FORESTRY FIRE STATISTICS

1974-75 to 1983-84

B REES

OCTOBER 1984

FIRE PROTECTION BRANCH

RESEARCH REPORT NO.22

LIST OF TABLES

INTRODUCTION

The analyses presented in this report[1] are based on data for the 10 years from 1974/75 to 1983/84.

These data are on computer files within the Government Computing Service Burroughs system. The data were analysed using both the facilities available on SPSS[2] and specially written Fortran programs.

Only fires that originated in, or burnt into, the Fire Protected Area (FPA) were included (i.e. fires with Land Status codes[3] 1 to 8), and the areas burnt refer only to areas burnt within the FPA. The results will differ slightly from those which would be obtained from analysis of fire statistics presented in Annual Reports of the Forests Commission Victoria (FCV) for the period. Statistics in the 1974/75 report include information on all fires attended by the FCV inside or outside the FPA.

In some instances complete information could not be obtained and therefore not all fires on which each analysis was based are shown in the table headings. The divisions refered to in the tables are those used by the FCV (map appended).

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[1] Fire Research Branch Report No. 12, gives analyses for the period 1972/73 to 1980/81.

[2] N H Nie et al (1975) SPSS - Statistical package for the social sciences. 2nd Edition. McGraw-Hill.

[3] Division of Forest Protection (1981) Instructions for completing Form 338B - Final Fire Report, Part 1.

RESULTS

1 General Statistics (Tables 1 and 2)

* 4983 fires burnt 1366235 ha within the FPA.
* the greatest number (19.3%) occurred in South Western Division.
* the least number (9.8%) occurred in Central Division.
* the greatest area burnt was in Western Division - 46.5% of the States total.
* 81.8% of the total area burnt was State Forest and 10.3% National Park.

2 Fire Origins (Tables 3 to 6)

* 56.4% of fires originated in State Forest and 26.5% in private property within the FPA.
* 68.4% of fires in Eastern Division originated in State Forest.
* 41.4% of fires in South Western Division originated in private property within the FPA.

3 Distribution (Tables 7 to 9)

* January had the largest number of fires (22.8%) and the greatest area burnt (22.5%).
* 79% of the area burnt in Southern Division was burnt during September to November.

4 Cause (Tables 10 to 15)

* lightning was the single largest cause of fires in both number (25.2%) and area burnt (51.6%).
* 41.5% of fires in Eastern Division were caused by lightning.
* These fires burnt 32.6% of the area burnt in the Division.
* Deliberate lighting with malicicious intent was the source of the 17.8% of fires responsible for 14.1% of the total area burnt.
* 31.3% of fires in Central Division were deliberately lit and they were responsible for 91.2% of the area burnt in the Division.

5 Detection/Suppression (Tables 16 to 21)

* 34.2% of fires were detected by fire lookouts and 25.9% by landowners/residents.
* of fires originating within the FPA, the FCV conducted first attack on 56.8% and the CFA on 33.2%.
* at first attack 59.7% of fires were 0.1 - 1.0 ha in area.
* in South Western Division, 72.7% of fires were 0.1 - 1.0 ha at first attack and in Western Division, 10.1% were greater than 100.0 ha at first attack.
* the CFA attended 54.1% of fires that burnt within the FPA.

6 Fire Area Classes (Table 22)

* 64.5% of fires were controlled between 0 and 1 ha.
* 2.2% of fires burnt more than 1000 ha.

APPENDIX

TABLES 1 - 22

MAP OF FCV DIVISIONS

The following abbreviations have been used in table construction.

1 Land Status

SF = State forest
NP = National park
PPL = Protected public land
OPL = Other public land
PP = Private property
PP(IN) = Private property within the Fire Protected Area
PP(OUT) = Private property outside the Fire Protected Area

2 Divisions

C = Central
E = Eastern
N = Northern
NE = North Eastern
S = Southern
SW = South Western
W = Western

3 Agencies

FCV = Forests Commission Victoria
CFA = Country Fire Authority
NPS = National Parks Service
SEC = State Electricity Commission
MMBW = Melbourne and Metropolitan Board of Works

4 A dash (-) has been used to indicate when there was no record for a classification. Zero has been used where a record for the classification occurred but was less than 0.05%.

TABLE 1 NUMBER OF FIRES AND AREAS BURNT BY DIVISIONS (4983 FIRES)

DIVISION	NUMBER OF FIRES		AREAS	
	NO.	%	HA.	%
C	486	9.8	74430	5.4
E	885	17.8	450138	33.0
N	610	12.2	5415	0.4
NE	697	14.0	40668	3.0
S	599	12.0	52415	3.8
SW	962	19.3	108330	7.9
W	744	14.9	634839	46.5
STATE	4983	100.0	1366235	100.0

TABLE 2 AREA BURNT BY LAND STATUS (4983 FIRES)

LAND STATUS	TOTAL AREAS	
	HA.	%
SF	1117546	81.8
NP	141250	10.3
PPL	17258	1.3
OPL	23301	1.7
PP(IN)	66880	4.9
STATE	1366235	100.0

TABLE 3 NUMBER OF FIRES BY LAND STATUS AT ORIGIN (4983 FIRES)

LAND STATUS (ORIGIN)	NUMBER OF FIRES	
	NO.	%
SF	2809	56.4
NP	249	5.0
PPL	46	1.0
OPL	400	8.0
PP(IN)	1323	26.5
PP(OUT)	156	3.1
STATE	4983	100.0

TABLE 4 AREA BURNT(%) BY ORIGIN FOR LAND STATUS CATEGORIES (4983 FIRES)

LAND STATUS (ORIGIN)	LAND STATUS STATE	SF	NP	PPL	OPL	PP(IN)
SF	82.0	88.4	55.5	54.9	44.6	49.6
NP	4.3	1.1	30.8	18.5	–	0.1
PPL	0.1	0.0	–	7.8	0.0	0.0
OPL	0.5	0.2	0.1	0.4	13.2	2.0
PP(IN)	5.9	4.2	0.8	12.0	2.4	44.3
PP(OUT)	7.2	6.1	12.8	6.4	39.8	4.0
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 5 NUMBER OF FIRES(%) BY LAND STATUS AT ORIGIN FOR DIVISIONS (4983 FIRES)

LAND STATUS (ORIGIN)	STATE	DIVISION C	E	N	NE	S	SW	W
SF	56.4	36.8	68.4	72.5	53.1	63.6	41.2	58.6
NP	5.0	18.5	4.3	–	2.8	5.4	2.0	6.9
PPL	1.0	0.2	1.1	0.2	0.4	2.8	0.6	1.1
OPL	8.0	5.3	4.7	9.3	9.3	5.0	13.1	7.2
PP(IN)	26.5	37.3	20.8	3.6	33.7	22.9	41.4	22.2
PP(OUT)	3.1	1.9	0.7	14.4	0.7	0.3	1.7	4.0
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 6 AREA BURNT(%) BY LAND STATUS AT ORIGIN FOR DIVISIONS (4983 FIRES)

LAND STATUS (ORIGIN)	STATE	DIVISION C	E	N	NE	S	SW	W
SF	82.0	94.7	91.9	54.3	69.7	88.3	25.3	83.6
NP	4.3	0.2	0.8	–	0.3	5.2	0.1	8.2
PPL	0.1	–	0.1	0.0	0.0	1.6	0.0	0.1
OPL	0.5	0.1	0.1	5.0	1.8	0.1	2.3	0.3
PP(IN)	5.9	4.0	1.5	2.0	28.0	4.8	31.5	3.6
PP(OUT)	7.2	1.0	5.6	38.7	0.2	0.0	40.8	4.2
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 7 MONTHLY DISTRIBUTION OF FIRE NUMBER(%) FOR DIVISIONS (4983 FIRES)

		DIVISION						
MONTH	STATE	C	E	N	NE	S	SW	W
JULY	0.3	0.2	0.5	0.8	—	0.2	0.3	—
AUGUST	2.4	0.8	6.7	2.5	0.9	2.5	1.0	1.1
SEPTEMBER	3.1	1.4	8.8	2.0	0.1	5.0	1.7	1.6
OCTOBER	6.4	4.9	6.8	5.2	3.7	8.0	7.0	8.5
NOVEMBER	9.7	6.2	9.8	8.9	6.6	10.7	10.4	13.6
DECEMBER	17.9	16.9	20.3	17.2	21.4	19.0	13.1	18.4
JANUARY	22.8	25.9	18.0	23.6	27.7	25.4	20.5	21.9
FEBRUARY	16.1	20.6	14.9	15.2	19.1	14.4	17.2	12.5
MARCH	13.1	12.4	10.7	12.5	14.4	9.3	18.0	12.6
APRIL	7.0	9.5	2.8	10.0	6.0	4.8	8.9	7.8
MAY	1.1	0.8	0.6	2.1	0.1	0.5	1.8	1.9
JUNE	0.1	0.4	0.1	—	—	0.2	0.1	0.1
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 8 MONTHLY DISTRIBUTION OF AREA BURNT(%) FOR DIVISIONS (4983 FIRES)

		DIVISION						
MONTH	STATE	C	E	N	NE	S	SW	W
JULY	0.0	—	0.0	0.4	—	—	0.0	—
AUGUST	0.8	0.0	1.4	8.6	0.1	0.8	0.6	0.6
SEPTEMBER	6.9	0.7	15.7	0.5	0.0	32.3	3.0	0.4
OCTOBER	6.6	2.8	9.7	2.7	5.2	18.3	0.8	5.0
NOVEMBER	20.2	28.2	12.8	5.1	2.1	28.4	0.7	28.4
DECEMBER	14.7	1.9	1.1	34.3	1.5	2.1	8.4	28.6
JANUARY	25.5	2.7	28.0	11.3	50.0	10.3	17.2	27.7
FEBRUARY	12.2	62.7	0.2	7.3	14.8	1.9	67.7	6.0
MARCH	10.7	0.4	28.9	8.1	20.0	0.4	0.7	1.1
APRIL	2.2	0.6	2.0	16.9	6.3	5.2	0.8	2.1
MAY	0.1	0.0	0.2	4.8	0.0	0.3	0.1	0.1
JUNE	0.1	0.0	—	—	—	—	0.0	0.0
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 9 NUMBER OF FIRES(%) BY DAY OF ORIGIN FOR DIVISIONS (3874 FIRES)

		DIVISION						
DAY	STATE	C	E	N	NE	S	SW	W
SUNDAY	20.3	18.2	19.6	21.6	20.8	20.8	23.6	15.9
MONDAY	14.2	13.6	12.3	13.5	13.0	13.6	14.4	19.6
TUESDAY	14.0	12.6	17.0	11.9	14.8	14.3	13.8	11.9
WEDNESDAY	11.0	11.8	11.2	10.7	12.5	9.0	10.6	11.0
THURSDAY	13.0	15.4	12.0	10.0	16.2	13.4	11.6	13.6
FRIDAY	12.8	13.8	12.8	13.1	11.6	13.4	11.4	14.2
SATURDAY	14.7	14.6	15.1	19.2	11.1	15.5	14.6	13.8
TOTAL	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

TABLE 10 NUMBER OF FIRES(%) BY CAUSE(SOURCE) FOR DIVISIONS
(4983 FIRES)

SOURCE	STATE	DIVISION C	E	N	NE	S	SW	W
LIGHTNING	25.2	16.3	41.5	7.5	35.7	35.7	9.1	28.6
EXHAUST-CHAINSAW	0.6	0.4	0.6	0.7	0.4	-	0.6	1.1
EXHAUST-OTHER	1.6	1.2	0.3	2.0	1.7	0.8	1.6	3.5
SNIGGING-HAULING	0.1	0.4	-	-	0.3	-	-	0.1
BURNING VEHICLE-MACHINE	1.5	1.4	1.4	1.8	1.3	1.2	2.0	1.4
PIPE-CIGARETTE-MATCH	7.8	5.3	1.8	22.6	5.7	4.5	8.9	7.3
CAMPFIRE-BARBEQUE	8.7	5.6	4.5	19.2	6.8	6.2	8.4	11.3
PRESCRIBED BURNING-DEPARTMENTAL	1.4	2.3	2.0	0.3	1.2	2.0	0.6	1.5
BURNING OFF-RAILWAY	0.1	-	0.1	0.2	-	-	0.1	-
BURNING OFF-STUBBLE-GRASS-SCRUB	5.3	4.1	4.7	2.1	4.2	7.0	8.4	5.4
BURNING OFF-WINDROW-HEAP	4.1	6.2	2.9	1.3	3.6	4.2	5.3	5.4
TRAIN	0.6	-	0.1	1.1	0.3	-	1.6	0.5
DELIBERATE LIGHTING-MALICIOUS	17.8	31.3	19.4	11.3	9.3	20.7	20.2	14.7
WASTE DISPOSAL-DOMESTIC	1.7	1.0	0.7	2.0	2.4	0.5	3.1	1.5
WASTE DISPOSAL-INDUSTRIAL -SAWMILL-TIP	2.7	3.5	1.7	2.8	1.7	1.5	4.4	2.8
POWER TRANSMISSION	2.0	2.5	0.7	1.0	2.4	1.8	3.6	1.7
HOUSE-STOVE-FLUE	0.8	2.1	0.9	0.2	1.6	0.5	0.4	0.7
BURNING BUILDING	0.4	0.4	0.5	0.2	0.6	0.2	0.5	0.4
FIREWORKS	0.0	-	-	-	0.1	-	-	-
RELIGHT-WILDFIRE	0.7	0.2	1.4	0.8	0.3	0.3	0.7	0.5
RELIGHT-PRESCRIBED FIRE	1.3	1.2	2.5	0.6	1.2	1.0	1.4	1.2
RELIGHT-BURNING OFF	5.2	6.8	5.5	2.5	6.0	6.4	7.1	2.0
OTHER	3.9	4.5	2.3	6.7	6.0	1.7	3.6	3.6
UNKNOWN	6.5	3.3	4.5	13.1	7.2	3.8	8.4	4.8
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 11 NUMBER OF FIRES(%) BY CAUSE(AGENCY) FOR DIVISIONS (4983 FIRES)

AGENCY	STATE	DIVISION C	E	N	NE	S	SW	W
LIGHTNING	25.2	16.3	41.5	7.5	35.7	35.7	9.0	28.6
CHILDREN	4.1	8.4	1.0	10.2	2.6	0.8	4.6	3.2
EMPLOYEE-FOREST INDUSTRY	2.2	2.1	3.6	0.8	2.1	2.3	1.7	2.4
EMPLOYEE-FOREST DEPARTMENT	3.1	3.7	4.8	2.0	2.9	3.3	2.3	2.8
EMPLOYEE-OTHER DEPARTMENT	1.8	2.3	1.4	1.3	2.3	1.5	1.7	2.4
EMPLOYEE-OTHER INDUSTRY	1.0	1.4	0.5	1.0	1.1	1.7	1.1	0.8
RECREATIONIST-BUSHWALKER	0.4	0.2	0.1	0.7	-	0.9	0.6	0.1
RECREATIONIST-CAMPER	3.9	2.5	1.2	8.4	4.9	3.5	2.4	5.4
RECREATIONIST-FISHERMAN/SHOOTER	3.6	1.0	1.9	11.7	2.3	1.3	2.7	5.0
RECREATIONIST-DAY VISITOR	4.2	3.3	1.8	6.9	3.3	2.2	7.2	3.8
RESIDENT-PERMANENT	5.8	5.6	2.9	3.9	5.9	4.7	10.9	5.3
RESIDENT-PART TIME	2.3	4.5	0.6	2.3	1.6	2.5	4.4	0.8
FARMER/FARM EMPLOYEE-FULL TIME	7.9	4.9	7.5	3.9	9.9	7.5	8.0	12.3
FARMER/FARM EMPLOYEE-PART TIME	2.8	4.5	3.3	0.5	2.4	2.0	4.4	2.0
MILITARY	0.2	0.2	-	0.8	-	0.5	0.2	-
TRAVELLER	3.7	4.9	2.8	4.6	3.9	3.9	3.3	3.2
GRAZING LEASEHOLDER	0.5	0.2	1.9	0.2	-	-	0.4	0.4
OTHER	7.5	9.3	4.1	6.4	6.9	6.7	12.3	6.2
UNKNOWN	19.8	24.7	19.1	26.9	12.2	19.0	22.8	15.3
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 12 AREA BURNT(%) BY CAUSE(SOURCE) FOR DIVISIONS
(4983 FIRES)

SOURCE	STATE	C	E	N	NE	S	SW	W
		DIVISION						
LIGHTNING	51.6	0.2	32.6	1.7	48.1	11.6	1.8	83.5
EXHAUST-CHAINSAW	2.5	0.0	7.4	0.1	1.7	-	0.0	0.0
EXHAUST-OTHER	0.6	0.1	-	0.4	0.5	0.0	0.4	1.3
SNIGGING-HAULING	0.0	0.0	0.0	-	0.0	-	-	0.0
BURNING VEHICLE-MACHINE	0.8	0.1	0.0	2.7	0.0	0.4	0.0	1.6
PIPE-CIGARETTE-MATCH	0.1	0.1	0.0	11.4	0.7	0.8	0.1	0.0
CAMPFIRE-BARBEQUE	0.3	0.4	0.1	17.6	1.6	0.9	0.6	0.1
PRESCRIBED BURNING-DEPARTMENTAL	3.2	3.0	3.1	8.5	11.2	28.0	0.1	1.2
BURNING OFF-RAILWAY	0.0	-	0.0	0.0	-	-	0.0	-
BURNING OFF-STUBBLE-GRASS-SCRUB	2.3	2.2	1.6	0.8	2.7	16.1	0.9	1.8
BURNING OFF-WINDROW-HEAP	1.5	0.1	0.2	3.1	5.8	1.1	0.1	2.5
TRAIN	0.0	-	-	3.2	0.0	-	0.2	0.0
DELIBERATE LIGHTING-MALICIOUS	14.1	91.2	12.3	9.1	3.7	32.9	21.6	4.2
WASTE DISPOSAL-DOMESTIC	0.1	0.0	0.0	0.1	0.0	0.0	0.2	0.2
WASTE DISPOSAL-INDUSTRIAL -SAWMILL-TIP	0.0	0.0	0.1	1.1	0.0	0.0	0.0	0.0
POWER TRANSMISSION	2.4	0.0	0.0	0.8	21.1	0.5	22.2	0.0
HOUSE-STOVE-FLUE	0.2	0.1	0.0	0.0	0.0	-	1.9	0.0
BURNING BUILDING	0.3	-	0.0	0.0	0.0	0.0	0.0	0.6
FIREWORKS	0.0	-	-	-	0.0	-	-	-
RELIGHT-WILDFIRE	9.4	-	28.3	1.6	0.0	0.1	0.0	0.2
RELIGHT-PRESCRIBED FIRE	2.9	-	5.7	6.2	0.2	0.0	5.3	1.3
RELIGHT-BURNING OFF	3.6	2.0	8.2	0.5	1.0	4.0	1.1	1.0
OTHER	0.9	0.2	0.2	25.1	1.3	3.4	5.0	0.4
UNKNOWN	3.2	0.3	0.2	6.0	0.4	0.2	38.5	0.1
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 13 AREA BURNT(%) BY CAUSE(AGENCY) FOR DIVISIONS
(4983 FIRES)

AGENCY	STATE	DIVISION C	E	N	NE	S	SW	W
LIGHTNING	51.6	0.2	32.6	1.7	48.1	11.6	1.8	83.5
CHILDREN	0.0	0.1	0.0	1.2	0.1	0.0	0.0	0.0
EMPLOYEE-FOREST INDUSTRY	3.2	0.0	8.8	0.6	1.9	0.3	0.4	0.5
EMPLOYEE-FOREST DEPARTMENT	4.1	3.1	3.4	16.2	11.1	28.0	5.4	1.9
EMPLOYEE-OTHER DEPARTMENT	11.6	0.7	33.4	3.3	5.5	0.6	0.1	0.7
EMPLOYEE-OTHER INDUSTRY	0.1	0.1	0.0	0.2	0.0	1.8	0.0	0.0
RECREATIONIST-BUSHWALKER	0.2	0.0	0.1	0.2	-	3.8	0.0	0.0
RECREATIONIST-CAMPER	0.1	0.0	0.0	8.1	0.5	0.4	0.5	0.0
RECREATIONIST-FISHERMAN/SHOOTER	0.1	0.3	0.0	8.2	0.1	0.4	0.0	0.1
RECREATIONIST-DAY VISITOR	1.1	0.5	0.1	4.0	1.8	25.5	0.1	0.0
RESIDENT-PERMANENT	2.4	28.2	0.5	0.9	0.8	0.6	0.7	1.4
RESIDENT-PART TIME	0.1	1.0	0.0	0.5	0.1	0.1	0.2	0.1
FARMER/FARM EMPLOYEE-FULL TIME	6.3	0.2	8.2	26.0	3.5	7.3	2.9	6.3
FARMER/FARM EMPLOYEE-PART TIME	0.5	2.7	0.6	0.1	0.2	0.1	0.3	0.3
MILITARY	0.0	0.0	-	0.1	-	0.4	0.0	-
TRAVELLER	0.4	0.1	0.1	6.3	0.3	0.3	0.2	0.5
GRAZING LEASEHOLDER	0.7	0.0	1.8	0.0	-	-	0.0	0.1
OTHER	4.3	0.2	0.4	2.9	23.5	1.3	28.3	2.4
UNKNOWN	13.2	62.6	10.0	19.5	2.5	17.5	59.1	2.2
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 14 NUMBER OF FIRES(%) BY CAUSE(SOURCE) FOR LAND STATUS AT ORIGIN (4983 FIRES)

SOURCE	STATE	SF	LAND STATUS (ORIGIN) NP	PPL	OPL	PP
LIGHTNING	25.2	34.7	32.6	19.6	3.7	11.9
EXHAUST-CHAINSAW	0.6	0.7	-	-	-	0.5
EXHAUST-OTHER	1.6	0.9	-	4.4	2.5	3.6
SNIGGING-HAULING	0.1	0.1	-	-	-	0.2
BURNING VEHICLE-MACHINE	1.5	1.0	2.0	2.2	4.2	1.5
PIPE-CIGARETTE-MATCH	7.8	8.5	4.4	4.3	11.2	6.1
CAMPFIRE-BARBEQUE	8.7	10.9	7.2	8.7	9.5	4.4
PRESCRIBED BURNING-DEPARTMENTAL	1.4	2.0	2.8	-	-	0.3
BURNING OFF-RAILWAY	0.1	-	-	-	0.3	0.1
BURNING OFF-STUBBLE-GRASS-SCRUB	5.3	2.1	1.2	4.3	3.5	12.7
BURNING OFF-WINDROW-HEAP	4.1	0.9	0.4	2.2	1.3	11.6
TRAIN	0.6	0.1	-	-	5.0	0.4
DELIBERATE LIGHTING-MALICIOUS	17.8	20.3	41.4	39.1	19.5	7.8
WASTE DISPOSAL-DOMESTIC	1.7	0.9	0.4	-	3.5	3.0
WASTE DISPOSAL-INDUSTRIAL -SAWMILL-TIP	2.7	1.6	0.4	-	13.2	2.2
POWER TRANSMISSION	2.0	0.8	0.4	-	3.0	4.4
HOUSE-STOVE-FLUE	0.8	0.2	0.4	-	-	2.4
BURNING BUILDING	0.4	0.1	-	-	0.3	1.0
FIREWORKS	0.0	0.0	-	-	-	-
RELIGHT-WILDFIRE	0.7	0.7	-	-	0.5	0.7
RELIGHT-PRESCRIBED FIRE	1.3	2.0	0.8	-	0.3	0.6
RELIGHT-BURNING OFF	5.2	2.3	0.8	-	4.2	12.0
OTHER	3.9	2.4	2.0	6.5	5.5	6.6
UNKNOWN	6.5	6.8	2.8	8.7	8.8	6.0
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 15 NUMBER OF FIRES(%) BY CAUSE(AGENCY) FOR LAND STATUS AT ORIGIN (4983 FIRES)

AGENCY	STATE	SF	NP	PPL	OPL	PP
LIGHTNING	25.2	34.7	32.6	19.6	3.7	11.9
CHILDREN	4.1	3.5	10.1	4.3	6.0	3.7
EMPLOYEE-FOREST INDUSTRY	2.2	2.5	—	—	1.0	2.4
EMPLOYEE-FOREST DEPARTMENT	3.1	4.9	2.0	—	0.7	0.6
EMPLOYEE-OTHER DEPARTMENT	1.8	0.8	4.4	4.3	9.0	1.2
EMPLOYEE-OTHER INDUSTRY	1.0	0.7	—	2.2	1.5	1.6
RECREATIONIST-BUSHWALKER	0.4	0.5	1.2	2.2	0.3	—
RECREATIONIST-CAMPER	3.9	5.0	3.2	4.3	4.0	1.7
RECREATIONIST-FISHERMAN/SHOOTER	3.6	4.6	0.8	6.5	2.7	2.4
RECREATIONIST-DAY VISITOR	4.2	5.3	6.0	—	5.5	1.4
RESIDENT-PERMANENT	5.8	3.0	0.4	—	10.2	11.0
RESIDENT-PART TIME	2.3	0.5	—	2.2	0.8	6.6
FARMER/FARM EMPLOYEE-FULL TIME	7.9	2.9	2.4	—	2.5	20.1
FARMER/FARM EMPLOYEE-PART TIME	2.8	0.5	—	4.3	0.3	8.4
MILITARY	0.2	0.4	—	2.2	—	—
TRAVELLER	3.7	3.2	2.4	2.2	12.8	2.4
GRAZING LEASEHOLDER	0.5	0.8	—	—	0.5	0.1
OTHER	7.5	5.0	3.2	4.4	14.0	11.3
UNKNOWN	19.8	21.2	31.3	41.3	24.5	13.2
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 16 NUMBER OF FIRES(%) BY DETECTION METHOD FOR DIVISIONS (4926 FIRES)

		DIVISION						
	STATE	C	E	N	NE	S	SW	W
FIRE LOOKOUT	34.2	35.1	40.1	27.1	36.9	34.5	34.0	29.8
FCV PATROL AIRCRAFT	3.1	0.4	9.2	-	2.6	6.0	-	2.6
FCV GROUND PERSONNEL	13.6	11.0	20.1	10.3	9.8	15.1	12.9	13.8
FOREST INDUSTRY EMPLOYEE	2.7	2.6	3.5	2.2	2.3	6.1	0.7	2.2
NON-PATROL AIRCRAFT	0.7	-	1.2	-	0.9	1.7	0.3	0.7
OTHER INDUSTRY EMPLOYEE	2.6	4.0	1.6	2.8	2.6	3.8	1.9	2.8
LANDOWNER/RESIDENT	25.9	25.8	13.4	31.8	31.7	18.9	31.7	28.7
TRAVELLER	8.0	9.5	5.9	10.4	7.5	7.1	8.8	7.7
OTHER	6.8	7.6	3.1	10.9	5.1	5.3	7.2	9.3
UNKNOWN	2.4	4.0	1.9	4.5	0.6	1.5	2.5	2.4
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 17 NUMBER OF FIRES(%) BY FIRST ATTACK AGENCY FOR DIVISIONS (4032 FIRES)

		DIVISION						
AGENCY	STATE	C	E	N	NE	S	SW	W
FCV	56.8	41.6	80.7	46.6	53.6	68.5	47.4	50.7
CFA	33.2	38.2	8.2	50.4	36.9	19.4	45.7	39.3
NPS	3.7	13.9	4.4	-	0.5	3.6	1.5	4.3
SEC	0.3	0.5	-	0.4	0.7	0.4	0.3	0.4
MMBW	0.5	1.2	-	-	0.3	2.4	-	0.4
OTHERS	5.5	4.6	6.7	2.6	8.0	5.7	5.1	4.9
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 18 NUMBER OF FIRES(%) BY FIRST ATTACK AGENCY FOR LAND STATUS AT ORIGIN (4032 FIRES)

		LAND STATUS					
AGENCY	STATE	SF	NP	PPL	OPL	PP (IN)	PP (OUT)
FCV	56.8	69.2	28.9	59.5	43.8	44.5	29.5
CFA	33.2	24.4	22.0	26.2	45.5	46.5	64.0
NPS	3.7	0.9	45.7	4.8	2.0	0.9	0.8
SEC	0.3	0.2	1.3	-	0.3	0.4	0.8
MMBW	0.5	0.8	0.0	2.4	0.3	0.2	-
OTHERS	5.5	4.5	2.1	7.1	8.1	7.5	4.9
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 19 NUMBER OF FIRES(%) BY AREA CLASS AT FIRST ATTACK FOR DIVISIONS (3704 FIRES)

AREA CLASS (HA)	STATE	C	E	N	NE	S	SW	W
		DIVISIONS						
0.1-1.0	59.7	67.8	48.7	63.1	68.5	57.9	72.7	44.9
1.1-5.0	19.6	18.2	23.3	20.7	18.5	16.8	17.7	20.7
5.1-10.0	6.2	5.5	6.9	6.8	4.6	7.8	4.4	7.3
10.1-20.0	5.0	5.1	7.7	4.4	4.0	6.7	2.0	5.4
20.1-50.0	4.5	3.4	7.5	2.8	1.7	6.3	2.1	6.8
50.1-100.0	2.2	-	2.9	1.2	1.5	2.4	1.1	4.8
>100.0	2.8	-	3.0	1.0	1.2	2.1	-	10.1
TOTAL	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 20 NUMBER OF FIRES(%) WITH CFA INVOLVEMENT FOR DIVISIONS (4797 FIRES)

STATE	C	E	N	NE	S	SW	W
			DIVISION				
54.1	64.1	22.6	70.3	54.3	38.8	70.2	62.4

TABLE 21 NUMBER OF FIRES BY FIRST ATTACK METHODS (3965 FIRES)

METHOD	NO	%
GROUND ATTACK-HANDTOOLS	2115	53.3
GROUND ATTACK-TANKER	2915	73.5
GROUND ATTACK-MACHINE	759	19.1
GROUND ATTACK-PUMP + HOSE	150	3.8
AERIAL ATTACK-RETARDANT	66	1.7

TABLE 22 NUMBER OF FIRES(%) BY AREA CLASSES FOR DIVISIONS (4983 FIRES)

AREA CLASS (HA)	STATE	C	E	N	NE	S	SW	W
		DIVISIONS						
0-1	64.5	74.9	55.2	68.2	69.6	61.4	75.0	50.4
2-5	12.8	10.5	11.9	17.2	13.3	11.9	11.2	14.2
6-10	4.8	2.1	6.0	5.2	4.2	5.2	5.1	4.6
11-20	3.9	2.5	5.4	4.1	4.0	4.9	2.3	3.9
21-50	4.0	5.3	5.6	2.3	3.2	4.8	2.4	4.7
51-100	2.7	1.0	4.9	1.0	1.7	4.5	1.2	3.8
101-500	4.2	2.7	7.0	1.8	2.4	5.3	1.5	7.9
501-1000	0.9	-	1.4	-	0.6	0.8	0.1	3.0
>1000	2.2	1.0	2.6	0.2	1.0	1.2	1.2	7.5

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