8	15	57	22	19	8	32	50	9	16	28	27	56	17	8	34	95	43	16	10	5	11	22	45	48	7	10	14	13	21	15	49	16	9	29	6	5915
Commercial premises and offices	129	134	7	22	46	14	8	16	38	26	10	18	19	10	14	9	11	20	42	14	28	14	7	11	20	22	22	23	7	5	5	12	12	26	10	10	16	11	3742
Transport and public utilities	51	44	2	8	13	8	2	2	14	7	2	5	6	3	5	1	6	8	13	9	13	8	2	2	6	12	6	7	3	1	6	2	2	8	2	6	6	8	1893
Dwellings	549	572	31	71	209	51	39	61	148	71	57	93	112	71	43	34	43	103	189	66	78	69	50	44	72	75	133	90	34	21	71	59	32	77	25	27	85	40	19581
Other buildings	380	242	17	70	108	33	27	33	90	38	28	42	55	24	31	6	26	68	98	32	43	40	25	24	32	60	85	29	12	13	26	31	22	61	62	25	37	38	12691
Total	1225	1147	65	186	433	128	95	120	322	192	106	174	220	135	149	67	94	233	437	164	178	141	89	92	152	214	294	156	66	53	121	125	83	221	115	77	173	103	43822
Fires not in buildings																																						
Agriculture, grassland, forestry	374	304	8	56	97	116	52	90	210	24	33	101	127	56	26	78	53	32	211	207	258	101	66	76	106	142	98	79	44	50	117	126	87	137	68	51	121	49	40596
Transport	189	153	7	32	55	30	21	36	43	31	16	49	62	20	10	13	18	32	80	16	61	19	18	9	23	32	25	20	38	10	18	19	16	62	17	18	35	18	8006
Outdoor storage including refuse	288	182	3	49	96	68	28	33	90	53	28	64	49	53	59	20	29	39	70	40	97	19	17	40	49	47	67	23	23	15	31	36	18	173	46	12	34	35	10979
Other outdoor hazards	149	120	5	22	52	12	5	24	42	8	8	21	19	17	9	8	8	19	34	15	10	16	4	11	3	14	19	8	1	4	9	15	9	28	9	9	15	8	4711
Total	1000	759	23	159	300	226	106	183	385	116	85	235	257	146	104	119	108	122	395	278	426	155	105	136	181	235	209	130	106	79	175	196	130	400	140	90	205	110	64292
Total fires attended	2225	1906	88	345	733	354	201	303	707	308	191	409	477	281	253	186	202	355	832	442	604	296	194	228	333	449	503	286	172	132	296	321	213	621	255	167	378	213	108114

SECTION II

Table 4

SUPPOSED CAUSE OF FIRES

Reports from England and Wales, 1957

Each item in the list of supposed causes of fire given in this table represents a group of causes which have a common source of ignition. In some cases the groups have been divided into sub-groups according to the nature of the material first ignited and in others according to the act with the source of ignition which led to the outbreak of fire. Certain causes were specified for the first time in 1954; the miscellaneous item is therefore not comparable with those for years previous to 1954.

Supposed cause of fire	Fires in buildings		Fires other than those in buildings		Total	
	No.	Per cent	No.	Per cent	No.	Per cent
Aircraft, crashed	-	-	58	0.1	58	0.1
Ashes, soot	648	0.6	1,640	1.5	2,288	2.1
Brazier	64	0.1	114	0.1	178	0.2
Camp fire, fire in open air(1)	5	-	114	0.1	119	0.1
Candle	274	0.3	12	-	286	0.3
Chimney on fire, not confined to chimney	2,162	2.0	8	-	2,170	2.0
Chimney, sparks from (outside building)	322	0.3	65	0.1	387	0.4
Cooker, cooking range, oven other than electric, coal gas or oil(1)	394	0.4	19	-	413	0.4
Electric cooker	1,191	1.1	6	-	1,197	1.1
fire, heater, radiator	981	0.9	16	-	997	0.9
Electric iron	255	0.2	-	-	255	0.2
motor	289	0.3	38	-	327	0.3
refrigerator	739	0.7	9	-	748	0.7
television	287	0.3	1	-	288	0.3
wire and cable, other than lead to apparatus	1,594	1.5	1,885	1.7	3,479	3.2
Electric wire and cable, lead to apparatus	191	0.2	339	0.3	530	0.5
wireless	327	0.3	2	-	329	0.3
other apparatus	1,795	1.7	921	0.9	2,716	2.5
Explosives, fireworks	270	0.2	505	0.5	775	0.7
Fire in grate igniting bedding, clothing, linen	865	0.8	-	-	865	0.8
Fire in grate igniting furniture, furnishings	659	0.6	-	-	659	0.6
structural timber under hearth	1,186	1.1	-	-	1,186	1.1
Other materials	1,823	1.7	-	-	1,823	1.7
Fish frying range (all fuels)	882	0.8	7	-	889	0.8
Flue	671	0.6	150	0.1	821	0.8
Furnace (coal or coke)	41	-	1	-	42	-
Gas (coal) burner, jet, ring	281	0.3	111	0.1	392	0.4
cooker	1,328	1.2	-	-	1,328	1.2
fire, heater, radiator	188	0.2	-	-	188	0.2
other apparatus	455	0.4	203	0.2	658	0.6

Table 4 (Contd.)

SUPPOSED CAUSE OF FIRE

Reports from England and Wales, 1957

Supposed cause of fire	Fires in buildings		Fires other than those in buildings		Total	
	No.	Per cent	No.	Per cent	No.	Per cent
Incubator, brooder, (all fuels)	514	0.5	16	-	530	0.5
Intentional burning of grassland, gorse, etc.	20	-	458	0.4	478	0.4
Lightning	246	0.2	112	0.1	358	0.3
Lime	4	-	28	-	32	-
Locomotives, sparks from	244	0.2	16,239	15.0	16,483	15.2
Malicious ignition (1) (2)	332	0.3	116	0.1	448	0.4
Matches	589	0.5	533	0.5	1,122	1.0
Matches, children with(5)	4,167	3.9	13,446	12.4	17,613	16.3
Mechanical heat or sparks	545	0.5	531	0.5	1,076	1.0
Metal, hot	161	0.1	82	0.1	243	0.2
Naked light (1)(3)	380	0.4	1,058	1.0	1,438	1.3
Oil, blow lamp	765	0.7	37	-	802	0.7
engine (including petrol)	167	0.2	2,220	2.1	2,387	2.2
lamp	212	0.2	186	0.2	398	0.4
stove	1,542	1.4	84	0.1	1,626	1.5
tractor	77	0.1	239	0.2	316	0.3
other apparatus	237	0.2	206	0.2	443	0.4
Oxyacetylene cutting and welding apparatus	329	0.3	389	0.4	718	0.7
Rubbish burning	879	0.8	5,275	4.9	6,154	5.7
Slow combustion stove igniting structural woodwork	248	0.2	-	-	248	0.2
other materials	906	0.8	298	0.3	1,204	1.1
Smoking materials	4,218	3.9	6,401	5.9	10,619	9.8
Spontaneous combustion in rubbish	4	-	131	0.1	135	0.1
Spontaneous combustion in other materials	283	0.3	417	0.4	700	0.6
Static electricity	11	-	-	-	11	-
Steam roller, engine, traction engine	-	-	1	-	1	-
Sun's rays	100	0.1	332	0.3	432	0.4
Taper, lighted paper or sticks	231	0.2	114	0.1	345	0.3
Taper, lighted paper or sticks, children with (5)	92	0.1	35	-	127	0.1
Miscellaneous (4)	738	0.7	264	0.2	1,002	0.9
Unknown source of ignition	5,414	5.0	8,820	8.1	14,234	13.2
Total number of fires	43,822	40.5	64,292	59.5	108,114	100.0

Notes: (1) Causes specified for the first time in the Annual Statistical Tables for 1954.
(2) Malicious ignition is a general heading for suspected or proven arson or incendiarism.
(3) No further information given in original reports.
(4) Not comparable with the years prior to 1954.
(5) A change in definition has increased the number of incidents in these categories.

SECTION II

Table 5A

SUPPOSED CAUSE OF FIRES IN BUILDINGS IN RELATION TO HAZARD IN WHICH FIRE STARTED

Reports from England and Wales, 1957

Row No.	Supposed cause of fire	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Row No.
		Hazard in which fire started	Agriculture	Mining, quarrying and treatment of non-metalliferous mine and quarry products (excluding gas works)	Manufacture of bricks, pottery, glass, etc.	Manufacture of chemicals, explosives, paints, oils	Manufacture of metals, machines, implements, conveyances	Manufacture of textiles and textile goods (not dress)	Manufacture of clothing (not knitted) including footwear, and goods of leather and leather substitute; preparation of skins and leather	Manufacture of food, drink, tobacco	Woodworking; manufacture of cane and basket ware, furniture, fittings	Paper making; manufacture of stationery and stationery requisites, printing and bookbinding	Building, decorating, contracting; slate and stone cutting and dressing	Other manufacturing industries, including rubber and synthetic rubber	Gas, water, electricity, sewage	Transport and communication	Commerce; retail shops, including departmental stores	Commerce; wholesale dealers and warehouses	Offices; Government and other	Navy, Army, Air Force establishments	Fire Service establishments	Professional establishments (other than offices), public institutions	Places of public entertainment	Private residential houses	Private residential flats and maisonettes	Clubs, hotels, restaurants, public houses	Private huts, unoccupied houses, personal service	Miscellaneous and undefined	Total	
1	Ashes, soot		8	2		1	14	4	1	5	3	1	5	1	1	18	29	2	15	5		44	3	98	195	23	148	22	648	1
2	Brazier		3		2		7			2		1	25		3	7	4	2				5	1				1	1	64	2
3	Camp fire, fire in open air(1)															1			1				1				2	1	5	3
4	Candle		7				1	1		1	1		1			3	8	2		1		7	2	173	32	6	25	4	274	4
5	Chimney on fire, not confined to chimney		3	1	2		4		2	11		1	3	2		3	20	1	4	6	1	14	2	1,807	208	61	5	1	2,162	5
6	Chimney, sparks from (outside building)		29	1		1	13	2	3	4	10	1	6	1		14	10	5		2		5	2	163	20	12	13	5	322	6
7	Cooker, cooking range, oven, other than electric, coal gas or oil (1)					1				1			2			2	1		1	2	1	19	1	287	47	29			394	7
8	Electric cooker					1							1			1	10		7	11		21		886	234	19			1,191	8
9	fire, heater, radiator		1	3	1	3	25	4	6	3	3	4	17	2	2	17	65	8	21	11		37	7	546	141	45	7	2	981	9
10	iron							1	35								8	1		1		15		141	41	7	2		255	10

11	Electric, motor	4	4	-	10	28	9	11	14	11	1	2	10	8	12	53	11	11	3	1	27	7	9	8	31	3	1	289	11
12	refrigerator	2	-	-	-	4	-	1	20	-	1	-	2	-	2	450	9	2	-	1	23	8	87	29	97	1	-	739	12
13	television	-	-	-	-	1	-	-	-	-	-	-	-	-	-	5	-	-	-	-	2	-	233	44	2	-	-	287	13
14	wire and cable other than lead to apparatus	88	8	3	5	50	14	10	12	11	8	18	17	6	164	111	24	17	12	-	53	25	666	125	98	32	17	1,594	14
15	wire and cable lead to apparatus	7	-	-	-	13	2	-	-	3	-	1	-	-	27	18	-	1	1	-	7	3	79	14	9	6	-	191	15
16	wireless	-	1	-	-	2	1	3	-	-	-	-	1	-	2	8	-	1	-	-	13	1	241	46	7	-	-	327	16
17	other apparatus	34	9	9	36	134	36	21	24	19	18	18	36	32	83	210	22	25	20	4	89	26	651	112	91	34	2	1,795	17
18	Explosives, fireworks	14	-	1	3	5	1	-	2	-	1	6	-	2	13	24	5	2	2	-	20	10	74	16	7	30	32	270	18
19	Fire in grate, igniting bedding, clothing, linen	-	-	-	-	2	-	-	-	-	-	1	-	-	2	-	1	-	1	-	2	-	750	104	1	1	-	865	19
20	furniture and furnishings	-	-	-	-	-	-	-	-	-	-	1	-	-	-	3	-	1	2	-	3	1	552	89	7	-	-	659	20
21	structural timber under hearth	-	-	-	-	2	-	2	-	2	1	4	2	-	3	10	1	8	3	-	17	1	716	338	75	1	-	1,186	21
22	other materials	7	1	1	-	4	1	5	-	12	1	7	2	-	11	39	4	9	8	-	20	3	1,407	212	58	9	2	1,823	22
23	Fish frying range (all fuels)	-	1	-	1	15	2	3	11	1	1	-	2	2	2	1	-	5	22	-	43	2	-	3	765	-	-	882	23
24	Flue	23	4	3	6	53	6	7	14	16	4	26	1	2	19	29	10	7	26	-	61	10	222	28	73	19	2	671	24
25	Furnace (coal or coke)	1	2	1	1	25	1	1	-	2	1	-	-	1	-	-	-	-	-	-	3	-	-	-	1	1	-	41	25
26	Gas (coal) burner, jet, ring	1	-	1	18	26	1	9	8	1	2	4	6	1	10	46	2	9	1	-	31	-	44	28	15	16	1	281	26
27	cooker	-	-	-	3	3	1	3	5	1	-	1	1	1	4	23	2	7	4	1	36	3	792	344	91	2	-	1,328	27
28	fire heater, radiator	-	1	-	2	7	1	-	-	2	5	5	1	-	1	27	4	7	-	-	19	5	64	24	12	1	-	188	28
29	other apparatus	4	-	6	23	71	8	3	35	1	11	3	6	7	4	41	3	5	2	-	28	6	129	31	16	11	1	455	29
30	Incubator, brooder (all fuels)	378	-	-	1	-	-	-	-	-	-	-	-	-	2	6	-	-	-	-	4	1	14	1	1	106	-	514	30
31	Intentional burning of grassland, gorse, etc.	1	-	-	-	-	-	-	-	-	1	-	-	-	2	1	1	-	-	-	-	1	1	-	1	8	3	20	31
32	Lightning	20	-	-	1	-	5	-	-	-	-	3	-	8	3	5	2	1	5	-	9	3	160	9	3	6	3	246	32
33	Lime	1	1	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	4	33
34	Locomotives, sparks from	10	2	-	2	7	2	-	1	3	1	2	1	1	147	4	-	1	-	-	2	1	7	-	1	15	34	244	34
35	Malicious ignition(1)(2)	37	1	2	-	2	3	2	5	9	4	20	2	1	16	28	8	5	1	-	33	15	52	20	24	21	21	332	35
36	Matches	23	-	2	4	18	6	4	3	2	4	9	2	1	23	47	9	6	2	1	36	6	248	67	23	27	16	589	36
37	Matches, children with (5)	291	4	8	11	33	14	7	12	13	6	282	15	5	105	158	35	25	6	-	120	65	423	108	42	343	2,036	4,167	37
38	Mechanical heat or sparks	3	4	2	32	273	233	23	33	29	14	8	37	1	11	8	14	-	1	1	3	2	3	-	2	7	1	545	38
39	Metal, hot	3	2	4	3	116	1	-	1	2	1	2	1	2	4	-	3	-	-	-	2	-	11	-	-	3	-	161	39
40	Naked light (1)(3)	36	2	3	-	12	6	1	1	3	4	19	2	-	19	37	13	4	2	-	22	19	88	7	17	41	22	380	40
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	

For explanation of notes see page 21.

(35446)

SECTION II

Table 5A (Contd.)

SUPPOSED CAUSE OF FIRES IN BUILDINGS IN RELATION TO HAZARD IN WHICH FIRE STARTED

Reports from England and Wales, 1957

Row No.	Supposed cause of fire	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Row No.
		Hazard in which fire started																												
			Agriculture	Mining, quarrying and treatment of non-metalliferous mine and quarry products (excluding gas works)	Manufacture of bricks, pottery, glass, etc.	Manufacture of chemicals, explosives, paints, oils	Manufacture of metals, machines, implements, conveyances	Manufacture of textiles and textile goods (not dress)	Manufacture of clothing (not knitted) including footwear, and goods of leather and leather substitute; preparation of skins and leather	Manufacture of food, drink, tobacco	Woodworking; manufacture of cane and basketware, furniture, fittings	Paper making; manufacture of stationery and stationery requisites, printing and bookbinding	Building, decorating, contracting; slate and stone cutting and dressing	Other manufacturing industries, including rubber and synthetic rubber	Gas, water, electricity, sewage	Transport and communication	Commerce; retail shops, including departmental stores	Commerce; wholesale dealers and warehouses	Offices; Government and other	Navy, Army, Air Force establishments	Fire Service establishments	Professional establishments (other than offices), public institutions	Places of public entertainment	Private residential houses	Private residential flats and maisonettes	Clubs, hotels, restaurants, public houses	Private huts, unoccupied houses, personal service	Miscellaneous and undefined	Total	
41	Oil, blow lamp		7	-	-	2	7	2	2	3	2	3	28	2	1	23	26	2	16	12	-	52	9	457	47	37	19	5	765	41
42	engine (including petrol)		37	1	1	1	11	-	-	1	3	1	6	1	2	55	4	3	-	7	1	4	1	7	-	3	17	-	167	42
43	lamp		20	1	-	-	3	-	3	-	-	-	10	-	1	113	5	1	1	2	-	5	-	27	2	3	14	1	212	43
44	stove		28	4	-	2	14	1	11	1	7	4	26	6	1	63	70	6	2	7	-	17	3	886	272	32	79	1	1,542	44
45	tractor		73	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	1	-	-	-	-	-	77	45
46	Oil, other apparatus		38	6	7	24	53	1	-	15	3	2	4	-	6	8	3	4	5	5	1	8	4	20	2	9	8	1	237	46
47	Oxyacetylene cutting and welding apparatus		8	9	4	7	106	3	3	11	6	2	43	5	6	44	7	6	3	7	-	11	5	1	-	4	5	23	329	47
48	Rubbish burning		90	2	-	2	27	5	3	4	25	4	127	5	-	40	101	22	9	10	-	35	13	38	9	15	190	103	879	48
49	Slow combustion stove igniting structural woodwork		24	6	-	1	5	1	1	2	2	-	40	1	1	17	14	9	3	10	-	31	9	39	7	13	11	1	248	49
50	other materials		72	16	3	16	58	15	10	7	45	10	97	15	12	51	47	25	18	25	1	84	26	168	19	33	28	5	906	50

(35446)

51	Smoking materials	139	10	11	24	158	45	53	29	68	35	157	35	3	180	435	102	111	44	1	180	196	1,168	330	319	175	210	4,218	51
52	Spontaneous combustion in rubbish	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	1	-	-	-	-	4	52
53	Spontaneous combustion in other materials	122	-	-	12	14	14	5	9	2	5	-	5	6	5	4	10	2	-	-	13	1	5	2	36	11	-	283	53
54	Static electricity	-	-	-	-	-	-	1	1	-	2	-	6	-	-	-	-	-	-	-	-	1	-	-	-	-	-	11	54
55	Steam roller, engine, traction engine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55
56	Sun's rays	13	-	1	-	2	-	-	3	1	1	-	-	-	4	25	1	-	-	-	3	-	26	4	1	12	3	100	56
57	Taper, lighted paper or sticks	2	1	-	1	4	2	1	3	-	2	3	1	-	7	27	4	5	1	-	13	2	111	18	2	18	3	231	57
58	Taper, lighted paper or sticks, children with(5)	2	-	-	1	-	-	-	-	1	-	3	1	-	2	6	-	-	-	1	3	1	55	11	1	-	4	92	58
59	Miscellaneous and undefined(4)	38	4	9	38	100	22	10	69	36	6	68	17	16	15	24	10	3	3	-	26	6	117	20	13	36	32	738	59
60	Unknown source of ignition	649	24	23	85	233	96	51	67	40	39	236	56	29	338	388	136	74	77	2	308	146	901	259	234	437	386	5,414	60
61	Total fires in buildings	2,401	138	110	385	1,564	573	317	453	301	214	1,350	310	171	1,722	2,736	546	460	373	18	1,690	667	15,854	3,727	2,527	2,007	3,008	43,822	61
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	

For explanation of notes see page 21.

SECTION II

Table 5B

SUPPOSED CAUSE OF FIRES OTHER THAN THOSE IN BUILDINGS IN RELATION TO HAZARD IN WHICH FIRE STARTED

Reports from England and Wales, 1957

Row No.	Supposed cause of fire	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Row No.
		Hazard in which fire started											Transport and communications					Outdoor storage							
			Crops	Agricultural machinery	Agricultural waste	Agricultural, other	Gardens and allotments	Railway embankments	Grassland, heathland	Woods, forests, plantations	Single trees	Felled timber	Air	Rail	Road-oil, petrol or gas driven vehicles	Road - other vehicles	Water	Chemicals, explosives, ammunition, oils, grease	Coal and Coke	Refuse	Timber	Other materials	Miscellaneous outdoor structures	Total	
1	Aircraft crashed		-	-	-	-	-	-	-	-	-	-	58	-	-	-	-	-	-	-	-	-	-	58	1
2	Ashes, soot		4	-	10	3	16	66	59	1	3	1	-	26	207	7	38	6	25	1,049	25	53	41	1,640	2
3	Brazier		1	-	-	-	-	-	4	-	1	-	-	-	1	5	-	10	-	3	10	10	67	114	3
4	Camp fire, fire in open air[1]		1	-	-	-	-	-	68	14	15	2	-	-	-	-	-	1	-	2	4	1	6	114	4
5	Candle		-	-	-	-	-	-	-	-	-	-	-	-	4	-	1	-	-	-	-	-	7	12	5
6	Chimney on fire, not confined to chimney		1	-	-	-	-	-	1	-	-	-	-	-	1	-	1	1	-	-	1	-	2	8	6
7	Chimney, sparks from (outside building)		11	1	1	1	-	1	11	-	2	-	-	-	4	-	-	-	-	4	14	8	7	65	7
8	Cooker, Cooking range, oven, other than electric, coal gas or oil[1]		-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	-	-	-	-	15	19	8
9	Electric cooker		-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	3	6	9
10	fire, heater, radiator		-	-	-	-	-	-	-	-	-	-	-	-	1	-	6	-	-	-	-	-	9	16	10
11	motor		-	-	-	-	-	-	-	-	-	-	-	-	2	23	5	-	-	-	-	-	8	38	11
12	refrigerator		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	8	9	12
13	television		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	13
14	wire and cable other than lead to apparatus		3	53	-	-	-	-	5	-	-	-	-	10	1,485	39	16	3	-	1	-	-	270	1,885	14
15	wire and cable lead to apparatus		-	12	-	-	-	-	-	-	-	-	-	2	307	3	5	-	-	-	-	-	10	339	15

16	Electric wireless	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	16
17	other apparatus	-	27	-	-	-	-	4	1	2	-	1	13	318	21	44	1	-	-	-	2	487	921	17
18	Explosives, fireworks	17	-	1	1	2	4	84	8	105	1	-	-	26	1	2	7	-	21	8	15	202	505	18
19	Fish frying range (all fuels)	-	-	-	-	-	-	-	-	-	-	-	-	6	-	1	-	-	-	-	-	-	7	19
20	Flue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	3	-	1	-	141	150	20
21	Furnace (coal or coke)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	21
22	Gas (coal) burner, jet, ring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	109	111	22
23	fire, heater, radiator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23
24	other apparatus	-	-	-	-	-	-	-	-	-	-	-	-	1	-	4	2	1	-	-	-	195	203	24
25	Incubator, brooder, (all fuels)	1	-	-	5	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	9	16	25
26	Intentional burning of grassland, gorse, etc.	6	-	2	1	51	76	260	20	8	1	-	1	1	-	-	3	1	7	3	1	16	458	26
27	Lightning	20	-	-	1	1	-	6	5	37	-	-	-	-	-	-	2	-	-	-	-	40	112	27
28	Lime	-	-	-	1	-	-	-	-	-	-	-	8	4	-	-	10	-	-	-	-	5	28	28
29	Locomotives, sparks from	317	2	14	71	93	11,582	3,016	125	26	2	-	216	6	1	7	14	2	98	220	55	372	16,239	29
30	Malicious ignition (1)(2)	36	-	-	1	-	-	11	2	1	-	-	-	34	-	3	2	-	4	2	7	13	116	30
31	Matches	12	-	3	5	18	7	249	19	8	2	-	1	36	1	4	14	-	36	7	14	97	533	31
32	Matches children with (5)	285	3	36	54	187	215	6,130	538	1,205	54	1	15	255	18	11	76	3	3,183	344	309	524	13,446	32
33	Mechanical heat or sparks	2	8	-	-	-	-	1	-	-	-	2	11	430	3	8	43	-	-	2	-	21	531	33
34	Metal hot	-	-	-	-	-	-	2	-	-	-	-	11	14	-	19	2	1	4	4	8	17	82	34
35	Naked light (1)(3)	29	3	7	12	28	12	651	76	17	-	-	3	24	-	3	13	1	83	23	23	50	1,058	35
36	Oil blow lamp	-	-	-	-	1	-	6	-	1	-	-	-	4	2	1	4	-	1	-	1	16	37	36
37	engine (including petrol)	2	2	1	1	1	-	6	-	-	-	7	2	2,142	1	21	2	-	-	3	-	29	2,220	37
38	lamp	-	-	-	-	-	-	1	-	-	-	1	1	66	-	7	4	-	2	3	5	96	186	38
39	stove	-	-	-	-	-	-	21	-	-	-	-	1	7	-	11	1	-	-	-	-	43	84	39
40	tractor	41	146	1	7	-	-	16	1	-	-	-	-	25	-	-	1	-	-	1	-	-	239	40
41	other apparatus	18	114	-	6	1	-	4	-	2	-	1	-	10	-	17	4	-	-	-	-	29	206	41
42	Oxyacetylene cutting and welding apparatus	2	1	-	1	-	2	23	2	-	-	1	8	53	-	96	30	-	13	34	29	94	389	42
43	Rubbish burning	136	7	120	75	635	66	1,481	116	198	58	-	8	58	9	11	34	12	1,389	400	177	285	5,275	43
44	Slow combustion stove igniting structural woodwork	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44
45	Slow combustion stove igniting other materials	1	-	-	1	-	-	1	-	-	-	-	1	11	-	8	9	-	-	2	4	260	298	45
46	Smoking materials	110	4	21	27	181	141	3,530	276	73	6	-	31	448	11	77	38	1	639	142	267	378	6,401	46
47	Spontaneous combustion in rubbish	-	-	-	-	1	-	4	-	-	-	-	-	-	-	-	-	-	126	-	-	-	131	47
48	Spontaneous combustion in other materials	224	1	23	3	1	1	8	1	2	-	-	2	9	-	6	41	21	23	7	30	14	417	48
49	Static electricity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49
50	Steam roller, engine, traction engine	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	50
51	Sun's rays	2	-	2	2	24	14	205	11	-	2	-	2	7	-	2	8	-	27	6	13	5	332	51
52	Taper, lighted paper or sticks	2	-	-	1	7	1	19	-	2	-	-	1	1	-	-	2	-	17	5	24	32	114	52
53	Taper, lighted paper or sticks children with(5)	-	-	-	-	-	2	5	-	1	-	-	-	2	-	-	2	-	2	-	1	20	35	53
54	Miscellaneous and undefined (4)	4	5	-	2	6	-	25	1	3	-	1	19	41	2	31	11	15	11	6	8	73	264	54
55	Unknown source of ignition	406	39	45	54	181	257	4,181	382	390	39	4	64	708	19	66	95	12	857	237	200	584	8,820	55
56	Total fires other than those in buildings	1,694	428	287	336	1,435	12,447	20,100	1,599	2,102	168	77	457	6,763	166	543	496	98	7,605	1,514	1,266	4,711	64,292	56
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	

For explanation of notes see page 21.

(75446)

SECTION II

Table 6

MATERIAL FIRST IGNITED IN FIRES

Reports from England and Wales, 1957

Material first ignited	Fires in buildings		Fires other than those in buildings		Total	
	No.	Per cent	No.	Per cent	No.	Per cent
Agriculture and Forestry						
Crops, ricks, stacks						
Barley	1	-	61	0.1	62	0.1
Hay	305	0.3	472	0.4	777	0.7
Straw	175	0.2	316	0.3	491	0.5
Stubble	-	-	96	0.1	96	0.1
Other	41	-	139	0.1	180	0.2
Loose straw or hay	675	0.6	782	0.7	1,457	1.3
Grass, heather, bracken	87	0.1	21,747	20.1	21,834	20.2
Trees, hedges, undergrowth brushwood, bushes (including gorse), twigs, touchwood	12	-	10,864	10.0	10,876	10.1
Other agricultural materials	42	-	244	0.2	286	0.3
Total	1,338	1.2	34,721	32.1	36,059	33.4
Chemicals - gases						
Acetylene	63	0.1	25	-	88	0.1
Coal gas	978	0.9	418	0.4	1,396	1.3
Other gases	96	0.1	66	0.1	162	0.1
Total	1,137	1.1	509	0.5	1,646	1.5
Chemicals - oils						
Animal and vegetable oils	139	0.1	2	-	141	0.1
Mineral oil						
Paraffin	1,185	1.1	168	0.2	1,353	1.3
Petrol in vehicles	302	0.3	2,552	2.4	2,854	2.6
Petrol not in vehicles	273	0.3	132	0.1	405	0.4
Other mineral oils	189	0.2	151	0.1	340	0.3
Oil, waste and undefined	413	0.4	430	0.4	843	0.8
Total	2,501	2.3	3,435	3.2	5,936	5.5
Chemicals - other						
Celluloid (including films)	14	-	-	-	14	-
Paint, enamel, lacquer, varnish, stains and French polish	125	0.1	26	-	151	0.1
Pitch, tar	78	0.1	163	0.2	241	0.2
Rubber, vulcanite, ebonite	166	0.2	301	0.3	467	0.4
Other chemicals	769	0.7	287	0.3	1,056	1.0
Total	1,152	1.1	777	0.7	1,929	1.8
Paper, cardboard, wood (not part of a structure)						
Paper, cardboard	2,368	2.2	1,431	1.3	3,799	3.5
Wood chippings, flour, sawdust, shavings, wool	528	0.5	335	0.3	863	0.8
Wood barrels, boxes, cases, firewood etc.	534	0.5	185	0.2	719	0.7
Timber	213	0.2	688	0.6	901	0.8
Total	3,643	3.4	2,639	2.4	6,282	5.8

SECTION II

Table 6 (Contd.)

MATERIAL FIRST IGNITED IN FIRES

Reports from England and Wales, 1957

Material first ignited	Fires in buildings		Fires other than those in buildings		Total	
	No.	Per cent	No.	Per cent	No.	Per cent
Textiles						
Canvas and canvas goods	39	-	199	0.2	238	0.2
Clothing on person	428	0.4	32	-	460	0.4
Clothing not on person	1,243	1.1	84	0.1	1,327	1.2
Cotton	263	0.2	57	0.1	320	0.3
Jute, hessian, sacking	400	0.4	248	0.2	648	0.6
Rags,(including oily rags)	297	0.3	201	0.2	498	0.5
Tarpaulin, waterproof sheeting, oilskins	113	0.1	477	0.4	590	0.5
Other textiles	228	0.2	63	0.1	291	0.3
Total	3,011	2.8	1,361	1.3	4,372	4.0
Furniture, furnishings, household goods						
Bedding	1,122	1.0	42	-	1,164	1.1
Carpets, rugs	542	0.5	35	-	577	0.5
Curtains	692	0.6	6	-	698	0.6
Furniture	1,975	1.8	22	-	1,997	1.8
Linen articles (unspecified), laundry	450	0.4	19	-	469	0.4
Seating in vehicles	60	0.1	346	0.3	406	0.4
Other furnishings	745	0.7	54	-	799	0.7
Total	5,586	5.2	524	0.5	6,110	5.7
Building materials, structural woodwork						
Building materials other than wood	801	0.7	9	-	810	0.7
Structural woodwork						
External	968	0.9	-	-	968	0.9
Internal						
Door, window frame	392	0.4	-	-	392	0.4
Floor, stairs	1,019	0.9	-	-	1,019	0.9
Partitions, linings to walls	663	0.6	-	-	663	0.6
Roof	901	0.8	-	-	901	0.8
Timber in chimney, flue	472	0.4	-	-	472	0.4
Timber under hearth	1,244	1.2	-	-	1,244	1.2
Other fittings	911	0.8	-	-	911	0.8
Not known whether internal or external	57	0.1	-	-	57	0.1
Structural woodwork, other than buildings	-	-	1,310	1.2	1,310	1.2
Total	7,428	6.9	1,319	1.2	8,747	8.1
Miscellaneous						
Coal, coke	71	0.1	101	0.1	172	0.2
Electrical insulation	3,309	3.1	2,308	2.1	5,617	5.2
Fat (margarine, suet, butter, cooking fat, lard)	2,456	2.3	23	-	2,479	2.3
Food other than fat	465	0.4	13	-	478	0.4
Refuse, rubbish, debris	3,961	3.7	8,493	7.9	12,454	11.5
Soot	380	0.4	5	-	385	0.4
Other	3259	3.0	2,173	2.0	5,432	5.0
Unknown	4,125	3.8	5,891	5.4	10,016	9.3
Total fires attended	43822	40.5	64,292	59.5	108114	100.0

SECTION II

Table 7A

MATERIAL FIRST IGNITED IN FIRES IN BUILDINGS IN RELATION TO THE SUPPOSED CAUSE

Reports from England and Wales, 1957

Row No.	Supposed cause of fire	Material first ignited																																									Row No.
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
		Agriculture and Forestry			Chemicals - gases			Chemicals - oils						Chemicals - other				Paper cardboard, wood not structural			Textiles							Furniture, furnishings, household goods					Building materials, structural woodwork								Miscellaneous materials								
		Crops, ricks and stacks	Loose straw or hay	Other agricultural material	Acetylene	Coal gas	Other gases	Animal and vegetable oils	Paraffin	Petrol in vehicles	Petrol not in vehicles	Other mineral oils	Oil, waste and undefined	Paint, enamel, lacquer, varnish, etc.	Pitch, tar	Rubber, vulcanite, ebonite	Other chemicals, including celluloid and celluloid goods	Paper, cardboard	Wooden packing materials	Timber	Clothing, on person	Clothing not on person	Cotton	Jute, hessian, sacking	Rags, including oily rags	Tarpaulins, waterproof sheeting, oilskins	Other textiles including canvas and canvas goods	Soft furnishings	Furniture	Linen articles, (unspecified), laundry	Seating in vehicles	Other furnishings	Building materials other than wood	Structural woodwork, external	Doors, window frames	Floors, stairs	Partitions, lining to walls	Roof	Timber in chimney, flue	Timber under hearth	Other fittings	Coal, coke	Electrical insulation	Food	Refuse, Rubbish debris	Soot	Other materials	Unknown material	Total	
1	Ashes, soot	2	4	-	-	1	-	-	-	-	-	-	2	1	-	1	-	117	28	4	-	7	-	12	4	-	-	7	4	1	-	5	3	21	1	21	10	1	-	-	19	25	1	-	282	7	52	1	648	1
2	Brazier	1	1	1	-	-	-	-	2	-	-	-	1	1	3	1	1	5	3	1	-	2	-	-	1	-	-	-	1	-	-	-	3	9	-	5	-	1	-	-	5	-	-	5	1	6	-	64	2
3	Camp fire, fire in open air (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	5	3
4	Candle	2	4	-	-	11	-	1	1	6	3	-	1	1	-	1	3	44	4	1	9	19	-	2	3	-	2	78	15	2	-	7	3	-	2	-	4	-	-	8	-	-	-	15	1	23	-	274	4
5	Chimney on fire not confined to chimney	2	-	1	-	-	-	-	-	-	-	-	1	7	-	-	1	35	7	2	1	27	-	5	-	1	-	191	28	8	-	76	292	46	9	237	240	294	220	43	227	-	3	3	14	1	136	4	2162	5
6	Chimney, sparks from (outside building	10	5	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	15	1	-	-	-	1	1	4	2	2	-	-	-	-	60	140	-	1	1	13	-	-	3	-	-	1	6	1	52	-	322	6
7	Cooker, cooking range, oven (Other than electric; coal gas or oil) (1)	-	-	-	-	-	11	2	-	-	1	3	-	2	1	-	1	16	45	-	-	25	-	-	1	-	-	7	5	1	-	2	1	-	-	9	4	2	3	1	7	-	1	217	1	11	14	-	394	7
8	Electric cooker	-	-	-	-	4	-	3	6	-	-	1	-	-	-	18	4	9	-	-	-	7	-	-	1	-	-	11	3	12	-	14	4	-	-	1	-	-	-	7	-	18	1046	-	-	17	4	1191	8
9	fire, heater, radiator	1	-	-	-	10	1	1	-	4	5	3	1	-	-	3	8	74	10	1	59	104	1	9	3	2	10	248	159	32	1	62	6	-	2	12	13	-	-	14	-	16	-	2	1	103	-	981	9
10	iron	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	2	3	-	-	12	-	-	-	-	1	17	71	14	-	65	1	-	5	18	2	-	-	8	-	8	-	-	-	19	1	255	10
11	Electric motor	-	1	1	-	-	-	-	1	-	-	4	9	1	-	1	6	-	5	-	-	1	5	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	2	-	235	1	-	-	14	-	289	11
12	refrigerator	-	-	-	-	2	2	-	-	-	-	-	4	-	-	2	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	682	1	-	-	39	-	739	12
13	television	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	47	-	-	-	-	-	-	-	-	-	-	-	-	236	-	-	-	2	-	287	13
14	wire and cable (other than lead to apparatus)	9	7	-	-	428	-	-	1	28	2	1	7	3	-	-	5	14	11	-	-	7	7	3	-	1	1	15	1	1	4	3	14	4	1	37	17	21	-	-	22	-	789	1	5	-	124	-	1594	14
15	wire and cable (lead to apparatus)	-	-	-	-	11	-	-	-	7	1	-	-	-	-	1	-	2	1	-	-	2	2	-	-	-	3	15	5	3	1	1	1	1	-	1	-	1	-	-	1	-	112	-	-	-	19	-	191	15
16	wireless	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	73	-	-	1	-	-	-	-	-	-	-	-	-	241	-	-	-	10	-	327	16
17	Other apparatus	3	4	1	1	19	1	-	1	21	11	12	45	11	3	12	50	30	62	-	3	40	16	8	9	1	29	215	34	19	6	32	10	13	4	15	10	3	-	-	183	2	834	14	1	1	179	2	1795	17
18	Explosives, fireworks	8	3	-	-	-	-	-	1	-	-	-	-	-	-	-	15	33	5	1	-	5	1	12	1	2	2	36	11	-	-	2	14	18	4	4	6	2	-	-	10	-	-	-	-	39	-	35	-	270	18
19	Fire in grate, igniting bedding, clothing, linen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	232	360	-	-	-	-	-	87	-	162	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	865	19
20	furniture and furnishings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	190	381	-	-	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	659	20
21	structural timber under hearth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1186	-	-	-	-	-	-	-	1186	21
22	other materials	-	5	1	-	25	5	-	54	1	49	20	5	2	1	6	37	175	36	5	-	-	-	3	8	6	-	7	-	-	-	-	24	1	4	193	84	135	213	-	89	-	1	13	36	314	261	4	1823	22
23	Fish frying range, (all fuels)	-	-	-	-	5	-	96	-	-	-	-	1	-	-	-	134	1	1	-	-	-	-	1	1	-	-	-	-	-	-	-	2	1	-	-	2	1	-	-	-	1	619	-	1	15	-	882	23
24	Flue	-	2	1	-	2	-	-	-	-	-	2	3	4	1	1	10	16	23	7	-	28	-	11	2	2	2	2	1	19	-	8	48	11	8	65	49	195	18	3	69	3	-	3	6	-	46	-	671	24
25	Furnace (coal or coke)	-	-	-	-	-	-	-	-	-	-	-	5	1	-	-	2	3	7	3	1	1	-	2	-	-	-	-	-	-	-	1	-	1	-	-	4	-	-	3	2	-	-	1	-	4	-	41	25
26	Gas, (coal) burner, jet, ring	-	-	-	-	42	1	1	5	4	2	9	3	5	5	9	46	8	4	-	9	11	-	-	3	-	-	20	7	8	-	10	2	-	2	10	3	-	-	-	2	-	1	25	3	-	21	-	281	26
27	cooker	-	-	-	-	107	-	8	9	-	11	3	2	2	8	4	33	9	6	-	33	41	-	-	4	-	1	87	2	30	-	59	2	-	-	12	-	-	1	-	4	-	-	826	2	-	22	-	1328	27
28	fire heater, radiator	-	-	-	-	16	2	-	1	1	3	2	-	-	-	3	15	7	2	-	18	13	-	3	2	-	-	15	7	9	-	8	7	-	-	8	8	2	-	-	5	-	-	1	7	-	22	1	188	28
29	Other apparatus	1	-	-	-	68	2	5	2	-	6	5	11	15	7	8	31	12	19	3	5	24	2	4	6	-	4	20	4	13	-	20	8	-	3	10	17	9	-	-	11	-	1	35	-	1	57	2	455	29
30	Incubator, brooder (all fuels)	22	123	12	-	-	-	-	104	-	1	-	1	-	-	-	-	1	55	1	-	-	-	18	-	-	5	3	-	-	-	5	-	-	-	28	14	4	-	-	49	-	6	1	-	-	60	1	514	30
31	Intentional burning of grassland, gorse, etc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	20	31
32	Lightning	3	3	-	-	12	1	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	4	7	-	-	1	22	24	1	2	-	29	-	-	11	-	96	-	1	3	18	6	246	32
33	Lime	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	2	-	4	33
34	Locomotives, sparks from	1	5	24	-	-	-	-	-	-	-	-	2	-	1	-	1	2	4	1	-	1	2	2	2	7	1	-	2	-	-	-	16	119	-	5	-	11	-	-	8	-	-	-	9	2	16	-	244	34
35	Malicious ignition (1) (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	332	332	35
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	

For explanation of notes see page

Table 7A (Contd.)

MATERIAL FIRST IGNITED IN FIRES IN BUILDINGS IN RELATION TO THE SUPPOSED CAUSE

Reports from England and Wales, 1957

Row No.	Supposed cause of fire	Material first ignited: Agriculture and Forestry — Crops, ricks and stacks	Loose straw or hay	Other agricultural material	Chemicals – gases — Acetylene	Coal gas	Other gases	Chemicals – oils — Animal and vegetable oils	Paraffin	Petrol in vehicles	Petrol not in vehicles	Other mineral oils	Oil waste and undefined	Chemicals – other — Paint, enamel, lacquer, varnish, etc.	Pitch, tar	Rubber, vulcanite, ebonite	Other chemicals, including celluloid and celluloid goods	Paper, cardboard, wood not structural — Paper, cardboard	Wooden packing materials	Timber	Textiles — Clothing, on person	Clothing not on person	Cotton	Jute, hessian, sacking	Rags, including oily rags	Tarpaulins, waterproof sheeting, oilskins	Other textiles, including canvas and canvas goods	Furniture, furnishings, household goods — Soft furnishings	Furniture	Linen articles (unspecified), laundry	Seating in vehicles	Other furnishings	Building materials, structural woodwork — Building materials other than wood	Structural woodwork, external	Doors, window frames	Floors, stairs	Partitions, lining to walls	Roof	Timber in chimney, flue	Timber under hearth	Other fittings	Miscellaneous materials — Coal, coke	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	Row No.
36	Matches	4	15	2	1	95	6	-	26	7	17	3	11	5	-	2	12	125	15	2	4	18	3	5	6	1	4	70	18	6	-	3	1	2	1	1	1	1	1	-	-	44	53	-	589	36
37	Matches, children with (5)	140	216	23	-	10	-	-	8	-	9	1	5	-	1	6	25	531	52	54	11	46	3	27	34	8	14	180	61	7	7	13	36	17	3	33	11	8	-	-	63	1	-	2200	300	3	4167	37
38	Mechanical heat or sparks	2	1	-	3	4	1	-	1	5	4	6	20	-	2	28	39	7	45	1	-	145	10	7	-	-	67	-	2	-	-	1	2	4	-	2	-	-	-	-	3	-	18	-	118	-	545	38
39	Metal, hot	2	-	-	-	-	2	-	2	-	-	4	40	-	-	4	3	4	13	-	2	5	3	3	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	37	1	161	39
40	Naked light (1)(3)	17	19	3	-	15	-	-	4	-	5	1	1	1	-	-	3	43	19	3	-	14	3	5	4	4	5	10	24	-	-	8	3	8	2	8	3	-	-	-	24	-	-	-	53	-	68	-	380	40
41	Oil, blow lamp	1	4	-	-	4	-	-	3	-	26	22	1	6	-	-	10	5	4	-	-	2	-	1	3	1	-	20	1	-	-	2	41	120	287	20	20	71	-	-	22	-	1	-	6	1	80	-	765	41
42	engine (including petrol)	4	8	-	-	-	-	-	3	94	19	9	12	-	-	-	-	2	3	-	-	-	1	11	3	1	-	1	-	-	-	-	3	-	-	-	1	-	-	-	2	-	-	-	-	-	8	-	167	42
43	lamp	2	7	-	-	3	1	1	35	50	12	2	10	-	-	10	1	4	2	-	-	4	1	3	5	1	1	8	3	-	1	1	4	-	2	2	3	3	-	-	3	-	5	-	1	-	21	-	212	43
44	stove	1	6	1	-	1	-	-	849	11	23	8	12	2	6	2	24	31	17	2	15	53	-	3	2	1	4	137	46	41	-	67	4	-	3	18	11	2	-	-	26	-	-	3	3	8	97	2	1542	44
45	tractor	18	13	1	-	-	-	-	8	23	1	1	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-	4	-	-	-	-	1	-	-	-	-	-	-	-	4	-	77	45
46	Oil, other apparatus	6	2	5	-	-	-	3	17	5	-	51	81	1	3	-	9	-	4	-	-	1	1	2	2	-	-	1	1	-	-	2	4	3	1	4	1	5	-	-	5	-	-	3	1	1	12	-	237	46
47	Oxyacetylene cutting and welding apparatus	4	4	1	53	3	-	1	4	5	5	3	33	12	2	31	13	11	17	6	-	-	3	2	4	8	1	1	1	-	6	-	4	5	2	6	4	5	-	-	6	1	2	-	8	-	52	-	329	47
48	Rubbish burning	26	27	12	-	-	-	-	2	-	4	1	3	1	-	3	2	41	37	39	-	3	1	12	4	7	2	2	3	-	-	2	63	263	3	21	16	15	1	-	57	-	1	-	131	-	71	3	879	48
49	Slow combustion stove igniting structural woodwork	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	69	71	17	14	11	59	-	-	-	-	-	-	-	248	49
50	other materials	1	8	4	1	6	9	-	13	6	19	7	8	5	28	4	49	63	136	36	6	109	1	34	23	-	5	17	14	31	-	19	24	-	-	-	-	-	-	-	23	3	9	48	17	118	2	906	50
51	Smoking materials	51	102	14	-	2	-	-	2	5	13	7	6	6	-	4	39	599	175	10	5	194	31	120	77	41	45	501	784	16	26	81	24	69	11	63	11	4	-	-	31	-	2	3	649	2	380	13	4218	51
52	Spontaneous combustion in rubbish	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	4	52
53	other materials	113	3	1	-	-	-	4	-	-	-	-	5	2	-	2	13	1	3	-	-	-	-	3	9	32	-	7	1	-	-	-	2	-	-	-	-	-	-	-	-	6	-	46	-	-	29	1	283	53
54	Static electricity	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	11	54
55	Steam roller, engine, traction engine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55
56	Sun's rays	2	5	2	-	-	-	-	-	-	-	1	-	-	1	8	12	2	-	-	-	2	3	1	-	2	15	5	-	-	4	2	3	1	-	1	-	-	-	2	-	2	-	4	-	20	-	100	56
57	Taper, lighted paper or sticks	1	-	1	-	15	-	-	3	-	3	-	1	2	-	1	4	37	8	3	6	5	1	8	2	-	1	18	10	2	-	3	5	16	4	3	3	1	-	-	-	-	-	1	15	2	44	2	231	57
58	Taper, lighted paper or sticks, children with (5)	-	1	-	-	-	-	-	1	-	-	-	1	1	-	1	1	11	1	1	4	3	-	-	3	1	-	18	17	2	-	2	-	1	1	1	1	-	-	-	1	-	-	-	9	-	9	-	92	58
59	Miscellaneous and undefined (4)	8	11	14	1	4	34	7	3	4	11	9	33	12	6	10	39	28	66	11	1	19	5	7	5	5	7	15	28	3	-	12	14	11	10	39	14	28	2	-	22	5	1	21	36	2	111	4	738	59
60	Unknown source of ignition	54	56	14	3	44	17	2	13	15	21	8	23	6	-	4	65	199	71	14	4	29	20	32	27	14	23	70	89	8	8	33	14	26	8	26	9	8	-	-	38	3	3	9	309	3	236	3736	5414	60
61	Total fires in buildings	522	675	141	63	978	96	139	1185	302	273	189	413	125	78	166	783	2368	1062	213	428	1243	263	400	297	113	267	2356	1975	450	60	745	801	968	392	1019	663	901	472	1244	968	71	3309	2921	3961	380	3259	4125	43822	61

For explanation of notes see page 21

Table 7B

MATERIAL FIRST IGNITED IN FIRES IN HAZARDS OTHER THAN BUILDINGS IN RELATION TO SUPPOSED CAUSE

Reports from England and Wales, 1957

Row No.	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Row No.
	Supposed cause of fire	Material first ignited																																										
		Agriculture and forestry			Chemicals-gases			Chemicals - oils						Chemicals-other				Paper Cardboard, wood not structural			Textiles							Furniture, furnishings, household goods					Building materials, structural woodwork			Miscellaneous materials									
		Crops, ricks and stacks	Loose straw or hay	Other agricultural materials	Acetylene	Coal gas	Other gases	Animal and vegetable oils	Paraffin	Petrol in vehicles	Petrol not in vehicles	Other mineral oils	Oil, waste and undefined	Paint, enamel, lacquer, varnish etc.	Pitch, tar	Rubber, vulcanite, ebonite	Other chemicals, including celluloid and celluloid goods	Paper, cardboard	Wooden packing materials	Timber	Clothing on person	Clothing not on person	Cotton	Jute, hessian, sacking	Rags including oily rags	Tarpaulins, waterproof sheeting, oilskins	Other textiles including canvas and canvas goods	Soft furnishings	Furniture	Linen articles, (unspecified) laundry	Seating in vehicles	Other furnishings	Building materials other than wood	Structural woodwork other than in buildings	Structural woodwork external	Coal, coke	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	
1	Aircraft, crashed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	58	58	1
2	Ashes, soot	3	9	127	-	-	-	-	-	2	-	1	8	2	3	10	3	189	21	20	-	-	4	4	2	3	4	-	-	-	1	-	-	47	-	22	1	1	1066	2	84	1	1640	2
3	Brazier	-	2	5	-	1	-	-	-	-	-	2	3	6	2	3	1	2	1	3	3	-	2	-	-	29	27	-	-	-	-	-	-	3	-	1	-	-	5	-	8	-	114	3
4	Camp fire, fire in open air(1)	-	1	96	-	-	-	-	-	-	1	-	-	-	-	-	1	-	2	2	-	-	-	-	-	-	4	-	-	-	-	-	-	1	-	-	-	-	4	-	2	-	114	4
5	Candle	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	2	1	-	-	-	-	-	2	-	-	-	-	-	-	1	-	12	5
6	Chimney on fire, not confined to chimney	1	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-	8	6
7	Chimney sparks from (outside building)	8	2	13	-	-	-	-	-	-	-	-	-	-	-	1	-	1	6	6	-	1	1	3	1	6	3	-	-	-	-	-	-	1	-	-	-	-	6	-	5	1	65	7
8	Cooker, cooking range, oven, other than electric, coal gas, or oil	-	-	-	-	-	3	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	2	-	-	-	1	-	-	1	-	-	-	8	-	1	-	19	8
9	Electric cooker	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	5	-	-	-	6	9
10	fire, heater, radiator	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	1	1	1	1	1	-	-	3	-	-	2	-	-	-	2	-	16	10
11	motor	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	35	-	-	-	1	-	38	11
12	refrigerator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	1	-	9	12
13	television	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	13
14	wire and cable other than lead to apparatus	-	3	5	-	3	4	-	4	285	13	8	16	-	-	2	3	-	2	-	-	-	1	-	3	3	3	7	-	-	-	16	1	-	33	-	-	1400	-	1	-	69	-	1885	14
15	wire and cable lead to apparatus	-	-	-	-	-	-	-	1	59	1	1	6	-	1	1	2	1	-	-	-	-	-	-	4	-	2	5	-	-	12	2	-	6	-	-	217	-	-	-	18	-	339	15
16	wireless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	2	16
17	other apparatus	-	1	7	1	4	4	1	2	142	11	6	23	1	-	2	9	2	3	-	1	1	2	3	6	6	1	1	-	-	9	2	-	73	-	-	545	-	1	-	51	-	921	17
18	Explosives, fireworks	16	3	192	-	3	-	-	-	4	1	-	2	1	-	-	9	147	2	3	7	1	-	3	3	9	6	1	-	-	5	-	-	12	-	-	-	35	-	32	8	505	18
19	Fish frying range all fuels	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	7	-	19
20	Flue	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	28	-	-	14	-	-	-	-	3	3	1	16	-	1	-	69	-	3	-	1	-	-	9	-	150	20
21	Furnace coal or coke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	21
22	Gas (coal) burner, jet, ring	-	-	-	-	106	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	111	22
23	fire, heater, radiator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23
24	other apparatus	-	-	-	-	177	1	-	1	-	-	-	3	2	1	1	3	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	1	-	-	1	-	7	-	203	24
25	Incubator, brooder (all fuels)	-	5	2	-	-	-	-	2	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	-	-	-	-	-	-	1	-	16	25
26	Intentional burning of grassland, gorse etc.	3	2	406	-	1	-	-	-	-	-	-	1	-	1	1	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	1	1	-	5	-	17	1	458	26
27	Lightning	19	-	45	-	-	2	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	31	-	1	-	4	-	112	27
28	Lime	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	7	-	-	-	-	-	-	3	-	28	28
29	Locomotives, sparks from	208	193	14729	-	3	1	-	-	-	-	2	10	1	3	1	6	18	37	154	2	1	1	10	4	19	9	-	-	-	-	2	3	408	-	1	1	-	135	-	277	-	16239	29
30	Malicious ignition (1) (2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	115	116	30
31	Matches	9	11	291	1	7	11	-	1	22	12	-	1	1	-	-	2	77	4	2	2	1	-	1	4	4	-	-	-	-	-	-	-	3	-	-	-	-	46	-	15	-	533	31
32	Matches children with (5)	233	164	7562	1	15	-	10	-	22	13	4	15	6	3	22	18	518	75	134	2	3	6	24	18	39	25	5	2	-	78	4	2	69	-	-	-	-	3966	-	388	2	13446	32
33	Mechanical heat and sparks	3	3	2	2	40	1	1	-	70	7	10	84	-	1	164	22	1	5	-	-	-	1	1	1	5	1	-	-	-	1	-	-	16	-	-	4	-	1	-	81	3	531	33
34	Metal, hot	-	-	2	1	-	1	-	-	2	-	-	11	-	1	5	3	1	-	5	-	-	2	4	2	1	1	-	-	-	1	1	-	14	-	3	1	-	6	1	12	2	82	34
35	Naked light (1) (3)	18	29	750	-	2	1	-	1	-	5	-	6	-	3	-	-	26	12	8	-	1	1	4	2	11	8	5	-	-	6	1	-	11	-	1	1	-	93	1	43	-	1058	35
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	

For explanation of notes see page 21

Table 7B (Contd.)

MATERIAL FIRST IGNITED IN FIRES IN HAZARDS OTHER THAN BUILDINGS IN RELATION TO SUPPOSED CAUSE

Reports from England and Wales, 1957

Row No.	Supposed cause of fire	Material first ignited: Agriculture and forestry			Chemicals - gases			Chemicals - oils						Chemicals - other				Paper, cardboard, wood, not structural			Textiles						Furniture furnishings, household goods					Building materials, structural woodwork			Miscellaneous material						Row No.
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	
		Crops, ricks and stacks	Loose straw or hay	Other agricultural materials	Acetylene	Coal gas	Other gases	Animal and vegetable oils	Paraffin	Petrol in vehicles	Petrol not in vehicles	Other mineral oils	Oil, waste and undefined	Paint, enamel, lacquer, varnish etc.	Pitch, tar	Rubber, vulcanite, ebonite	Other chemicals, including celluloid and celluloid goods	Paper, cardboard	Wooden packing materials	Timber	Clothing on person	Clothing not on person	Cotton	Jute, hessian, sacking	Rags including oily rags	Tarpaulins, waterproof sheeting, oilskins	Other textiles including canvas and canvas goods	Soft furnishings	Furniture	Linen articles, (unspecified) laundry	Seating in vehicles	Other furnishings	Building materials other than wood	Structural woodwork other than in buildings	Structural woodwork external	Coal, coke	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	
36	Oil, blowlamp	-	1	7	-	4	1	-	1	-	5	-	-	-	-	-	-	-	-	-	1	-	1	1	1	1	5	-	-	-	-	-	5	-	-	1	-	-	-	2	-	37	36
37	engine (including petrol)	2	7	7	-	1	-	-	4	1688	8	55	77	1	1	10	4	11	4	1	-	12	1	45	74	23	14	12	-	-	4	4	-	42	-	-	43	1	1	-	61	2	2220	37
38	lamp	-	-	1	-	3	-	-	65	18	4	-	2	2	-	2	-	-	-	-	-	6	-	8	-	14	16	1	-	-	6	1	-	8	-	-	6	-	3	-	20	-	136	38
39	stove	-	2	21	-	-	2	-	15	-	-	2	4	-	2	-	6	-	1	-	1	-	-	-	-	1	3	6	1	-	-	-	-	6	-	-	-	1	-	-	9	1	84	39
40	tractor	44	24	18	-	-	-	-	33	82	1	7	6	-	-	-	-	-	2	-	-	-	-	1	-	8	4	-	-	-	-	-	-	-	-	-	2	-	-	-	7	-	239	40
41	other apparatus	16	37	22	-	-	-	-	9	23	1	29	21	-	8	1	2	-	-	1	-	-	-	2	1	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	31	-	206	41
42	Oxyacetylene cutting and welding apparatus	1	3	28	14	5	1	-	-	8	1	4	46	3	9	12	15	3	4	34	1	1	5	6	2	12	6	-	-	-	17	4	-	57	-	2	-	1	27	-	57	-	389	42
43	Rubbish burning	117	88	2480	-	2	-	-	1	2	9	3	19	3	4	38	12	61	141	234	8	-	-	17	4	21	10	-	-	-	3	-	1	158	-	8	3	-	1455	-	373	-	5275	43
44	Slow combustion stove igniting structural woodwork	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44
45	other materials	1	-	1	-	1	5	-	1	-	3	2	3	1	95	1	58	1	17	2	-	9	1	5	3	4	1	7	5	-	-	3	-	48	-	-	-	-	-	-	19	1	298	45
46	Smoking materials	82	116	4079	1	7	3	-	1	19	12	-	10	2	4	3	8	204	88	24	2	18	18	59	30	180	65	22	9	1	147	18	-	92	-	-	1	2	828	2	243	1	6401	46
47	Spontaneous combustion in rubbish	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	131	-	-	-	131	47
48	in other materials	224	1	33	-	-	2	-	-	-	1	-	18	-	1	-	39	4	6	1	-	-	1	5	16	-	7	-	-	-	-	1	-	-	-	22	-	9	-	-	26	-	417	48
49	Static electricity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49
50	Steamroller, engine, traction engine	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	50
51	Sun's rays	-	8	244	1	-	-	-	-	-	2	-	4	-	-	-	2	5	7	1	-	1	-	2	1	2	1	-	-	-	-	-	-	2	-	-	1	-	26	-	22	-	332	51
52	Taper, lighted paper or sticks	1	2	29	-	1	-	-	1	1	-	-	-	-	-	1	1	43	2	1	-	-	-	-	1	2	-	-	-	-	-	1	-	2	-	-	-	1	18	-	6	-	114	52
53	Taper, lighted paper or sticks children with (5)	-	-	7	-	-	-	-	1	1	-	-	2	-	1	1	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	3	-	-	-	35	53
54	Miscellaneous and undefined (4)	2	8	25	1	4	15	-	-	2	5	8	11	-	11	4	15	4	5	4	-	2	-	15	6	3	6	1	-	1	3	1	-	23	-	33	2	1	14	-	29	-	264	54
55	Unknown source of ignition	72	56	1607	2	29	8	-	8	96	13	6	15	-	3	15	38	92	40	45	1	6	13	22	9	56	20	9	3	-	32	4	2	54	-	3	2	-	614	-	130	5695	8820	55
56	Total fires other than those in buildings	1084	782	32855	25	418	66	2	168	2552	132	151	430	26	163	301	287	1431	520	688	32	84	57	248	201	477	262	83	22	19	346	54	9	1310	-	101	2308	36	8493	5	2173	5891	64292	56
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	

For explanation of notes see page 21

SECTION II

TABLE 8

METHOD OF EXTINCTION OF FIRES

Reports from England and Wales, 1957

Row No.	Method of extinction	Fires in buildings						Fires other than those in buildings						Total No. of fires		Row No.
		Extinguished by Fire Brigade		Extinguished before arrival of Fire Brigade		Total		Extinguished by Fire Brigade		Extinguished before arrival of Fire Brigade		Total				
		No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	
1	Burned out	-	-	988	0.9	988	0.9	-	-	1542	1.4	1542	1.4	2530	2.3	1
2	Removal	2623	2.4	1148	1.1	3771	3.5	642	0.6	363	0.3	1005	0.9	4776	4.4	2
3	Automatic sprinkler system	-	-	44	-	44	-	-	-	-	-	-	-	44	-	3
4	Beating	60	0.1	218	0.2	278	0.3	10579	9.8	1036	1.0	11615	10.7	11893	11.0	4
5	Smothering	277	0.3	739	0.7	1016	0.9	59	0.1	393	0.4	452	0.4	1468	1.4	5
6	Sand, earth, etc.	59	0.1	157	0.1	216	0.2	114	0.1	245	0.2	359	0.3	575	0.5	6
7	Water from buckets	1941	1.8	3070	2.8	5011	4.6	607	0.6	1048	1.0	1655	1.5	6666	6.2	7
8	Water from stirrup or hand pumps	2456	2.3	39	-	2505	2.3	259	0.2	5	-	264	0.2	2769	2.6	8
9	Chemicals and chemical extinguishers	1631	1.5	1145	1.1	2776	2.6	1598	1.5	942	0.9	2540	2.3	5316	4.9	9
10	Two or more methods 4 - 9	172	0.2	320	0.3	492	0.5	877	0.8	266	0.2	1143	1.1	1635	1.5	10
11	Water from garden hose etc.	-	-	228	0.2	228	0.2	-	-	132	0.1	132	0.1	360	0.3	11
12	Hose reel jets (using water in tank only)	17704	16.4	51	-	17755	16.4	31358	29.0	301	0.3	31659	29.3	49414	45.7	12
13	Hose reel jets (using more water than that in tank)	1914	1.8	9	-	1923	1.8	2179	2.0	8	-	2187	2.0	4110	3.8	13
14	Jets from inside hose reel or inside hydrant	109	0.1	87	0.1	196	0.2	29	-	7	-	36	-	232	0.2	14
15	Hose reel jets and jets from inside hose reel or inside hydrant	19	-	-	-	19	-	4	-	-	-	4	-	23	-	15
16	Jets from pumps and hydrants	5594	5.2	81	0.1	5675	5.2	9098	8.4	221	0.2	9319	8.6	14994	13.9	16
17	Other and undefined methods	392	0.4	537	0.5	929	0.9	121	0.1	259	0.2	380	0.4	1309	1.2	17
18	Total fires attended	34961	32.3	8861	8.2	43822	40.5	57524	53.2	6768	6.3	64292	59.5	108114	100.0	18

Notes on method of extinction -

1. "Removal" includes occurrences where (a) burning material was removed from the building, (b) gas supply was turned off. If the burning material was tackled with methods 3-11 before removing it from the building, then such occurrences were classified under whichever of these methods applied.
2. Methods 11-15 and method 16 include those occurrences in which methods 3-10 and 3-15 respectively may also have been used.
3. "Fires extinguished by Fire Brigade" include those fires which were tackled but not extinguished before the arrival of the Fire Brigade.

SECTION II

Table 9

BEHAVIOUR OF SPRINKLER SYSTEMS AT FIRES

Reports from England and Wales, 1957

Fires in Buildings

Behaviour of sprinklers	Incidents in which the following number of heads were actuated						Total number of incidents
	Nil	1-5	6-10	11-20	More than 20	Number not reported	
Installed but did not operate							
(i) because insufficient heat was generated by the fire	171	-	-	-	-	-	171
(ii) because the seat of the fire was out of range of the sprinklers	7	-	-	-	-	-	7
(iii) because the fire was tackled and extinguished by other means	22	-	-	-	-	-	22
(iv) because the system was closed down for repairs etc.	10	-	-	-	-	-	10
Total	210	-	-	-	-	-	210
Operated, but did not control fire because							
(i) other means were used to extinguish the fire	-	1	1	-	1	1	4
(ii) fire was over the sprinkler heads or not in range of system	-	13	-	2	1	-	16
(iii) system badly maintained	-	2	-	1	-	-	3
(iv) no reason given	-	-	1	-	1	-	2
Total	-	16	2	3	3	1	25
Controlled, but did not extinguish the fire	-	167	23	14	10	6	220
Action of sprinklers not stated	-	-	-	-	-	3	3
Extinguished the fire	-	40	2	1	-	1	44
Number of calls to fires where sprinkler systems were installed	210	223	27	18	13	11	502

Fires not in buildings.

Five outbreaks of fire in ships where sprinkler systems were installed were reported. In each case the heat generated was insufficient to operate the sprinkler heads.

SECTION II

Table 10

PERSONS RESCUED OR ESCAPED BY EMERGENCY MEANS FROM FIRES

Reports from England and Wales, 1957

Appliance or method used	Number of persons
Rescue with Fire Brigade assistance from	
Buildings	
Escape (hand operated)	33
Ladder, extension	106
first floor	1
hook	2
turntable (mechanical)	4
other or undefined	6
Ladder and line	4
Other apparatus	1
Without apparatus	120
Ships	3
Vehicles	-
Total	280
Rescue without F.B. assistance from	
Aircraft	5
Buildings	
Automatic Escape lines	-
Carried or assisted out	168
Jumping sheet	-
Ladder	64
Lowered from windows, roof, etc.	62
Other or undefined methods	10
Road vehicles	10
Ships	8
Caravans	-
Total	327
Escape by emergency means from	
Aircraft	
Baled out	9
Through exits or from debris	-
Thrown clear	6
Method not stated	15
Buildings	
Climbing over roof	7
Fixed fire escape	17
Jumping from upstairs window, roof	180
Ladder	22
Sliding down drainpipe, sheets, rope etc.	31
Through ground floor windows	9
Other or undefined methods	37
Road vehicles	15
Ships	8
Caravans	2
Total	358
Total persons rescued or escaped	965

SECTION II

Table 11

NATURE OF INJURIES OF CASUALTIES IN FIRES

Reports from England and Wales, 1957

Nature of injury	Fire Brigade	Other Casualties	Total
Fatal casualties			
Burns and scalds	-	359	359
Overcome by gas or smoke	-	67	67
Other and undefined injuries	5	13	18
Total	5	439	444
**			
Non-fatal casualties			
Burns and scalds	86	2,067	2,153
Bruises, cuts, abrasions	134	142	276
Dislocations, sprains, fractures	33	29	62
Overcome by gas or smoke	26	100	126
* Shock	2	236	238
Other and undefined injuries	47	53	100
Total	328	2,627	2,955
Total casualties	333	3,066	3,399

** Excludes casualties requiring first-aid treatment only.

Casualties who suffered more than one type of injury have been classified according to the nature of the more serious injury.

* Casualties who suffered shock in addition to another injury have been classified according to the nature of the other injury.

SECTION III

STATISTICAL TABLES FOR FIRE BRIGADES IN SCOTLAND, 1957

Table 1

METHOD OF CALLING FIRE BRIGADES TO FIRES

Reports from Scotland, 1957

Method of calling	Fire Brigade											Total	
	Glasgow	Lanark	Central	Western	South Western	South Eastern	Fife	Perth and Kinross	Angus	North Eastern	Northern	No.	Per cent
By Special Fire Service methods													
Automatic fire alarm	18	1	1	-	-	2	-	-	1	-	-	23	0.2
Fire and police pillar box	16	4	12	4	-	3	-	-	2	1	-	42	0.4
Police telephone	390	73	58	219	47	245	24	5	213	60	28	1,362	14.4
Private fire telephone	12	5	11	16	7	2	-	-	-	-	1	54	0.6
Street fire alarm	190	-	-	-	-	1	1	-	-	-	-	192	2.0
Total	626	83	82	239	54	253	25	5	216	61	29	1,673	17.7
Exchange telephone	1,557	827	524	643	605	1,087	409	218	522	556	192	7,140	75.5
Running call	213	48	30	46	17	46	19	16	32	22	2	491	5.2
Late call	20	5	12	1	12	2	4	1	5	8	-	70	0.7
Other and undefined methods	21	8	4	7	1	20	8	4	3	4	-	80	0.8
Total fires	2,437	971	652	936	689	1,408	465	244	778	651	223	9,454	100.0

SECTION III

Table 2

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED

Reports from Scotland, 1957

Hazard in which fire started	Total	
	No.	Per cent
Fires in buildings classified according to trade or business carried on		
Agriculture		
Farming (not fruit or poultry) and horse and stock rearing	238	2.5
Allotments, market gardening, fruit and poultry farming	43	0.5
Total	281	3.0
Mining, quarrying and treatment of non-metalliferous mine and quarry products (excluding gas works)	24	0.3
Manufacture of bricks, pottery, glass, etc.	7	0.1
Manufacture of chemicals, dyes, explosives, paint, oils		
Chemicals	3	-
Explosives	1	-
Paints, varnish, oils, grease	11	0.1
Miscellaneous	1	-
Total	16	0.2
Manufacture of metals, machines, implements, conveyances		
Smelting, converting, refining, rolling of iron, steel	8	0.1
Extracting, refining, smelting of other metals	6	0.1
Founding, other secondary processes in metal working	33	0.3
Engineering (not marine or electrical)	28	0.3
Electrical installations, cables and apparatus	16	0.2
Construction and repair of vehicles	15	0.2
Shipbuilding and repairing, marine engineering	27	0.3
Cutlery and small tools	2	-
Other metal industries	24	0.3
Total	159	1.7
Manufacture of textiles and textile goods (not dress)		
Cotton	7	0.1
Wool, worsted and shoddy	5	0.1
Silk, natural and artificial	1	-
Other or mixed fibres	16	0.2
Miscellaneous	18	0.2
Textile dyeing, printing, bleaching, finishing	3	-
Total	50	0.5

SECTION III

Table 2 (Contd.)

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED

Reports from Scotland, 1957

Hazard in which fire started	Total	
	No.	Per cent
Fires in buildings classified according to trade or business carried on (contd.)		
Preparation of skins and leather and manufacture of goods of leather and leather substitute (not clothing or footwear)	8	0.1
Manufacture of clothing (not knitted) including footwear	21	0.2
Manufacture of food, drink, tobacco		
Food	68	0.7
Drink	12	0.1
Tobacco, cigars, cigarettes, snuff	-	-
Total	80	0.8
Woodworking: manufacture of cane and basket ware, furniture, fittings		
Woodworking and basket ware	55	0.6
Furniture (not metal or basket)	22	0.2
Fittings	2	-
Total	79	0.8
Paper making: manufacture of stationery and stationery requisites, printing and bookbinding	43	0.5
Building, decorating, contracting; slate and stone cutting and dressing	182	1.9
Rubber and synthetic rubber	6	0.1
Other manufacturing industries	16	0.2
Gas, water, electricity, sewage	29	0.3
Transport and communication		
Railway - stations, etc.	64	0.7
Road - garages, depots, etc.	125	1.3
Water - dock buildings other than warehouses	7	0.1
Air - aerodromes, etc.	3	-
Other communication (post, telephone, wireless)	10	0.1
Total	209	2.2
Commerce		
Departmental stores	20	0.2
Retail shops	390	4.1
Wholesale dealers	61	0.6
Dock and other warehouses	13	0.1
Total	484	5.1

SECTION III

Table 2 (Contd.)

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED

Reports from Scotland, 1957

Hazard in which fire started	Total	
	No.	Per cent
Fires in buildings classified according to trade or business carried on (contd.)		
Offices, Government and other		
Government departments	7	0.1
Local authorities	6	0.1
Other offices	50	0.5
Total	63	0.7
Navy, Army and Air Force establishments	27	0.3
Fire Service establishments	2	-
Professional establishments (other than offices): public institutions		
Educational establishments	64	0.7
Hospitals, homes, etc. for the care of the sick and infirm	26	0.3
Places of worship	26	0.3
Other public and professional services	71	0.8
Total	187	2.0
Places of public entertainment		
Cinemas and theatres	27	0.3
Other places of entertainment	47	0.5
Total	74	0.8
Private residential and personal service (including hotels and catering)		
Private residential houses	992	10.5
Private residential flats and maisonettes	1,837	19.4
Clubs, hotels, restaurants, public houses	243	2.6
Private huts, unoccupied houses, personal service	424	4.5
Total	3,496	37.0
Micellaneous	473	5.0
Undefined	1	-
Total fires in buildings	6,017	63.6

Table 2 (Contd.)

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED

Reports from Scotland, 1957

Hazard in which fire started	Total	
	No.	Per cent
Fires other than those in buildings		
Agriculture and forestry		
Crops, standing or stooked (including hay fields)	18	0.2
Crops, ricks and stacks	210	2.2
Agricultural machinery	33	0.3
Agricultural waste	23	0.2
Other agricultural hazards	22	0.2
Allotments and gardens	24	0.3
Railway embankments	571	6.0
Grassland, heathland	572	6.1
Woods, forests, plantations	87	0.9
Single trees	69	0.7
Felled timber	29	0.3
Total	1658	17.5
Transport and communications		
Aircraft	4	-
Railway rolling stock, etc.	67	0.7
Road vehicles - electrically driven	66	0.7
- oil, petrol or gas driven	454	4.8
- other	4	-
Water vessels - craft on inland waters	5	0.1
- ships in dock	81	0.9
- ships at sea	1	-
- marine structures	20	0.2
Total	702	7.4
Outdoor storage		
Chemicals, explosives, ammunition, oils, grease	34	0.4
Coal and coke	6	0.1
Refuse	257	2.7
Timber	187	2.0
Cotton, metal, packing materials, rubber, etc.	99	1.0
Total	583	6.2
Other outdoor structures	494	5.2
Total fires other than those in buildings	3437	36.4
Total fires attended	9454	100.0

SECTION III

Table 3

FIRES CLASSIFIED ACCORDING TO HAZARDS IN WHICH FIRE STARTED FOR EACH BRIGADE

Reports from Scotland, 1957

Hazard in which fire started	Fire Brigades											Total
	Glasgow	Lanark	Central	Western	South Western	South Eastern	Fife	Perth and Kinross	Angus	North Eastern	Northern	
Fires in Buildings												
Industrial premises	227	73	51	66	46	87	32	12	48	34	15	691
Commercial premises and offices	205	55	44	32	19	78	21	9	43	30	11	547
Transport and public utilities	46	25	25	26	16	29	26	10	10	14	11	238
Dwellings	847	240	192	228	177	513	131	63	203	180	55	2,829
Other buildings	486	162	108	150	135	183	62	50	183	147	46	1,712
Total	1,811	555	420	502	393	890	272	144	487	405	138	6,017
Fires not in buildings												
Agriculture, grassland, forestry	169	208	119	256	198	247	113	60	131	115	42	1,658
Transport	201	68	58	63	54	86	25	22	36	72	17	702
Outdoor storage	99	59	27	65	28	122	27	10	91	40	15	583
Other outdoor hazards	157	81	28	50	16	63	28	8	33	19	11	494
Total	626	416	232	434	296	518	193	100	291	246	85	3,437
Total fires attended	2,437	971	652	936	689	1,408	465	244	778	651	223	454

SECTION III

Table 4

SUPPOSED CAUSE OF FIRES

Reports from Scotland, 1957

Each item in the list of supposed causes of fire given in this table represents a group of causes which have a common source of ignition. In some cases the groups have been divided into sub-groups according to the nature of the material first ignited and in others according to the act with the source of ignition which led to the outbreak of fire. Certain causes were specified for the first time in 1954, the miscellaneous item is therefore not comparable with those for years previous to 1954.

Supposed cause of fire	Fires in buildings		Fires other than those in buildings		Total	
	No.	Per cent	No.	Per cent	No.	Per cent
Aircraft, crashed	-	-	3	-	3	-
Ashes, soot	294	3.1	65	0.7	359	3.8
Brazier	8	0.1	12	0.1	20	0.2
Camp fire, fire in open air (1)	-	-	25	0.3	25	0.3
Candle	46	0.5	1	-	47	0.5
Chimney on fire, not confined to chimney	475	5.0	-	-	475	5.0
Chimney sparks from (outside building)	38	0.4	13	0.1	51	0.5
Cooker, cooking range, oven other than electric, coal gas, or oil (1)	49	0.5	3	-	52	0.6
Electric cooker	141	1.5	-	-	141	1.5
fire, heater, radiator	103	1.1	-	-	103	1.1
iron	42	0.4	-	-	42	0.4
motor	27	0.3	15	0.2	42	0.4
refrigerator	54	0.6	-	-	54	0.6
television	24	0.3	-	-	24	0.3
wire and cable, other than lead to apparatus	216	2.3	155	1.6	371	3.9
wire and cable, lead to apparatus	23	0.2	17	0.2	40	0.4
wireless	40	0.4	1	-	41	0.4
other apparatus	214	2.3	117	1.2	331	3.5
Explosives, fireworks	22	0.2	20	0.2	42	0.4
Fire in grate igniting bedding, clothing, linen	66	0.7	-	-	66	0.7
Fire in grate, igniting furniture, furnishings	167	1.8	-	-	167	1.8
structural timber under hearth	212	2.2	-	-	212	2.2
other materials	255	2.7	-	-	255	2.7
Fish frying range (all fuels)	55	0.6	7	0.1	62	0.7
Flue	64	0.7	7	0.1	71	0.8
Furnace (coal or coke)	3	-	-	-	3	-
Gas (coal) burner, jet, ring	23	0.2	9	0.1	32	0.3
cooker	249	2.6	-	-	249	2.6
fire, heater, radiator	20	0.2	-	-	20	0.2
other apparatus	62	0.7	13	0.1	75	0.8

SECTION III

Table 4 (Contd.)

SUPPOSED CAUSE OF FIRES

Reports from Scotland, 1957

Supposed cause of fire	Fires in buildings		Fires other than those in buildings		Total	
	No.	Per cent	No.	Per cent	No.	Per cent
Incubator brooder (all fuels)	39	0.4	-	-	39	0.4
Intentional burning of grassland, gorse etc.	-	-	16	0.2	16	0.2
Lightning	3	-	1	-	4	-
Lime	1	-	2	-	3	-
Locomotives, sparks from	45	0.5	837	8.9	882	9.3
Malicious ignition(1)(2)	19	0.2	3	-	22	0.2
Matches	83	0.9	36	0.4	119	1.3
Matches, children with(5)	478	5.1	560	5.9	1,038	11.0
Mechanical heat or sparks	37	0.4	46	0.5	83	0.9
Metal, hot	18	0.2	13	0.1	31	0.3
Naked light(1)(3)	214	2.3	99	1.0	313	3.3
Oil, blowlamp	70	0.7	3	-	73	0.8
engine (including petrol)	11	0.1	115	1.2	126	1.3
lamp	17	0.2	3	-	20	0.2
stove	149	1.6	4	-	153	1.6
tractor	11	0.1	37	0.4	48	0.5
other apparatus	21	0.2	14	0.1	35	0.4
Oxyacetylene cutting and welding apparatus	57	0.6	50	0.5	107	1.1
Rubbish burning	88	0.9	199	2.1	287	3.0
Slow combustion stove igniting structural woodwork	43	0.5	-	-	43	0.5
other material	84	0.9	17	0.2	101	1.1
Smoking materials	711	7.5	321	3.4	1,032	10.9
Spontaneous combustion in rubbish	-	-	-	-	-	-
Spontaneous combustion in other materials	19	0.2	10	0.1	29	0.3
Static electricity	-	-	-	-	-	-
Steam roller, engine, traction engine	1	-	2	-	3	-
Sun's rays	9	0.1	17	0.2	26	0.3
Taper, lighted paper or sticks	33	0.4	14	0.1	47	0.5
Taper, lighted paper or sticks, children with(5)	113	1.2	69	0.7	182	1.9
Miscellaneous	115	1.2	42	0.4	157	1.7
Unknown source of ignition	536	5.7	424	4.5	960	10.2
Total fires attended	6,017	63.6	3,437	36.4	9,454	100.0

Notes. (1) Causes specified first time in the Annual Statistical Tables for 1954.
(2) Malicious ignition is a general heading for suspected or proven arson or incendiarism.
(3) No further information given in original reports.
(4) Not comparable with the years prior to 1954.
(5) A change in definition has increased the number of incidents in these catagories.

SECTION III

Table 5A

SUPPOSED CAUSE OF FIRES IN BUILDINGS IN RELATION TO HAZARD IN WHICH FIRE STARTED

Reports from Scotland, 1957

Row No.	Supposed cause of fire	Column No. 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Row No.
		Hazard in which fire started																											
		Agriculture	Mining, quarrying and treatment of non-metalliferous mine and quarry products (excluding gas works)	Manufacture of bricks, pottery, glass, etc.	Manufacture of chemicals, explosives, paints, oils	Manufacture of metals, machines, implements, conveyances	Manufacture of textiles and textile goods (not dress)	Manufacture of clothing (not knitted) including footwear, and goods of leather and leather substitute; preparation of skins and leather	Manufacture of food, drink, tobacco	Woodworking; manufacture of cane and basket ware, furniture, fittings	Paper making; manufacture of stationery and stationery requisites, printing and bookbinding	Building, decorating, contracting, ~~slate and stone cutting and dressing~~	Other manufacturing industries, including rubber and synthetic rubber	Gas, water, electricity, sewage	Transport and communication	Commerce; retail shops, including departmental stores	Commerce; wholesale dealers and warehouses	Offices; Government and other	Navy, Army, Air Force establishments	Fire Service establishments	Professional establishments (other than offices), public institutions	Places of public entertainment	Private residential houses	Private residential flats and maisonettes	Clubs, hotels, restaurants, public houses	Private huts, unoccupied houses, personal service	Miscellaneous and undefined	Total	
1	Ashes, soot	3	1	-	-	2	-	-	1	-	1	-	-	1	1	13	-	3	2	-	13	1	10	46	3	191	2	294	1
2	Brazier	1	2	-	-	1	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	8	2
3	Candle	-	-	-	-	-	-	1	-	-	-	-	-	-	2	2	-	-	-	-	1	-	14	17	3	5	1	46	3
4	Chimney on fire, not confined to chimney	-	-	-	-	-	-	1	1	1	-	3	1	-	-	8	1	4	1	-	4	-	148	287	8	2	5	475	4
5	Chimney, sparks from (outside building)	5	-	-	-	2	-	-	-	1	1	-	1	-	2	-	2	-	-	-	-	1	10	7	3	1	2	38	5
6	Cooker, cooking range, oven, other than electric, coal gas or oil(1)	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	1	-	19	26	1	-	-	49	6
7	Electric, cooker	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	61	76	3	-	-	141	7
8	fire, heater, radiator	-	1	-	-	5	2	2	1	1	1	-	-	-	5	9	2	3	-	-	2	4	29	31	4	1	-	103	8
9	iron	-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	28	1	-	-	42	9
10	motor	1	-	-	1	2	-	-	3	1	-	-	1	-	-	14	-	1	-	-	-	1	1	-	1	-	-	27	10

SECTION III

Table 5A (Contd.)

SUPPOSED CAUSE OF FIRES IN BUILDINGS IN RELATION TO HAZARD IN WHICH FIRE STARTED

Reports from Scotland, 1957

Row No.	Supposed cause of fire	Hazard in which fire started																								Row No.
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
		Agriculture	Mining, quarrying and treatment of non-metalliferous mine and quarry products (excluding gas works)	Manufacture of bricks, pottery, glass, etc.	Manufacture of chemicals, explosives, paints, oils	Manufacture of metals, machines, implements, conveyances	Manufacture of textiles and textile goods (not dress)	Manufacture of clothing (not knitted) including footwear, and goods of leather and leather substitute; preparation of skins and leather	Manufacture of food, drink, tobacco	Woodworking; manufacture of cane and basket ware, furniture, fittings	Paper making; manufacture of station stationery and stationery requisites, printing and bookbinding	Building, decorating, contracting; slate and stone cutting and dressing	Other manufacturing industries, including rubber and synthetic rubber	Gas, water, electricity, sewage	Transport and communication	Commerce; retail shops, including departmental stores	Commerce; wholesale dealers and warehouses	Offices; Government and other	Navy, Army, Air Force establishments	Fire Service establishments	Professional establishments (other than offices), public institutions	Places of public entertainment	Private residential houses	Private residential flats and maisonettes	Clubs, hotels, restaurants, public houses	Private huts, unoccupied houses, personal service	Miscellaneous and undefined	Total	
11	Electric refrigerator	-	-	-	-	1	-	-	2	-	-	-	-	-	-	39	-	-	-	-	2	-	3	-	7	-	-	54	11
12	television	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	16	1	-	-	24	12
13	wire and cable (other than lead to apparatus)	15	-	-	2	4	2	1	2	3	1	2	1	-	12	19	1	3	1	-	7	2	51	75	5	5	2	216	13
14	wire and cable (lead to apparatus)	-	-	-	-	1	1	-	-	1	1	-	-	-	4	3	2	-	-	-	1	-	5	4	-	-	-	23	14
15	wireless	-	-	-	-	-	-	-	-	1	-	-	-	-	1	1	-	-	-	-	2	-	18	18	-	-	-	40	15
16	other apparatus	8	-	-	1	10	5	1	4	2	2	3	2	6	11	24	2	3	1	2	7	2	54	47	13	3	1	214	16
17	Explosives, fireworks	-	-	-	-	1	-	-	-	2	-	1	-	-	-	3	-	-	-	-	1	3	1	5	-	2	3	22	17
18	Fire in grate, igniting bedding, clothing linen	-	1	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-	-	-	1	-	26	34	-	-	1	66	18
19	furniture and furnishings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	2	-	-	1	-	73	87	1	-	-	167	19
	structural timber under																												

20	structural timber under hearth	-	-	-	-	-	-	-	-	-	-	1	-	-	-	3	-	4	-	-	2	1	45	150	6	-	-	212	20
21	other materials	3	1	-	-	1	-	1	-	1	2	2	-	-	3	14	3	3	-	-	6	2	63	142	5	3	-	255	21
22	Fish frying range (all fuels)	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	48	-	-	55	22
23	Flue	3	-	-	-	4	-	-	3	4	-	10	-	-	2	4	1	1	3	-	10	2	9	1	6	1	-	64	23
24	Furnace (coal or coke)	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	24
25	Gas (coal) burner, jet, ring	-	-	-	1	1	-	1	1	-	-	-	-	-	-	6	1	-	-	-	2	-	1	7	2	-	-	23	25
26	cooker	-	-	-	-	-	1	-	-	1	-	-	-	-	1	5	-	-	-	-	3	-	46	172	19	1	-	249	26
27	fire, heater, radiator	-	-	-	-	-	2	1	-	-	-	-	-	-	-	5	1	-	-	-	2	-	2	3	3	-	1	20	27
28	other apparatus	-	-	-	2	9	-	-	2	-	-	-	-	1	1	21	-	-	-	-	3	-	2	17	3	1	-	62	28
29	Incubator, brooder (all fuels)	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	39	29
30	Intentional burning of grassland, gorse, etc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
31	Lightning	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	3	31
32	Lime	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	32
33	Locomotives, sparks from	-	2	-	-	-	-	-	-	2	-	2	-	-	29	-	1	-	-	-	-	-	1	1	-	1	6	45	33
34	Malicious ignition(1)(2)	5	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	-	-	-	1	-	2	3	1	2	2	19	34
35	Matches	8	-	-	1	-	1	-	-	2	1	4	-	-	6	4	1	2	-	-	2	2	16	24	2	5	2	83	35
36	Matches, children with(5)	37	-	-	-	1	-	-	2	1	1	21	-	-	10	19	4	3	1	-	13	4	27	52	6	37	239	478	36
37	Mechanical heat or sparks	-	2	-	2	3	10	2	6	1	1	-	3	1	-	2	2	-	-	-	-	-	-	-	-	2	-	37	37
38	Metal, hot	-	-	-	-	10	-	-	-	-	-	1	1	1	-	-	-	1	-	-	1	-	-	2	-	-	1	18	38
39	Naked light(1)(3)	14	-	1	-	7	-	1	-	5	2	10	-	1	12	15	4	3	-	-	8	3	13	29	8	31	47	214	39
40	Oil, blow lamp	-	-	-	-	-	-	-	-	1	-	5	-	-	3	2	-	1	1	-	2	-	35	12	4	3	1	70	40
41	engine (including petrol)	3	-	-	-	-	-	-	-	-	-	-	-	1	1	-	1	-	-	-	-	-	1	-	1	3	-	11	41
42	lamp	4	-	-	-	-	-	-	1	-	-	-	-	-	7	-	-	-	-	-	-	-	2	-	-	3	-	17	42
43	stove	-	2	-	-	1	-	-	-	1	-	5	-	-	8	12	1	-	9	-	1	-	40	60	2	7	-	149	43
44	tractor	9	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	11	44
45	other apparatus	2	1	-	-	6	-	-	2	-	-	-	1	-	1	-	-	-	1	-	1	1	1	-	1	2	1	21	45
46	Oxyacetylene cutting & welding apparatus	1	1	1	-	13	1	-	2	-	4	14	1	4	4	3	1	-	-	-	2	-	1	-	1	-	3	57	46
47	Rubbish burning	4	-	-	-	5	-	-	2	1	1	18	-	-	5	7	2	1	-	-	3	1	1	1	2	8	26	88	47
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	

For explanation of notes see page 21

SECTION III

Table 5A (Contd.)

SUPPOSED CAUSE OF FIRES IN BUILDINGS IN RELATION TO HAZARD IN WHICH FIRE STARTED

Reports from Scotland, 1957

Row No.	Supposed cause of fire	Hazard in which fire started																									Row No.
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
48	Slow combustion stove lighting structural woodwork	4	2	-	-	5	1	1	1	2	2	6	1	1	2	4	-	2	-	-	7	1	5	-	2	1	1	2	43	48
49	other materials	5	1	1	2	1	1	1	1	5	1	10	2	1	1	14	3	2	3	-	9	-	4	1	4	4	-	-	84	49
50	Smoking materials	18	-	1	-	30	11	7	17	11	14	20	1	2	28	69	20	17	2	-	24	32	57	245	144	25	16	-	711	50
51	Spontaneous combustion in rubbish	1	1	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	4	51
52	in other materials	4	1	1	1	1	1	1	1	-	-	-	1	2	-	3	-	1	-	-	-	-	-	1	-	1	1	-	19	52
53	Static electricity	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2	53
54	Steam roller, engine, traction engine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	54
55	Sun's rays	1	-	-	-	-	-	-	-	-	1	1	-	-	1	1	-	-	-	-	-	-	2	-	-	2	-	-	9	55

56	Taper, lighted paper or sticks	1	-	-	-	1	1	-	-	1	-	-	-	-	2	3	1	-	-	-	1	-	8	8	1	5	-	33	56
57	Taper, lighted paper or sticks, children with(5)	4	-	-	-	2	-	-	1	1	-	8	-	1	6	9	2	-	-	-	3	-	1	24	-	12	39	113	57
58	Miscellaneous and undefined(4)	7	2	1	1	10	2	1	12	9	2	5	3	5	2	4	2	-	-	-	2	1	20	13	3	3	5	115	58
59	Unknown source of ignition	72	4	2	2	16	8	5	9	16	4	24	3	2	30	39	11	5	1	-	34	10	45	65	15	51	63	536	59
60	Total fires in buildings	281	24	7	16	159	50	29	80	79	43	182	22	29	209	410	74	63	27	2	187	74	992	1837	243	424	474	6017	60
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	

For explanation of notes see page 21

SECTION III

Table 5B

SUPPOSED CAUSE OF FIRES OTHER THAN THOSE IN BUILDINGS IN RELATION TO HAZARD IN WHICH FIRE STARTED

Reports from Scotland, 1957

Row No.	Supposed cause of fire	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Row No.
		Hazard in which fire started											Transport and communications					Outdoor storage							
			Crops	Agricultural machinery	Agricultural waste	Agricultural, other	Gardens and allotments	Railway embankments	Grassland, heathland	Woods, forests, plantations	Single trees	Felled timber	Air	Rail	Road-oil, petrol or gas driven vehicles	Road - other vehicles	Water	Chemicals, explosives, ammunition, oils, grease	Coal and coke	Refuse	Timber	Other materials	Miscellaneous outdoor structures	Total	
1	Aircraft crashed		-	-	-	-	-	-	2	-	-	-	3	1	-	-	-	-	-	33	4	4	2	65	1
2	Ashes, soot		1	-	1	-	-	1	-	-	-	1	-	2	13	1	1	1	-	-	-	1	8	12	2
3	Brazier		1	-	-	-	-	-	9	8	3	3	-	-	-	1	-	-	-	-	1	-	-	25	3
4	Camp fire, fire in open air (1)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	4
5	Candle		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	1	4	13	5
6	Chimney on fire, not confined to chimney		5	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
7	Chimney, sparks from (outside building)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	3	7
8	Cooker, cooking range, oven, other than electric, coal gas or oil (1)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
9	Electric cooker		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
10	fire, heater, radiator		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	15	10
11	Electric motor		-	-	-	-	-	-	-	-	-	-	-	-	1	9	-	-	-	-	-	-	-	-	11
12	refrigerator		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	155	12
13	wire and cable other than lead to apparatus		-	9	-	-	-	-	-	-	-	-	-	-	105	17	4	1	-	-	-	-	1	17	13
14	wire and cable lead to apparatus		-	1	-	-	-	-	-	-	-	-	-	-	14	1	-	-	-	-	-	-	-	1	14
15	wireless		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	15

16	Electric, other apparatus	-	1	-	-	-	-	-	1	-	-	-	-	26	32	12	-	-	-	-	-	45	117	16
17	Explosives, fireworks	2	-	-	-	-	-	3	-	2	-	-	-	-	-	-	-	1	-	-	1	11	20	17
18	Fish frying range (all fuels)	-	-	-	-	-	-	-	-	-	-	-	-	6	-	1	-	-	-	-	-	-	7	18
19	Flue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	4	7	19
20	Furnace (coal or coke)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
21	Gas (coal) burner, jet, ring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	21
22	fire, heater, radiator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
23	other apparatus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	12	13	23
24	Incubator, brooder, (all fuels)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
25	Intentional burning of grassland, gorse, etc.	3	-	-	-	1	2	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	16	25
26	Lightning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	26
27	Lime	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	2	27
28	Locomotives, sparks from	15	-	1	6	4	547	90	5	-	2	-	35	2	-	-	1	-	3	26	4	96	837	28
29	Malicious ignition (1) (2)	2	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	3	29
30	Matches	2	-	1	-	-	-	12	-	1	-	-	-	1	-	1	3	-	3	-	3	9	36	30
31	Matches children with (5)	63	-	2	3	5	10	162	19	35	7	-	2	21	-	1	7	1	123	32	21	46	560	31
32	Mechanical heat or sparks	-	-	-	-	-	-	-	-	-	-	1	1	35	1	-	1	-	-	1	-	6	46	32
33	Metal hot	-	-	-	1	-	-	-	-	-	-	-	1	1	-	7	-	-	-	1	-	2	13	33
34	Naked light (1) (3)	5	-	-	-	3	1	30	2	2	1	-	3	7	-	3	2	1	5	12	5	17	99	34
35	Oil blow lamp	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	1	3	35
36	engine (including petrol)	-	-	-	-	-	-	-	-	-	-	-	-	107	-	2	-	-	-	1	1	4	115	36
37	lamp	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	3	37
38	stove	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	2	4	38
39	tractor	16	16	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	37	39
40	other apparatus	1	1	-	1	1	-	2	-	-	-	-	-	2	-	1	-	-	-	-	-	5	14	40
41	Oxyacetylene cutting and welding apparatus	-	-	-	-	-	-	1	-	-	-	-	-	4	-	20	2	-	1	5	3	14	50	41
42	Rubbish burning	23	2	9	4	5	1	29	17	5	12	-	1	6	-	-	1	-	27	39	9	9	199	42
43	Slow combustion stove igniting structural woodwork	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43
44	stove other materials	-	-	1	-	-	-	-	-	-	-	-	-	1	-	3	1	-	-	-	-	11	17	44
45	Smoking materials	21	-	2	5	3	1	89	13	1	1	-	9	44	5	19	1	-	19	21	20	47	321	45
46	Spontaneous combustion in rubbish	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46
47	in other materials	1	-	1	-	-	-	-	-	-	-	-	-	1	-	1	3	1	1	-	1	-	10	47
48	Static electricity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48
49	Steam roller, engine, traction engine	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	2	49
50	Sun's rays	2	-	-	-	1	-	8	1	-	-	-	-	2	-	-	-	-	1	1	1	-	17	50
51	Taper, lighted paper or sticks	1	-	-	-	-	-	2	-	2	-	-	-	1	-	-	-	-	1	1	2	4	14	51
52	Taper, lighted paper or sticks children with (5)	1	1	-	1	-	1	7	-	1	-	-	4	3	-	1	1	-	3	7	2	36	69	52
53	Miscellaneous and undefined (4)	1	1	-	-	-	-	2	1	1	-	-	1	1	-	12	4	-	-	3	1	14	42	53
54	Unknown source of ignition	62	1	5	1	1	7	112	19	16	2	-	8	41	2	12	2	2	36	30	19	46	424	54
55	Total fires other than those in buildings	228	33	23	22	24	571	572	87	69	29	4	67	454	70	107	34	6	257	187	99	494	3437	55
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	

(For explanation of notes see page 21)

SECTION III

Table 6

MATERIAL FIRST IGNITED IN FIRES

Reports from Scotland, 1957

Material first ignited	Fires in buildings		Fires other than those in buildings		Total	
	No.	Per cent	No.	Per cent	No.	Per cent
Agriculture and Forestry						
Crops, ricks, stacks						
Barley	2	-	2	-	4	-
Hay	27	0.3	42	0.4	69	0.7
Straw	20	0.2	44	0.5	64	0.7
Stubble	-	-	2	-	2	-
Other	10	0.1	39	0.4	49	0.5
Loose straw or hay	92	1.0	83	0.9	175	1.9
Grass, heather, bracken	6	0.1	928	9.8	934	9.9
Trees, hedges, undergrowth brushwood, bushes, (including gorse), twigs, touchwood	1	-	322	3.4	323	3.4
Other agricultural materials	3	-	27	0.3	30	0.3
Total	161	1.7	1489	15.8	1650	17.5
Chemicals - gases						
Acetylene	7	0.1	5	0.1	12	0.1
Coal gas	193	2.0	32	0.3	225	2.4
Other gases	9	0.1	12	0.1	21	0.2
Total	209	2.2	49	0.5	258	2.7
Chemicals - oils						
Animal and vegetable oils	3	-	-	-	3	-
Mineral oil						
Paraffin	133	1.4	11	0.1	144	1.5
Petrol in vehicles	25	0.3	142	1.5	167	1.8
Petrol not in vehicles	35	0.4	10	0.1	45	0.5
Other mineral oils	14	0.1	9	0.1	23	0.2
Oil, waste and undefined	41	0.4	47	0.5	88	0.9
Total	251	2.7	219	2.3	470	5.0
Chemicals - other						
Celluloid (including films)	1	-	-	-	1	-
Paint, enamel, lacquer, varnish, stains and French polish	6	0.1	1	-	7	0.1
Pitch, tar	11	0.1	14	0.1	25	0.3
Rubber, vulcanite, ebonite	15	0.2	29	0.3	44	0.5
Other chemicals	62	0.7	25	0.3	87	0.9
Total	95	1.0	69	0.7	164	1.7
Paper, cardboard, wood (not part of a structure)						
Paper, cardboard	358	3.8	132	1.4	490	5.2
Wood chippings, flour, sawdust, shavings, wool	78	0.8	43	0.5	121	1.3
Wood barrels, boxes, cases, firewood, etc.	84	0.9	13	0.1	97	1.0
Timber	46	0.5	107	1.1	153	1.6
Total	566	6.0	295	3.1	861	9.1

SECTION III

Table 6 (Contd.)

MATERIAL FIRST IGNITED IN FIRES

Reports from Scotland, 1957

Material first ignited	Fires in buildings		Fires other than those in buildings		Total	
	No.	Per cent	No.	Per cent	No.	Per cent
Textiles						
Canvas and canvas goods	15	0.2	27	0.3	42	0.4
Clothing on person	13	0.1	-	-	13	0.1
Clothing not on person	170	1.8	7	0.1	177	1.9
Cotton	6	0.1	2	-	8	0.1
Jute, hessian, sacking	75	0.8	38	0.4	113	1.2
Rags (including oily rags)	38	0.4	18	0.2	56	0.6
Tarpaulin, waterproof sheeting, oilskins	8	0.1	51	0.5	59	0.6
Other textiles	21	0.2	3	-	24	0.3
Total	346	3.7	146	1.5	492	5.2
Furniture, furnishings, household goods						
Bedding	183	1.9	3	0	186	2.0
Carpets, rugs	58	0.6	2	-	60	0.6
Curtains	69	0.7	-	-	69	0.7
Furniture	309	3.3	2	-	311	3.3
Linen articles (unspecified), laundry	12	0.1	-	-	12	0.1
Seating in vehicles	7	0.1	28	0.3	35	0.4
Other furnishings	110	1.2	3	0	113	1.2
Total	748	7.9	38	0.4	786	8.3
Building materials, structural woodwork						
Building materials other than wood	121	1.3	1	-	122	1.3
Structural woodwork						
External	120	1.3	-	-	120	1.3
Internal						
Door, window frame	71	0.8	-	-	71	0.8
Floor, stairs	194	2.1	-	-	194	2.1
Partitions, linings to walls	99	1.0	-	-	99	1.0
Roof	203	2.1	-	-	203	2.1
Timber in chimney, flue	44	0.5	-	-	44	0.5
Timber under hearth	226	2.4	-	-	226	2.4
Other fittings	229	2.4	-	-	229	2.4
Not known whether internal or external	21	0.2	-	-	21	0.2
Structural woodwork hazards other than buildings	-	-	185	2.0	185	2.0
Total	1328	14.1	186	2.0	1514	16.0
Miscellaneous						
Coal, coke	16	0.2	7	0.1	23	0.2
Electrical insulation	302	3.2	199	2.1	501	5.3
Fat (margarine, suet, butter, cooking fat, lard)	328	3.5	5	0.1	333	3.5
Food other than fat	110	1.2	1	-	111	1.2
Refuse, rubbish, debris	650	6.9	292	3.1	942	10.0
Soot	41	0.4	1	-	42	0.4
Other	453	4.8	163	1.7	616	6.5
Unknown	413	4.4	278	2.9	691	7.3
Total fires attended	6017	63.6	3437	36.4	9454	100.0

Row No.	Supposed cause	Building materials, structural woodwork							Miscellaneous materials								Row No.
		Doors, window frames	Floors, stairs	Partitions, lining to walls	Roof	Timber in chimney, flue	Timber under hearth	Other fittings	Coal, coke	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	
	Column No	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
1	Ashes, soot	1	8	-	1	-	-	6	5	-	-	200	1	14	-	294	1
2	Brazier	-	2	-	2	-	-	1	-	-	-	-	-	1	-	8	2
3	Candle	-	-	-	1	-	-	1	-	-	-	2	-	15	-	46	3
4	Chimney on fire not	7	40	29	102	25	10	111	-	-	-	5	1	17	1	475	4
5	Chimney sparks from	-	-	-	1	-	-	1	-	-	-	1	-	3	-	38	5
6	Cooker, cooking rang electric, coal gas	-	2	-	-	-	-	-	-	-	35	-	-	1	-	49	6
7	Electric cooker	-	5	2	-	-	-	1	-	-	133	-	-	3	-	141	7
8	fire, heater, r	-	5	1	-	-	-	1	-	3	1	-	-	13	-	103	8
9	iron	1	5	1	-	-	-	-	-	1	-	-	-	7	-	42	9
10	motor	-	-	-	-	-	-	-	-	22	1	-	-	1	-	27	10
11	refrigerator	-	-	-	-	-	-	-	-	49	-	-	-	2	-	54	11
12	television	-	-	-	-	-	-	-	-	17	-	-	-	-	-	24	12
13	wire and cable apparatus)	-	3	3	3	-	-	5	-	59	-	-	-	19	1	216	13
14	wire and cable	-	1	-	-	-	-	-	-	13	-	-	-	2	-	23	14
15	wireless	-	-	-	-	-	-	-	-	28	-	-	-	1	-	40	15
16	other apparatu	-	2	1	-	-	-	4	-	102	-	1	-	26	-	214	16
17	Explosives, firework	3	-	2	-	-	-	-	-	-	-	-	-	3	-	22	17
18	Fire in grate, ignit clothing, linen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	66	18
19	furniture and fu	-	-	-	-	-	-	-	-	-	-	-	-	-	-	167	19
20	structural timbe	-	-	-	-	-	212	-	-	-	-	-	-	-	-	212	20
21	other materials	4	32	14	25	17	-	31	-	-	4	4	34	23	-	255	21
22	Fish frying range (a	-	-	-	-	-	1	-	-	-	41	-	-	1	-	55	22
23	Flue	2	3	7	20	-	-	6	1	-	-	-	-	10	-	64	23
24	Furnace (coal or cok	-	-	-	-	-	-	-	-	-	-	-	-	2	-	3	24
25	Gas (coal) burner, j	-	1	2	-	-	-	-	-	-	5	-	-	1	-	23	25
26	cooker	-	8	-	-	-	-	-	-	-	188	-	-	1	-	249	26
27	fire, heater	-	2	-	-	-	-	1	-	-	-	2	1	3	-	20	27
28	other appara	-	2	2	-	-	1	1	-	-	17	-	-	3	-	62	28
29	Incubator, brooder (	-	2	2	-	-	-	4	-	-	-	-	-	3	-	39	29
30	Intentional burning gorse, etc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
31	Lightning	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	31
32	Lime	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	32
33	Locomotives, sparks	-	-	1	-	-	-	4	-	-	-	-	-	2	-	45	33
34	Malicious ignition (	-	-	-	-	-	-	-	-	-	-	-	-	-	19	19	34
35	Matches	-	-	-	1	-	-	-	-	-	-	3	-	12	-	83	35
	Column No	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	

UPPOSED CAUSE

27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Row No.
d																						
niture shings ld goods					Building materials, structural woodwork									Miscellaneous materials								
[illegible]	Furniture	Linen articles, (unspecified) laundry	Seating in vehicles	Other furnishings	Building materials other than wood	Structural woodwork, external	Doors, window frames	Floors, stairs	Partitions, lining to walls	Roof	Timber in chimney, flue	Timber under hearth	Other fittings	Coal, coke	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	
5	6	1	-	3	1	3	2	5	3	1	-	-	9	-	-	-	216	-	45	-	478	36
-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	3	-	-	10	-	37	37
-	1	-	-	1	-	-	-	-	-	1	-	-	-	-	1	-	2	-	3	-	18	38
5	5	2	1	3	-	2	2	5	1	3	-	-	8	-	-	-	63	-	24	2	214	39
2	-	-	-	-	3	9	26	2	3	14	-	-	2	-	-	-	-	-	4	-	70	40
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	11	41
1	1	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	2	-	17	42
0	1	-	-	7	-	-	-	3	1	1	-	-	2	-	-	-	-	1	4	1	49	43
-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	11	44
-	-	-	-	-	-	2	-	-	-	1	-	-	1	-	-	1	-	-	1	-	21	45
-	-	-	-	-	2	-	3	4	-	2	-	-	3	-	-	-	1	-	13	-	57	46
-	-	-	-	-	3	20	2	7	1	7	1	-	5	-	-	-	16	-	4	-	88	47
-	-	-	-	-	-	-	-	14	9	8	1	2	9	-	-	-	-	-	-	-	43	48
1	1	-	-	-	7	-	-	-	-	-	-	-	-	-	2	2	2	3	16	-	84	49
2	103	1	3	17	4	5	4	15	1	-	-	-	4	-	-	-	63	-	82	-	711	50
-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	51
-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	19	52
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	54
1	-	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	1	-	9	55
2	2	-	1	-	-	-	1	1	1	1	-	-	2	-	-	-	2	-	6	-	33	56
3	3	-	-	-	3	7	3	7	2	1	-	-	9	1	-	-	35	-	10	-	113	57
1	4	-	-	1	-	2	8	5	8	7	-	-	9	3	1	6	4	-	16	-	115	58
3	7	-	1	3	1	4	2	6	2	-	-	-	7	-	2	1	28	-	19	389	536	59
0	309	12	7	110	121	120	71	194	99	203	44	226	250	16	302	438	650	41	453	413	6017	60
27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	

Row No.	Supp	Col 23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Row No.
		ted																				
		les				Furniture, furnishings, household goods					Building materials, structural woodwork			Miscellaneous material								
		Jute, hessian, sacking	Rags, including oily rags	Tarpaulins, waterproof sheeting, oilskins	Other textiles including canvas and canvas goods	Soft furnishings	Furniture	Linen articles, (unspecified), laundry	Seating in vehicles	Other furnishings	Building materials other than wood	Structural woodwork other than in buildings	Structural woodwork external	Coal, coke	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	
1	Aircraft, cra		1	1								1								3	3	1
2	Ashes, soot			4	3							1					37	1	6	1	65	2
3	Brazier																		1	1	12	3
4	Camp fire, fi																		1		25	4
5	Candle																		1		1	5
6	Chimney on fi																					6
7	Chimney spark	1										1							2		13	7
8	Cooker, cooki electric, co																		1		3	8
9	Electric cook																					9
10	fire,																					10
11	moto														13						15	11
12	refri																					12
13	wire appa			1					2			5			111				13		155	13
14	wire											1			9				1		17	14
15	wirel																		1		1	15
16	other	2	1	1	1				2			14			62		1		8		117	16
17	Explosives,																1				20	17
18	Fish frying															5					7	18
19	Flue			1								4		1							7	19
20	Furnace coal																					20
21	Gas (coal) bu																				9	21
22	fi																					22
23	ot																				13	23
24	Incubator, b																					24
25	Intentional																				16	25
26	Lightning											1									1	26
27	Lime			2																	2	27
28	Locomotives,	1	1	5	3							73					5		24		837	28
29	Malicious ig																			3	3	29
30	Matches	1	1		1												3		1		36	30
31	Matches, chi	3	1	6	2	1			4			4					156		16	1	560	31
32	Mechanical h	2		1	1							1							7	1	46	32
33	Metal, hot	1			1							5							2		13	33
34	Naked light	2							2			11		1			7		5	2	99	34
35	Oil, blowlam																		1		3	35
	Col	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	

POSED CAUSE

Row No.	Supp	Col 23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	Row No.
		s				Furniture, furnishings, household goods					Building materials, structural woodwork			Miscellaneous material								
		Sacking, hessian, sacking	Rags, including oily rags	Tarpaulins, waterproof sheeting, oilskins	Other textiles including canvas and canvas goods	Soft furnishings	Furniture	Linen articles, (unspecified) laundry	Seating in vehicles	Other furnishings	Building materials other than wood	Structural woodwork other than in buildings	Structural woodwork external	Coal, coke,	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	
36	Oil, engine (1	-	4	4	4	-	-	-	1	-	-	4	-	-	1	-	-	-	7	-	115	36
37	lamp	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	37
38	stove	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	4	38
39	tractor	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	37	39
40	other app	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	14	40
41	Oxyacetylene c	-	-	1	2	-	-	-	-	-	-	7	-	-	1	-	2	-	5	-	50	41
42	Rubbish burnin	-	2	1	-	-	-	-	-	-	-	7	-	-	-	-	26	-	12	1	199	42
43	Slow combustic woodwork	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43
44		-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	17	44
45	Smoking mater	4	18	7	3	1	-	15	3	1	22	-	-	-	-	-	22	-	23	-	321	45
46	Spontaneous cc	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	46
47		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	10	47
48	Static electri	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48
49	Steamroller, e	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	49
50	Sun's rays	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	50
51	Taper, lighted	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	14	51
52	Taper, lighted with	-	2	1	-	-	-	-	-	-	-	15	-	-	-	-	38	-	5	-	69	52
53	Miscellaneous	-	-	2	1	1	1	-	2	-	-	2	-	3	-	-	1	-	7	-	42	53
54	Unknown source	4	1	-	-	-	-	-	-	-	-	4	-	-	-	-	23	-	8	266	424	54
55	Total fires ot	18	51	30	5	2	-	28	3	1	185	-	7	199	6	292	1	163	278	3437	55	
	Col	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	19	40	41	42	

SECTION III

Table 7A

MATERIAL FIRST IGNITED IN FIRES IN BUILDINGS IN RELATION TO THE SUPPOSED CAUSE

Reports from Scotland, 1957

Row No.	Supposed cause of fire	Material first ignited																																																Row No.
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
		Agriculture and forestry			Chemicals-gases			Chemicals - oils						Chemicals - other				Paper cardboard, wood not structural			Textiles							Furniture Furnishings household goods					Building materials, structural woodwork										Miscellaneous materials								
		Crops, ricks and stacks	Loose straw or hay	Other agricultural material	Acetylene	Coal gas	Other gases	Animal and vegetable oils	Paraffin	Petrol in vehicles	Petrol not in vehicles	Other mineral oils	Oil, waste and undefined	Paint, enamel, lacquer, varnish, etc.	Pitch, tar	Rubber, vulcanite, ebonite	Other chemicals, including celluloid and celluloid goods	Paper, cardboard	Wooden packing materials	Timber	Clothing, on person	Clothing not on person	Cotton	Jute, hessian, sacking	Rags, including oily rags	Tarpaulins, waterproof sheeting, oilskins	Other textiles including canvas and canvas goods	Soft furnishings	Furniture	Linen articles, (unspecified) laundry	Seating in vehicles	Other furnishings	Building materials other than wood	Structural woodwork, external	Doors, window frames	Floors, stairs	Partitions, lining to walls	Roof	Timber in chimney, flue	Timber under hearth	Other fittings	Coal, coke	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	
1	Ashes, soot	1															1	31	11	1								2	1			3		4		1	8		1		6	5			200	1	14		294	1
2	Brazier																	1	1			2						6	3			1	1			2		2		1					1		8	2
3	Candle																1	3	3			4		1														1						2		15		46	3
4	Chimney on fire not confined to chimney					2	2											1	1			2						22	3			6	75	10	7	40	29	102	25	10	111				5	1	17	1	475	4
5	Chimney sparks from (outside building)	1	2																4			2											4	21				1			1					1		3		38	5
6	Cooker, cooking range, oven (other than electric, coal gas or oil) (1)						3							1		1	1	3			2																							35			1		49	6
7	Electric cooker																	1			3																							133			3		141	7
8	fire, heater, radiator					2					3						3	4			3	12		1				29	11	2		7	1			5	2			1		3	1		13		103	8
9	iron					2												1			1							2	8	1		12				1	5	1				1			7		42	9
10	motor											3																														22	1		1		27	10
11	refrigerator																1		1								1																49			2		54	11
12	television																												7														17					24	12
13	wire and cable (other than lead to apparatus)				114			4	2		1										1											1		3	3	3			5		59			19	1	216	13
14	wire and cable (lead to apparatus)				1			2									1	1	1			1	1											1								13			2		23	14
15	wireless																						11																				28			1		40	15
16	other apparatus		1		9			2	1	1	4	1		2	5	2	5		6	1	3	1		5	22	2		1	3	1			2	1				4		102		1	26		214	16
17	Explosives, fireworks				2						1				1	3			1						2				1		3	3		2									3		22	17
18	Fire in grate, igniting bedding, clothing, linen																				6	36						17		4		3														66	18
19	furniture and furnishings																											25	124			18														167	19
20	structural timber under hearth																																							212							212	20
21	other materials		1		5	1		7		6	3						3	25	10	1					1		1					3		4	32	14	25	17		31			4	4	34	23		255	21
22	Fish Frying range (all fuels)																	12														1							1			41			1		55	22
23	Flue				1							1						1	2	1				2								1	6		2	3	7	20		6	1				10		64	23
24	Furnace (coal or coke)																			1																										2		3	24
25	Gas (coal) burner, jet, ring				5												2		2		1	1						1				2			1	2						5			1		23	25
26	cooker				4					2		1	1	1	1	4	1	2			7							16	1	1		10			8							188			1		249	26
27	fire, heater, radiator				3											2	2	1		1	2														2				1				2	1	3		20	27
28	other apparatus				12		1	1		2	2	1	1	1	2	1			2		2			2	3						5			2	2			1	1		17			3		62	28
29	Incubator, brooder (all fuels)		12	1				7				1						7																2	2				4					3		39	29
30	Intentional burning of grassland, gorse, etc.																																															30
31	Lightning		1		1																																								1		3	31
32	Lime		1																																												1	32
33	Locomotives, sparks from		1	2														1						1		11		1				4	27			1				4					2		45	33
34	Malicious ignition (1) (2)																																													19	19	34
35	Matches	2	4			8			5	1	5	1					3	17	2	1		3		2	3			5	3			2					1					3		12		83	35
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	

For explanation of notes see page 21

SECTION III

Table 7A (Contd.)

MATERIAL FIRST IGNITED IN FIRES IN BUILDINGS IN RELATION TO THE SUPPOSED CAUSE

Reports from Scotland, 1957

Row No.	Supposed cause of fire	Material first ignited																																										Row No.
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	
		Agricultural and Forestry			Chemicals - gases			Chemicals - oils						Chemicals - other				Paper cardboard, wood not structural	Textiles							Furniture furnishings household goods							Building materials, structural woodwork									Miscellaneous materials								
		Crops, ricks and stacks	Loose straw or hay	Other agricultural material	Acetylene	Coal gas	Other gases	Animal and vegetable oils	Paraffin	Petrol in vehicles	Petrol not in vehicles	Other mineral oils	Oil, waste and undefined	Paint, enamel, lacquer, varnish, etc.	Pitch, tar	Rubber, vulcanite, ebonite	Other chemicals, including celluloid and celluloid goods	Paper, cardboard	Wooden packing materials	Timber	Clothing, on person	Clothing not on person	Cotton	Jute, hessian, sacking	Rags, including oily rags	Tarpaulins, waterproof sheeting oilskins	Other textiles including canvas and canvas goods	Soft furnishings	Furniture	Linen articles, (unspecified) laundry	Seating in vehicles	Other furnishings	Building materials other than wood	Structural woodwork, external	Doors, window frames	Floors, stairs	Partitions, lining to walls	Roof	Timber in chimney, flue	Timber under hearth	Other fittings	Coal, coke	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	
36	Matches, children with (5)	21	25	3	-	1	-	-	1	-	3	-	1	-	-	1	-	83	8	3	-	8	-	5	2	-	3	15	6	1	-	3	1	3	2	5	3	1	-	9	-	-	-	216	-	45	-	478	36
37	Mechanical heat or sparks	2	-	-	1	1	-	-	-	-	1	-	1	-	-	2	1	1	3	-	-	-	2	3	-	-	4	-	1	-	-	1	-	-	-	1	3	-	-	-	-	-	2	-	10	-	37	37
38	Metal, hot	-	-	-	-	-	-	-	1	-	-	-	2	-	-	2	1	1	-	-	-	1	-	2	-	-	-	1	-	-	-	1	-	-	-	1	-	-	-	-	-	2	-	3	-	18	38
39	Naked light (1) (3)	7	10	-	1	6	-	-	1	-	3	-	3	-	-	1	2	20	10	10	-	1	1	7	4	1	-	5	5	2	1	3	-	2	2	5	1	3	-	8	-	-	-	63	2	24	2	214	39
40	Oil, blow lamp	-	-	-	-	2	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	-	3	9	26	2	3	14	-	2	-	-	-	-	-	4	-	70	40
41	" engine (including petrol)	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	-	-	-	-	11	41
42	" lamp	1	-	-	-	-	-	-	2	2	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	2	1	1	-	-	-	-	-	-	2	-	-	-	1	-	-	-	-	-	2	-	17	42
43	" stove	-	-	-	-	1	-	-	100	-	1	-	2	-	-	1	2	2	3	-	-	4	-	1	-	-	1	10	1	-	-	-	-	-	-	3	1	1	-	2	-	-	-	1	-	4	1	49	43
44	" tractor	1	-	-	-	-	-	-	2	3	-	1	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	11	44
45	" other apparatus	-	-	1	-	-	-	-	-	1	-	5	6	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	-	-	-	1	-	-	1	-	-	-	1	-	1	-	21	45
46	Oxyacetylene cutting and welding apparatus	-	1	-	5	-	-	-	1	1	1	-	5	1	-	4	-	2	-	1	-	-	-	3	1	1	2	-	-	-	-	-	2	-	3	4	-	2	-	-	3	-	-	-	1	-	13	-	57	46
47	Rubbish burning	1	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	2	9	-	1	-	1	2	-	-	-	-	-	-	-	3	20	2	7	1	7	1	-	5	-	-	-	16	-	4	-	88	47
48	Slow combustion stove igniting structural woodwork	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	9	8	1	2	9	-	-	-	-	-	-	-	43	48
49	" other materials	-	-	-	-	-	1	-	-	-	-	1	-	-	4	-	4	5	15	5	-	7	1	3	3	1	-	1	1	-	-	-	7	-	-	-	-	-	-	-	-	2	-	2	2	3	16	-	84	49
50	Smoking materials	8	20	1	-	-	-	-	1	-	3	-	1	-	-	-	4	102	45	1	1	55	1	27	15	-	12	112	103	1	3	17	4	5	4	15	1	-	-	4	-	-	-	63	-	82	-	711	50
51	Spontaneous combustion in rubbish	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51
52	" in other materials	4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	5	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	4	-	-	-	1	-	19	52
53	Static electricity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
54	Steam roller, engine, traction engine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	54
55	Sun's rays	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	1	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-	1	-	9	55
56	Taper, lighted paper or sticks	1	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	8	-	-	-	1	-	1	-	-	-	2	2	-	1	-	-	1	-	1	1	1	-	-	2	-	-	-	2	-	6	-	33	56
57	Taper, lighted paper or sticks, children with (5)	1	3	1	-	-	-	-	-	-	-	-	1	-	-	-	-	8	4	7	-	2	-	1	-	-	1	3	3	-	-	-	3	7	3	7	2	1	-	-	9	1	-	-	35	-	10	-	113	57
58	Miscellaneous and undefined (4)	3	-	-	-	1	3	1	-	1	-	-	-	-	1	-	4	7	10	2	1	4	-	1	1	-	-	1	4	-	-	1	-	2	8	5	8	7	-	-	9	3	1	6	4	-	16	-	115	58
59	Unknown source of ignition	5	7	-	-	7	1	-	3	1	1	-	3	1	1	-	2	20	2	3	-	-	-	3	-	-	-	1	3	7	-	1	3	1	4	2	6	2	-	-	7	-	2	1	28	-	19	389	536	59
60	Total fires in buildings	59	92	10	7	193	9	3	133	25	35	14	41	6	11	15	63	358	162	46	13	170	6	75	38	8	36	310	309	12	7	110	121	120	71	194	99	203	44	226	250	16	302	438	650	41	453	413	6017	60
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	

For explanation of notes see page 21

SECTION III

Table 7B

MATERIAL FIRST IGNITED IN FIRES IN HAZARDS OTHER THAN BUILDINGS IN RELATION TO SUPPOSED CAUSE

Reports from Scotland, 1957

Row No.	Supposed cause of fire	Material first ignited																																						Row No.
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	
		Agriculture and forestry			Chemicals - gases			Chemicals - oils						Chemicals - other				Paper, cardboard, wood not structural			Textiles							Furniture, furnishings, household goods					Building materials, structural woodwork			Miscellaneous material							
		Crops, ricks and stacks	Loose straw or hay	Other agricultural materials	Acetylene	Coal gas	Other gases	Animal and vegetable oils	Paraffin	Petrol in vehicles	Petrol not in vehicles	Other mineral oils	Oil, waste and undefined	Paint, enamel, lacquer, varnish, etc.	Pitch, tar	Rubber, vulcanite, ebonite	Other chemicals, including celluloid and celluloid goods	Paper, cardboard	Wooden packing materials	Timber	Clothing on person	Clothing not on person	Cotton	Jute, hessian, sacking	Rags, including oily rags	Tarpaulins, waterproof sheeting, oilskins	Other textiles including canvas and canvas goods	Soft furnishings	Furniture	Linen articles, (unspecified), laundry	Seating in vehicles	Other furnishings	Building materials other than wood	Structural woodwork other than in buildings	Structural woodwork external	Coal, coke	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	
1	Aircraft, crashed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	1
2	Ashes, soot	-	1	3	-	-	-	-	-	-	-	-	-	-	-	1	1	7	3	1	-	-	1	-	1	1	-	-	-	-	-	-	-	37	1	6	-	65	2
3	Brazier	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	4	3	-	-	-	-	-	-	-	1	-	-	-	1	1	12	3
4	Camp fire, fire in open air (1)	-	-	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	25	4
5	Candle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	5
6	Chimney on fire, not confined to chimney	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
7	Chimney sparks from outside building	4	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-	13	7
8	Cooker, cooking range, oven, other than electric, coal gas, or oil	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	8
9	Electric cooker	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
10	fire, heater, radiator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
11	motor	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	15	11
12	refrigerator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
13	wire and cable other than lead to apparatus	-	-	-	-	1	2	-	-	17	-	1	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	5	-	-	111	-	-	-	13	-	155	13
14	wire and cable lead to apparatus	-	-	-	-	-	-	-	-	3	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	9	-	-	-	1	-	17	14
15	wireless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	15
16	other apparatus	-	-	1	-	1	1	-	-	9	4	-	4	1	-	-	1	1	1	-	-	-	1	2	1	1	1	-	-	-	2	-	-	14	-	-	62	-	1	-	8	-	117	16
17	Explosives, fireworks	1	-	6	-	1	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	20	17
18	Fish frying range all fuels	-	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	7	18
19	Flue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	4	-	1	-	-	-	-	-	7	19
20	Furnace coal or coke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
21	Gas (coal) burner, jet, ring	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	21
22	fire, heater, radiator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
23	other apparatus	-	-	-	-	10	-	-	-	-	1	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	23
24	Incubator, brooder (all fuels)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
25	Intentional burning of grassland, gorse, etc.	2	1	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	25
26	Lightning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	26
27	Lime	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	27
28	Locomotives, sparks from	6	16	676	-	-	-	-	-	-	-	-	2	-	-	-	1	2	4	18	-	-	-	1	1	5	3	-	-	-	-	-	-	73	-	-	-	-	5	-	24	-	837	28
29	Malicious ignition (1)(2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	29
30	Matches	-	3	12	-	1	-	-	-	2	1	-	1	-	1	-	-	6	-	1	-	1	-	1	1	1	-	-	-	-	-	-	-	-	-	-	-	3	-	1	-	36	30
31	Matches, children with (5)	52	19	210	-	2	-	-	-	4	-	1	1	-	1	-	3	48	13	11	-	1	-	3	1	6	2	1	-	-	4	-	-	4	-	-	-	-	156	-	16	1	560	31
32	Mechanical heat and sparks	-	-	-	-	2	1	-	-	6	-	-	3	-	-	17	1	-	2	1	-	-	-	2	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	7	1	46	32
33	Metal, hot	-	1	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	1	-	-	-	1	-	-	1	-	-	-	-	-	-	5	-	-	-	-	-	-	2	-	13	33
34	Naked light (1)(3)	2	4	36	-	1	-	-	-	1	-	-	5	-	-	1	1	8	1	9	-	-	-	2	-	-	-	-	-	-	2	-	-	11	-	1	-	-	7	-	5	2	99	34
35	Oil, blowlamp	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	35
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	

For explanation of notes see page 21

Table 7B

MATERIAL FIRST IGNITED IN FIRES IN HAZARDS OTHER THAN BUILDINGS IN RELATION TO THE SUPPOSED CAUSE

Reports from Scotland, 1957

Row No.	Supposed cause of fire	Material first ignited: Agriculture and forestry — Crops, ricks and stacks	Loose straw or hay	Other agricultural materials	Chemicals - gases — Acetylene	Coal gas	Other gases	Chemicals - oils — Animal and vegetable oils	Paraffin	Petrol in vehicles	Petrol not in vehicles	Other mineral oils	Oil, waste and undefined	Chemicals - other — Paint, enamel, lacquer, varnish etc.	Pitch, tar	Rubber, vulcanite, ebonite	Other chemicals, including celluloid and celluloid goods	Paper, cardboard, wood, not structural — Paper, cardboard	Wooden packing materials	Timber	Textiles — Clothing on person	Clothing not on person	Cotton	Jute, hessian, sacking	Rags, including oily rags	Tarpaulins, waterproof sheeting, oilskins	Other textiles including canvas and canvas goods	Furniture, furnishings, household goods — Soft furnishings	Furniture	Linen articles, (unspecified) laundry	Seating in vehicles	Other furnishings	Building materials, structural woodwork — Building materials other than wood	Structural woodwork other than in buildings	Structural woodwork external	Miscellaneous material — Coal, coke,	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	Row No.
36	Oil, engine (including petrol)	-	2	-	-	-	-	-	-	76	-	2	4	-	-	-	1	1	-	1	-	-	-	4	4	4	-	-	-	1	-	-	7	4	-	-	1	-	7	-	115	36
37	lamp	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	3	37
38	stove	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	4	38
39	tractor	13	3	1	-	-	-	-	6	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	37	39
40	other apparatus	-	1	4	-	-	-	-	-	3	1	2	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	14	40
41	Oxyacetylene cutting and welding apparatus	-	1	1	5	-	-	-	-	2	-	-	7	-	2	4	1	1	-	6	-	-	-	2	-	1	2	-	-	-	-	-	-	7	-	-	1	-	2	-	5	-	50	41
42	Rubbish burning	22	3	78	-	-	-	-	1	1	-	-	2	-	-	3	-	2	9	29	-	-	-	-	-	2	1	-	-	-	-	-	-	7	-	-	-	-	26	-	12	1	199	42
43	Slow combustion stove igniting structural woodwork	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43
44	other materials	-	-	2	-	-	-	-	-	-	-	-	1	-	7	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	17	44
45	Smoking materials	13	18	120	-	-	-	-	-	1	-	-	3	-	-	-	1	14	10	6	-	3	-	13	4	18	7	3	1	-	15	3	1	22	-	-	-	-	22	-	23	-	321	45
46	Spontaneous combustion in rubbish	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46
47	in other materials	1	-	2	-	-	-	-	-	-	-	-	1	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-	10	47
48	Static electricity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48
49	Steamroller, engine, traction engine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	49
50	Sun's rays	1	2	10	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	50
51	Taper, lighted paper or sticks	1	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	14	51
52	Taper, lighted paper or sticks children with (5)	2	3	8	-	-	-	-	-	1	-	-	-	-	-	-	1	17	-	5	-	-	-	1	-	2	1	-	-	-	-	-	-	15	-	-	-	-	38	-	5	-	69	52
53	Miscellaneous and undefined (4)	1	1	4	-	-	3	-	1	-	-	-	4	-	2	-	-	-	5	3	-	-	-	1	-	-	2	1	1	-	-	-	-	2	-	3	-	-	1	-	7	-	42	53
54	Unknown source of ignition	7	3	59	-	4	2	-	1	3	2	-	3	-	-	1	3	8	5	11	-	-	-	4	4	1	-	-	-	-	2	-	-	4	-	-	-	-	23	-	8	266	424	54
55	Total fires other than those in buildings	129	83	1277	5	32	12	-	11	142	10	-9	47	1	14	29	25	132	56	107	-	7	2	38	18	51	30	5	2	-	28	3	1	185	-	7	199	6	292	1	163	278	3437	55
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	19	40	41	42	

For explanation of notes see page 21

SECTION III

Table 8

METHOD OF EXTINCTION OF FIRES

Reports from Scotland, 1957

Row No.	Method of extinction	Fires in buildings						Fires other than those in buildings						Total No. of fires		Row No.
		Extinguished by Fire Brigade		Extinguished before arrival of Fire Brigade		Total		Extinguished by Fire Brigade		Extinguished before arrival of Fire Brigade		Total				
		No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	
1	Burned out	-	-	34	0.4	34	0.4	-	-	51	0.5	51	0.5	85	0.9	1
2	Removal	378	4.0	133	1.4	511	5.4	50	0.5	21	0.2	71	0.8	582	6.2	2
3	Automatic sprinkler system	-	-	6	0.1	6	0.1	-	-	-	-	-	-	6	0.1	3
4	Beating	5	0.1	16	0.2	21	0.2	352	3.7	40	0.4	392	4.1	413	4.4	4
5	Smothering	18	0.2	30	0.3	48	0.5	4	-	15	0.2	19	0.2	67	0.7	5
6	Sand, earth, etc.	4	-	10	0.1	14	0.1	5	0.1	14	0.1	19	0.2	33	0.3	6
7	Water from buckets	156	1.7	311	3.3	467	4.9	22	0.2	47	0.5	69	0.7	536	5.7	7
8	Water from stirrup or hand pumps	958	10.1	2	-	960	10.2	56	0.6	-	-	56	0.6	1016	10.7	8
9	Chemicals and chemical extinguishers	175	1.9	109	1.2	284	3.0	174	1.8	73	0.8	247	2.6	531	5.6	9
10	Two or more methods 4-9	25	0.3	30	0.3	55	0.6	46	0.5	10	0.1	56	0.6	111	1.2	10
11	Water from garden hose, etc.	-	-	18	0.2	18	0.2	-	-	4	-	4	-	22	0.2	11
12	Hose reel jets (using water in tank only)	2183	23.1	3	-	2186	23.1	1479	15.6	3	-	1482	15.7	3668	38.8	12
13	Hose reel jets (using more water than that in tank)	307	3.2	-	-	307	3.2	155	1.6	-	-	155	1.6	462	4.9	13
14	Jets from inside hose reel or inside hydrant	12	0.1	4	-	16	0.2	4	-	-	-	4	-	20	0.2	14
15	Hose reel jets and jets from inside hose reel or inside hydrant	1	-	-	-	1	-	-	-	-	-	-	-	1	-	15
16	Jets from pumps and hydrants	936	9.9	8	0.1	944	10.0	766	8.1	9	0.1	775	8.2	1719	18.2	16
17	Other and undefined methods	71	0.8	74	0.8	145	1.5	17	0.2	20	0.2	37	0.4	182	1.9	17
18	Total fires attended	5229	55.3	788	8.3	6017	63.6	3130	33.1	307	3.2	3437	36.4	9454	100.0	18

Notes on methods of extinction

1. "Removal" includes occurrences where (a) burning material was removed from the building, (b) gas supply was turned off. If the burning material was tackled with methods 3-11 before removing it from the building, then such occurrences were classified under whichever of these methods applied.

2. Methods 11-15 and method 16 include those occurrences in which methods 3-10 and 3-15 respectively may also have been used.

3. "Fires extinguished by Fire Brigade" include those fires which were tackled but not extinguished before the arrival of the Fire Brigade.

SECTION III

Table 9

BEHAVIOUR OF SPRINKLER SYSTEMS AT FIRES

Reports from Scotland, 1957

Fires in Buildings

Behaviour of sprinklers	Incidents in which the following number of heads were actuated						Total number of incidents
	Nil	1-5	6-10	11-20	More than 20	Number not reported	
Installed but did not operate							
(i) because insufficient heat was generated by the fire	15	-	-	-	-	-	15
(ii) because fire was brought under control by other means	3	-	-	-	-	-	3
(iii) because valve of system was closed	1	-	-	-	-	-	1
TOTAL	19	-	-	-	-	-	19
Operated but did not control fire because							
(i) fire out of range of sprinklers	-	1	1	-	-	1	3
(ii) no reason given	-	1	-	-	-	-	1
TOTAL	-	2	1	-	-	1	4
Controlled but did not extinguish fire	-	16	2	2	2	1	23
Extinguished the fire	-	5	1	-	-	-	6
Number of calls to fires where sprinklers were installed	19	23	4	2	2	2	52

Fires not in buildings.

One outbreak of fire in a ship where a Sprinkler System was installed was reported. Two heads were actuated and controlled the fire.

SECTION III

Table 10

PERSONS RESCUED OR ESCAPED BY EMERGENCY MEANS FROM FIRES

Reports from Scotland, 1957

Appliance or method used	Number of persons
Rescue with Fire Brigade assistance from	
Buildings	
Escape (hand operated)	7
Ladder, extension	4
Ladder and line	4
Other apparatus	-
Without apparatus	33
Total	48
Rescue without Fire Brigade assistance from	
Aircraft	-
Buildings	
Carried or assisted out	29
Jumping sheet	-
Ladder	3
Lowered from windows, roof, etc.	7
Other or undefined methods	-
Road vehicles	-
Total	39
Escaped by emergency means from	
Aircraft	
Baled out	-
Through exits or from debris	-
Thrown clear	1
Buildings	
Climbing over roof	-
Jumping from upstairs window, roof	9
Ladder	-
Sliding down drainpipe, sheets, rope etc.	-
Through ground floor windows	-
Other and undefined methods	1
Railway train	-
Road vehicles	-
Ships	-
Total	11
Total persons rescued or escaped.	98

SECTION III

Table 11

NATURE OF INJURIES OF CASUALTIES IN FIRES

Reports from Scotland, 1957

Nature of injury	Fire Brigade	Other Casualties	Total
Fatal casualties			
Burns and scalds	-	42	42
Overcome by gas or smoke	-	8	8
Other and undefined injuries	-	4	4
Total	-	54	54
Non-fatal casualties **			
Burns and scalds	5	85	90
Bruises, cuts, abrasions	11	4	15
Dislocations, sprains, fractures	2	4	6
Overcome by gas or smoke	-	24	24
More than one of above injuries	-	-	-
*Shock	-	38	38
Other and undefined injuries	4	11	15
Total	22	166	188
Total casualties	22	220	242

**Excludes casualties requiring first-aid treatment only.

Casualties who suffered more than one type of injury have been classified according to the nature of the more serious injury.

*Casualties who suffered shock in addition to another injury have been classified according to the nature of the other injury.

SECTION IV

STATISTICAL TABLES FOR FIRE BRIGADES IN NORTHERN IRELAND, 1957

Table 1

METHOD OF CALLING FIRE BRIGADES TO FIRES

Reports from Northern Ireland, 1957

Method of calling	Fire Brigade				Total	
	North	South	West	Belfast	No.	Per cent
By Special Fire Service methods						
Automatic fire alarm	-	-	-	-	-	-
Fire and police pillar box	-	-	-	-	-	-
Police telephone	-	-	-	46	46	2.7
Private fire telephone	-	1	1	4	6	0.3
Street fire alarm	-	-	-	20	20	1.2
Total	-	1	1	70	72	4.2
Exchange telephone	256	622	398	319	1595	93.0
Running call	4	15	8	17	44	2.6
Late call	-	-	-	-	-	-
Other and undefined methods	-	-	1	4	5	0.3
Total fires attended	260	638	408	410	1716	10.0

SECTION IV

Table 2

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED

Reports from Northern Ireland, 1957

Hazard in which fire started	Total	
	No.	Per Cent
Fires in buildings classified according to trade or business carried on		
Agriculture		
Farming (not fruit or poultry) and horse and stock rearing	123	7.2
Allotments, market gardening, fruit and poultry farming	6	0.3
Total	129	7.5
Mining quarrying and treatment of non-metalliferous mine and quarry products (excluding gas works)	3	0.2
Manufacture of bricks, pottery, glass, etc.	3	0.2
Manufacture of chemicals, dyes, explosives, paints, oils		
Chemicals	3	0.2
Explosives	-	-
Paints, varnish, oil, grease	-	-
Miscellaneous	-	-
Total	3	0.2
Manufacture of metals, machines, implements, conveyances		
Smelting, converting, refining, rolling of iron, steel	-	-
Extracting, refining, smelting of other metals	-	-
Founding, other secondary processes in metal working	4	0.2
Engineering (not marine or electrical)	3	0.2
Electrical installations, cables and apparatus	2	0.1
Construction and repair of vehicles	2	0.1
Shipbuilding, and repairing, marine engineering	1	0.1
Cutlery and small tools	-	-
Other metal industries	3	0.2
Total	15	0.9
Manufacture of textiles and textile goods (not dress)		
Cotton	2	0.1
Wool, worsted and shoddy	1	0.1
Silk, natural and artificial	-	-
Other or mixed fibres	11	0.6
Miscellaneous	8	0.5
Textile dyeing, printing, bleaching, finishing	-	-
Total	22	1.3

SECTION IV

Table 2 (Contd.)

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED

Reports from Northern Ireland, 1957

Hazard in which fire started	Total	
	No.	Per cent
Fires in buildings classified according to trade or business carried on (contd.)		
Preparation of skins and leather and manufacture of goods of leather and leather substitute (not clothing or footwear)	-	-
Manufacture of clothing (not knitted) including footwear	2	0.1
Manufacture of food, drink, tobacco		
Food	7	0.4
Drink	-	-
Tobacco, cigars, cigarettes, snuff	-	-
Total	7	0.4
Woodworking: manufacture of cane and basket ware, furniture, fittings		
Woodworking and basket ware	5	0.3
Furniture (not metal or basket)	6	0.3
Fittings	-	-
Total	11	0.6
Paper making: manufacture of stationery and stationery requisites, printing and bookbinding	2	0.1
Building, decorating, contracting: slate and stone cutting and dressing	19	1.1
Rubber and synthetic rubber	-	-
Other manufacturing industries	3	0.2
Gas, water, electricity, sewage	4	0.2
Transport and communication		
Railway - stations, etc.	7	0.4
Road - garages, depots, etc.	23	1.3
Water - dock buildings other than warehouses	-	-
Air - aerodromes etc.	-	-
Other communication (post, telephone, wireless)	5	0.3
Total	35	2.0
Commerce		
Departmental stores	2	0.1
Retail shops	53	3.1
Wholesale dealers	13	0.8
Dock and other warehouses	-	-
Total	68	4.0

SECTION IV

Table 2 (Contd.)

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED

Reports from Northern Ireland, 1957

Hazard in which fire started	Total	
	No.	Per cent
Fires in buildings classified according to trade or business carried on (contd.)		
Offices, Government and other		
Government departments	8	0.5
Local authorities	2	0.1
Other offices	9	0.5
Total	19	1.1
Navy, Army and Air Force establishments	5	0.3
Fire Service establishments	1	0.1
Professional establishments (other than offices); public institutions		
Educational establishments	14	0.8
Hospitals, homes etc. for care of the sick and infirm	8	0.5
Places of worship	4	0.2
Other public and professional services	3	0.2
Total	29	1.7
Places of public entertainment		
Cinemas and theatres	4	0.2
Other places of entertainment	8	0.5
Total	12	0.7
Private residential and personal service (including hotels and catering)		
Private residential houses	343	20.0
Private residential flats and maisonettes	14	0.8
Clubs, hotels, restaurants, public houses	43	2.5
Private huts, unoccupied houses, personal service	41	2.4
Total	441	25.7
Miscellaneous	22	1.3
Undefined	-	-
Total fires in buildings	855	49.8

SECTION IV

Table 2 (Contd.)

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED

Reports from Northern Ireland, 1957

Hazard in which fire started	Total	
	No.	Per cent
Fires other than those in buildings		
Agriculture and forestry		
Crops, standing or stooked (including hay fields)	10	0.6
Crops, ricks and stacks	42	2.4
Agricultural machinery	26	1.5
Agricultural waste	2	0.1
Other agricultural hazards	-	-
Allotments and gardens	16	0.9
Railway embankments	96	5.6
Grassland, heathland	374	21.8
Woods, forests, plantations	17	1.0
Single trees	11	0.6
Felled timber	-	-
Total	594	34.6
Transport and communication		
Aircraft	2	0.1
Railway rolling stock etc.	6	0.3
Road vehicles - electrically driven	3	0.2
Road vehicles - oil, petrol, or gas driven	94	5.5
Road vehicles - other	1	0.1
Water vessels - craft on inland waters	1	0.1
Water vessels - ships in dock	5	0.3
Water vessels - ships at sea	-	-
Water vessels - marine structures	2	0.1
Total	114	6.6
Outdoor storage		
Chemicals, explosives, ammunition, oils, grease	8	0.5
Coal and coke	-	-
Refuse	51	3.0
Timber	17	1.0
Cotton, metal, packing materials, rubber etc.	14	0.8
Total	90	5.2
Other outdoor structures	63	3.7
Total fires other than those in buildings	861	50.2
Total fires attended	1,716	100.0

SECTION IV

Table 3

FIRES CLASSIFIED ACCORDING TO HAZARD IN WHICH FIRE STARTED FOR EACH BRIGADE

Reports from Northern Ireland, 1957

Hazard in which fire started	Fire Brigades				Total
	North	South	West	Belfast	
Fires in buildings					
Industrial premises	8	32	6	44	90
Commercial premises and offices	8	26	21	32	87
Transport and public utilities	5	13	10	11	39
Dwellings	59	124	77	97	357
Other buildings	47	126	57	52	282
Total	127	321	171	236	855
Fires not in buildings					
Agriculture, grassland, forestry	96	249	202	47	594
Transport	21	41	18	34	114
Outdoor storage	5	11	10	64	90
Other outdoor hazards	11	16	7	29	63
Total	133	317	237	174	861
Total fires attended	260	638	408	410	1716

SECTION IV

Table 4

SUPPOSED CAUSE OF FIRES

Reports from Northern Ireland, 1957

Each item in the list of supposed causes of fire given in the table represents a group of causes which have a common source of ignition. In some cases the groups have been divided into sub-groups according to the nature of the material first ignited, and in others according to the act with the source of ignition which led to the outbreak of fire. Certain causes were specified for the first time in 1954, the miscellaneous item is therefore not comparable with those for years previous to 1954.

Supposed cause of fire	Fires in buildings		Fires other than those in buildings		Total	
	No.	Per cent	No.	Per cent	No.	Per cent
Aircraft, crashed	-	-	2	0.1	2	0.1
Ashes, soot	10	0.6	14	0.8	24	1.4
Brazier	-	-	2	0.1	2	0.1
Camp fire, fire in open air (1)	-	-	10	0.6	10	0.6
Candle	3	0.2	-	-	3	0.2
Chimney on fire, not confined to chimney	52	3.0	-	-	52	3.0
Chimney, sparks from (outside building)	27	1.6	1	0.1	28	1.6
Cooker, cooking range oven other than electric, coal gas, oil (1)	14	0.8	-	-	14	0.8
Electric cooker	3	0.2	-	-	3	0.2
fire heater, radiator	6	0.3	-	-	6	0.3
iron	8	0.5	-	-	8	0.5
motor	6	0.3	1	0.1	7	0.4
refrigerator	7	0.4	-	-	7	0.4
television	1	0.1	-	-	1	0.1
wire and cable, other than lead to apparatus	18	1.0	49	2.9	67	3.9
wire and cable, lead to apparatus	1	0.1	2	0.1	3	0.2
wireless	1	0.1	-	-	1	0.1
other apparatus	21	1.2	14	0.8	35	2.0
Explosives, fireworks	-	-	5	0.3	5	0.3
Fire in grate, igniting bedding,						
clothing, linen	6	0.3	-	-	6	0.3
furniture, furnishing	13	0.8	-	-	13	0.8
structural timber under hearth	24	1.4	-	-	24	1.4
other materials	91	5.3	-	-	91	5.3
Fish frying range (all fuels)	23	1.3	1	0.1	24	1.4
Flue	12	0.7	-	-	12	0.7
Furnace (coal or coke)	-	-	-	-	-	-
Gas (coal) burner, jet, ring	-	-	-	-	-	-
cooker	12	0.7	-	-	12	0.7
fire, heater, radiator	1	0.1	-	-	1	0.1
other apparatus	1	0.1	3	0.2	4	0.2
Incubator, brooder (all fuels)	23	1.3	-	-	23	1.3

SECTION IV

Table 4 (Contd.)

SUPPOSED CAUSE OF FIRES

Reports from Northern Ireland, 1957

Supposed cause of fire	Fires in buildings		Fires other than those in buildings		Total	
	No.	Per cent	No.	Per cent	No.	Per cent
Intentional burning of grassland, gorse, etc.	-	-	3	0.2	3	0.2
Lightning	-	-	-	-	-	-
Lime	1	0.1	-	-	1	0.1
Locomotives, sparks from	1	0.1	62	3.6	63	3.7
Malicious ignition (1) (2)	6	0.3	4	0.2	10	0.6
Matches	9	0.5	14	0.8	23	1.3
Matches, children with (5)	30	1.7	44	2.6	74	4.3
Mechanical heat or sparks	8	0.5	4	0.2	12	0.7
Metal, hot	-	-	-	-	-	-
Naked light (1) (3)	5	0.3	4	0.2	9	0.5
Oil blow lamp	10	0.6	1	0.1	11	0.6
engine (including petrol)	3	0.2	23	1.3	26	1.5
lamp	7	0.4	3	0.2	10	0.6
stove	21	1.2	2	0.1	23	1.3
tractor	2	0.1	12	0.7	14	0.8
other apparatus	3	0.2	1	0.1	4	0.2
Oxyacetylene cutting and welding apparatus	3	0.2	-	-	3	0.2
Rubbish burning	13	0.8	29	1.7	42	2.4
Slow combustion stove igniting structural woodwork	6	0.3	-	-	6	0.3
other materials	15	0.9	11	0.6	26	1.5
Smoking materials	42	2.4	35	2.0	77	4.5
Spontaneous combustion in rubbish	-	-	-	-	-	-
Spontaneous combustion in other materials	2	0.1	2	0.1	4	0.2
Static electricity	-	-	-	-	-	-
Steam roller, engine, traction engine	-	-	-	-	-	-
Sun's rays	-	-	4	0.2	4	0.2
Taper, lighted paper or sticks	5	0.3	1	0.1	6	0.3
Taper, lighted paper or sticks, children with (5)	7	0.4	3	0.2	10	0.6
Miscellaneous (4)	7	0.4	27	1.6	34	2.0
Unknown source of ignition	265	15.4	468	27.3	733	42.7
Total fires attended	855	49.8	861	50.2	1,716	100.0

Note. (1) Causes specified for the first time in the Annual Statistical Tables for 1954.
(2) Malicious ignition is a general term for suspected or proven arson or incendiarism.
(3) No further information given in original reports.
(4) Not comparable with the years prior to 1954.
(5) A change in definition has increased the number of incidents in these categories.

(35416)

SECTION IV

Table 5A

SUPPOSED CAUSE OF FIRES IN BUILDINGS IN RELATION TO HAZARD IN WHICH FIRE STARTED

Reports from Northern Ireland, 1957

Row No.	Supposed cause of fire	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	Row No.
		Hazard in which fire started	Agriculture	Mining, quarrying and treatment of non-metalliferous mine and quarry products (excluding gas works)	Manufacture of bricks, pottery, glass, etc.	Manufacture of chemicals, explosives, paints, oils	Manufacture of metals, machines, implements, conveyances	Manufacture of textiles and textile goods (not dress)	Manufacture of clothing (not knitted) including footwear, and goods of leather and leather substitute; preparation of skins and leather	Manufacture of food, drink, tobacco	Woodworking; manufacture of cane and basket ware, furniture, fittings	Paper making; manufacture of stationery and stationery requisites, printing and bookbinding	Building, decorating, contracting; slate and stone cutting and dressing	Other manufacturing industries, including rubber and synthetic rubber	Gas, water, electricity, sewage	Transport and communication	Commerce; retail shops, including departmental stores	Commerce; wholesale dealers and warehouses	Offices; Government and other	Navy, Army, Air Force establishments	Fire Service establishments	Professional establishments (other than offices), public institutions	Places of public entertainment	Private residential houses	Private residential flats and maisonettes	Clubs, hotels, restaurants, public houses	Private huts, unoccupied houses, personal service	Miscellaneous and undefined	Total	
1	Ashes, soot		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2	-	4	-	1	1	1	10	1
2	Brazier		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	3	2
3	Candle		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	3	3
4	Chimney fire, not confined to chimney		-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	47	1	-	1	-	52	4
5	Chimney, sparks from (outside building)		1	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	23	-	-	1	-	27	5
6	Cooker, cooking range, oven, other than electric, coal gas or oil (1)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	12	-	1	-	-	14	6
7	Electric, cooker		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	3	7
8	fire, heater, radiator		-	-	-	-	1	1	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	3	-	1	-	-	6	8
9	iron		-	1	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	8	9
10	motor		-	1	-	-	-	2	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	6	-	-	-	-	6	10

SECTION IV

Table 5A (Contd.)

SUPPOSED CAUSE OF FIRES IN BUILDINGS IN RELATION TO HAZARD IN WHICH FIRE STARTED

Reports from Northern Ireland, 1957

Row No.	Supposed cause of fire	Hazard in which fire started																									Row No.
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	
		Agriculture	Mining, quarrying and treatment of non-metalliferous mine and quarry products (excluding gas works)	Manufacture of bricks, pottery, glass, etc.	Manufacture of chemicals, explosives, paints, oils	Manufacture of metals, machines, implements, conveyances	Manufacture of textiles and textile goods (not dress)	Manufacture of clothing (not knitted) including footwear, and goods of leather and leather substitute; preparation of skins and leather	Manufacture of food, drink, tobacco	Woodworking; manufacture of cane and basket ware, furniture, fittings	Paper making; manufacture of stationery and stationery requisites, printing and bookbinding	Building, decorating, contracting; slate and stone cutting and dressing	Other manufacturing industries, including rubber and synthetic rubber	Gas, water, electricity, sewage	Transport and communication	Commerce; retail shops, including departmental stores	Commerce; wholesale dealers and warehouses	Offices; Government and other	Navy, Army, Air Force establishments	Fire Service establishments	Professional establishments (other than offices), public institutions	Places of public entertainment	Private residential houses	Private residential flats and maisonettes	Clubs, hotels, restaurants, public houses	Private huts, unoccupied houses, personal service	Miscellaneous and undefined	Total	
11	Electric, refrigerator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-	7	11
12	television	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	12
13	wire and cable other than lead to apparatus	4	-	-	-	-	2	1	-	-	-	-	-	-	-	1	-	-	-	-	3	-	5	1	-	1	-	18	13
14	wire and cable lead to apparatus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	14
15	wireless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	15
16	other apparatus	-	-	1	1	2	2	-	-	1	-	-	1	-	-	2	1	1	-	-	-	-	7	-	1	1	-	21	16
17	Explosives, fireworks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
18	Fire in grate, igniting bedding, clothing linen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	5	-	-	-	-	6	18
19	furniture and furnishings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	13	19
20	structual timber under hearth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	1	-	15	4	1	-	-	24	20

21	other materials	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	3	-	80	2	2	-	-	91	21
22	Fish frying range (all fuels)	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	21	-	-	23	22
23	Flue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	2	-	6	-	2	-	-	12	23
24	Furnace (coal or coke)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
25	Gas (coal) burner, jet, ring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
26	cooker	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	6	1	1	1	-	12	26
27	fire, heater, radiator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	27
28	other apparatus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1	28
29	Incubator, brooder (all fuels)	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	1	-	23	29
30	Intentional burning of grassland, gorse, etc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
31	Lightning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31
32	Lime	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	32
33	Locomotives, sparks from	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	33
34	Malicious ignition (1)(2)	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	-	3	-	1	-	-	6	34
35	Matches	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	6	1	-	-	-	9	35
36	Matches, children with(5)	15	-	-	-	-	-	-	-	-	-	1	-	-	1	2	2	-	-	-	-	1	7	-	-	1	-	30	36
37	Mechanical heat or sparks	-	-	-	-	-	6	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	8	37
38	Metal, hot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38
39	Naked light (1) (3)	-	-	-	-	1	-	-	-	2	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	5	39
40	Oil, blow lamp	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	6	-	-	1	-	10	40
41	engine (including petrol)	-	-	-	-	1	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	41
42	lamp	1	-	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	-	-	-	2	1	-	-	-	7	42
43	stove	-	-	-	-	-	-	-	-	-	-	1	-	-	7	3	-	-	-	-	-	-	8	1	1	-	-	21	43
44	tractor	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	44
45	other apparatus	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	3	45
46	Oxyacetylene cutting & welding apparatus	1	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	3	46
47	Rubbish burning	3	-	-	-	-	-	-	-	1	-	1	-	-	-	1	1	-	-	-	-	-	3	-	-	2	1	13	47
48	Slow combustion stove igniting structural woodwork	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	3	1	-	-	-	-	-	6	48
49	other materials	1	2	-	-	-	-	-	1	-	-	2	-	-	1	-	-	3	-	-	1	1	2	-	1	-	-	15	49
50	Smoking materials	4	-	-	1	-	1	-	-	2	-	3	-	-	-	7	2	2	1	-	2	3	11	-	2	1	-	42	50
51	Spontaneous combustion in rubbish	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51
52	in other materials	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	2	52
53	Static electricity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
54	Steam roller, engine, traction engine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54
55	Sun's rays	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	

For explanation of notes see page 21

Table 5A (Contd.)

SUPPOSED CAUSE OF FIRES IN BUILDINGS IN RELATION TO HAZARD IN WHICH FIRE STARTED

Reports from Northern Ireland, 1957

Row No.	Supposed cause of fire	Hazard in which fire started: Agriculture	Mining, quarrying and treatment of non-metalliferous mine and quarry products (excluding gas works)	Manufacture of bricks, pottery, glass, etc.	Manufacture of chemicals, explosives, paints, oils	Manufacture of metals, machines, implements, conveyances	Manufacture of textiles and textile goods (not dress)	Manufacture of clothing (not knitted) including footwear, and goods of leather and leather substitute; preparation of skins and leather	Manufacture of food, drink, tobacco	Woodworking; manufacture of cane and basket ware, furniture, fittings	Paper making; manufacture of stationery requisites, printing and bookbinding	Building, decorating, contracting; slate and stone cutting and dressing	Other manufacturing industries, including rubber and synthetic rubber	Gas, water, electricity, sewage	Transport and communication	Commerce; retail shops, including departmental stores	Commerce; wholesale dealers and warehouses	Offices; Government and other	Navy, Army, Air Force establishments	Fire Service establishments	Professional establishments (other than offices), public institutions	Places of public entertainment	Private residential houses	Private residential flats and maisonettes	Clubs, hotels, restaurants, public houses	Private huts, unoccupied houses, personal service	Miscellaneous and undefined	Total	Row No.
56	Taper, lighted paper or sticks	-	-	-	-	-	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	3	-	-	-	-	5	56
57	Taper, lighted paper or sticks, children with (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	4	1	-	-	-	7	57
58	Miscellaneous and undefined (4)	1	-	1	-	-	-	-	1	-	-	1	-	1	1	-	-	-	-	-	-	1	-	-	-	-	7	58
59	Unknown source of ignition	73	-	1	1	9	5	1	3	4	1	9	2	2	19	14	6	7	1	-	5	5	43	1	7	27	20	265	59
60	Total fires in buildings	129	3	3	3	15	22	2	7	11	2	19	3	4	35	55	13	19	5	1	29	12	343	14	43	41	22	855	60
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	

For explanation of notes see page 21

SECTION IV

Table 5B

SUPPOSED CAUSE OF FIRES OTHER THAN THOSE IN BUILDINGS IN RELATION TO HAZARD IN WHICH FIRE STARTED

Reports from Northern Ireland, 1957

Row No.	Supposed cause of fire	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Row No.
		Hazard in which fire started											Transport and communications					Outdoor storage							
			Crops	Agricultural machinery	Agricultural waste	Agricultural, other	Gardens and allotments	Railway embankments	Grassland, heathland	Woods, forests, plantations	Single trees	Felled timber	Air	Rail	Road-oil, petrol or gas driven vehicles	Road - other vehicles	Water	Chemicals, explosives, ammunition, oils, grease	Coal and coke	Refuse	Timber	Other materials	Miscellaneous outdoor structures	Total	
1	Aircraft crashed		-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	2	1
2	Ashes, soot		-	-	1	-	-	4	-	-	-	-	-	-	-	-	-	1	-	5	1	1	1	14	2
3	Brazier		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	3
4	Camp fire, fire in open air (1)		-	-	-	-	-	-	8	-	-	2	-	-	-	-	-	-	-	-	-	-	-	10	4
5	Candle		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
6	Chimney on fire, not confined to chimney		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
7	Chimney, sparks from (outside building)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	7
8	Cooker, cooking range, oven, other than electric, coal gas or oil (1)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
9	Electric cooker		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
10	fire, heater, radiator		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
11	Electric motor		-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	11
12	refrigerator		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
13	wire and cable other than lead to apparatus		-	6	-	-	-	-	-	-	-	-	-	-	26	2	-	-	-	-	1	-	14	49	13
14	wire and cable lead to apparatus		-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	14
15	wireless		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
		Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	

SECTION IV

Table 5B (Contd.)

SUPPOSED CAUSE OF FIRES OTHER THAN THOSE IN BUILDINGS IN RELATION TO HAZARD IN WHICH FIRE STARTED

Reports from Northern Ireland, 1957

Row No.	Supposed cause of fire	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	Row No.
		Hazard in which fire started											Transport and communications					Outdoor storage							
			Crops	Agricultural machinery	Agricultural waste	Agricultural, other	Gardens and allotments	Railway embankments	Grassland, heathland	Woods, forests, plantations	Single trees	Felled timber	Air	Rail	Road-oil, petrol or gas driven vehicles	Road - other vehicles	Water	Chemicals, explosives, ammunition, oils, grease	Coal and coke	Refuse	Timber	Other materials	Miscellaneous outdoor structures	Total	
16	Electric other apparatus		-	1	-	-	-	-	-	-	-	-	-	1	6	-	-	1	-	-	-	-	6	14	16
17	Explosives, fireworks		-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	17
18	Fish frying range (all fuels)		-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	18
19	Flue		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
20	Furnace (coal or coke)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
21	Gas (coal) burner, jet, ring		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
22	fire, heater, radiator		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
23	other apparatus		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	23
24	Incubator, brooder, (all fuels)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
25	Intentional burning of grassland, gorse, etc.		-	-	-	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	25
26	Lightning		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
27	Lime		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
28	Locomotives, sparks from		1	-	-	-	-	53	6	-	-	-	-	1	-	-	-	-	-	-	-	-	1	62	28
29	Malicious ignition (1) (2)		-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	1	-	1	4	29
30	Matches		2	-	-	-	-	-	9	-	-	-	-	-	1	-	-	1	-	1	-	-	-	14	30

31	Matches, children with (5)	6	-	1	-	2	4	18	-	1	-	-	1	-	-	-	-	-	7	1	1	2	44	31
32	Mechanical heat or sparks	-	-	-	-	-	-	-	-	-	-	-	-	1	-	1	1	-	-	1	-	-	4	32
33	Metal hot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33
34	Naked light (1) (3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	3	-	-	-	4	34
35	Oil blow lamp	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	1	35
36	Oil engine (including petrol)	-	1	-	-	-	-	-	-	-	-	-	-	21	-	1	-	-	-	-	-	-	23	36
37	lamp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	37
38	stove	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	38
39	tractor	-	10	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	12	39
40	other apparatus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	40
41	Oxyacetylene cutting and welding apparatus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41
42	Rubbish burning	4	-	-	-	4	-	7	-	4	-	-	-	-	-	-	-	-	2	3	4	1	29	42
43	Slow combustion stove igniting structural woodwork	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43
44	Slow combustion stove igniting other materials	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	10	11	44
45	Smoking materials	-	-	-	-	1	-	23	1	-	-	-	-	3	-	-	1	-	6	-	-	-	35	45
46	Spontaneous combustion in rubbish	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46
47	in other materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	2	47
48	Static electricity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48
49	Steam roller, engine, traction engine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49
50	Sun's rays	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	-	-	-	1	4	50
51	Taper, lighted paper or sticks	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	51
52	Taper, lighted paper or sticks children with (5)	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	52
53	Miscellaneous and undefined (4)	1	-	-	-	1	-	4	1	1	-	-	-	4	-	-	1	-	10	1	-	3	27	53
54	Unknown source of ignition	37	7	-	-	8	34	288	17	-	-	-	3	24	1	4	-	-	18	7	8	12	468	54
55	Total fires other than those in buildings	52	26	2	-	16	96	374	20	6	2	2	6	94	4	8	7	-	52	17	14	63	861	55
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	

For explanation of notes see page 21

SECTION IV

Table 6

MATERIAL FIRST IGNITED IN FIRES

Reports from Northern Ireland, 1957

Material first ignited	Fires in buildings		Fires other than those in buildings		Total	
	No.	Per cent	No.	Per cent	No.	Per cent
Agriculture and Forestry						
Crops, ricks, stacks						
Barley	–	–	–	–	–	–
Hay	12	0.7	5	0.3	17	1.0
Straw	3	0.2	2	0.1	5	0.3
Stubble	–	–	–	–	–	–
Other	3	0.2	2	0.1	5	0.3
Loose straw or hay	18	1.0	4	0.2	22	1.3
Grass, heather, bracken	1	0.1	99	5.8	100	5.8
Trees, hedges, undergrowth, brushwood, bushes (including gorse), twigs, touchwood	–	–	69	4.0	69	4.0
Other agricultural materials	2	0.1	2	0.1	4	0.2
Total	39	2.3	183	10.7	222	13.0
Chemicals - gases						
Acetylene	1	0.1	–	–	1	0.1
Coal gas	7	0.4	5	0.3	12	0.7
Other gases	2	0.1	1	0.1	3	0.2
Total	10	0.6	6	0.3	16	0.9
Chemicals - oils						
Animal and vetetable oils	–	–	–	–	–	–
Mineral oil						
Paraffin	23	1.3	–	–	23	1.3
Petrol in vehicles	3	0.2	40	2.3	43	2.5
Petrol not in vehicles	7	0.4	3	0.2	10	0.6
Other mineral oils	4	0.2	2	0.1	6	0.3
Oil waste and undefined	5	0.3	6	0.3	11	0.6
Total	42	2.4	51	3.0	93	5.4
Chemicals - other						
Celluloid (including films)	1	0.1	–	–	1	0.1
Paint, enamel, lacquer, varnish, stains and French polish	–	–	–	–	–	–
Pitch, tar	2	0.1	10	0.6	12	0.7
Rubber, vulcanite, ebonite	1	0.1	2	0.1	3	0.2
Other chemicals	15	0.9	4	0.2	19	1.1
Total	19	1.1	16	0.9	35	2.0
Paper, cardboard, wood (not part of a structure)						
Paper, cardboard	31	1.8	16	0.9	47	2.7
Wood chippings, flour, sawdust shavings, wool	5	0.3	5	0.3	10	0.6
Wood barrels, boxes, cases, firewood etc.	14	0.8	–	–	14	0.8
Timber	2	0.1	3	0.2	5	0.3
Total	52	3.0	24	1.4	76	4.4

SECTION IV

Table 6 (Contd.)

MATERIAL FIRST IGNITED IN FIRES

Reports from Northern Ireland, 1957

Material first ignited	Fires in buildings		Fires other than those in buildings		Total	
	No.	Per cent	No.	Per cent	No.	Per cent
Textiles						
Canvas and canvas goods	–	–	1	0.1	1	0.1
Clothing on person	1	0.1	–	–	1	0.1
Clothing not on person	14	0.8	1	0.1	15	0.9
Cotton	–	–	–	–	–	–
Jute, hessian, sacking	5	0.3	–	–	5	0.3
Rags, (including oily rags)	1	0.1	2	0.1	3	0.2
Tarpaulin, waterproof sheeting, oilskins	–	–	–	–	–	–
Other textiles	3	0.2	2	0.1	5	0.3
Total	24	1.4	6	0.3	30	1.7
Furniture, furnishings, household goods						
Bedding	16	0.9	1	0.1	17	1.0
Carpets, rugs	3	0.2	–	–	3	0.2
Curtains	5	0.3	–	–	5	0.3
Furniture	29	1.7	–	–	29	1.7
Linen articles (unspecified), laundry	–	–	–	–	–	–
Seating in vehicles	–	–	2	0.1	2	0.1
Other furnishings	4	0.2	–	–	4	0.2
Total	57	3.3	3	0.2	60	3.5
Building materials, structural woodwork						
Building materials other than wood	64	3.7	1	0.1	65	3.8
Structural woodwork						
External	19	1.1	–	–	19	1.1
Internal						
Door, window frame	5	0.3	–	–	5	0.3
Floor, stairs	25	1.5	–	–	25	1.5
Partitions, linings to walls	23	1.3	–	–	23	1.3
Roof	38	2.2	–	–	38	2.2
Timber in chimney, flue	13	0.8	–	–	13	0.8
Timber under hearth	26	1.5	–	–	26	1.5
Other fittings	19	1.1	–	–	19	1.1
Not known whether internal or external	–	–	–	–	–	–
Structural woodwork hazards other than buildings	–	–	13	0.8	13	0.8
Total	232	13.5	14	0.8	246	14.3
Miscellaneous						
Coal, coke	–	–	–	–	–	–
Electrical insulation	26	1.5	49	2.9	75	4.4
Fat (margarine, suet, butter, cooking fat and lard)	38	2.2	–	–	38	2.2
Food other than fat	2	0.1	–	–	2	0.1
Refuse, rubbish, debris	7	0.4	26	1.5	33	1.9
Soot	5	0.3	–	–	5	0.3
Other	51	3.0	11	0.6	62	3.6
Unknown	251	14.6	472	27.5	723	42.2
Total fires attended	855	49.8	861	50.2	1716	100.0

Row No.		32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Row No.
		Building materials, structural woodwork								Miscellaneous materials									
		Building materials other than wood	Structural woodwork, external	Doors, window frames	Floors, stairs	Partitions, lining to walls	Roof	Timber in chimney, flue	Timber under hearth	Other fittings	Coal, coke	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	
1	Ashes, soo		1											1				10	1
2	Brazier																	-	2
3	Candle																	3	3
4	Chimney on	7	1	2	5	11	8	10	2	4						2		52	4
5	Chimney, s	5	9													1		27	5
6	Cooker, co (other th (1)												10					14	6
7	Electric c												3					3	7
8						1												6	8
9										2						1		8	9
10												4				1		6	10
11												7						7	11
12												1						1	12
13		2					1					8				4		18	13
14																1		1	14
15																		1	15
16					1													21	16
17	Explosives																	-	17
18	Fire in gr clothing,																	6	18
19	furni								24									13	19
20	struc																	24	20
21	othe	1			12	4	19	3		6					5	8		91	21
22	Fish fryir												20					23	22
23	Flue	1				1	4			1						1		12	23
24	Furnace (c																	-	24
25	Gas, (coal																	-	25
26										1			6					12	26
27																		1	27
28																		1	28
29	Incubator	1			1					1						3		23	29
30	Intention gorse etc																	-	30
31	Lightning																	-	31
32	Lime																	1	32
33	Locomotiv	1																1	33
34	Malicious																6	6	34
35	Matches																	9	35
36	Matches,													2		2		30	36
37	Mechanica															3		8	37
38	Metal, ho																	-	38
39	Naked lig	1														2		5	39
40	Oil, blow		2	2			1						1			1		10	40
		2	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	

SED CAUSE

Row No.	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	Row No.
	re, ngs, goods			Building materials, structural woodwork									Miscellaneous materials								
	Laundry	Seating in vehicles	Other furnishings	Building materials other than wood	Structural woodwork, external	Doors, window frames	Floors, stairs	Partitions, lining to walls	Roof	Timber in chimney, flue	Timber under hearth	Other fittings	Coal, coke	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	
41																				3	41
42								1	1											7	42
43																		2		21	43
44																				2	44
45												1								3	45
46																		1		3	46
47				2	5		1											1		13	47
48						1	1	4										1		6	48
49				2														1		15	49
50								1								1		6		42	50
51																					51
52																			1	2	52
53																					53
54																					54
55																					55
56							1											1		5	56
57												1						1		7	57
58				1			1		1						1			1		7	58
59				1			1		2			2				3		2	244	265	59
60			4	64	19	5	25	23	38	13	26	19		26	40	7	5	51	251	855	60
	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	

SECTION IV

Table 7A

MATERIAL FIRST IGNITED IN FIRES IN BUILDINGS IN RELATION TO THE SUPPOSED CAUSE

Reports from Northern Ireland 1957

Row No.	Supposed cause of fire	Material first ignited: Agriculture and Forestry: Crops, ricks and stacks	Agriculture and Forestry: Loose straw or hay	Agriculture and Forestry: Other agricultural material	Chemicals gases: Acetylene	Chemicals gases: Coal gas	Chemicals gases: Other gases	Chemicals - oils: Animal and vegetable oils	Chemicals - oils: Paraffin	Chemicals - oils: Petrol in vehicles	Chemicals - oils: Petrol not in vehicles	Chemicals - oils: Other mineral oils	Chemicals - oils: Oil, waste and undefined	Chemicals - other: Paint, enamel, lacquer, varnish, etc.	Chemicals - other: Pitch, tar	Chemicals - other: Rubber, vulcanite, ebonite	Chemicals - other: Other chemicals, including celluloid and celluloid goods	Paper, cardboard, Wood not Structural: Paper, cardboard	Paper, cardboard, Wood not Structural: Wooden packing materials	Paper, cardboard, Wood not Structural: Timber	Textiles: Clothing, on person	Textiles: Clothing not on person	Textiles: Cotton	Textiles: Jute, hessian, sacking	Textiles: Rags, including oily rags	Textiles: Tarpaulins, waterproof sheeting, oilskins	Textiles: Other textiles including Canvas and canvas goods	Furniture, Furnishings, household goods: Soft furnishings	Furniture, Furnishings, household goods: Furniture	Furniture, Furnishings, household goods: Linen articles, (unspecified), laundry	Furniture, Furnishings, household goods: Seating in vehicles	Furniture, Furnishings, household goods: Other furnishings	Building materials, structural woodwork: Building materials other than wood	Building materials, structural woodwork: Structural woodwork, external	Building materials, structural woodwork: Doors, window frames	Building materials, structural woodwork: Floors, stairs	Building materials, structural woodwork: Partitions, lining to walls	Building materials, structural woodwork: Roof	Building materials, structural woodwork: Timber in chimney, flue	Building materials, structural woodwork: Timber under hearth	Building materials, structural woodwork: Other fittings	Miscellaneous materials: Coal, coke	Miscellaneous materials: Electrical insulation	Miscellaneous materials: Food	Miscellaneous materials: Refuse, rubbish, debris	Miscellaneous materials: Soot	Miscellaneous materials: Other materials	Unknown material	Total	Row No.
1	Ashes, soot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	2	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	1
2	Brazier	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	2
3	Candle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
4	Chimney on fire not confined to chimney	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	1	2	5	11	8	10	2	4	-	-	-	-	2	-	52	4
5	Chimney, sparks from (outside building)	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	9	-	1	-	-	-	-	-	-	-	-	1	-	27	5
6	Cooker, cooking range, oven (other than electric, coal gas or oil) (1)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	10	-	-	14	6
7	Electric cooker	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	3	-	-	3	7
8	fire, heater, radiator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	6	8
9	iron	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	2	-	-	-	-	1	-	8	9
10	motor	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	10
11	refrigerator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	11
12	television	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	12
13	wire and cable (other than lead to apparatus)	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	8	-	-	18	13
14	wire and cable (lead to apparatus)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	1	14
15	wireless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	15
16	other apparatus	-	-	-	-	-	-	-	-	-	-	1	-	1	-	1	2	1	1	-	1	-	-	-	-	-	3	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	21	16
17	Explosives, fireworks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
18	Fire in grate, igniting bedding, clothing, linen.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	18
19	furniture and furnishings	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	10	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	13	19
20	structural timber under hearth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	-	-	24	20
21	other materials	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	31	-	-	12	4	19	3	-	6	-	-	-	5	8	-	91	21
22	Fish frying range (all fuels)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-	23	22
23	Flue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	-	-	1	-	-	-	-	-	-	-	1	1	-	-	1	4	-	-	1	-	-	-	-	-	-	1	-	12	23
24	Furnace (coal or coke)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
25	Gas, (coal) burner, jet, ring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
26	cooker	-	-	-	-	1	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	6	-	-	-	12	26
27	fire, heater, radiator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	27
28	other apparatus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	6	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	3	-	-	-	1	28
29	Incubator, brooder (all fuels).	1	5	1	-	-	-	4	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-	1	-	-	-	3	-	-	23	29
30	Intentional burning of grassland, gorse etc.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30
31	Lightning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	31
32	Lime	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	32
33	Locomotives, sparks from	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	33
34	Malicious ignition (1)(2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	34
35	Matches	1	-	-	-	1	-	-	1	-	1	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	35
36	Matches, children with (5)	11	3	-	-	-	-	-	-	1	-	-	-	-	-	-	6	-	-	-	1	-	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	2	-	30	36
37	Mechanical heat or sparks	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	1	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	8	37
38	Metal, hot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	38
39	Naked light (1)(3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	-	5	39
40	Oil, blow lamp	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	2	2	-	1	-	-	-	-	-	1	-	1	-	10	40
	Column No.	1	2	3	4	5	6	6	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	

For explanation of notes see page 21.

Table 7A (Contd.)

MATERIAL FIRST IGNITED IN FIRES IN BUILDINGS IN RELATION TO THE SUPPOSED CAUSE

Reports from Northern Ireland, 1957

Row No.	Supposed cause of fire	Material first ignited: Agriculture and Forestry: Crops, ricks and stacks	Agriculture and Forestry: Loose straw or hay	Agriculture and Forestry: Other agricultural material	Chemicals - gases: Acetylene	Chemicals - gases: Coal gas	Chemicals - gases: Other gases	Chemicals - oils: Animal and vegetable oils	Chemicals - oils: Paraffin	Chemicals - oils: Petrol in vehicles	Chemicals - oils: Petrol not in vehicles	Chemicals - oils: Other mineral oils	Chemicals - oils: Oil, waste and undefined	Chemicals - other: Paint, enamel, lacquer, varnish, etc.	Chemicals - other: Pitch, tar	Chemicals - other: Rubber, vulcanite, ebonite	Chemicals - other: Other chemicals including celluloid and celluloid goods	Paper, cardboard, wood not structural: Paper, cardboard	Paper, cardboard, wood not structural: Wooden packing materials	Paper, cardboard, wood not structural: Timber	Textiles: Clothing on person	Textiles: Clothing not on person	Textiles: Cotton	Textiles: Jute, hessian, sacking	Textiles: Rags, including oily rags	Textiles: Tarpaulins, waterproof sheeting, oilskins	Textiles: Other textiles including canvas and canvas goods	Furniture, furnishings, household goods: Soft furnishings	Furniture, furnishings, household goods: Furniture	Furniture, furnishings, household goods: Linen articles, (unspecified) laundry	Furniture, furnishings, household goods: Seating in vehicles	Furniture, furnishings, household goods: Other furnishings	Building materials, structural woodwork: Building materials other than wood	Building materials, structural woodwork: Structural woodwork, external	Building materials, structural woodwork: Doors, window frames	Building materials, structural woodwork: Floors, stairs	Building materials, structural woodwork: Partitions, lining to walls	Building materials, structural woodwork: Roof	Building materials, structural woodwork: Timber in chimney, flue	Building materials, structural woodwork: Timber under hearth	Building materials, structural woodwork: Other fittings	Miscellaneous materials: Coal, coke	Miscellaneous materials: Electrical insulation	Miscellaneous materials: Food	Miscellaneous materials: Refuse, rubbish, debris	Miscellaneous materials: Soot	Miscellaneous materials: Other materials	Unknown material	Total	Row No.
41	Oil, engine (including petrol)	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	41
42	lamp	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	42
43	stove	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	43
44	tractor	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	44
45	other apparatus	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	45
46	Oxyacetylene cutting and welding apparatus	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	3	46
47	Rubbish, burning	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	5	-	1	-	-	-	-	1	13	47
48	Slow combustion stove igniting structural woodwork	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	4	-	-	-	-	6	48
49	other materials	-	-	-	-	-	-	-	-	1	1	-	-	-	-	-	3	4	1	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	1	1	-	-	-	-	1	15	49
50	Smoking materials	1	5	-	-	-	-	-	-	1	-	-	-	-	-	-	-	6	4	-	-	3	-	-	2	-	-	-	6	6	-	-	-	-	-	-	-	1	-	-	-	-	1	6	42	50
51	Spontaneous combustion in rubbish	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51
52	other materials	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	52
53	Static electricity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53
54	Steam roller, engine, traction engine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	54
55	Sun's rays	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55
56	Taper, lighted paper or sticks	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	1	-	-	-	-	1	5	56
57	Taper, lighted paper or sticks, children with (5)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	1	7	57
58	Miscellaneous and undefined (4)	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	1	-	1	-	1	-	-	-	1	7	58
59	Unknown source of ignition	-	2	-	-	1	2	-	-	-	-	1	-	-	-	-	-	-	1	1	-	-	-	-	-	-	1	1	-	-	-	-	1	-	1	-	2	-	-	2	-	-	3	-	2	244	265	59
60	Total fires in buildings	18	18	3	1	7	2	-	23	3	7	4	5	-	2	1	16	31	19	2	1	14	-	5	1	-	3	24	29	-	-	4	64	19	5	25	23	38	13	26	19	-	26	40	7	5	51	251	855	60

Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48
Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48

For explanation of notes see page 21

SECTION IV

Table 7B

MATERIAL FIRST IGNITED IN FIRES IN HAZARDS OTHER THAN BUILDINGS IN RELATION TO THE SUPPOSED CAUSE

Reports from Northern Ireland, 1957

Row No.	Supposed cause of fire	Material first ignited: Agriculture and Forestry — Crops, ricks and stacks	Loose straw or hay	Other agricultural materials	Chemicals - gases — Acetylene	Coal gas	Other gases	Chemicals - oils — Animal and vegetable oils	Paraffin	Petrol in vehicles	Petrol not in vehicles	Other mineral oils	Oil, waste and undefined	Chemicals - other — Paint, enamel, lacquer, varnish, etc.	Pitch, tar	Rubber, vulcanite, ebonite	Other chemicals, including celluloid and celluloid goods	Paper, cardboard, wood, not structural — Paper, cardboard	Wooden packing materials	Timber	Textiles — Clothing on person	Clothing not on person	Cotton	Jute, hessian, sacking	Rags, including oily rags	Tarpaulins, waterproof sheeting, oilskins	Other textiles, including canvas and canvas goods	Furniture, furnishings household goods — Soft furnishings	Furniture	Linen articles (unspecified) laundry	Seating in vehicles	Other furnishings	Building materials, structural woodwork — Building materials other than wood	Structural woodwork other than in buildings	Structural woodwork external	Miscellaneous material — Coal, coke	Electrical insulation	Food	Refuse, rubbish, debris	Soot	Other materials	Unknown material	Total	Row No.
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	
1	Aircraft, crashed	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	1
2	Ashes, soot	-	-	5	-	-	-	-	-	-	-	-	-	1	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	1	-	14	2
3	Brazier	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	3
4	Camp fire, fire in open air (1)	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	4
5	Candle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5
6	Chimney on fire, not confined to chimney	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
7	Chimney sparks from outside building	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	7
8	Cooker, cooking range, oven, other than electric, coal, gas or oil	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
9	Electric cooker	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
10	fire, heater, radiator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
11	motor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	11
12	refrigerator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12
13	wire and cable other than lead to apparatus	-	-	-	-	-	-	-	-	7	1	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	38	-	-	-	1	-	49	13
14	wire and cable lead to apparatus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	2	14
15	wireless	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
16	other apparatus	-	-	-	-	-	-	-	-	2	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	14	16
17	Explosives, fireworks	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	5	17
18	Fish frying range, all fuels	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	18
19	Flue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
20	Furnace, coal or coke	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
21	Gas (coal) burner, jet, ring	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
22	fire, heater, radiator	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
23	other apparatus	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	23
24	Incubator, brooder (all fuels)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
25	Intentional burning of grassland, gorse, etc.	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	25
26	Lightning	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
27	Lime	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
28	Locomotives, sparks from	-	1	60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	62	28
29	Malicious ignition (1)(2)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	29
30	Matches	1	1	9	-	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	14	30
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	

For explanation of notes see page 21

Table 7B (Contd.)

MATERIAL FIRST IGNITED IN FIRES IN HAZARDS OTHER THAN BUILDINGS IN RELATION TO SUPPOSED CAUSE

Reports from Northern Ireland, 1957

Row No.	Supposed cause of fire	Material first ignited: Agriculture and forestry: Crops, ricks and stacks	Agriculture and forestry: Loose straw or hay	Agriculture and forestry: Other agricultural materials	Chemicals - gases: Acetylene	Chemicals - gases: Coal gas	Chemicals - gases: Other gases	Chemicals - oils: Animal and vegetable oils	Chemicals - oils: Paraffin	Chemicals - oils: Petrol in vehicles	Chemicals - oils: Petrol not in vehicles	Chemicals - oils: Other mineral oils	Chemicals - oils: Oil, waste and undefined	Chemicals - other: Paint, enamel, lacquer, varnish, etc.	Chemicals - other: Pitch, tar	Chemicals - other: Rubber, vulcanite, ebonite	Chemicals - other: Other chemicals, including celluloid and celluloid goods	Paper, cardboard, wood, not structural: Paper, cardboard	Paper, cardboard, wood, not structural: Wooden packing materials	Paper, cardboard, wood, not structural: Timber	Textiles: Clothing on person	Textiles: Clothing not on person	Textiles: Cotton	Textiles: Jute, hessian, sacking	Textiles: Rags including oily rags	Textiles: Tarpaulins, waterproof sheeting, oilskins	Textiles: Other textiles, including canvas and canvas goods	Furniture, furnishings, household goods: Soft furnishings	Furniture, furnishings, household goods: Furniture	Furniture, furnishings, household goods: Linen articles, (unspecified) laundry	Furniture, furnishings, household goods: Seating in vehicles	Furniture, furnishings, household goods: Other furnishings	Building materials structural woodwork: Building materials other than wood	Building materials structural woodwork: Structural woodwork other than in buildings	Miscellaneous materials: Structural woodwork external	Miscellaneous materials: Coal, coke	Miscellaneous materials: Electrical insulation	Miscellaneous materials: Food	Miscellaneous materials: Refuse, rubbish, debris	Miscellaneous materials: Soot	Miscellaneous materials: Other materials	Unknown material	Total	Row No.
31	Matches, children with (5)	5	-	25	-	-	-	-	-	-	-	-	-	-	-	1	-	7	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	2	-	44	31
32	Mechanical heat and sparks	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	4	32
33	Metal, hot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33
34	Naked light (1) (3)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34
35	Oil, blowlamp	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	35
36	engine (including petrol)	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	2	-	23	36
37	lamp	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	3	37
38	stove	-	-	1	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	38
39	tractor	-	-	1	-	-	-	-	-	9	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	39
40	other apparatus	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	40
41	Oxyacetylene cutting and welding apparatus	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	41
42	Rubbish burning	3	1	15	-	-	-	-	-	-	-	-	-	-	-	1	-	1	2	2	-	-	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	2	-	29	42
43	Slow combustion stove igniting structural woodwork	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43
44	other materials	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	2	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	11	44
45	Smoking materials	-	-	25	-	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	4	-	-	35	45
46	Spontaneous combustion in rubbish	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	46
47	in other materials	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	47
48	Static electricity	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48
49	Steamroller, engine, traction engine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	49
50	Sun's rays	-	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	4	50
51	Taper, lighted paper or sticks	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	51
52	Taper, lighted paper or sticks, children with (5)	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	3	52
53	Miscellaneous and undefined (4)	-	-	7	-	1	-	-	-	2	-	-	-	-	2	-	-	2	1	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	9	-	2	-	27	53
54	Unknown source of ignition	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	465	468	54
55	Total fires other than those in buildings	9	4	170	-	5	1	-	-	40	3	2	6	-	10	2	4	16	5	3	-	1	-	-	2	-	3	1	-	-	2	-	1	13	-	-	49	-	26	-	11	472	861	55
	Column No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	

For explanation of notes see page 21

SECTION IV

Table 8

METHOD OF EXTINCTION OF FIRES

Reports from Northern Ireland, 1957

Row No.	Method of extinction	Fires in buildings						Fires other than those in buildings						Total No. of fires		Row No.
		Extinguished by Fire Brigade		Extinguished before arrival of Fire Brigade		Total		Extinguished by Fire Brigade		Extinguished before arrival of Fire Brigade		Total				
		No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	No.	Per cent	
1	Burned out	-	-	10	0.6	10	0.6	-	-	79	4.6	79	4.6	89	5.2	1
2	Removal	39	2.3	6	0.3	45	2.6	5	0.3	3	0.2	8	0.5	53	3.1	2
3	Automatic sprinklers	-	-	1	0.1	1	0.1	-	-	-	-	-	-	1	0.1	3
4	Beating	3	0.2	-	-	3	0.2	181	10.6	14	0.8	195	11.4	198	11.5	4
5	Smothering	3	0.2	4	0.2	7	0.4	-	-	7	0.4	7	0.4	14	0.8	5
6	Sand, earth etc.	-	-	2	0.1	2	0.1	2	0.1	6	0.3	8	0.5	10	0.6	6
7	Water from buckets	21	1.2	47	2.7	68	4.0	7	0.4	15	0.9	22	1.3	90	5.2	7
8	Water from stirrup or hand pumps	48	2.8	-	-	48	2.8	7	0.4	-	-	7	0.4	55	3.2	8
9	Chemicals and chemical extinguishers	32	1.9	15	0.9	47	2.7	24	1.4	14	0.8	38	2.2	85	5.0	9
10	Two or more methods 4-9	1	0.1	2	0.1	3	0.2	26	1.5	2	0.1	28	1.6	31	1.8	10
11	Water from garden hose	-	-	2	0.1	2	0.1	-	-	-	-	-	-	2	0.1	11
12	Hose reel jets (using water in tank only)	331	19.3	-	-	331	19.3	237	13.8	-	-	237	13.8	568	33.1	12
13	Hose reel jets (using more water than that in tank)	37	2.2	-	-	37	2.2	19	1.1	-	-	19	1.1	56	3.3	13
14	Jets from inside hose reel or inside hydrant	3	0.2	2	0.1	5	0.3	1	0.1	-	-	1	0.1	6	0.3	14
15	Jets from pumps and hydrants	235	13.7	-	-	235	13.7	202	11.8	5	0.3	207	12.1	442	25.8	15
16	Other and undefined methods	6	0.3	5	0.3	11	0.6	1	0.1	4	0.2	5	0.3	16	0.9	16
17	Total fires attended	759	44.2	96	5.6	855	49.8	712	41.5	149	8.7	861	50.2	1716	100.0	17

Notes on method of extinction

1. "Removal" includes occurrences where (a) burning material was removed from the building, (b) gas supply was turned off. If the burning material was tackled with methods 3-11 before removing it from the building, then such occurrences where classified under whichever of these methods applied.

2. Methods 11 - 14 and method 15 include those occurrences in which methods 3-10 and 3-4 respectively may also have been used.

3. "Fires extinguished by Fire Brigade" include those fires which were tackled but not extinguished before the arrival of the Fire Brigade.

SECTION IV

Table 9

BEHAVIOUR OF SPRINKLER SYSTEMS AT FIRES

Reports from Northern Ireland, 1957

There were five incidents reported at premises where sprinklers were installed. In one incident the fire was extinguished by an unknown number of heads; in another it was controlled by seven heads. In one fire two heads were actuated but other means were used to extinguish the fire. In two incidents there was insufficient heat to actuate the heads.

Table 10

PERSONS RESCUED OR ESCAPED BY EMERGENCY MEANS FROM FIRES

Reports from Northern Ireland, 1957

Appliance or method used	No. of persons
Rescue with Fire Brigade assistance from	
Aircraft	-
Buildings	
Ladder extension	2
other or undefined	-
Turntable mechanical	-
Other and undefined apparatus	-
Without apparatus	2
Total	4
Rescue without Fire Brigade assistance from	
Buildings	
Carried or assisted out	3
Lowered from windows, roof, etc.	-
Ladder	1
Road vehicles	-
Ships	-
Total	4
Escape by emergency means from	
Aircraft	
Through exits or from debris	-
Buildings	
Jumping from upstairs window, roof	1
Through ground floor windows	-
Other or undefined methods	1
Total	2
Total persons rescued or escaped	10

SECTION IV

Table 11

NATURE OF INJURIES OF CASUALTIES IN FIRES

Reports from Northern Ireland, 1957

Nature of Injury	Fire Brigades	Other Casualties	Total
Fatal casualties			
Burns and scalds	-	6	6
Overcome by gas or smoke	-	3	3
Total	-	9	9
Non-fatal casualties **			
Burns and scalds	1	19	20
Bruises, cuts, abrasions	4	2	6
Dislocations, sprains, fractures	-	1	1
Overcome by gas or smoke	1	2	3
More than one of the above injuries	-	1	1
Shock *	-	2	2
Other and undefined injuries	2	1	3
Total	8	28	36
Total casualties	8	37	45

** Change in reporting procedure excludes casualties requiring first aid treatment only in 1954 and subsequent years.

Casualties who suffered more than one type of injury have been classified according to the nature of the more serious injury.

* Casualties who suffered shock in addition to another injury have been classified according to the nature of the other injury.