

**FIRE
IN
IDAHO**

1991

TENTH ANNUAL REPORT

**State Fire Marshal Division
Idaho Department of Insurance**

**Lee Bright
State Fire Marshal**





STATE OF IDAHO
DEPARTMENT OF INSURANCE

500 South 10th Street • Boise, Idaho 83720
FAX (208) 334-4398 • Phone (208) 334-4370

CECIL D. ANDRUS
Governor
HARRY C. WALRATH
Director

LEE BRIGHT
State Fire Marshal

May 16, 1992

Dear Reader:

Once again, I have the honor of presenting the annual report of the Idaho State Fire Marshal's Office. This report profiles the fire experience in the state of Idaho for 1991. The statistics contained herein reflect the number of incidents responded to and reported by the fire departments participating in the Idaho Fire Incident Reporting System (IFIRS). Also included in this report is the activity and progress of the various divisions of this office.



As we look back on 1991, three statistics will stand out. A 62% increase in fire deaths, a 25% increase in property loss and the number of incidents involving children playing with matches. The most tragic of these, of course, is the increase in fire deaths. We can tie in the increase in fatalities to the increase in "children playing". Children playing resulted in 377 fires, 4 fatalities, 6 injuries, and \$1,020,044 in property loss.

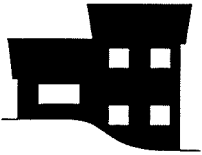
Of all the measures that can and must be taken to reduce these tragic figures, perhaps none is more important than educating people about fire. They must be made aware of fire's toll and its threat to them personally. They must know how to minimize the risk of fire in their daily surroundings. They must know how to cope with fire quickly and effectively, once it has started. Public education concerning fire has been cited as the single activity with the greatest potential for reducing losses.

We have applied our time and effort toward all areas of fire safety except, to a large extent, the human factor. We tend to forget that humans occupy buildings and it is human ignorance and carelessness that starts fires. If it is our responsibility to save lives and property, then this issue will have to be resolved before we are successful. Fire safety education should and must become a meaningful, worthwhile year-round project.

Sincerely,

A handwritten signature in cursive script that reads "Lee Bright".

Lee Bright
Idaho State Fire Marshal



1,523

RESIDENTIAL

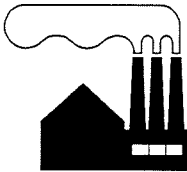
(Single family dwellings, apartments, mobile homes, hotels, motels, etc.)



165

PUBLIC AND MERCANTILE

(Stores, restaurants, institutions, churches, public facilities, education)



313

**INDUSTRIAL, MANUFACTURING,
OTHER BUILDINGS**

(Basic industry, manufacturing storage, residential garages, vacant buildings, unknown)



810

MOBILE PROPERTY

(Automobile, trucks, trains, buses, boats)



2,649

OUTSIDE AND OTHER

(Dumpsters, trash, wildland, grass, trees)

5,462

TOTAL FIRES

\$22,301,865

TOTAL DOLLAR LOSS

Table of Contents

FIRE IN IDAHO 1991

Presented by the Idaho State Fire Marshal

PART I - FIRE STATISTICS

Fire Summaries	1-10
Fire Department Responses.....	11-14
Fire Losses.....	15-19
Fire Casualties.....	20-26
Fire Causes.....	27-40

PART II - PARTICIPANTS

Participating Fire Departments	41-44
--------------------------------------	-------

PART III - NATIONAL FIRE FACTS

1990 National Fire Facts.....	45-49
-------------------------------	-------

PART IV - STATE FIRE MARSHAL ACTIVITY REPORT

Organizational Chart.....	51
State Appointed Boards.....	52
Prevention Section.....	53-55
Investigation/Fraud Section.....	56-59
Administrative Support Services	60
Idaho Fire Incident Reporting System	61

Fire in Idaho 1991

PART I - FIRE STATISTICS

This report is a statistical analysis of fires occurring in Idaho. Without the help of the reporting fire departments, this report would not be possible.



Fire Summaries

Idaho Fire Incident Summary.....	1
County Summarization.....	3-7
Detector vs. Sprinkler Performance.....	8
Outside Fire Calls.....	9
Hazardous Materials.....	10

IDAHO FIRE INCIDENT SUMMARY

Situation Found Category		Incidents
Building Fires	2,003	
Vehicle Fires	810	
All Other Fires	2,649	
Total Fires		5,462
Overpressure Ruptures		88
Rescue Calls		2,416
Hazardous Conditions		1,243
Service Calls		691
Good Intent Calls		2,207
False/Malicious Calls		1,902
All Other Calls		29
Total Incidents Reported		14,038
Times Mutual Aid Given		1,052
Times Mutual Aid Recvd		676
Total Fire Dollar Loss		\$ 22,301,865
Civilian Fire Injuries		84
Civilian Fire Deaths		21
Fire Service Injuries		57
Fire Service Deaths		0

**SUMMARIZATION OF REPORTED FIRES, DEATHS AND INJURIES, AND
ESTIMATED DOLLAR LOSS BY DEPARTMENT**

	<u>Total Fires</u>	<u>Total Injuries</u>	<u>Total Deaths</u>	<u>Dollar Loss</u>
LEMHI COUNTY	No Departments Reporting			
LEWIS COUNTY	No Departments Reporting			
LINCOLN COUNTY				
Shoshone FD	4	0	0	6,000
Wood River FD #1	3	0	0	2,300
MADISON COUNTY				
Rexburg FD	47	0	0	68,555
Rexburg/Madison FPD	40	0	0	110,800
MINIDOKA COUNTY				
Rupert FD	24	0	0	9,605
West End FPD	32	0	1	140,000
Northside/Rupert	7	0	0	2,500
Heyburn FPD	39	0	0	92,450
East End FPD	27	0	0	27,400
NEZ PERCE COUNTY				
Lewiston FD	181	7	1	806,170
ONEIDA COUNTY	No Departments Reporting			
OWYHEE COUNTY	No Departments Reporting			
PAYETTE COUNTY				
Payette FD	45	2	0	66,950
Fruitland FD	13	0	0	166,695
New Plymouth FD	13	0	0	0
Payette Rural	53	0	0	221,050
New Plymouth Rural	45	0	0	0
New Plymouth VFD	4	0	0	0
Sand Hollow FD	6	0	0	0
POWER COUNTY	No Departments Reporting			
SHOSHONE COUNTY				
Kellogg FD	39	5	0	88,255
Wallace FD	14	1	0	17,040
Shoshone FPD #2	73	1	0	85,500
Shoshone County FPD #1	36	0	0	89,625
TETON COUNTY				
Driggs FD	10	0	0	18,000
Teton County FPD	23	0	2	85,550

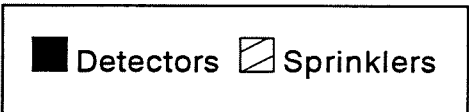
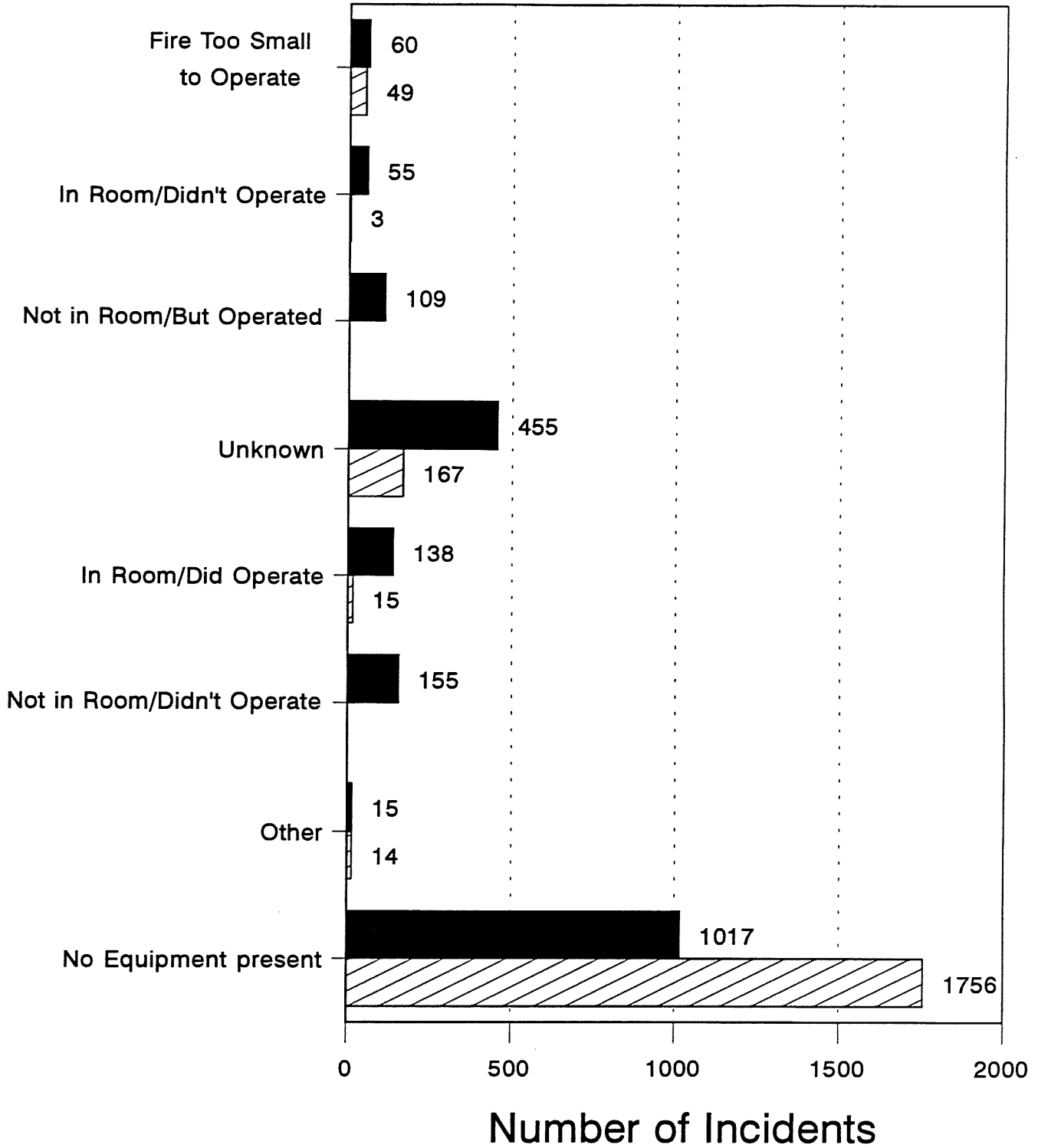
**SUMMARIZATION OF REPORTED FIRES, DEATHS AND INJURIES, AND
ESTIMATED DOLLAR LOSS BY DEPARTMENT**

	<u>Total Fires</u>	<u>Total Injuries</u>	<u>Total Deaths</u>	<u>Dollar Loss</u>
TWIN FALLS COUNTY				
Twin Falls FD	148	2	0	440,700
Buhl FD	29	0	0	40,400
Kimberly FD	26	0	0	50,565
Hansen FD	8	1	0	293,600
Filer FD	5	0	0	0
Kimberly FPD	40	0	0	182,300
Buhl Rural FD	23	1	0	55,700
Filer Rural	19	0	0	0
VALLEY COUNTY				
*McCall FD	5	1	0	0
Cascade FD	23	0	0	4,500
Cascade Rural	18	1	0	34,950
*McCall Rural	2	0	0	0
**Valley Cty Unprotected	1	1	1	116,000
WASHINGTON COUNTY				
Weiser FD	36	2	1	131,700
Weiser Rural FD	66	0	0	283,185
GRAND TOTALS	5,462	141	21	\$22,301,865

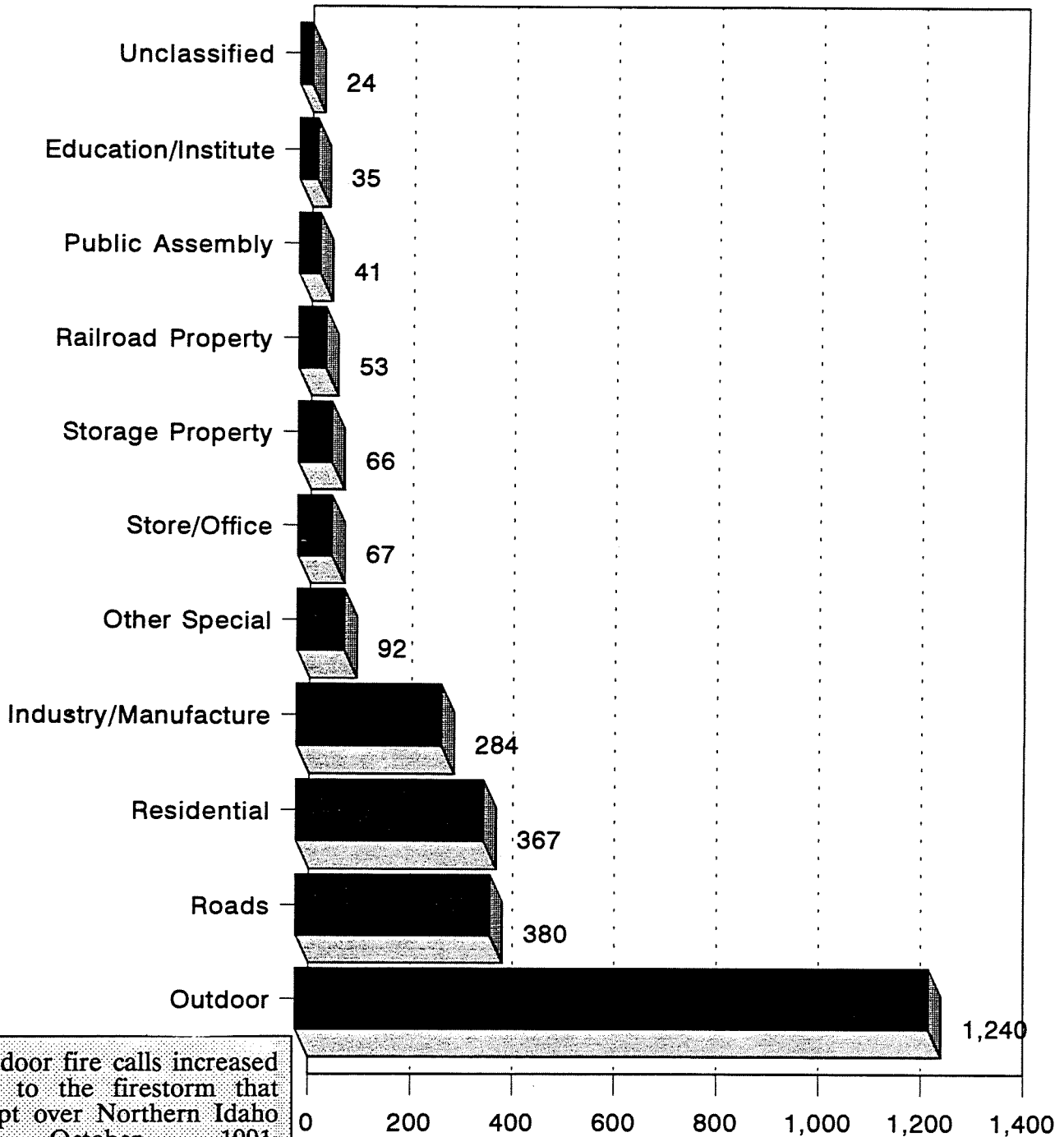
*Reflects partial year reporting

**Injury in unprotected area

Detector/Sprinkler Performance



Outside Fire Calls (By Property Type)



Outdoor fire calls increased due to the firestorm that swept over Northern Idaho in October, 1991.

Fire Calls (2,649 Total)

HAZARDOUS MATERIALS CALLS

By definition, hazardous materials incidents include any and all responses where a substance which is capable of causing harm to living organisms and/or the environment is involved.

Fire departments reported 39 incidents involving hazardous material spills in Idaho for 1991. Forty-eight percent occurred on road property. Only ten of the incidents resulted in fire, with the following ignition factors: 6-unknown, 1-child playing, 1-part failure/leak/break, 1-other electrical failure, and 1-collision overturn.

TYPE OF ACTION TAKEN:

Remove Hazard	54%
Standby	21%
Investigate	18%
Extinguishment	5%
Rescue Only	2%

EQUIPMENT INVOLVED:

Road Trans Veh	45%
No Equipment	18%
Flammable Liq Equip	14%
Separate Pump, Comp	6%
Service, Maint	5%
Waste Recovery Equip	3%
Equip Inv Undeter	3%
Construction Vehicle	2%
Railroad Vehicle	2%
Elect. Dist. Equip	2%

AREA OF RELEASE:

On or near Highway	36%
Fuel Tank/Line	17%
Lawn/Field/Open Area	10%
Multi Areas of Rel	8%
Swimming Pool	3%
Product Storage Room	3%
Shipping/Rec/Loading	3%
Garage Veh Storage	3%
Service Facility	3%
Switchgear/Transfmr	3%
Service/Equip Area	3%
All Others	8%

RESPONSE ACTIONS TAKEN:

(First Action Taken at the Incident)

Identification	41%
Remove Hazard	28%
Establish Safe Area	8%
Smoke/Toxic Gas Rmv	5%
Rescue/Rmv from Harm	5%
Investigate	5%
Othr Action not Class	5%
Standby Firewatch	3%

DOT HAZARD CLASS:

Flammable Liquids	69%
Corrosives	13%
Gasses	9%
Flammable Solids	3%
Oxidizers/Org Perox	3%
Dot Haz Class Undet	3%

TYPE OF SITUATION:

Spill/Leak No Ignt	61%
Chemical Emergency	26%
Structure Fire	3%
Outside Struct Fire	3%
Outside Spill/Leak	3%
Unknown/Other	4%

Fire Department Responses

Type of Action taken by Firefighters	12
Fires by Day of Week	13
All Fire Calls by Month.....	14

**TYPE OF ACTION TAKEN BY FIREFIGHTERS UPON ARRIVAL
AT THE EMERGENCY SCENE**

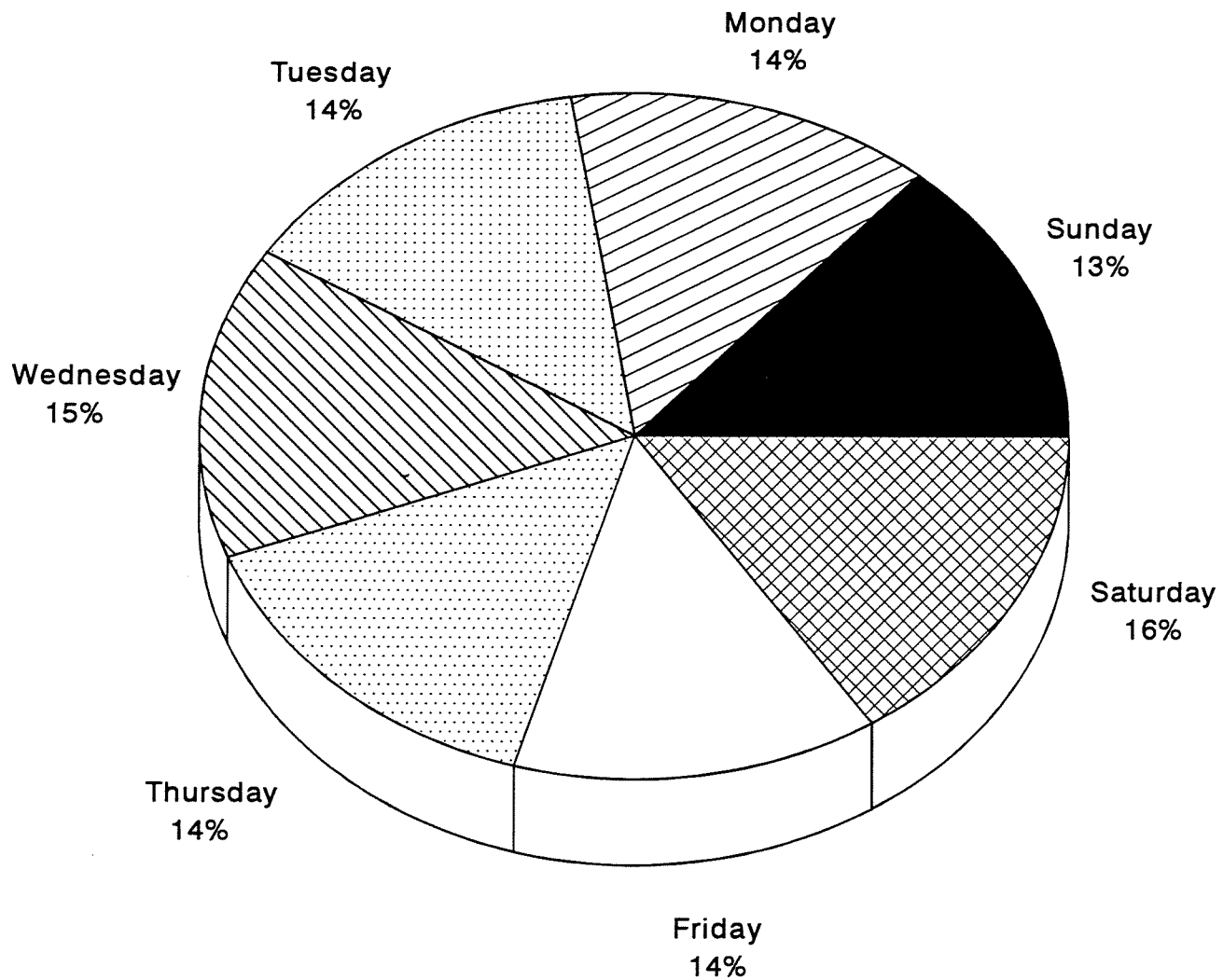
Extinguishment	4,149
Investigation Only	1,044
Remove Hazard	104
Standby	100
Salvage	13
Unknown	14
Other	28
Rescue Only	10
	<hr/>
Total Calls	5,462

FIREFIGHTER STATISTICS PER FIRE

Total Man Hours	116,741
Average Man Hours Per Fire	7
Average Number of Personnel	8
Average Response Time	6 minutes

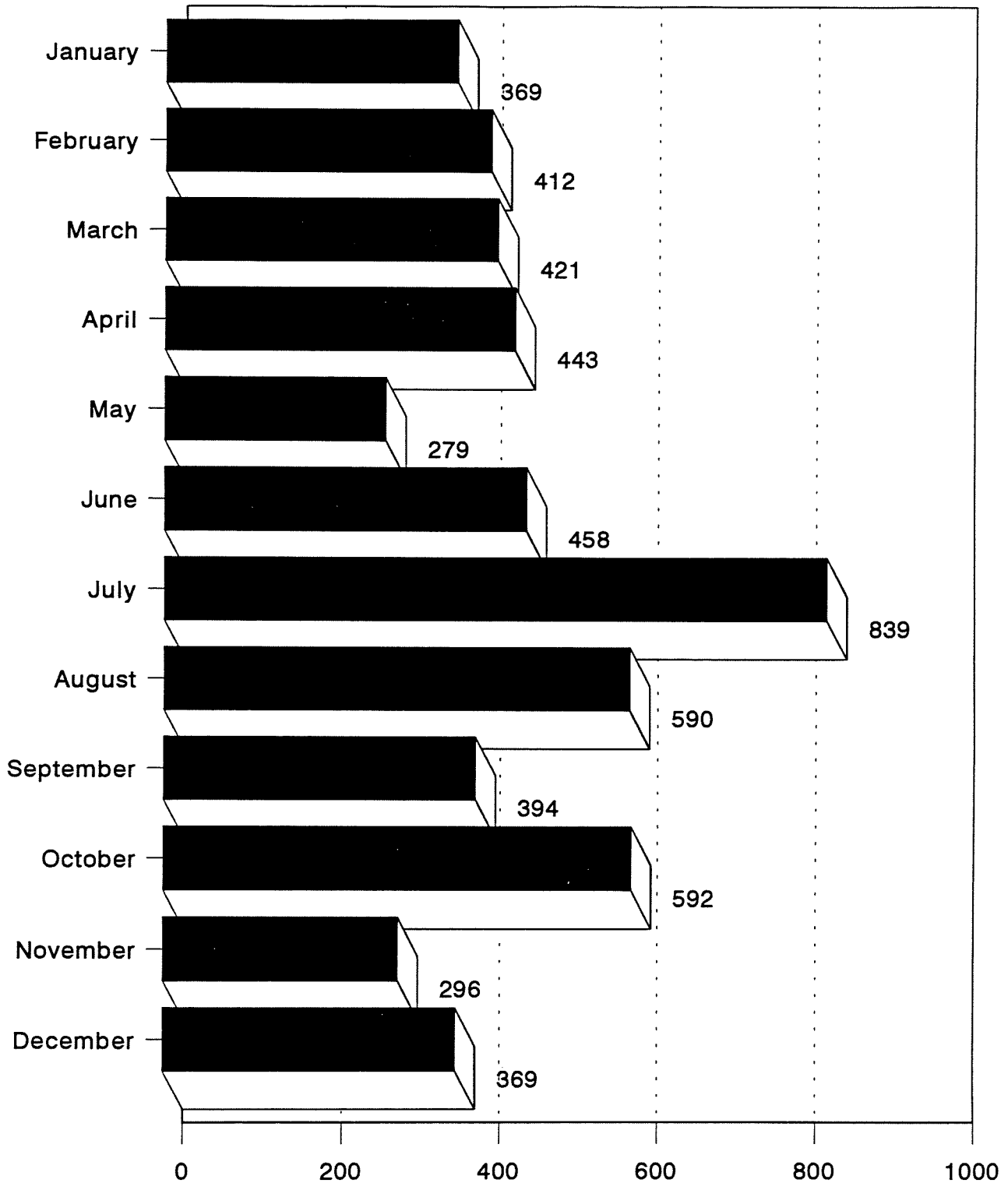
EVERY DAY IN IDAHO, FIRE DEPARTMENTS REPORT AN AVERAGE OF 41 CALLS, 14 OF WHICH ARE FIRES, FOR A DOLLAR LOSS OF \$61,101

Fires by Day of Week



This category varies little from year to year.

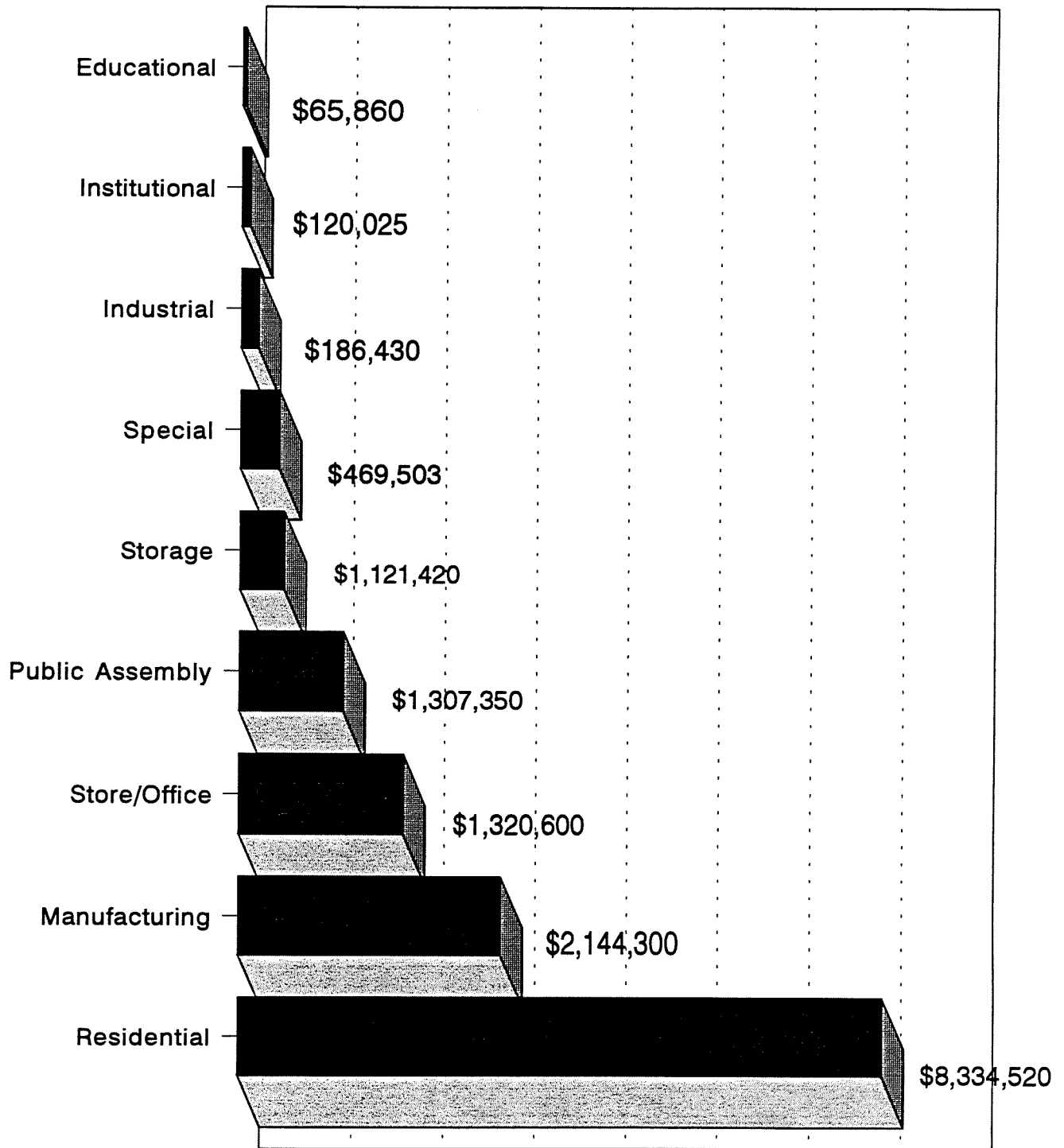
All Fire Calls by Month



Fire Losses

Structure Loss	16
Hostile Fires by Complex.....	17
Alarm Time vs. Fire Loss.....	18
Outside Losses	19

Structure Loss (By Property Type)



\$15,070,008 Total Structure Loss

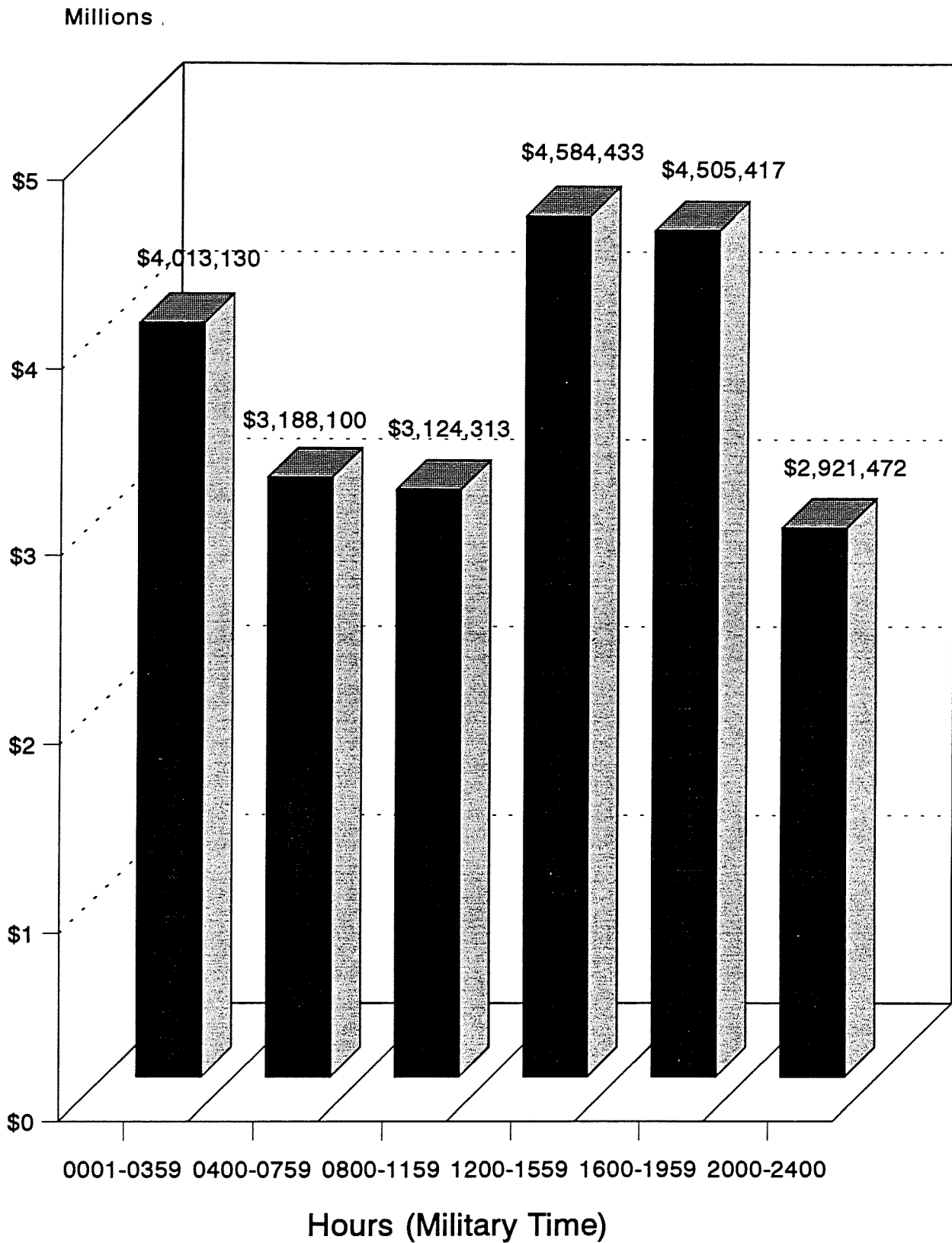
HOSTILE FIRES BY COMPLEX

	<u>FIRES</u>	<u>INJURY</u>	<u>DEATH</u>	<u>\$ LOSS</u>
Apartment Complex	125	8	0	761,064
Dwelling (one/two family)	1,805	66	13	7,282,569
Educational Complex	63	4	0	1,177,710
Farm Complex	473	5	1	1,495,610
Industrial Plnt/Mfg Cmpl	103	17	0	2,483,330
Mobile Home Park Complex	59	2	0	77,699
No Complex	1500	22	4	2,248,909
Office Complex	42	1	0	49,045
Other	117	2	0	2,539,085
Railroad Transport Complex	55	0	0	197,600
Road Complex	645	4	1	680,810
Shopping Complex	109	4	0	181,767
Warehouse/Stge Complex	66	4	0	823,425

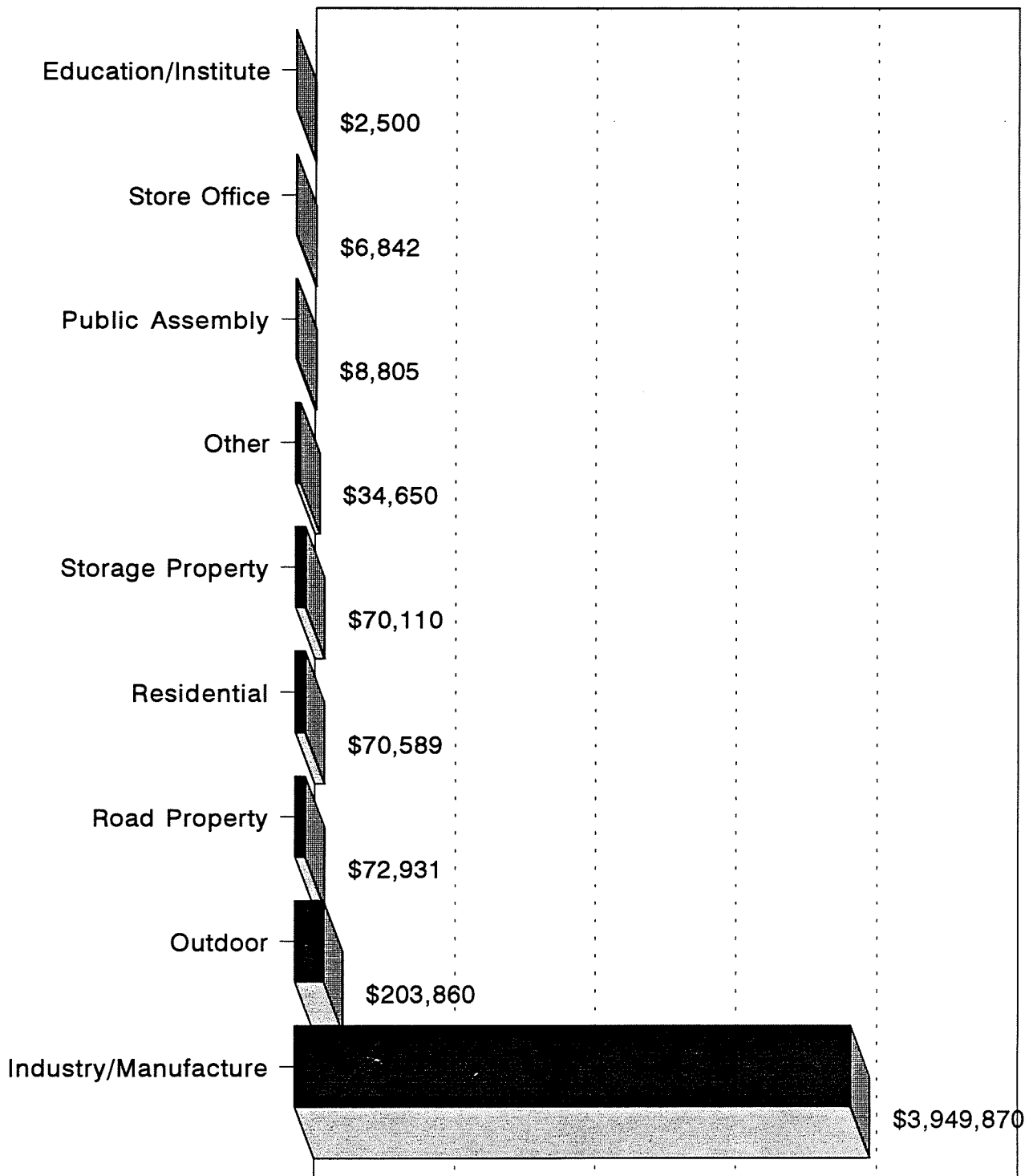
LOSSES ON ALL HOSTILE FIRES WITH SOME INCENDIARY/SUSPICIOUS IGNITION FACTOR

Incendiary	\$1,139,607
Suspicious	\$556,550
Totals	\$1,696,157

Alarm Time vs. Fire Loss



Outside Fire Losses (By Property Type)



Casualties

Fire Casualties	21
Civilian Casualties.....	22-25
Firefighter Injuries	26

1991 FIRE CASUALTIES (Injuries and Fatalities)

FIREFIGHTER CASUALTIES

SEX: Male	53
Female	4

PART OF BODY INJURED

Arm Area	12
Trunk	11
Internal	10
Head Area	9
Leg/Foot	7
Multiple Parts	6
Other Parts of Body	2

CASE SEVERITY

Minor	31
Moderate	22
Severe/Life Threat	4

PRIMARY APPARENT SYMPTOM

Other	21
Burn: Thermal	11
Sprain/Strain	8
Asphyxiation	6
Cut/Lacerations	5
Pain Only	3
Dizziness/Fainting	3

PATIENT TAKEN TO

Hospital	38
Not Transported	18
Doctors Office/Clinic	1

FIREFIGHTER ACTIVITY

Extinguishing Fire	33
Suppression Support	13
Other Activity	3
Driving/Riding	4
Misc. Inc. Scene	3
Rescue	1

SEVERITY OF INJURY

Injury	57
Death	0

CIVILIAN FIRE CASUALTIES

SEX: Male	74
Female	31

PART OF BODY INJURED

Multi-Parts	42
Internal	31
Hand	7
Head/Neck	7
Leg	5
Unknown	5
Body, Trunk, Back	4
Arm	3
Foot	1

NATURE OF INJURY

Burns & Smoke	32
Smoke Only	28
Burns Only	29
Unknown	6
Wound, Bleeding	5
Strain/Sprain	5

ACTIVITY AT INJURY

Fire Control	34
Other/Unknown	32
Escaping	12
Sleeping	9
Irrational Action	6
Unable to Act	5
Rescue	3
Response/Return	3
Clean/Salvage	1

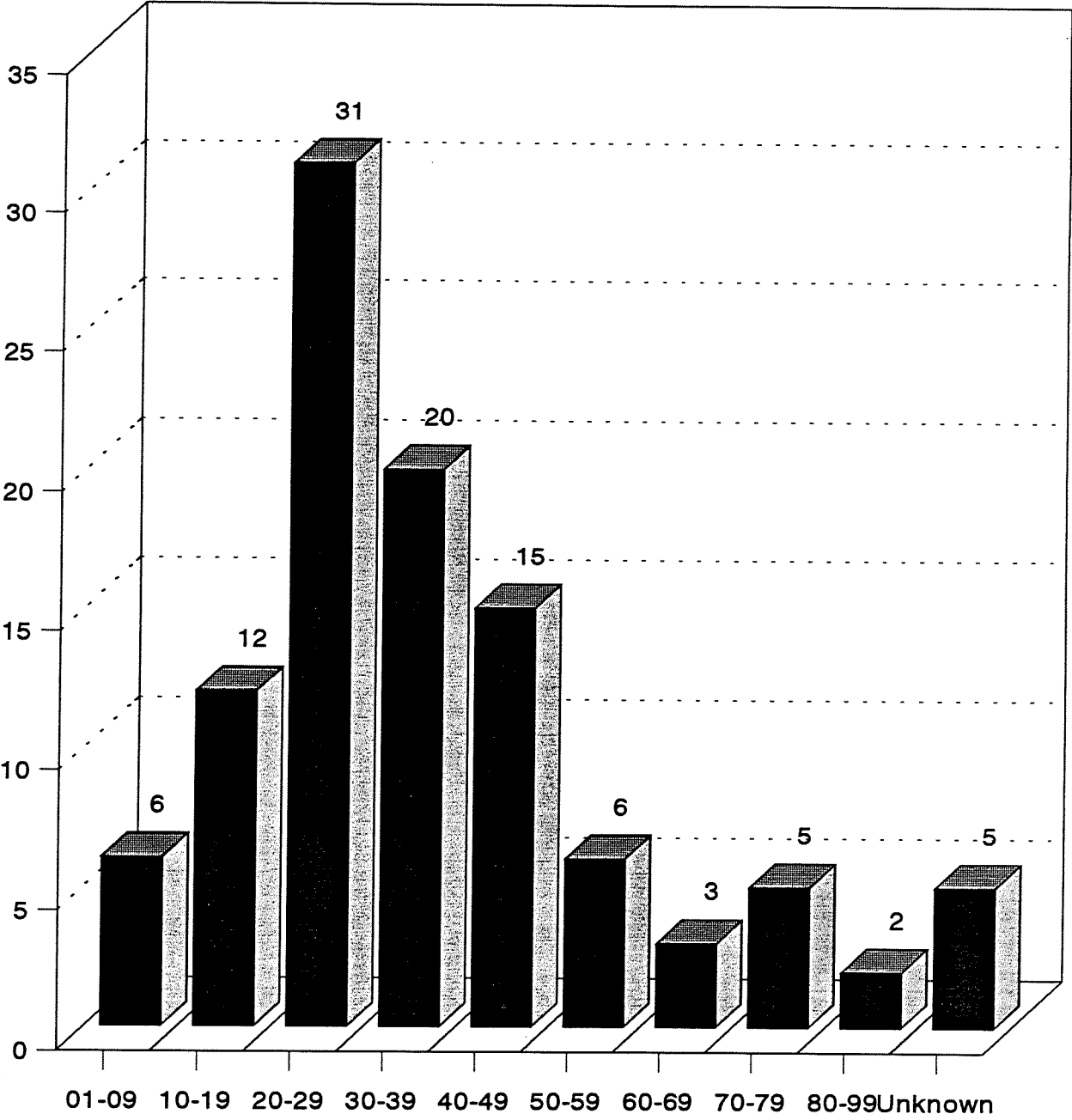
CAUSE OF INJURY

Exposed to fire product	75
Caught/Trapped	11
Other	10
Rubbed by/Contact with	5
Fell/Stepped Into	4

SEVERITY OF INJURY

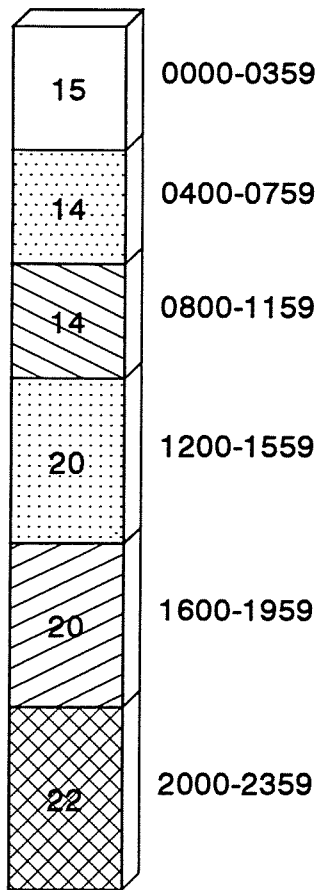
Injury	84
Death	21

Civilian Casualties (Injuries & Fatalities)

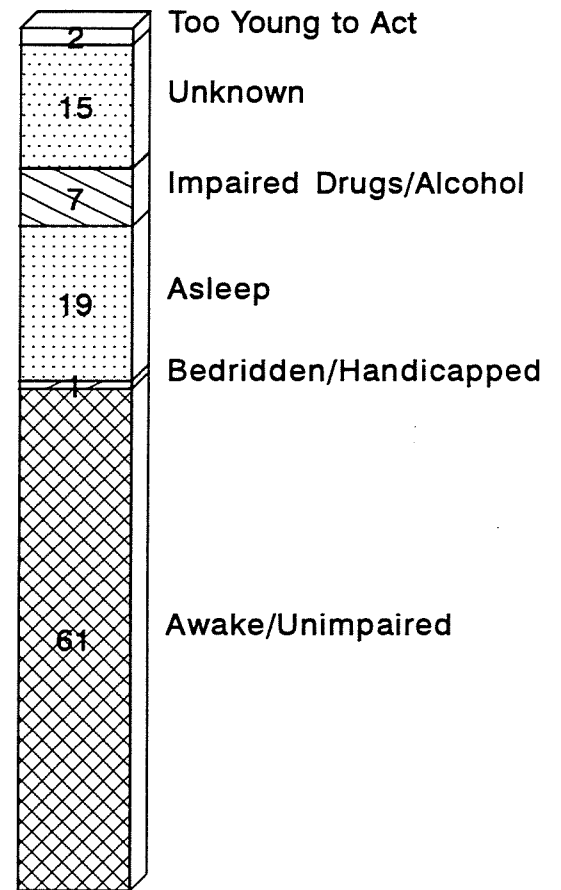


Casualty Ages

Civilian Casualties

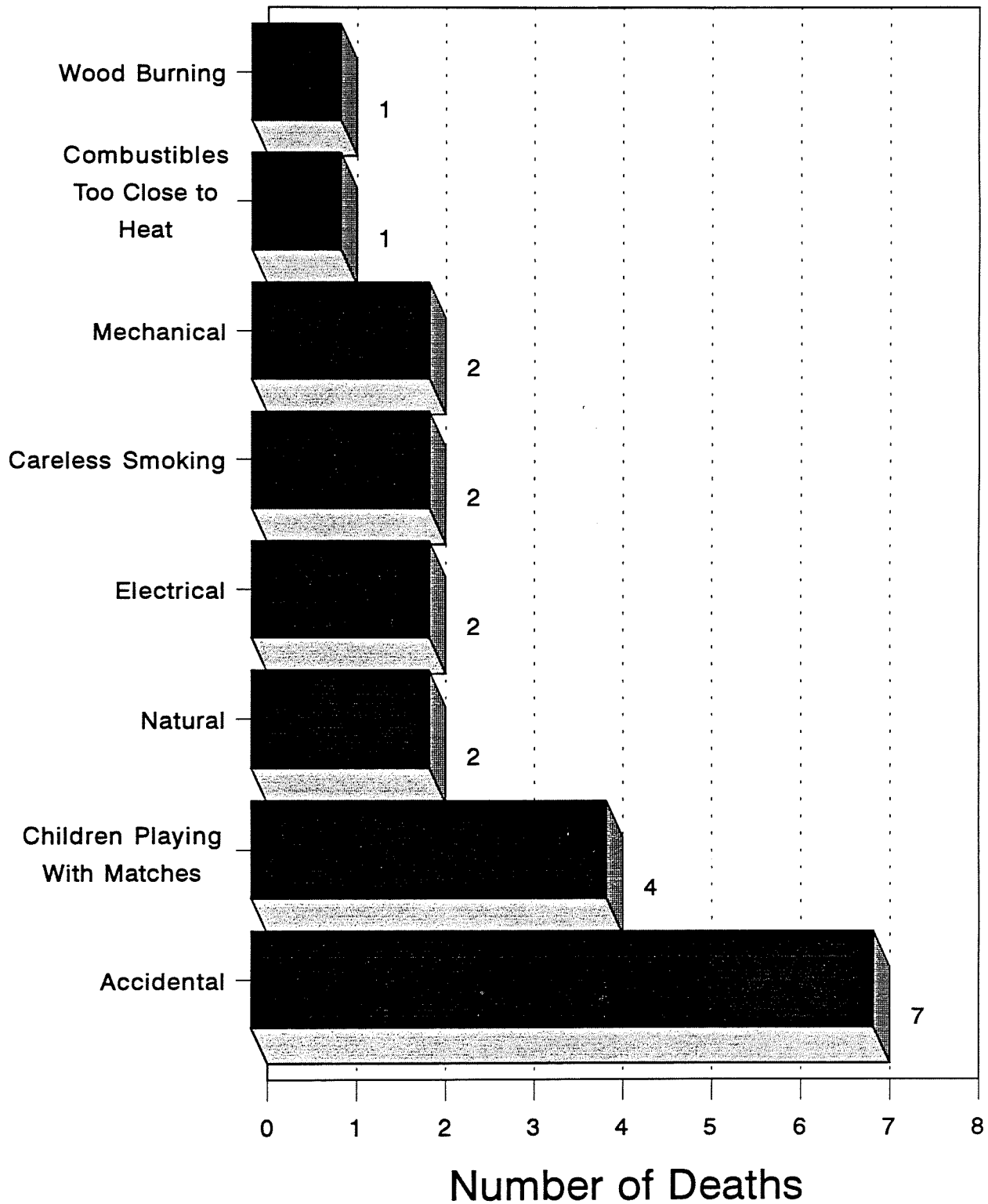


Time of Casualty

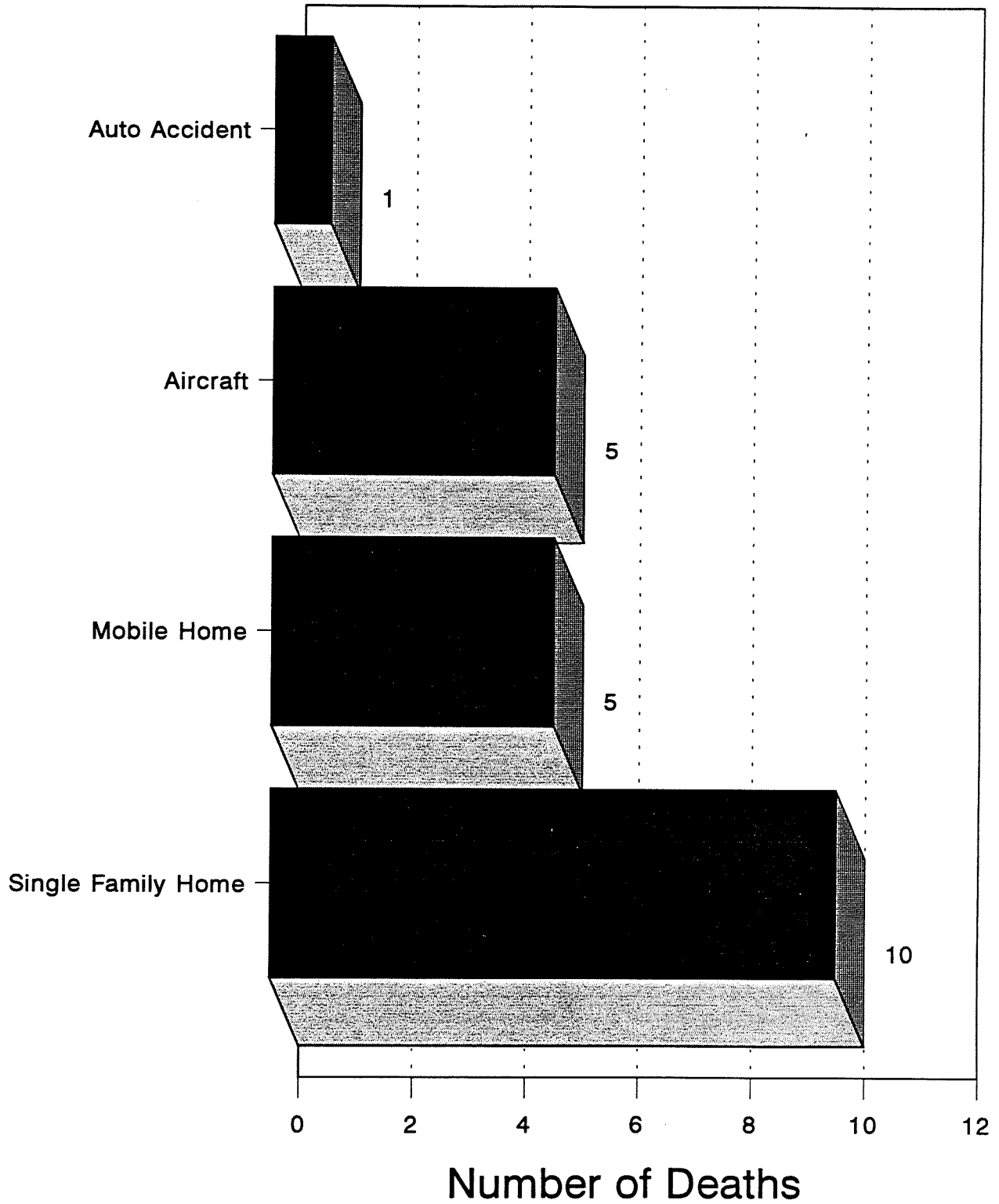


Condition Before Injury

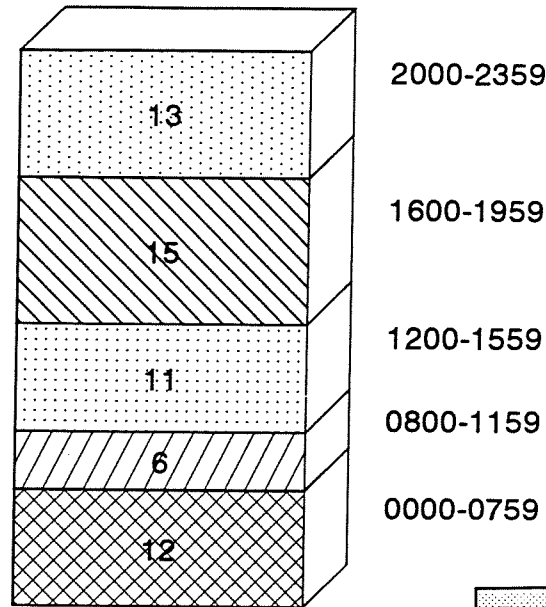
Civilian Deaths (By Cause)



Civilian Deaths (By Property Type)

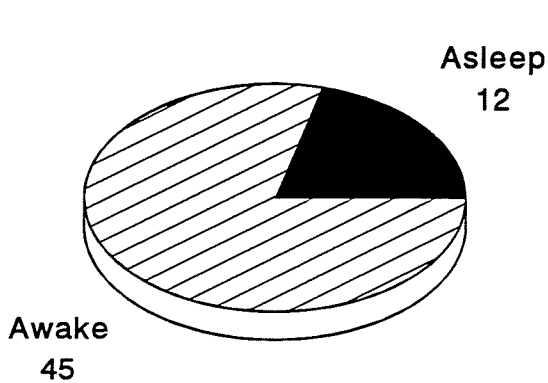


Firefighter Injuries

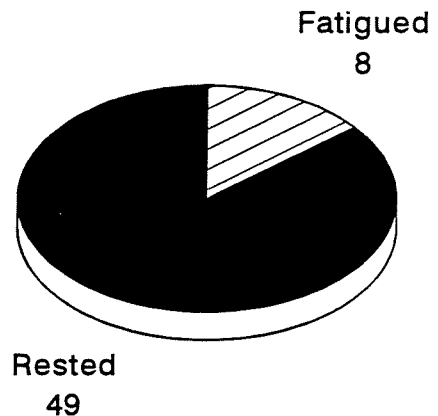


Time of Casualty

Idaho has only had one firefighter death since record keeping began in 1982.



Status Before Alarm



Physical Condition

Fire Causes

Hostile Fires by Ignition/Heat Factor	28
Residential Fires.....	29-30
Woodstove Fires	31-33
Fire Causes by Property Use	34-38
Child Playing	39
Motor Vehicle Fires.....	40

HOSTILE FIRES BY IGNITION FACTOR

Top Fifteen

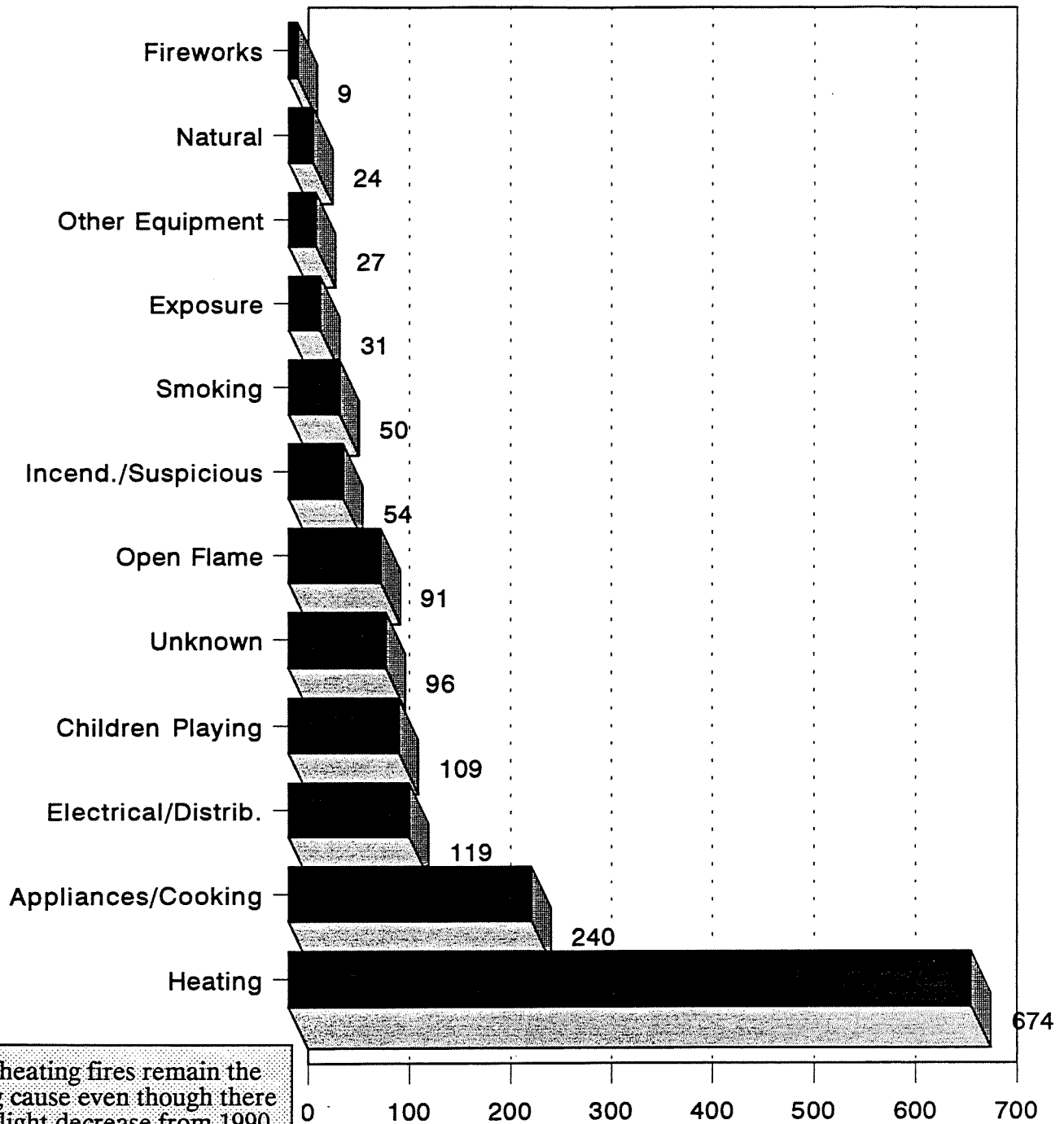
	<u>FIRES</u>	<u>INJURY</u>	<u>DEATH</u>
Lack of Maintenance/Worn Out	616	1	1
Inadequate Control of Open Fire	570	5	0
Short Circuit/Ground Fault	395	9	0
Abandoned Discarded Material	383	9	2
Children Play with or Child Playing	377	6	4
Suspicious	288	5	0
Part Failure/Leak/Break	217	4	1
Incendiary	151	5	0
Backfire	149	2	0
Other Electrical	140	2	0
Rekindled from a Previous Fire	123	1	0
Natural	117	4	2
Combustible too close to Heat	112	8	1
Property too close to	110	4	0
Unattended	105	6	0

HOSTILE FIRES BY FORM OF IGNITION HEAT

Top Ten

	<u>FIRES</u>	<u>INJURY</u>	<u>DEATH</u>
Heat from Solid Fueled Equipment	634	9	1
Match	524	17	1
Open Fire	504	5	1
Short Circuit Unspecified	232	6	0
Properly Oper Elec Equipment	191	16	1
Cigarette/Cigar	187	6	4
Fireworks	157	1	0
Hot Ember/Ash	146	3	0
Fire Spread (Exposure)	134	4	2
Backfire from Engine	127	2	0

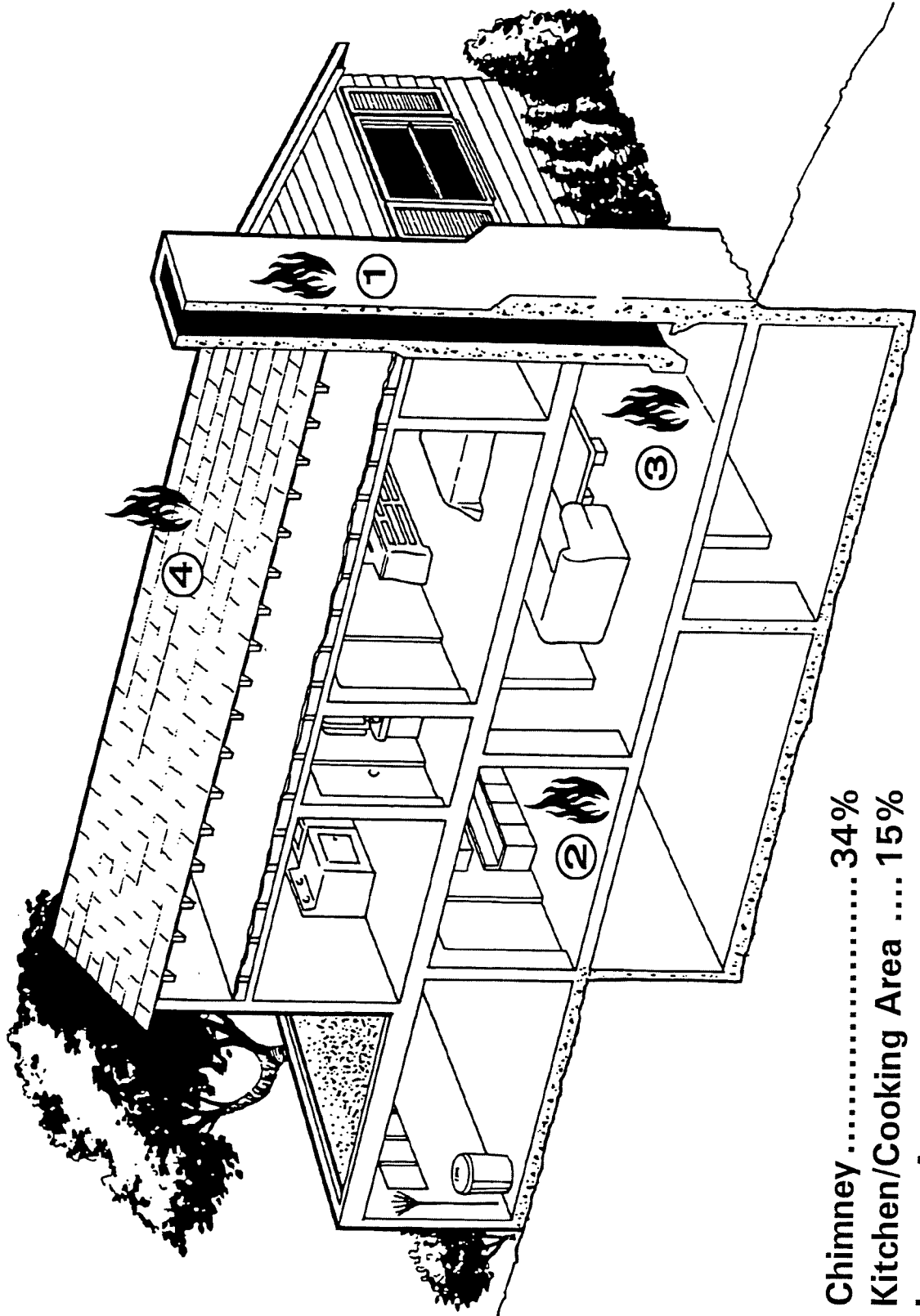
Residential Fires (Leading Fire Causes)



Home heating fires remain the leading cause even though there was a slight decrease from 1990.

1,523 Fires

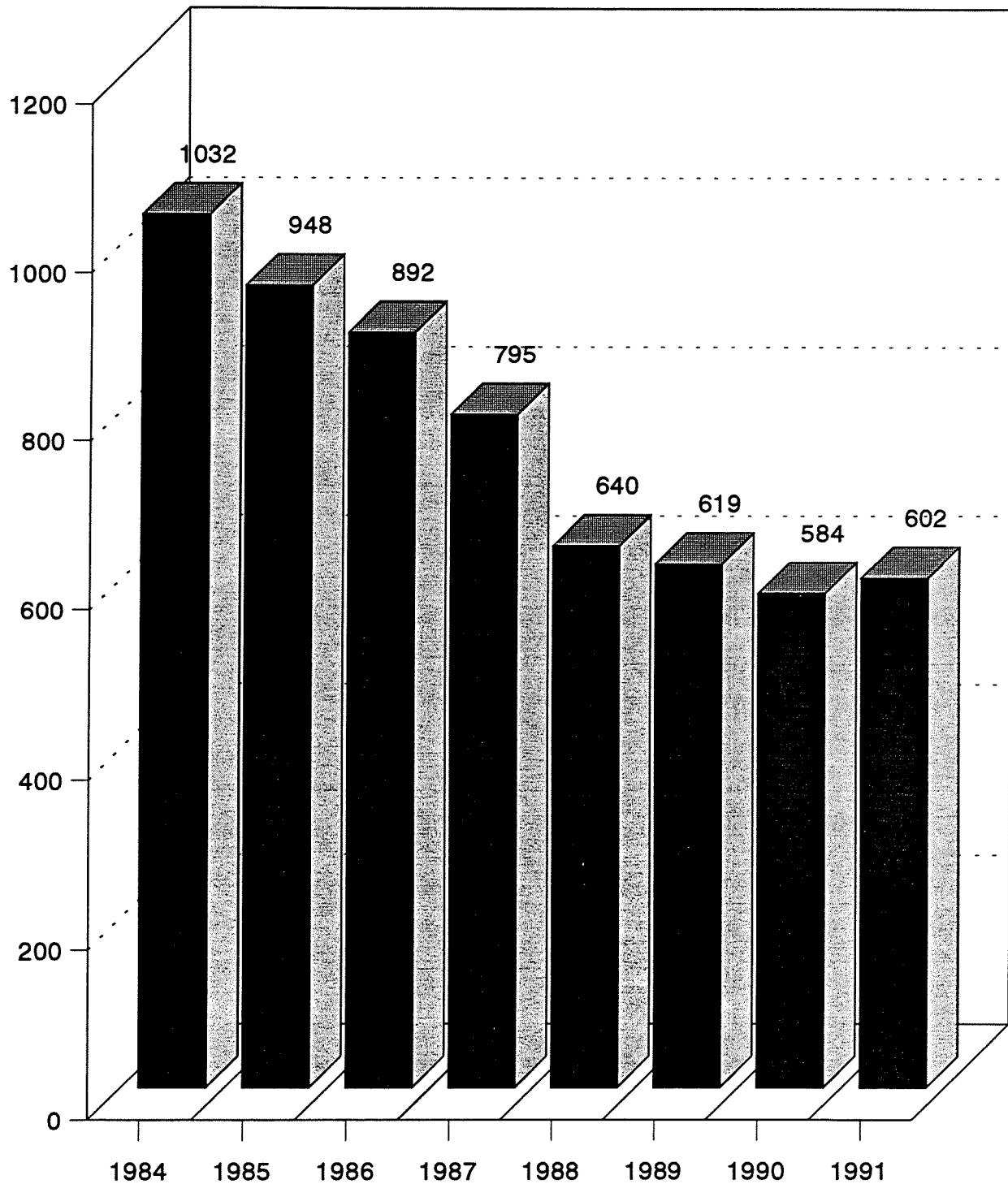
Leading Areas of Fire Origin in Residential Property in 1991



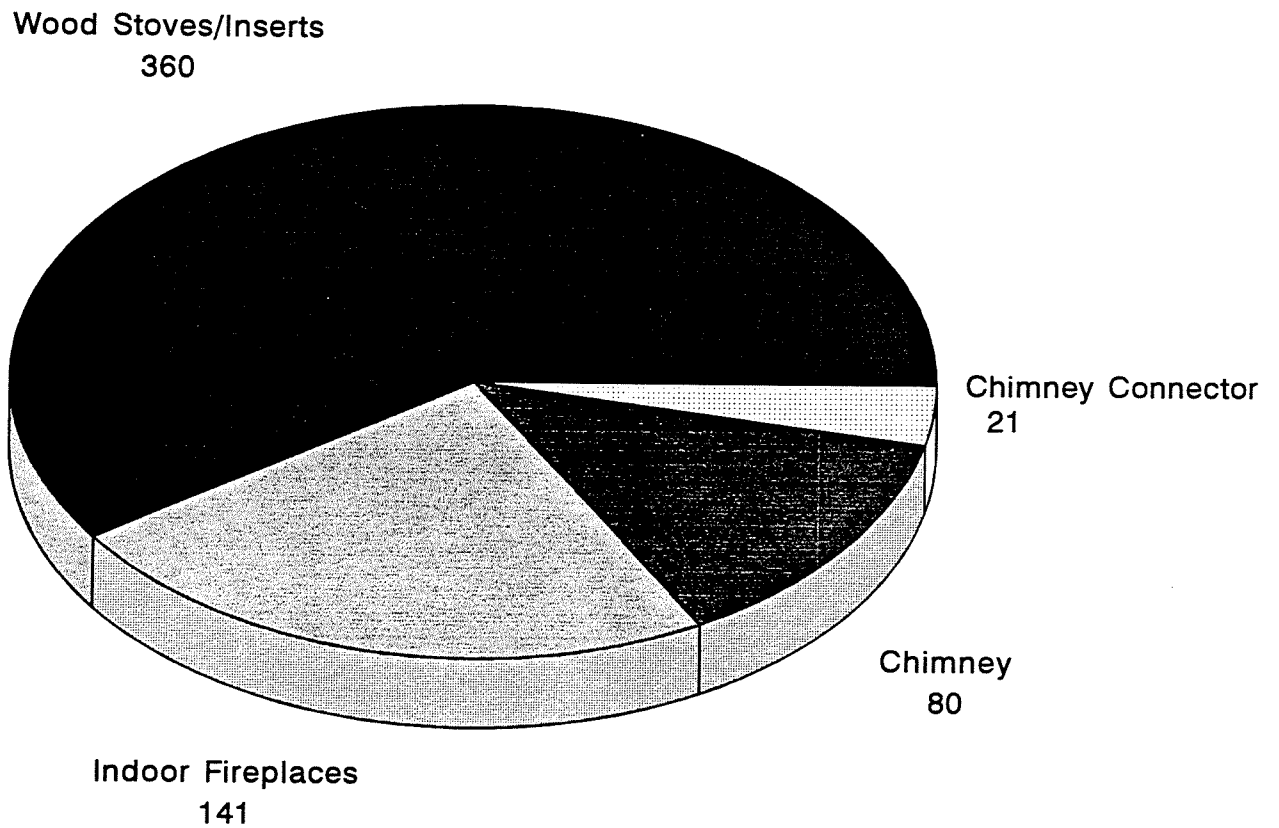
- 1. Chimney 34%
- 2. Kitchen/Cooking Area 15%
- 3. Lounge Area 10%
- 4. Ceiling Roof Assembly 4%

Source: Fire in Idaho 1991

Wood Stove Fires (Residential)

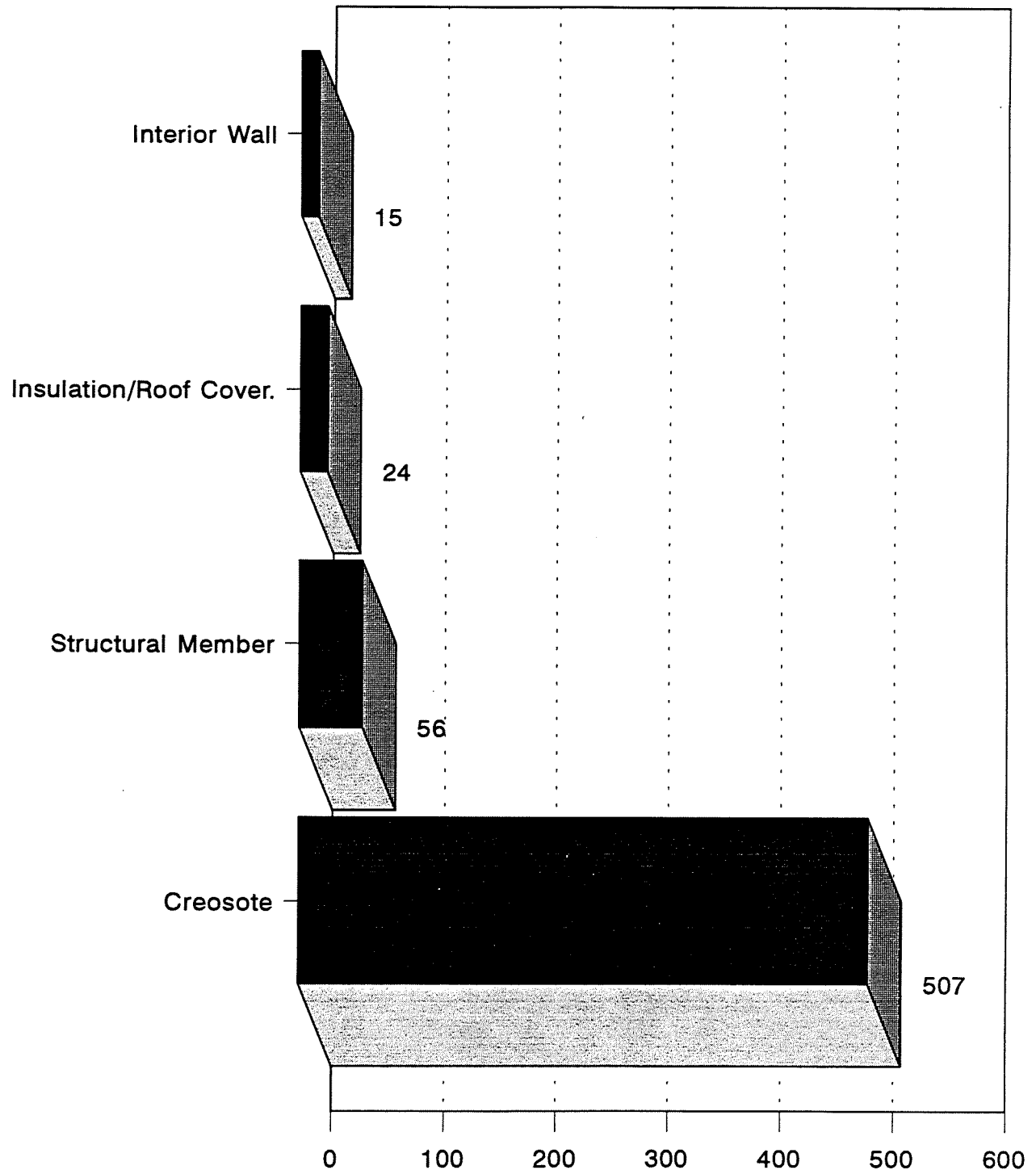


Wood Stove Fires Equipment Involved

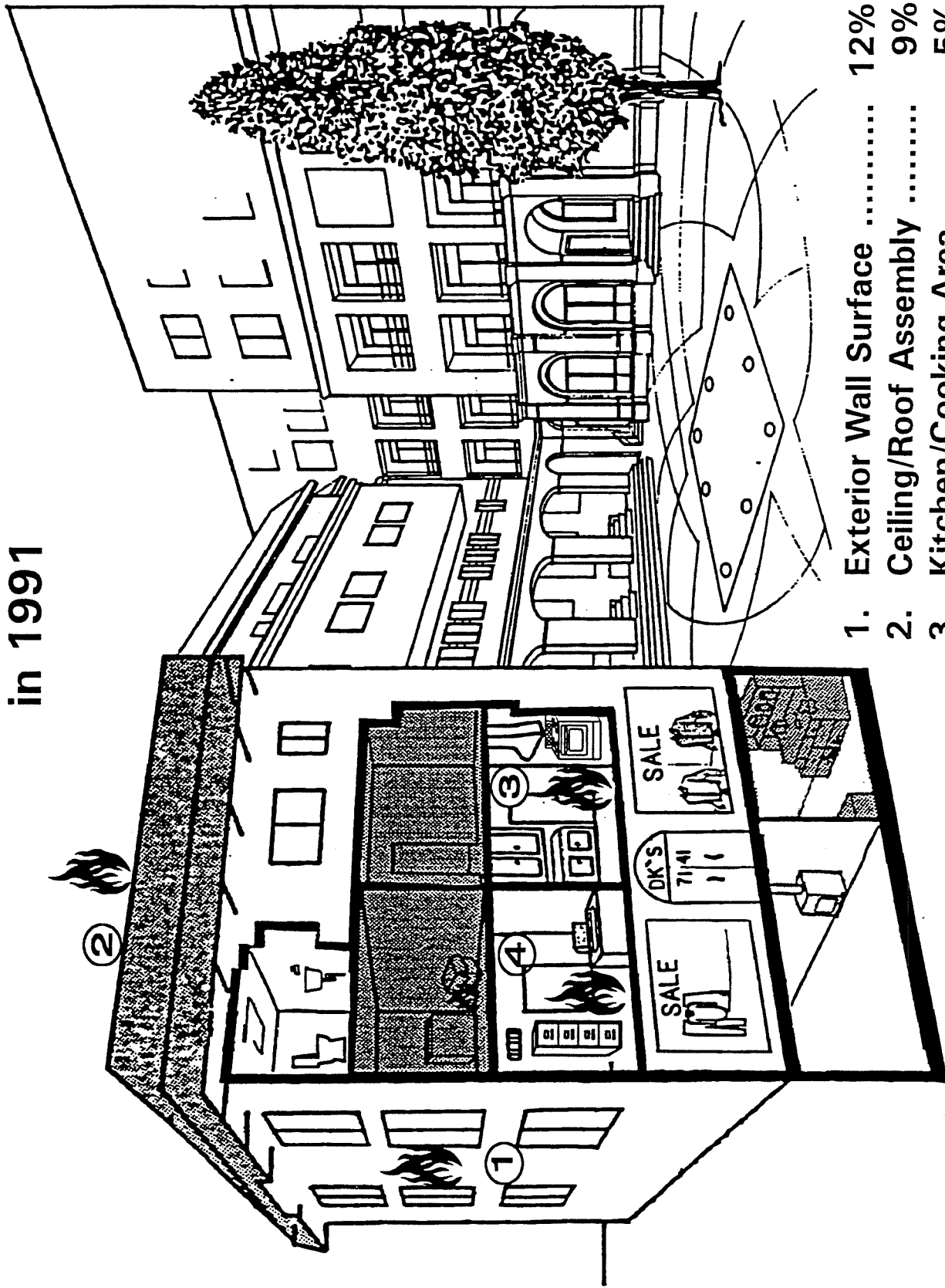


Wood Stove Fires

Material First Ignited



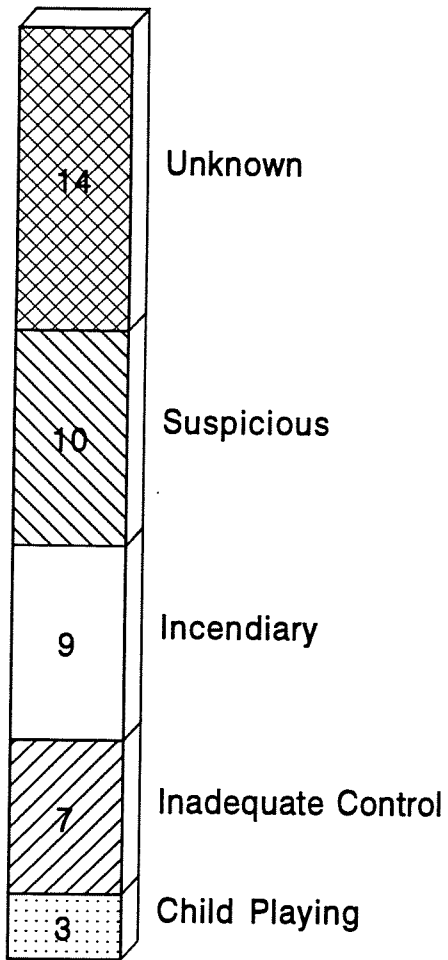
Leading Areas of Fire Origin in Store/Office Property in 1991



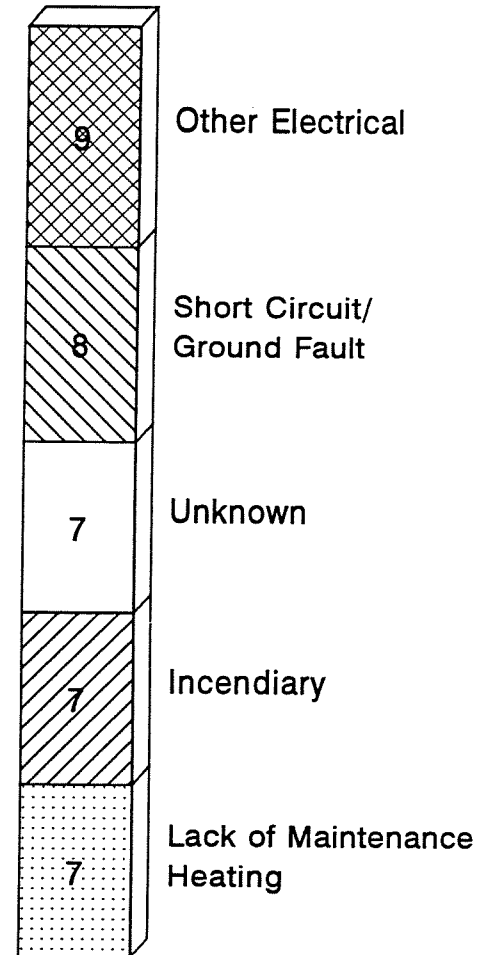
- 1. Exterior Wall Surface 12%
- 2. Ceiling/Roof Assembly 9%
- 3. Kitchen/Cooking Area 5%
- 4. Office 5%

Source: Fire in Idaho 1991

Fire Causes by Property Use (Top 5 Causes)

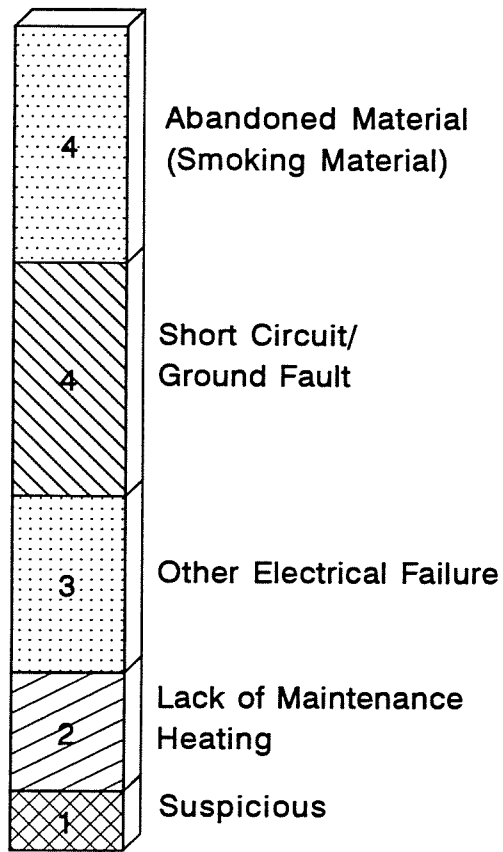


Special Properties

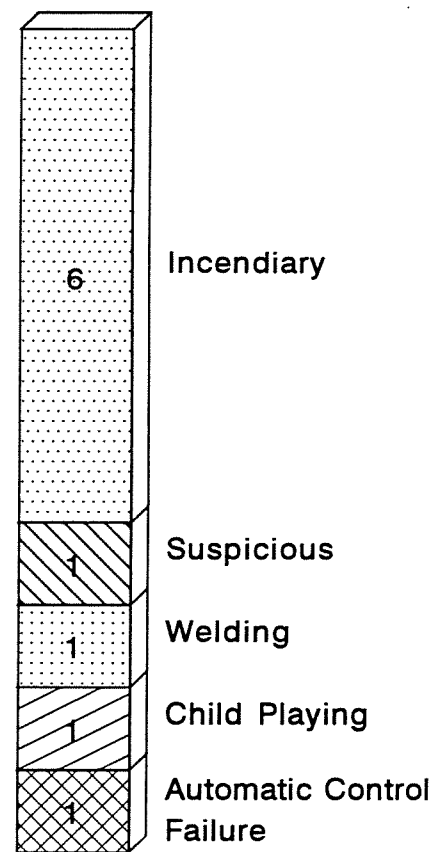


Store/Office

Fire Causes by Property Type (Top 5 Causes)

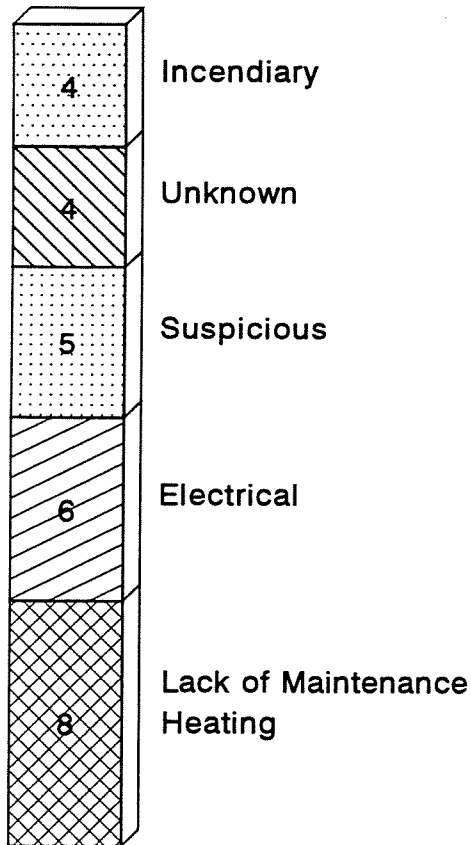


Institutional

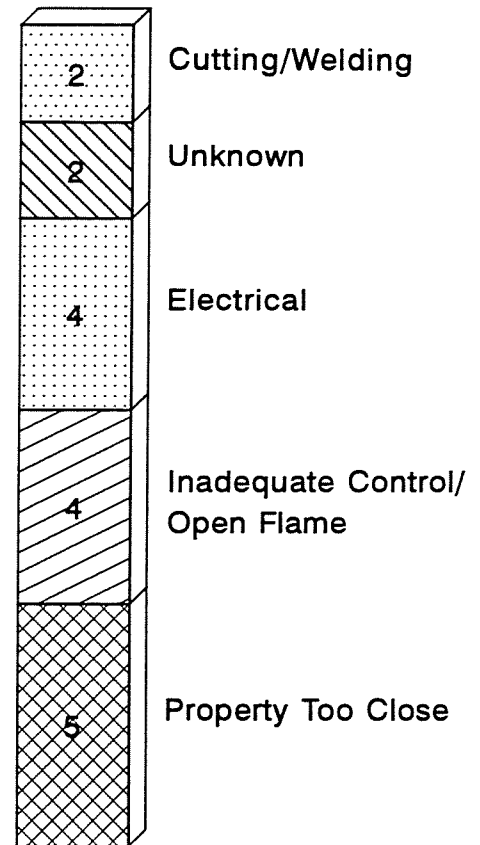


Educational

Fire Causes by Property Use (Top 5 Causes)

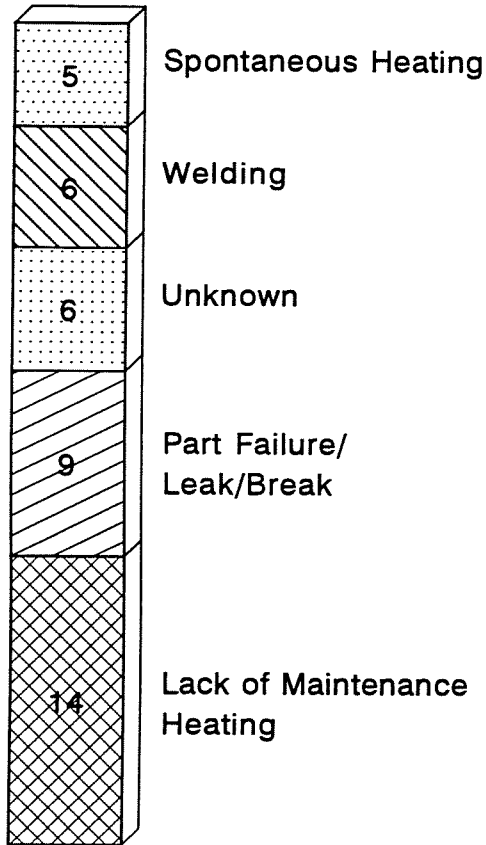


Public Assembly

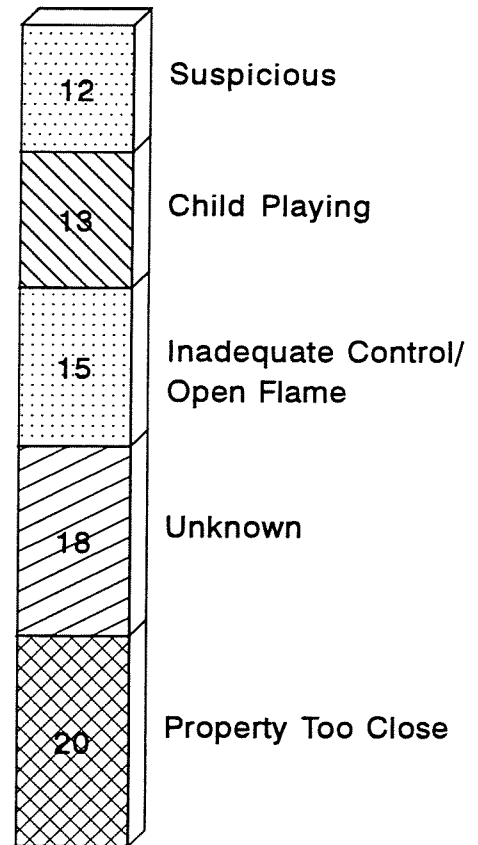


Basic Industry

Fire Causes by Property Use (Top 5 Causes)

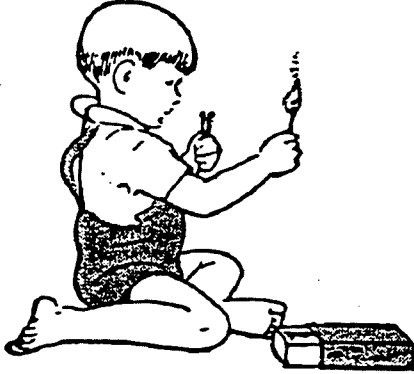


Manufacturing

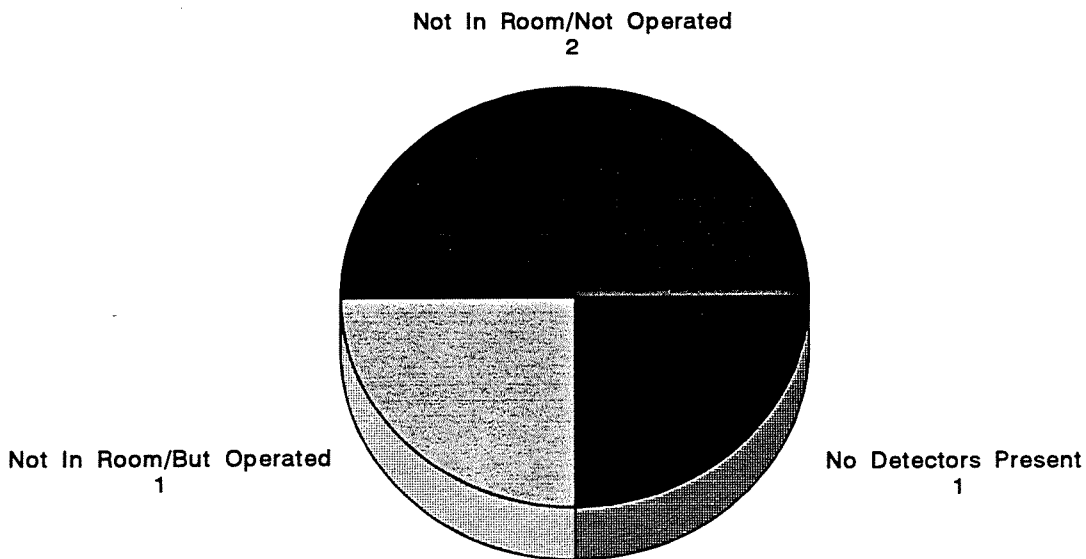


Storage

CHILD PLAYING



Juveniles playing with matches or lighters resulted in 377 fires which were the direct result of 4 civilian deaths (all under 16 years old) and 1 fire service and 5 civilian injuries. Losses were estimated at over a million dollars. Of these, 109 were started in or near the home. The dollar loss was accelerated by a manufacturing firm fire in Post Falls.



Detector Performance Which Resulted
In Child Playing Fire Deaths

MOTOR VEHICLE FIRES

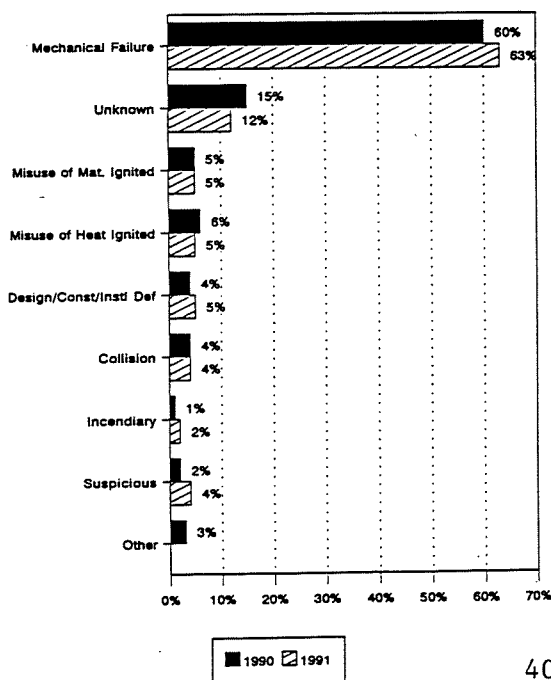
Motor vehicle fires include all mobile property types which are designed to be movable, either under their own power or towed. This classification encompasses automobiles, trucks, rail vehicles, freight vehicles, water vehicles, air transport vehicles, heavy equipment (cranes, bulldozers, etc.), and special vehicles (power garden equipment and mechanical trash containers). During 1991, motor vehicle fires accounted for 14% of all fires reported. The 810 reported fires resulted in 8 injuries (4) automobile, (3) trucks, (1) railway with 6 fatalities (1) passenger road vehicle and (5) air transportation vehicles.

Some Types of Mobile Property Involved in Fires

Automobile	607
Truck under 1 ton	45
Unknown	26
Truck over 1 ton	25
Tractor Harvester	16
Motor Home	12
Semi-trailer Truck	11
Air Transport	7
Travel Trailer	6
RR Freight Car	4
Motor Craft	3

MOTOR VEHICLE FIRE CAUSES

Ignition Factor



Nearly 63% of reported vehicle fires were caused by mechanical problems. The second leading cause in vehicle fires is listed as unknown 12%. The third and fourth leading causes were due to human error with Misuse of Material Ignited 5% and Misuse of Heat of Ignition 5%.

The cooperation of the National Fire Incident Reporting System (NFIRS) with the National Highway Traffic Safety Administration (NHTSA) has resulted in several motor vehicle recalls for safety-related defects.

Fire in Idaho 1991

PART II - PARTICIPANTS

Participants

Reporting Departments by County	42-44
---------------------------------------	-------

REPORTING FIRE DEPARTMENTS

A special thanks to the following fire departments who throughout the year sent their fire incident reports to the State Fire Marshal's Office. This report would not be possible without their help.

ADA COUNTY

01101-09-77 Boise City F. D.
01236-37 Cole-Collister F.P.D.
01239-40 Whitney Fire P.D.
01246 Kuna Fire Prot. Dist
01313 Meridian City
01334 Meridian F. P. D.
01342 Star Fire P.D.
01344 Eagle Fire P.D.

BANNOCK COUNTY

05101-04 Pocatello City FD

BEAR LAKE COUNTY

07334 Paris Fire Department
07335 Dingle Fire Dept.
07336 Ovid F.D.
07337 Georgetown F.D.
07338 Pegram F.D.
07339 Geneva F.D.
07341 Fish Haven F.D.
07342 St. Charles F.D.
07343 Bennington F.D.

BENEWAH COUNTY

09302 Plummer-Gateway F.D.
09325 St. Maries City FD
09366 St. Maries Rural

BLAINE COUNTY

13203 Ketchum F.D.
13301 Hailey City F.D.
13306 Sun Valley F.D.
13334 Wood River Fire P.D.

BOISE COUNTY

15311 Garden Valley F.D.
15313 Robie Creek F.D.

BONNER COUNTY

17201 Sandpoint F.D.
17303 Priest River City
17333 Northside F. P.D.
17337 West Pend Oreille F.P.D.
17341 Sagle Fire Dist.

BONNEVILLE COUNTY

19101-04 Idaho Falls F.D.
19135-37 Bonneville F.P.D.

BOUNDARY COUNTY

21301 Bonners Ferry F.D.

CANYON COUNTY

27101 Nampa F.D.
27134 Nampa Fire P.D.
27211 Caldwell City F.D.
27246 Caldwell Rural F.D.
27307 Wilder City F.D.
27309 Notus City F.D.
27336 Middleton Fire P.D.
27344 Melba Rural Fire P.D.

CARIBOU COUNTY

29301 Soda Springs F.D.
29305 Caribou County F.D.

CASSIA COUNTY

31201 Burley City F.D.
31236 N Cassia Rural F.P.D.
31334 Declo Fire Prot. Dist.
31342 Albion Fire Prot. Dist.

CLEARWATER COUNTY

35303 Orofino City F.D.

CUSTER COUNTY

37301 Sawtooth Valley Rural
37302 Challis City F.D.
37334 N. Custer Fire P.D.

ELMORE COUNTY

39301 Mountain Home F.D.
39303 Glens Ferry F.D.
39334 Mountain Home F.P.D.
39336 King Hill/Glens Ferry
F.P.D.

FRANKLIN COUNTY

41301 Preston City F.D.

GOODING COUNTY

47301 Gooding City F.D.
47333 Gooding Fire P.D.

IDAHO COUNTY

49310 Cottonwood City F.D.
49350 Riggins City/Rural F.D.

JEROME COUNTY

53201 Jerome City F.D.
53309 Hazelton Fire Dept.
53333 Jerome Rural
53353 Eden/First Segregation

KOOTENAI COUNTY

55201-02 Coeur d'Alene City F.D.
55234 Kootenai County F.D. #1
55340 Post Falls Fire P.D.
55342 Hayden Lake F.D.
55344 Rathdrum Rural F.P.D.
55346 Hauser Lake Fire P.D.
55352 Athol Fire P.D.

LATAH COUNTY

57301 Moscow City F.D.
57334 Moscow Rural F.D.

LINCOLN

63301 Shoshone City F.D.
63333 Wood River F.D. #1

MADISON COUNTY

65202 Rexburg Cty
65234 Rexburg/Madison F.P.D.

MINIDOKA COUNTY

67301 Rupert City F.D.
67334 West End Fire P.D.
67335 Northside/Rupert
67336 Heyburn Fire P.D.
67337 East End Fire P.D.

NEZ PERCE

69201-04 Lewiston City F.D.

ONEIDA COUNTY

71301 Malad Vol. F.D.

PAYETTE COUNTY

75301 Payette City F.D.
75302 Fruitland F.D.
75303 New Plymouth F.D.
75334 Payette Rural F.D.
75336 New Plymouth Rural
75338 New Plymouth V.F.D.
75340 Sand Hollow F.D.

SHOSHONE COUNTY

79201 Kellogg City F.D.
79203 Wallace Fire Dept.
79234 Shoshone Fire P.D. #2
79236 Shoshone Cty F.P.D. #1

TETON COUNTY

81301 Driggs City F.D.
81334 Teton County F.P.D.

TWIN FALLS COUNTY

83101-03 Twin Falls F.D.
83207 Buhl F.D.
83305 Kimberly City F.D.
83309 Hansen F.D.
83311 Filer Fire/Rescue
83334 Kimberly F.P.D.
83336 Buhl Rural F.D.
83338 Filer Fire/Rural

VALLEY COUNTY

85301 McCall City
85302 Cascade City F.D.
85334 Cascade Rural F.P.D.
85339 McCall Rural

WASHINGTON COUNTY

87301 Weiser City F.D.
87334 Weiser Rural F.D.

Fire in Idaho 1991

PART III - NATIONAL FIRE FACTS



1990 National Fire Facts

1990 NFIRS Data All Fires	46
Deaths Per 1,000 Fires.....	47
Injuries Per 1,000 Fires.....	48
Dollar Loss Per Fire.....	49

1990 NFIRS DATA - ALL FIRES

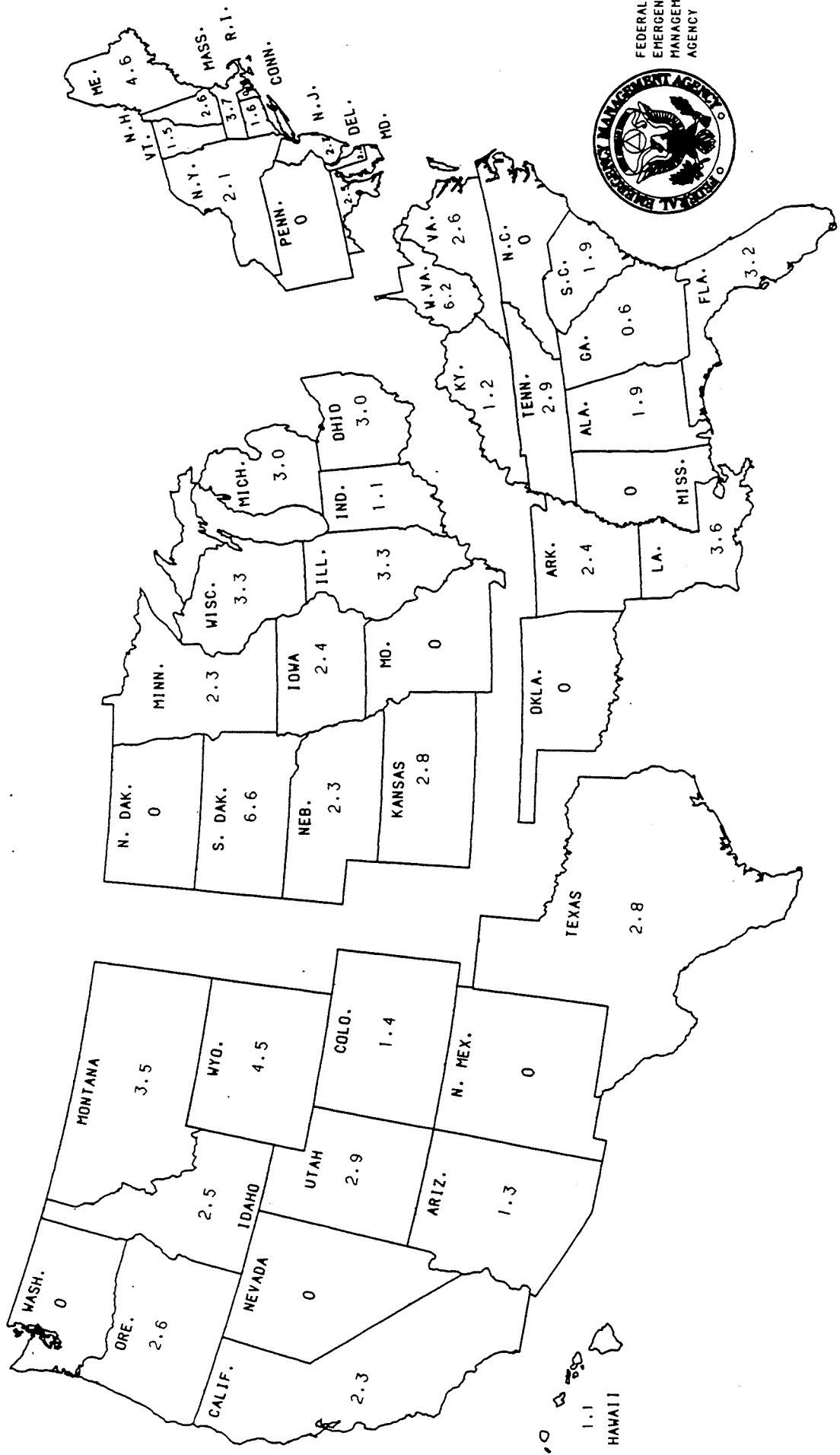
STATE ABBREV	NUMBER OF FIRES	FF DEATHS	CIV DEATHS	TOT DEATHS	FF INJ	CIV INJ	TOTAL INJ	DOLLAR LOSS	DEATHS PER 1000 FIRES	INJ PER 1000 FIRES	DOLLAR LOSS PER FIRE
AK	2,859	0	24	24	27	65	92	\$41,513,281	8.3	32.1	\$14,520
AL	3,506	0	7	7	34	79	113	\$10,585,685	1.9	32.2	\$3,019
AR	11,366	0	28	28	65	102	167	\$54,225,614	2.4	14.6	\$4,770
AZ	9,361	0	13	13	26	127	153	\$26,946,766	1.3	16.3	\$2,878
CA	154,970	1	356	357	1,133	2,022	3,155	\$852,930,816	2.3	20.3	\$5,503
CO	4,244	0	6	6	20	161	181	\$36,625,936	1.4	42.6	\$8,630
CT	19,487	0	33	33	578	340	918	\$62,623,203	1.6	47.1	\$3,213
DE	4,314	0	12	12	42	59	101	\$1,590,685	2.7	23.4	\$368
FL	44,549	0	144	144	552	970	1,522	\$138,050,021	3.2	34.1	\$3,098
GA	5,900	0	4	4	30	16	46	\$18,900,347	1.6	7.7	\$3,203
HI	4,356	0	5	5	83	72	155	\$22,253,333	1.1	35.5	\$5,108
IA	13,256	2	30	32	143	153	296	\$52,747,985	2.4	22.3	\$3,979
ID	5,061	0	13	13	60	94	154	\$18,605,356	2.5	30.4	\$3,676
IL	72,663	1	243	244	879	1,455	2,334	\$226,781,151	3.3	32.0	\$3,112
IN	19,661	1	22	23	125	166	291	\$56,188,669	1.1	14.8	\$2,857
KS	18,879	1	52	53	289	297	586	\$61,105,103	2.8	31.0	\$3,236
KY	4,020	0	5	5	37	31	68	\$5,375,687	1.2	16.9	\$1,337
LA	24,416	0	89	89	504	337	841	\$127,480,194	3.6	34.4	\$5,221
MA	27,639	0	105	105	1,304	731	2,035	\$138,002,858	3.7	73.6	\$4,993
MD	30,326	0	77	77	347	501	848	\$119,953,746	2.5	27.9	\$3,955
ME	3,838	0	18	18	63	45	108	\$74,747,507	4.6	28.1	\$19,475
MI	59,301	2	179	181	685	854	1,540	\$311,834,441	3.0	25.9	\$5,258
MN	20,641	1	48	49	275	301	576	\$92,922,522	2.3	27.9	\$4,501
MT	5,984	0	21	21	52	79	131	\$29,627,391	3.5	21.8	\$4,951
NE	8,843	0	21	21	102	165	267	\$33,868,304	2.3	30.1	\$3,829
NH	4,562	0	12	12	92	121	213	\$25,617,882	2.6	46.6	\$5,615
NJ	33,359	0	91	91	865	613	1,478	\$54,914,738	2.7	44.3	\$1,646
NY	59,714	3	123	126	2,142	938	3,080	\$419,166,214	2.1	51.5	\$7,019
OH	58,146	0	178	178	1,036	1,459	2,495	\$286,317,929	3.0	42.9	\$4,924
OR	14,847	0	40	40	173	259	432	\$71,506,789	2.6	29.0	\$4,816
RI	8,940	0	6	6	127	88	215	\$41,268,597	1.6	24.0	\$4,616
SC	12,024	0	24	24	66	83	149	\$34,512,732	1.9	12.3	\$2,870
SD	3,617	0	24	24	17	23	40	\$14,000,202	6.6	11.0	\$3,870
TN	12,479	0	37	37	106	142	248	\$49,887,859	2.9	19.8	\$3,997
TX	94,852	4	267	271	1,049	1,451	2,500	\$341,542,418	2.8	26.3	\$3,600
UT	7,372	2	20	22	82	182	264	\$25,152,749	2.9	35.8	\$3,411
VA	24,609	2	63	65	310	686	996	\$102,646,962	2.6	40.4	\$4,171
VT	2,583	0	4	4	10	14	24	\$30,313,463	1.5	9.2	\$11,735
WI	12,660	1	42	43	214	270	484	\$63,259,048	3.3	38.2	\$4,996
WV	7,818	1	48	49	94	88	182	\$74,126,124	6.2	23.2	\$9,481
WY	2,885	0	13	13	27	43	70	\$11,183,292	4.5	24.2	\$3,676
CW	940,107	22	2,547	2,569	13,866	15,682	29,548	\$4,260,903,599	2.7	31.4	\$4,532

1990 NFIRS DATA - ALL FIRES DEATHS PER 1,000 FIRES

FEDERAL
EMERGENCY
MANAGEMENT
AGENCY



ALASKA

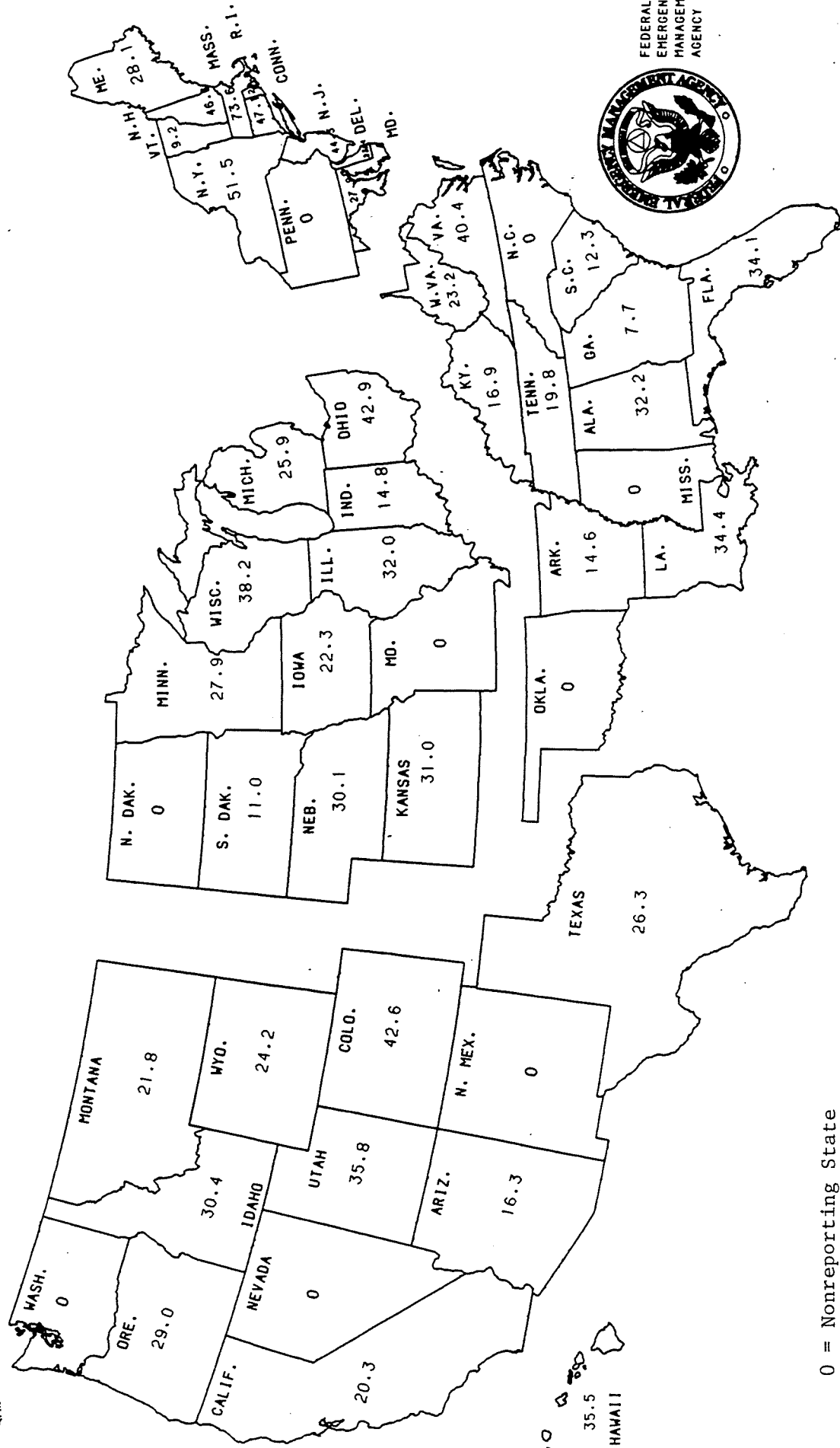


0 = Nonreporting State

OVERALL RATE: 2.7

1990 NFIRS DATA - ALL FIRES INJURIES PER 1,000 FIRES

ALASKA



FEDERAL
EMERGENCY
MANAGEMENT
AGENCY

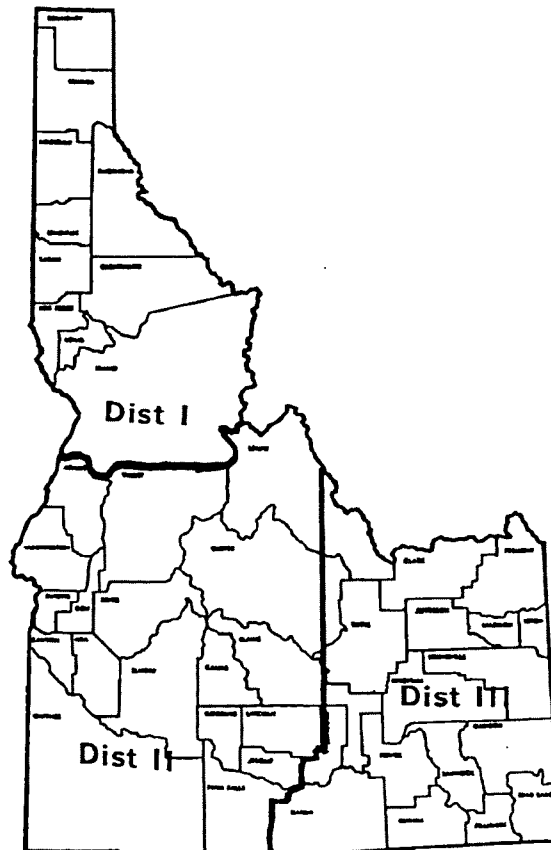
0 = Nonreporting State

OVERALL RATE: 31.4

Fire in Idaho 1991

PART IV - STATE FIRE MARSHAL ACTIVITY REPORT

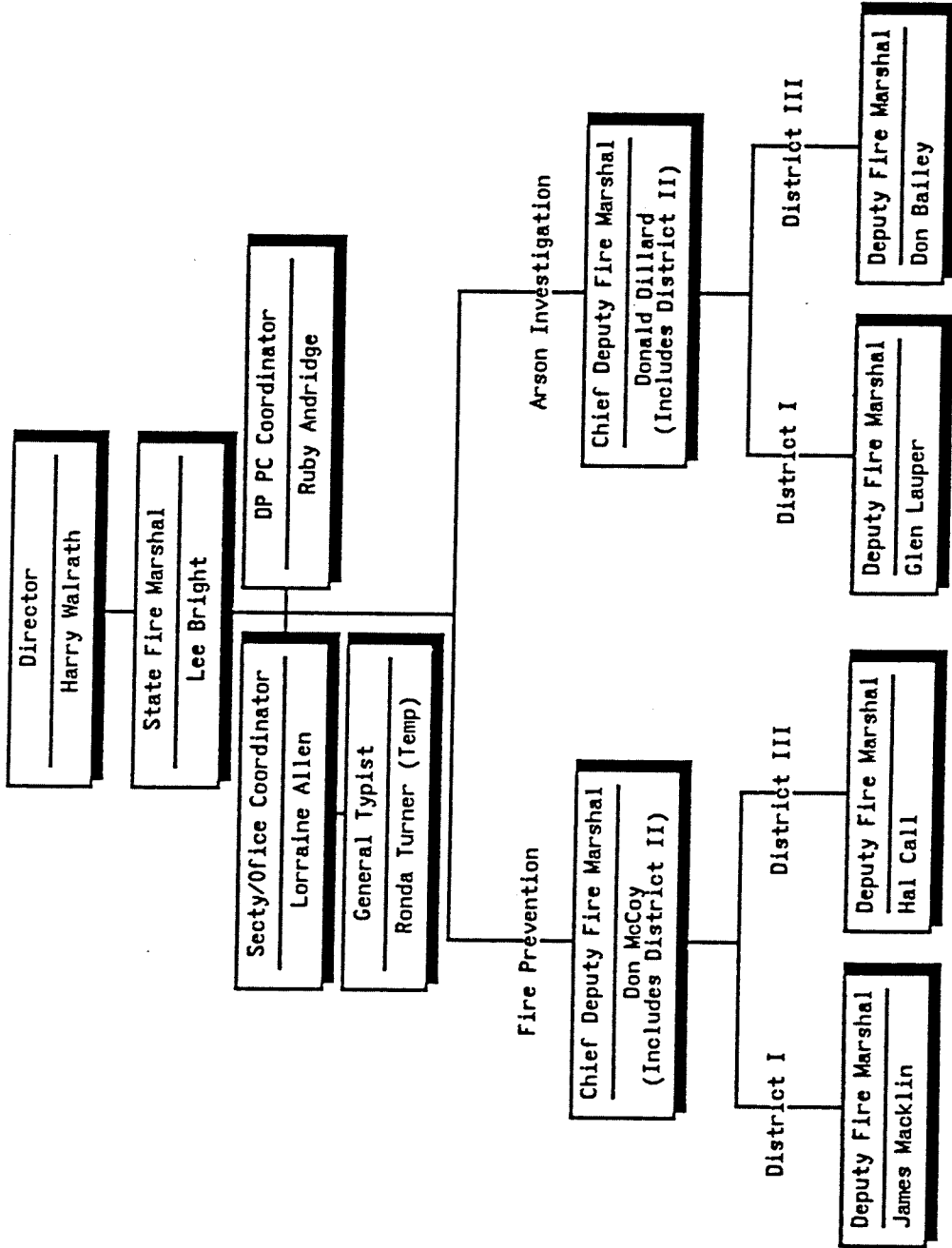
This section is made up of annual reports from the Fire Marshal and employees from the three districts of the Fire Marshal's Office.



State Fire Marshal Activity Report

Organizational Chart	51
State Appointed Boards	52
Prevention Section	53-55
Investigation/Fraud Section	56-59
Administrative Support Services.....	60
Idaho Fire Incident Reporting System (IFIRS)	61

STATE FIRE MARSHAL'S OFFICE



STATE APPOINTED BOARDS

STATE FIRE MARSHAL ADVISORY BOARD

Dale Costa, Kellogg/Shoshone Fire Prot. Dist. #2
Cary Campbell, Chubbuck Fire Dept.
Phil Clough, Twin Falls Fire Dept.
Bill Cowin, St. Maries City/Rural F.D.
Ken Robinson, Moscow Fire Dept.
Bill Squires, Whitney Fire P.D.
Jim Auclair, Jerome Fire Dept.
Richard Wolf, Pocatello Fire Dept.
Richard Hahn, Idaho Falls Fire Dept.
Tom Johnson, Ketchum Fire Dept.
Thayne Taylor, Rupert Fire Dept.
Claire Harkins, Fire Service Training
Jeannine Benson, Assoc. of Idaho Cities

This Board includes the Board of Directors of the Idaho Fire Chiefs Association.

UNDERGROUND STORAGE TANK TECHNICIAN CERTIFICATION BOARD

John Hiler, Hiler Bros. Company, Chairman
Mark Jensen, Lakeview Chevron
Clint Wilson, Petrol Services
Dave Mabe, Idaho Petroleum Council
Paul Jehn, Division of Environmental Quality

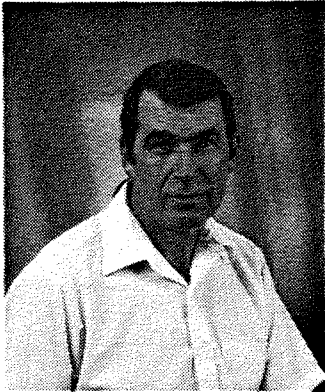
This Board was appointed by the Governor to enforce Regulation No. 63 to regulate persons for hire to perform services for underground storage tank projects. The regulation was enacted to assure that underground storage tank systems were being serviced in a manner which will protect the public health and welfare and the land and waters within the state of Idaho.

FIRE PREVENTION SECTION

	<u>1989</u>	<u>1990</u>	<u>1991</u>
Fire Inspections	184	251	265
Fire/Arson Investigations	18	30	28
Fire Code Interpretations	277	290	317
Business Meetings	192	306	324
Assistance	197	298	317
Official Contacts	284	390	418
Public Appearances	19	17	27
Training Courses	51	46	46
Schools/Seminars Attended	28	44	30
UST Inspections	76	84	60
Plans Review (State Owned & Schools)	*	*	39

*Not Applicable

DISTRICT I - FIRE PREVENTION - LEWISTON, IDAHO
JIM MACKLIN, DEPUTY STATE FIRE MARSHAL



DISTRICT ACTIVITY: District I has again been involved in many different projects. The major activity has been assisting local authorities with problem solving processes to gain code compliance. Underground storage tank removal and installation projects are continuing at a steady pace.

TRAINING GIVEN: Uniform Fire Code: Three Classes were given and three are scheduled for the 1991 code. There seems to be a great deal of interest in the '91 code because of the numerous changes and additions.

Fire and Arson Detection: Glenn Lauper and I taught two classes on the basic Fire and Arson Detection program. Between the two of us, we passed along a lot of information in a short time.

TRAINING RECEIVED: I attended an arson seminar sponsored by the Washington Chapter of IAAI and the seminar held at Post Falls, both were very informative.

PLANS REVIEW: I have been active with construction plans reviews of state owned buildings and proposed school construction plans. The major problems are water supplies.

OBJECTIVE: To continue being available to respond to the local authorities' needs and give them the best information and help available.

DISTRICT II - FIRE PREVENTION - BOISE, IDAHO
DON MCCOY, CHIEF DEPUTY STATE FIRE MARSHAL



DISTRICT ACTIVITY: The end of the year at the State Fire Marshal's Office is always a busy time and this year is no exception. This brought about the adoption of the 1991 Uniform Fire Code and the result is rewriting the Code class and the certification exam, as well as, the process of learning the ins and outs of a new code.

PLANS REVIEW: 1991 was a very interesting year and I believe a real turning point for the office. We now are reviewing the new building, additions and remodel plans of all State buildings in conjunction with the Department of Labor and Industrial Services. This office is also assisting local fire departments with plans reviews for school projects.

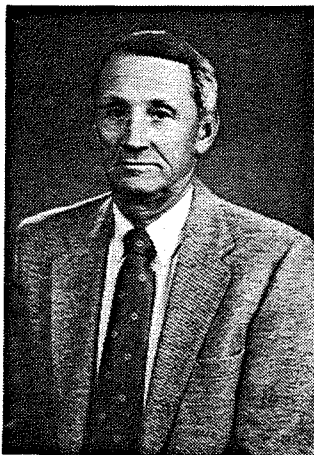
TRAINING GIVEN: In District II this year, the fire service was again engaged in increasing their knowledge. I taught three Fire Code classes and two Basic Inspections classes. The recertification tests were written again and mailed out. Many have since

been returned and I continue to see excellent progress as all certified inspectors improve their ability to use the code.

This year many calls have been received from fire departments, architects, and building officials regarding code requirements. As our profession grows, the questions continue to become more complicated and take longer to answer.

OBJECTIVE: I am looking forward to the year of 1992 with great expectations for the fire service and fire prevention in general. Thank you all for putting up with me for another year and I promise you my total devotion when I am called upon to serve you in the upcoming year. Without your enthusiasm and dedication, all would be for naught.

DISTRICT III - FIRE PREVENTION - POCA TELLO, IDAHO
HAL CALL, DEPUTY STATE FIRE MARSHAL



DISTRICT ACTIVITY: The past year, 1991, has been an interesting year with many different activities and problems in which I have participated. The challenges seem to get more complex as the cities and fire chiefs find themselves faced with less money and resources to do a more demanding and complex job.

With the ever changing requirements in the chemical industry, the building industry, etc., I find that I am being called upon more frequently to render opinions and to provide code guidance.

PLANS REVIEW: This past year has seen a great change in being more involved in State building construction. I have reviewed a number of plans on these buildings and have seen much good come from this. Buildings that previously would have had little or no fire protection will now have sprinkler systems, thus giving the local fire authority some means of dealing with a serious fire problem.

UNDERGROUND STORAGE TANKS: In eastern Idaho we are still experiencing serious underground/aboveground fuel storage system problems. Aboveground tanks are showing up in places not allowed by code. Most are exceeding allowable size. Some underground storage systems are being removed from the ground and attempts are made to place them in aboveground configurations in direct violation of existing codes. Much of this is being done on farms.

TRAINING: This past year has seen involvement in teaching and certifying firefighters in the Uniform Fire Code as well as teaching inspection classes. Much time is spent in answering and interpreting code questions for fire officials, mayors, county commissioners and individuals.

OBJECTIVE: I hope to continue to foster cooperation between the cities, fire officials and the State Fire Marshal's Office and to be a ready resource to any and all. It has been a distinct privilege and pleasure to serve.

**ARSON/FRAUD
INVESTIGATION SECTION**

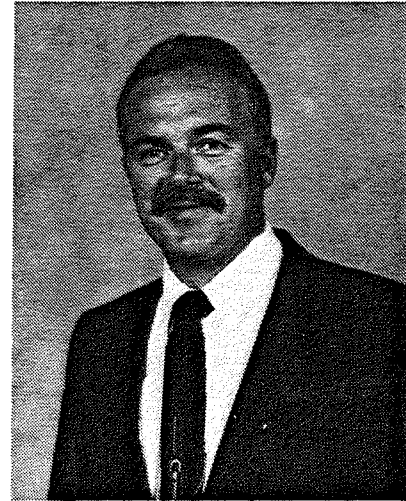
Arson fires investigated.....	30
Accidental fires.....	64
Suspicious fires.....	8
All others	2
Total Investigations.....	104
Total Estimated \$ loss	\$5,783,600

DISTRICT I - ARSON/FRAUD INVESTIGATIONS - COEUR D'ALENE, IDAHO
GLENN LAUPER, DEPUTY STATE FIRE MARSHAL

DISTRICT ACTIVITY: I have continued my quest to contact and visit with as many fire departments and law enforcement agencies as often as I can to promote the "Arson Task Force" concept.

I have made significant progress in relocating used firefighting equipment and personal protective gear for small rural volunteer fire departments with the help of many of the larger fire departments in Region I and the Department of Lands.

The Critical Incident Stress Debriefing Team saw its beginning in North Idaho this year. This team is comprised of mental health professionals, fire, EMS, and police department peers. I have enjoyed working with these people and have been notably impressed by their sense of commitment to this project.



I continue to assist Deputy Jim Macklin in fire prevention, inspections, code enforcement. This dual role seems to be working agreeably for this region. I continue to witness eminent cooperation between law enforcement and fire service in performing arson investigations.

Total cases worked	35
Arson	10
Accidental fires	21
Suspicious	3
Others	1
Fatal fires	3

Number of arrests from investigations3

Number of court actions pending..... 1

Estimated total \$ loss \$1,607,600

TRAINING: I participated in the Washington State IAAI seminar and was able to pass the test for certified fire investigator. I look forward to assisting the Idaho State Chapter of the IAAI in implementing this testing procedure.

ARSON TASK FORCE: The North Idaho Task Force continues to respond and assist this office at times when I'm not available. I deeply appreciate all of the members of the Task Force who dedicate and volunteer their time.

DISTRICT II - ARSON/FRAUD INVESTIGATIONS - BOISE, IDAHO
DONALD D. DILLARD, CHIEF DEPUTY STATE FIRE MARSHAL

Since 1991 has been our biggest year for the number of arson and fire investigations completed, it has also been most rewarding in the number of prosecutions.

OBJECTIVE: Though our main objective is arson investigation and prosecution, we have also had success in bringing additional charges of insurance fraud and other related activities against those prosecuted.



DISTRICT ACTIVITY:

Total cases worked.....	47
Arson.....	14
Accidental.....	29
Suspicious.....	4
Fatal fires.....	2

Number of arrests from investigations3

Number of court actions pending.....3

Estimated total \$ loss \$3,568,100

Our District Deputies and the various Arson Task Force teams continue to do an excellent job in the area of arson investigation and investigative training. All are to be commended.

DISTRICT III - ARSON/FRAUD INVESTIGATIONS - POCATELLO, IDAHO
DON BAILEY, DEPUTY STATE FIRE MARSHAL

INVESTIGATIVE ACTIVITIES: This involved assisting city, county and federal fire service and law enforcement agencies with investigations in thirteen counties in Eastern Idaho. Fires were in dwellings, mobile homes, commercial structures, vehicle fires and other out buildings.



Total cases worked	22
Arson	6
Accidental	14
Suspicious	1
Other	1
Fatal fires	0
Number of arrests from investigations	12
Number of convictions	5
Number of court actions pending.....	8
Estimated total \$ loss	\$607,900

ARSON TASK FORCE ACTIVITIES: Minidoka/Cassia Task Force continues to be the most active; Idaho Falls/Bonneville County Task Force continues to up-grade training and Bingham County Task Force has requested assistance with reorganization.

TRAINING PROVIDED: A class in fire/arson investigation was provided to Southeast Idaho Claims Adjustors Association. A Certified Fire Investigators orientation was provided at the Fire Prevention Seminar held in Idaho Falls. The sixteen hour basic N.F.A. Fire/Arson Detection class was presented to the Inkom and Challis Fire Departments (which included fire department members from Stanley, Salmon and Northfork) and Challis Police Department.

OTHER ACTIVITIES: Coordination of the Certified Fire Investigator's Program between the International Office of the I.A.A.I. and the Idaho Chapter. Continue the on-going interaction with insurance claims representatives and attorneys related to fire investigations.

TRAINING RECEIVED: Attended the International Association of Arson Investigator's Conference in New Orleans, Louisiana and the Idaho Fire/Arson Investigator's Conference in Post Falls, Idaho.

OBJECTIVES: Continue to assist local, county, state, and federal agencies with the investigation of suspicious fires, promote the arson task force concept and provide fire/arson investigation training.

IDAHO FIRE INCIDENT REPORTING SYSTEM

RUBY ANDRIDGE, D.P. PERSONAL COMPUTER COORDINATOR



TRAINING RECEIVED: Attended the National Fire Incident Council (NFIC) regional training session in Baltimore, Maryland and the annual meeting in San Jose, California.

CLASSES GIVEN: Training sessions on IFIRS Coding were given to Albion, Blackfoot, Buhl, Burley, Grangeville, Hazelton, Kamiah, Kimberly, McCall, Oakley, Plummer, Pocatello, Rupert, Tensed, and Worley.

Training on the NFIRS Software was given to Coeur d'Alene, McCall, Meridian, Mountain

Home, and Osburn fire departments.

PARTICIPATION: There are 113 fire departments in Idaho on IFIRS. This represents 80% of Idaho's protected population but only 67% of the total population. The number of computerized departments reporting by diskette has steadily increased to a total of 33 combined departments.

OBJECTIVE: To increase the number of fire departments participating in the reporting system and to continue to be available to assist the fire service with their reporting needs.

I hope that this report has helped acquaint you with the fire problems in Idaho as well as the services the State Fire Marshal Division provides. We look forward to working with the fire service and other agencies. I encourage your feedback regarding this report and any concerns regarding fire in Idaho.