

# **FIRE IN IDAHO**

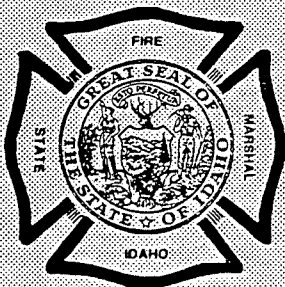
**1990**

## **NINTH ANNUAL REPORT**

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

**Lee Bright  
State Fire Marshal**



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Presented by the Idaho State Fire Marshal

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1,496

**RESIDENTIAL**

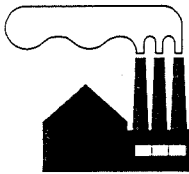
(Single family dwellings, apartments, mobile homes, hotels, motels, etc.)



159

**PUBLIC AND MERCANTILE**

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



313

**INDUSTRIAL, MANUFACTURING,  
OTHER BUILDINGS**

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



804

**MOBILE PROPERTY**

(Automobile, trucks, trains, buses, boats)



2,289

**OUTSIDE AND OTHER**

(Dumpsters, trash, wildland, grass, trees)

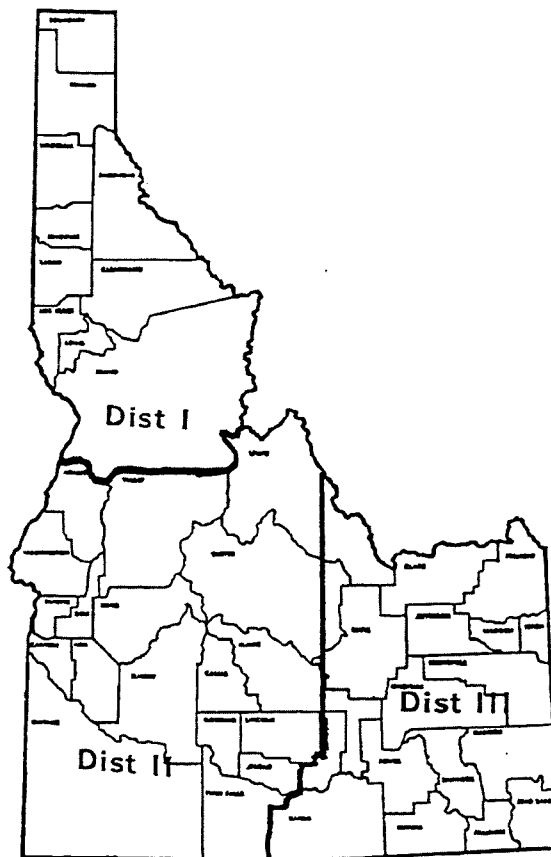
5,061

**TOTAL FIRES**

## Fire in Idaho 1990

# PART I - STATE FIRE MARSHAL'S OFFICE

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



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## FIRE PREVENTION DIVISION



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**DISTRICT I - FIRE PREVENTION**  
**JAMES E. MACKLIN, DEPUTY STATE FIRE MARSHAL**

**DISTRICT ACTIVITY** - District I has been involved in many different projects from construction of a new ski resort to temporary classrooms. This district continues to be interested in solving their local fire safety problems but needs confirmation that they are going in the right direction. It appears that departments who have had fire code training are now influencing departments who have not had the training.

**PROBLEMS** - The major problems occur in counties that have not adopted the Uniform Building Code, Uniform Fire Code or any other code including planning or zoning. County officials agree that code adoption is needed but it is not politically favorable.

**TRAINING RECEIVED** - I attended the mid-winter Uniform Fire Code hearing in San Antonio and noticed that it was not as hectic as those held in the summer. Three days were set aside as opposed to one day for the summer hearings. Southwestern Testing Laboratory sponsored a fire and hose stream test conducted on a 30-minute wall assembly.

We are beginning to see the benefits of all the training the Fire Marshal's Office has provided. We must continue to respond to fire service needs. I would like to express my thanks to everyone in District I.

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

The year 1990 has passed by but many good things have been accomplished within the Fire Marshal's Office that will remain with the fire service for many years. The fire prevention personnel and investigators in local fire departments within District II are continuing to further their education and develop many skills that will help make communities a safer place to live.

**TRAINING GIVEN - Uniform Fire Code:** Two classes were given with three scheduled for 1991. There appears to be a renewed interest in these classes, which points to the fact that it is cheaper and safer to prevent a fire than it is to fight a fire.

**Basic Fire Inspection:** This class is the old Fire Prevention I class from the National Fire Academy. It has been given once this year and hopefully there will be continued requests. It is an excellent class for the engine company inspection teams.

**TRAINING RECEIVED** - I received 150 hours of training during the year ranging from Fire Code class to Fire Service Instruction Methodology at the Academy to Fire Cause and Origin classes. Continuing education is essential.

**SCHOOL PLANS REVIEW** - The Fire Marshal's Office is now reviewing school plans in conjunction with local fire officials. The biggest problem seems to be water supply. This office also has become more involved with plans review of state buildings.

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CODE ADOPTION - The 1991 Uniform Fire Code will be adopted in 1991 or early 1992, so much work is needed to inform others of the changes and develop a new version of the code class.

I would like to thank all in District II for their fine attitude and energetic way of attacking and solving on-going problems.

**DISTRICT III - FIRE PREVENTION**  
**HAL CALL, DEPUTY STATE FIRE MARSHAL**

DISTRICT ACTIVITY - 1990 has been a most challenging and active year for Eastern Idaho. There has been an increase from past years in requests for assistance in various areas such as abatement of hazardous buildings, inspections of schools (with most requests coming from patrons, not school officials), requests from fire and city officials, and business owners for inspections of various buildings. There has been a tremendous increase in fuel storage tank activity since many underground tanks have been removed and many new systems installed. Much of this activity was a result of meeting federal guidelines for up-grading existing facilities. Many requests to replace underground systems have come from service stations owners, farmers, school districts, cities, airports, forest service, mining operations, etc. Requests were allowed in some cases where code requirements could be met, most were not. A number of bulk plant operators have tried to dispense directly from above-ground tanks through piping directly connected to dispensing islands. This has not been allowed by the fire code.

PLANS REVIEW - I have been active in plan reviews for new schools, additions to schools, and all state buildings being constructed. Through this process, I have been instrumental in having sprinkler systems installed in schools that otherwise would not have them.

TRAINING GIVEN - I certified 50 new fire inspectors in 1990.

GOALS - My goal is to be as accessible as possible to fire departments, city/county officials, and others who need my help and to provide more public fire safety information.

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## PREVENTION ACTIVITY REPORT

	<u>1989</u>	<u>1990</u>
Fire Inspections	184	251
Fire/Arson Investigations	18	30
Fire Code Interpretations	277	290
Business Meetings	192	306
Assistance	197	298
Official Contacts	284	390
Public Appearances	19	17
Training Courses	51	46
Schools/Seminars Attended	28	44
UST Inspections	76	84

Fire Inspector Certification - As of December 1990, there were 433 active certified fire inspectors of which 30 were new applicants.

Fire Protection Sprinkler Contractors License - There are 9 in-state and 22 out-of-state contractors licensed to do business in the state of Idaho.

Fire Protection Sprinkler Fitter License - There are 26 in-state and 5 out-of-state fitters licensed in Idaho.

Sprinkler Installation Plans Review and Inspections - There were 198 plans submitted for review this year with 203 on-site inspections made.

Property Insurance Loss Register - In 1990 insurance companies reported 1,112 fire loss claims in Idaho for a total of \$34,174,137.

The interim certification for the UST technician went into effect July 1, 1990. There were a total of 224 technicians certified to be inspectors, removers, installers and testers. The interim certification remains in effect until June 30, 1991, when certification will require passing an examination.

**ARSON/FRAUD  
INVESTIGATION DIVISION**



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**DISTRICT I - ARSON/FRAUD INVESTIGATIONS**  
**GLENN LAUPER, DEPUTY STATE FIRE MARSHAL**

Upon assuming the duties as Deputy State Fire Marshal in the Panhandle Region and making contact with fire departments and law enforcement agencies in that area, a real need for assistance in several areas became evident.

NEEDS - Taking priority was firefighting equipment and personal protective gear for small rural volunteer fire departments. This issue was dealt with by implementing a plan to act as a vehicle to relocate fire equipment with the help of many larger fire departments in District I, the Department of Lands and the Professional Firefighters of Idaho.

TRAINING - Another priority was the training of firefighters in arson detection. This was addressed in developing a three-hour course on the "Firefighters Responsibility in Arson Detection". This course was developed using National Fire Administration (N.F.A.) materials. It was intended to be delivered during nightly training drills and be used as an introduction to the arson task force concept for community leaders, law enforcement and fire personnel. Jim Macklin and I have also been active in a two-day N.F.A. course on Fire/Arson detection.

In addition to fire investigation responsibilities, I have also been assisting Deputy Macklin in fire prevention inspections and code enforcement. I have witnessed eminent cooperation between law enforcement and fire service in this region. The North Idaho Task Force continues to respond and assist this office at times when I'm not available or committed to another incident. I deeply appreciate and admire all of the members of the task force who dedicate and volunteer their time in a sometimes thankless task.

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

DOLLAR LOSS - Schools took top billing for big dollar losses in 1990. An estimated \$8 million was lost in three school fires, all deemed accidental in cause. Coming in second, in dollar losses, were various wood product plant fires. An estimated \$4.5 million was lost to arson fires in these plants. District II also saw one of the most spectacular fires of 1990 in the loss of the Saratoga Hotel located in Caldwell. This fire was deemed suspicious and is still under investigation. Total loss of property investigated in all three districts was \$7,823,650.

ARSON - Arson fires reported and investigated were down somewhat from 1989. We would like to think that this was due, in part, to the effectiveness of the local Arson Task Force Teams in the area. Statewide the Arson/Fraud Unit continued to see an increase in caseload from 1989.

District I (North Idaho) increased 43%  
District II (Central Idaho) increased 25.6%  
District III (Eastern Idaho) increased 4.6%

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Our goal for 1991 is to continue to support those agencies requesting our assistance in fire investigation in an effort to insure that as many fires as possible receive the investigative attention they need.

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

Investigation, training support, as well as promotion of the arson task force concept to fire service and law enforcement agencies have continued this year.

**ACTIVITIES** - This involved assisting city and county fire and law enforcement agencies with the investigation of 22 fire scenes in 12 of the counties in Eastern Idaho. There were 6 suspicious fires, 15 accidental fires, and one assist to the state of Wyoming on the investigation of the Grand Teton Lodge fire. Of the fires investigated, 12 were dwelling fires (8 wood and ordinary construction and 5 mobile homes), 5 were commercial structure fires and 4 were vehicle fires.

Three of the fire scenes investigated were determined to have been incendiary fires. The investigation of the suspicious fires resulted in the arrest and conviction of four individuals, two juveniles and two adults. The juveniles were charged in juvenile court. One adult was convicted of 1st degree arson, the other of 4th degree arson.

**ARSON TASK FORCE** - Activities include assistance and training to the area task forces.

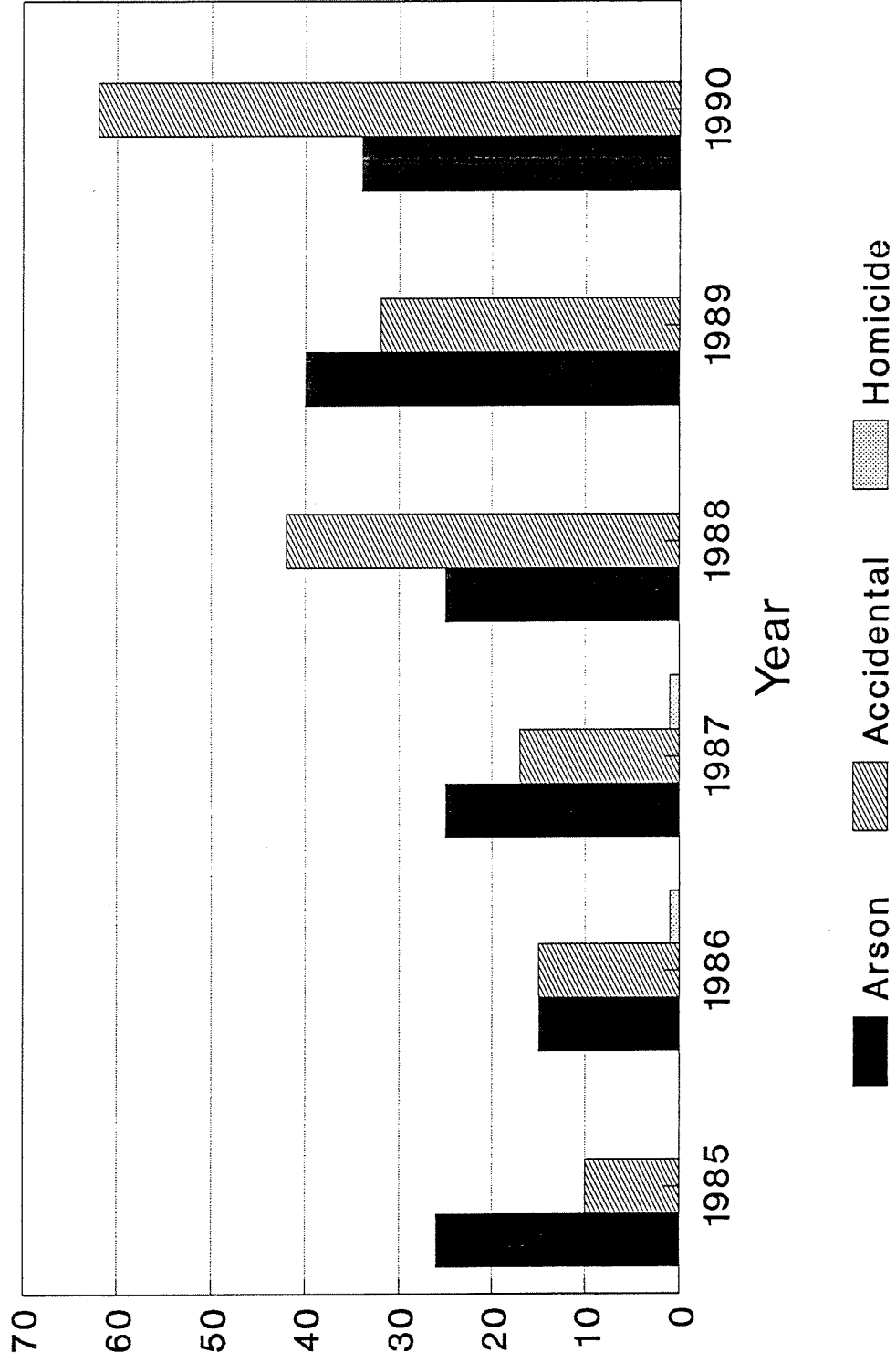
**FIRE/ARSON VAN** - Activities involved utilization of the van on 17 fire scene investigations.

**TRAINING GIVEN** - Activities involved instruction of three 16-hour Fire/Arson Detection classes, 29 students, and one fire/arson van orientation class, 21 students. A 100-hour Advanced Fire/Arson Investigation course was conducted involving 8 students from five fire service and law enforcement agencies. Other activities included on-going interaction with insurance claims representatives and attorneys related to fire investigations.

**TRAINING RECEIVED** - I attended the International Association Arson Investigators Conference in Detroit, Michigan; Idaho Fire/Arson Investigator's Conference, Caldwell; Building Construction Principles, Wood and Ordinary Construction for Investigators class, Boise; and Defensive Driving Course in Pocatello.

**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.

# Arson/Fraud Investigations

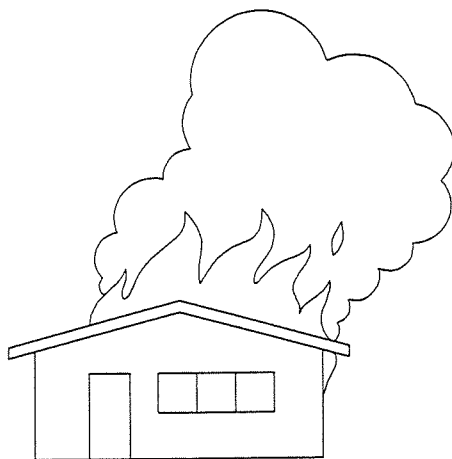


IDAHO - 1990

## Fire in Idaho 1990

# PART II - 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.**



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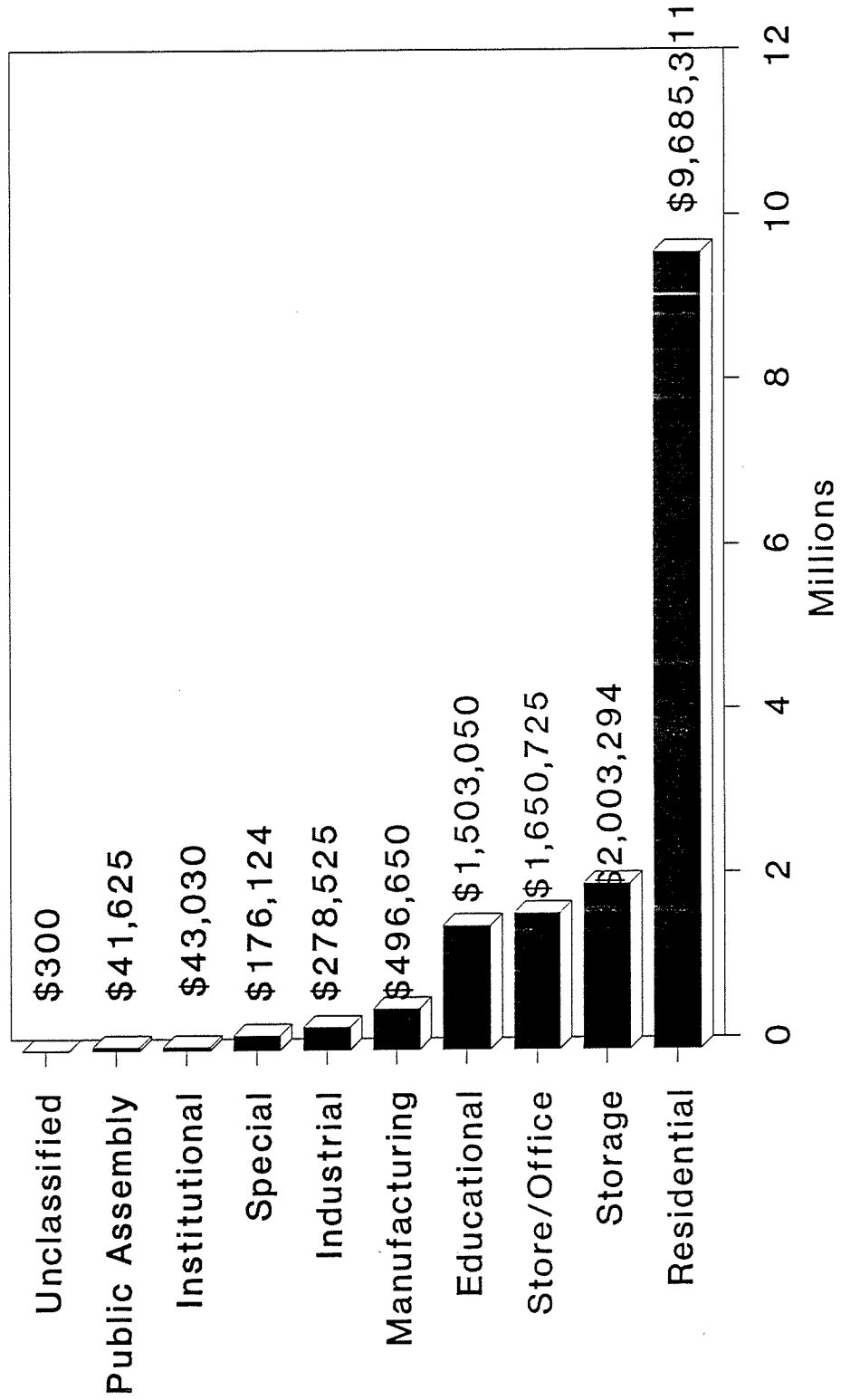
**SUMMARIZATION OF FIRES, DEATHS AND INJURIES PLUS  
THE ESTIMATED DOLLAR LOSS PER PERSON BY COUNTY**

	<u>Total Fire</u>	<u>Total Injuries</u>	<u>Total Deaths</u>	<u>Dollar Loss</u>	<u>Population</u>
Ada	1275	-28-	-1-	5,738,413	205,775
Adams	No Depts. Reporting			-0-	3,254
Bannock	218	-8-	-1-	635,755	66,026
Bear Lake	39	-0-	-0-	14,900	6,084
Benewah	38	-2-	-1-	688,900	7,937
*Bingham	1	-0-	-1-	40,000	37,583
Blaine	100	-3-	-0-	687,010	13,552
Boise	32	-3-	-0-	54,700	3,509
Bonner	171	-5-	-0-	217,390	26,622
Bonneville	235	-8-	-0-	816,135	72,207
Boundary	No Depts. Reporting			-0-	8,332
Butte	No Depts. Reporting			-0-	2,918
Camas	No Depts. Reporting			-0-	727
Canyon	681	-22-	-1-	1,591,508	90,076
Caribou	47	-7-	-0-	193,700	6,963
Cassia	128	-1-	-1-	415,095	19,532
Clark	No Depts. Reporting			-0-	762
Clearwater	49	-1-	-0-	164,000	8,505
*Custer	1	-0-	-0-	10,000	4,133
Elmore	23	-0-	-0-	-0-	21,205
Franklin	28	-0-	-0-	309,750	9,232
Fremont	No Depts. Reporting			-0-	10,937
*Gem	1	-3-	-1-	-0-	11,844
Gooding	62	-0-	-0-	920,325	11,633
Idaho	4	-0-	-0-	50,000	13,783
Jerome	192	-4-	-0-	820,585	16,543
Jefferson	No Depts. Reporting			-0-	15,138
Kootenai	746	-16-	-3-	1,476,996	69,795
Latah	88	-4-	-0-	157,685	30,617
Lemhi	No Depts. Reporting			-0-	6,899
Lewis	No Depts. Reporting			-0-	3,516
Lincoln	10	-0-	-0-	57,000	3,308
Madison	No Depts. Reporting			-0-	23,674
Minidoka	212	-0-	-0-	349,975	19,361
Nez Perce	190	-6-	-0-	436,675	33,754
*Oneida	1	-0-	-1-	25,000	3,492
Owyhee	No Depts. Reporting			-0-	8,392
Payette	193	-3-	-1-	591,465	16,434
Power	No Dept. Reporting			-0-	7,086
Shoshone	173	-11-	-0-	271,725	13,931
Teton	39	-3-	-0-	52,650	3,439
Twin Falls	350	-12-	-1-	1,316,464	53,580
Valley	30	-0-	-0-	22,040	6,109
Washington	96	-4-	-0-	479,515	8,550
<b>TOTALS</b>	<b>5,453</b>	<b>154</b>	<b>13</b>	<b>18,605,356</b>	<b>1,006,749</b>

\* Fire Departments not reporting, information gathered for specific incidents.

Population based on 1990 Bureau of the Census report

# Structure Loss By Property Type



IDAHO - 1990

## HOSTILE FIRES BY COMPLEX

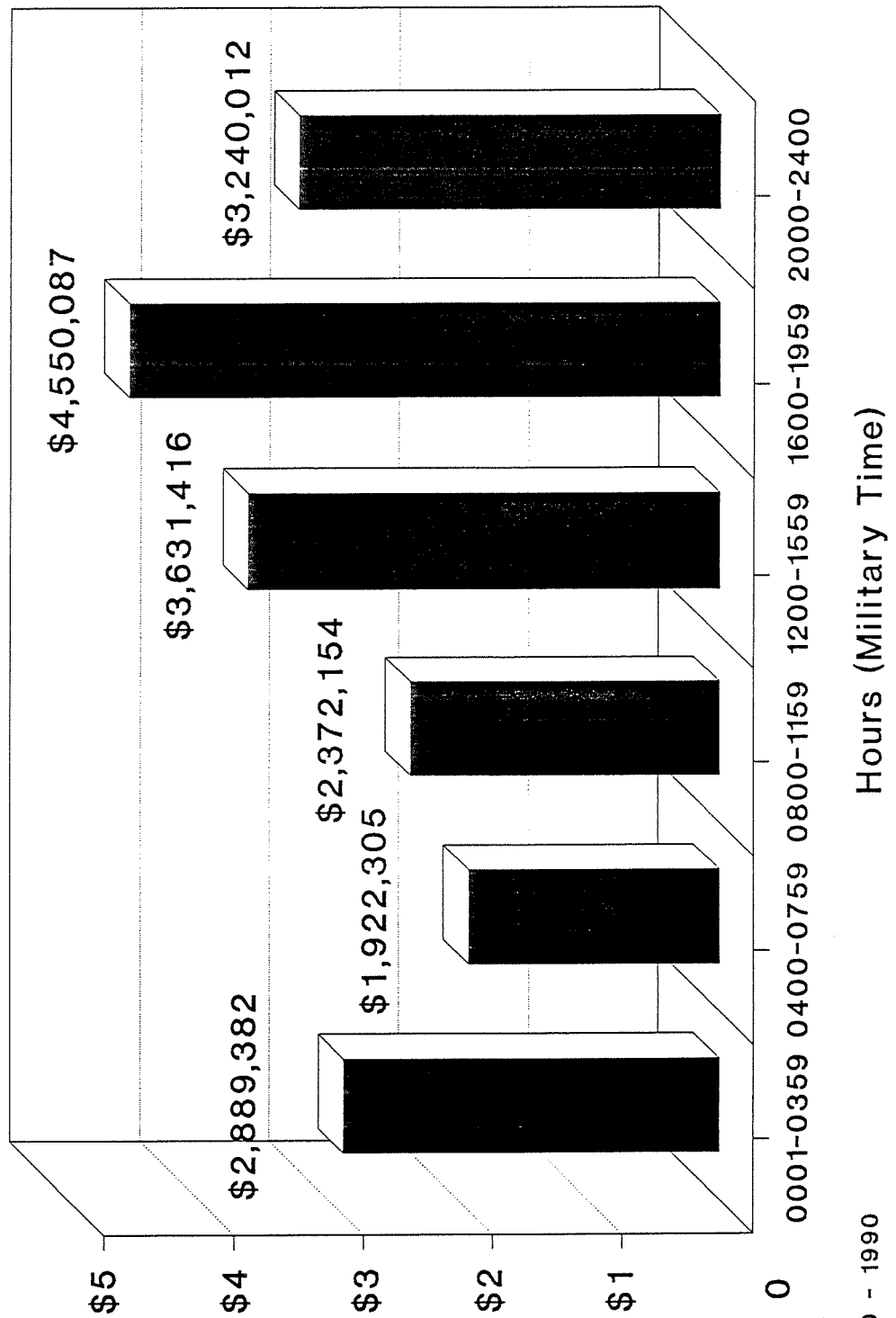
	<u>FIRES</u>	<u>INJURY</u>	<u>DEATH</u>	<u>\$ LOSS</u>
Apartment Complex	104	10	0	855,810
Dwelling (one/two family)	1,745	82	11	9,029,706
Educational Complex	46	1	0	1,508,450
Farm Complex	541	11	1	1,695,490
Industrial Plnt/Mfg Cmpl	87	3	0	330,462
Mobile Home Park Complex	51	3	0	183,570
No Complex	1351	15	1	937,084
Office Complex	51	1	0	504,315
Other	78	2	0	99,765
Railroad Transport Complex	47	1	0	13,560
Road Complex	535	5	0	571,870
Shopping Complex	100	2	0	189,037
Warehouse/Stge Complex	58	7	0	1,722,344

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

Unknown	\$3,437,121
Incendiary	\$198,699
Suspicious	\$886,350
Totals	\$4,522,170

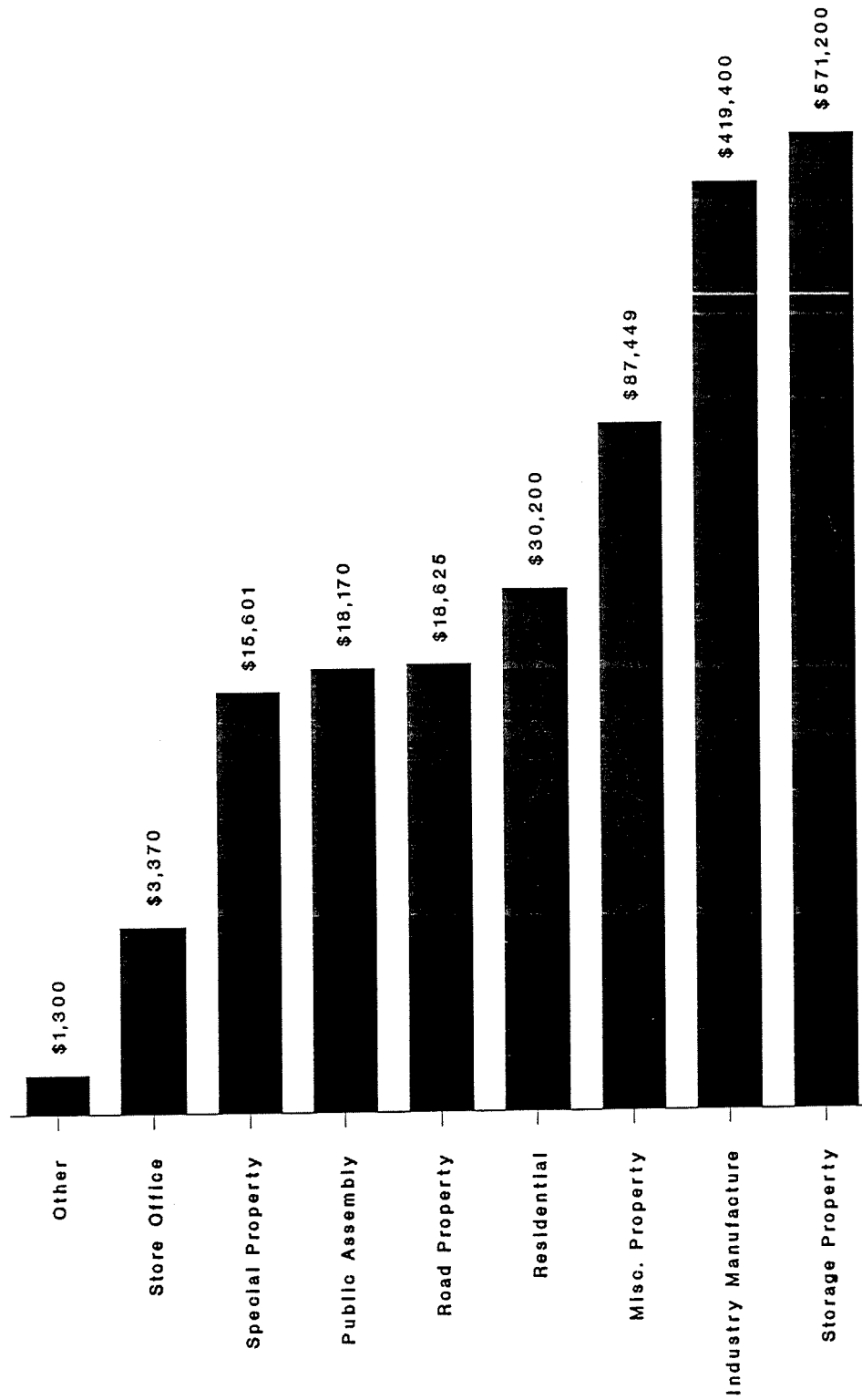
# Alarm Time vs. Fire Loss

Millions



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# Outside Fire Losses



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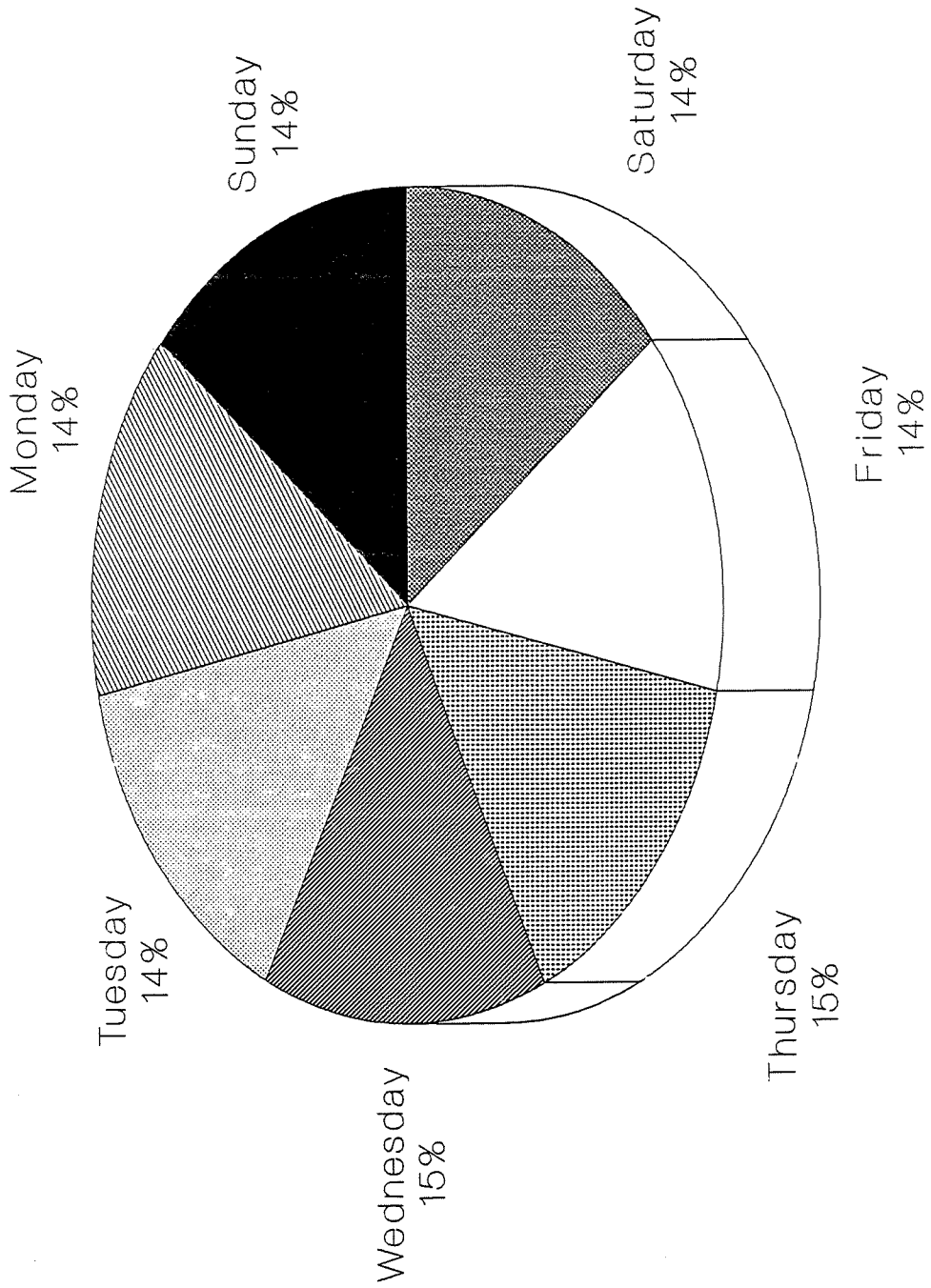
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## IDAHO FIRE INCIDENT SUMMARY

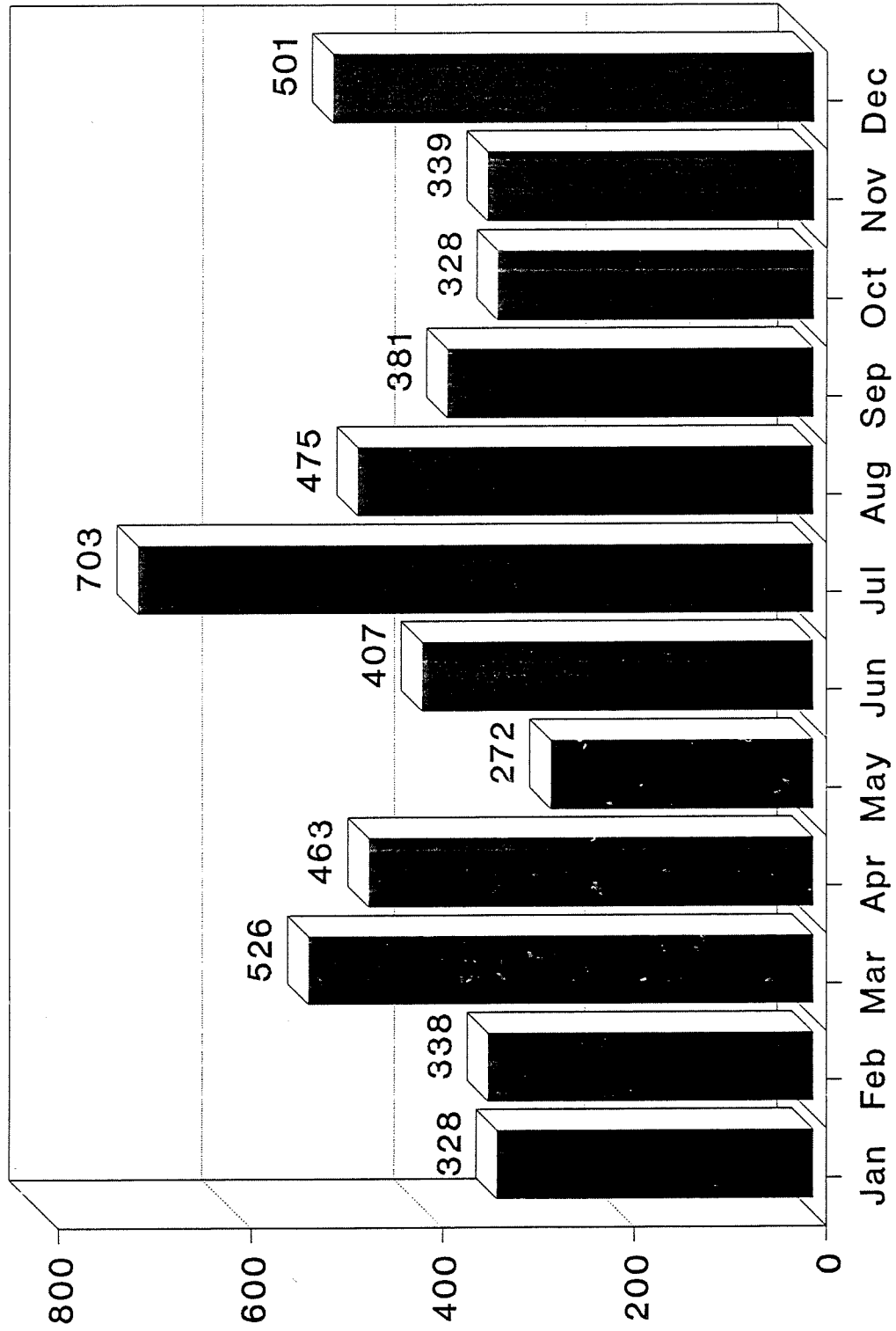
Situation Found Category	Incidents
Building Fires	1,968
Vehicle Fires	804
All Other Fires	2,289
Total Fires	5,061
Overpressure Ruptures	62
Rescue Calls	1,463
Hazardous Conditions	1,501
Service Calls	675
Good Intent Calls	2,079
False/Malicious Calls	1,907
All Other Calls	26
Total Incidents Reported	13,166
Times Mutual Aid Given	810
Times Mutual Aid Recvd	502
Total Fire Dollar Loss	\$ 18,605,356
Civilian Fire Injuries	94
Civilian Fire Deaths	13
Fire Service Injuries	60
Fire Service Deaths	0

# Fires by Day of Week



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# All FIRE Calls by Month



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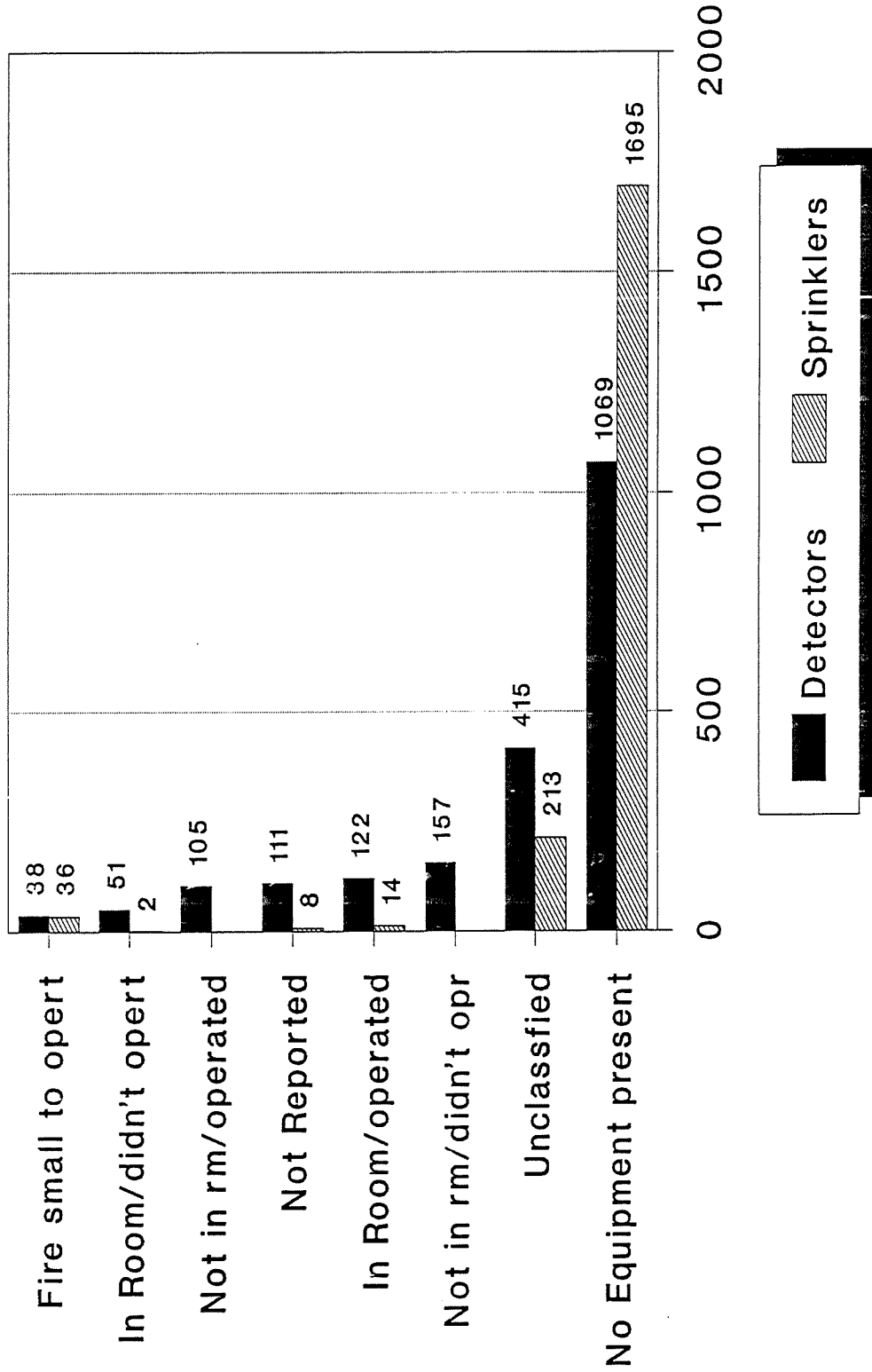
TYPE OF ACTION TAKEN BY FIREFIGHTERS UPON ARRIVAL  
AT THE EMERGENCY SCENE

Extinguishment	3,801
Investigation Only	1,003
Remove Hazard	103
Standby	00
Salvage	19
Unknown	14
Other	13
Rescue Only	9
	<hr/>
Total Calls	5,061

FIREFIGHTER STATISTICS PER FIRE

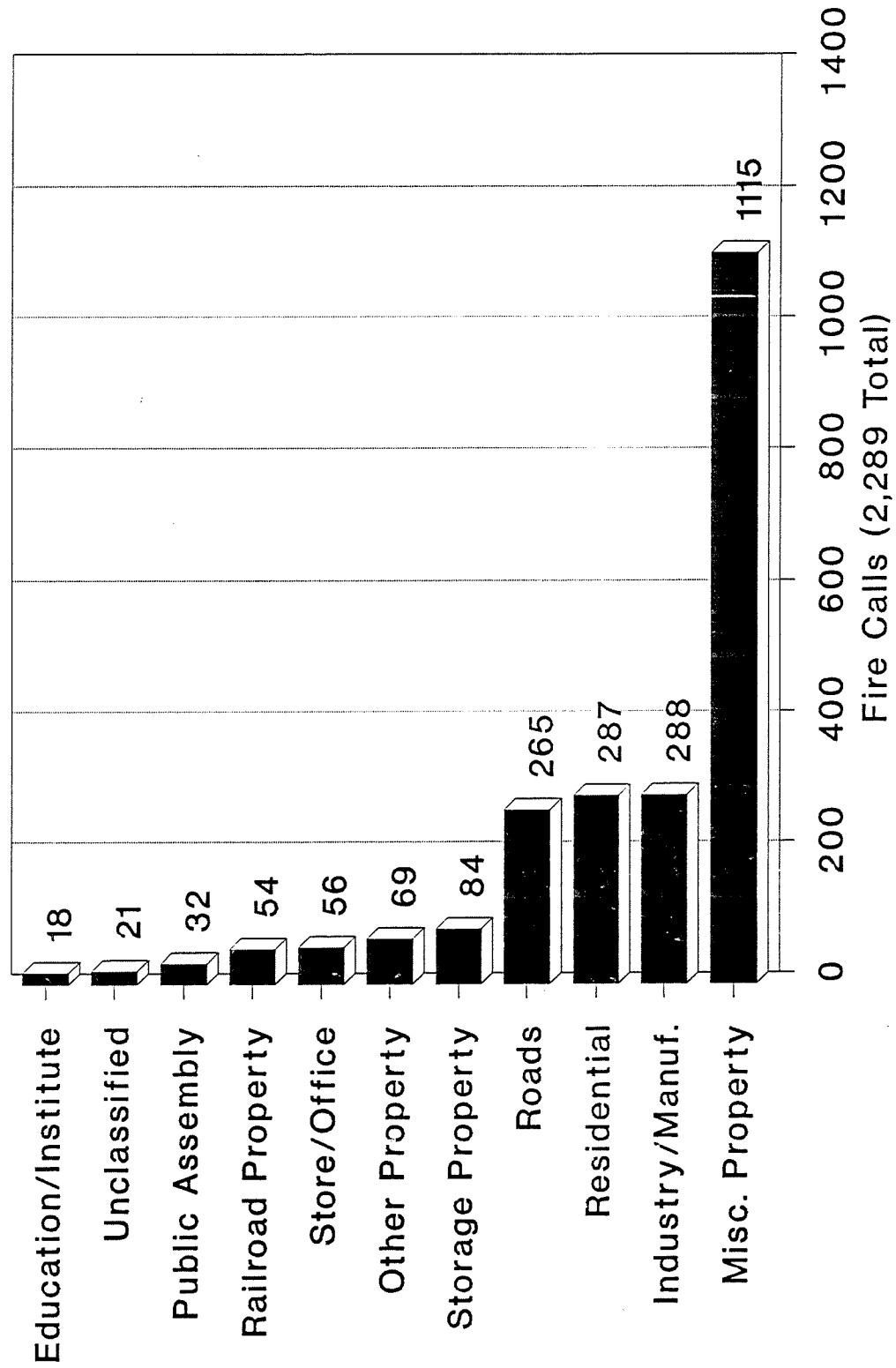
Total Man Hours	89,888
Average Man Hours Per Fire	7
Average Number of Personnel	7
Average Response Time	6 minutes

# DETECTOR/SPRINKLER PERFORMANCE



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# Outside Fire Calls



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## 1990 FIRE CASUALTIES

### FIREFIGHTER CASUALTIES

SEX:	Male	54
	Female	6

### PART OF BODY INJURED

Arm/Head	16
Trunk	14
Leg/Foot	10
Other Parts of Body	8
Internal	8
Multiple Parts	4

### CASE SEVERITY

Minor	36
Moderate	17
Severe	7

### PRIMARY APPARENT SYMPTOM

Other	21
Sprain/Strain	12
Asphyxiation	7
Pain Only	7
Burn: Thermal	6
Cut/Lacerations	4
Contusion/Bruise Minor	3

### PATIENT TAKEN TO

Hospital	33
Not Transported	18
Doctors Office/Clinic	4
Other	4
Residence	1

### FIREFIGHTER ACTIVITY

Extinguishing Fire	25
Suppression Support	18
Other Activity	8
Misc. Inc. Scene	7
Driving/Oper App.	1
Rescue	1

### SEVERITY OF INJURY

Injury	60
Death	0

### CIVILIAN FIRE CASUALTIES

SEX:	Male	73
	Female	34

### PART OF BODY INJURED

Multi-Parts	34
Internal	31
Hand	9
Head/Neck	9
Unknown	8
Arm	6
Body, Trunk, Back	5
Leg	3
Foot	2

### NATURE OF INJURY

Burns & Smoke	31
Smoke Only	30
Burns Only	28
Wound, Bleeding	7
Unknown	6
Pain	3
Strain/Sprain	1
Disloc/Fracture	1

### ACTIVITY AT INJURY

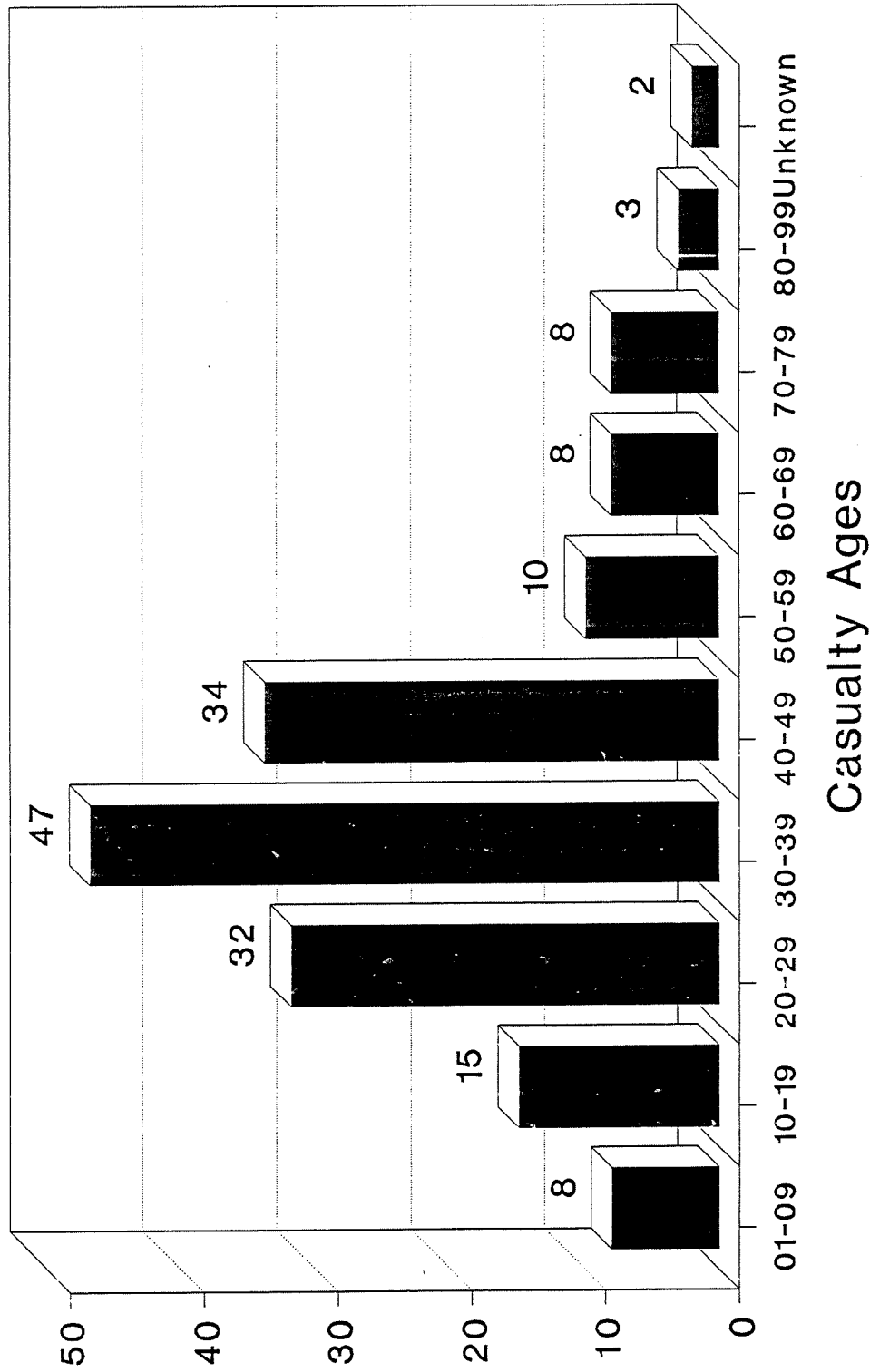
Fire Control	29
Other/Unknown	27
Escaping	18
Sleeping	9
Irrational Action	9
Rescue	7
Unable to Act	6
Clean/Salvage	2

### SEVERITY OF INJURY

Injury	94
Death	13

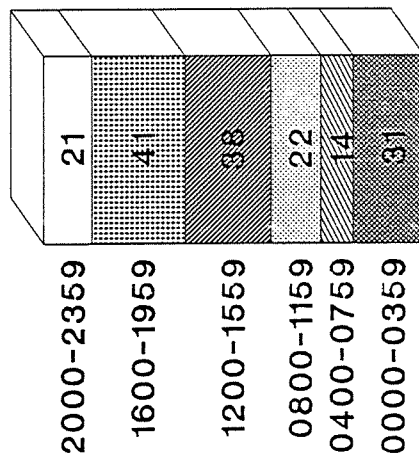
# 1990 CASUALTY REPORT

(Civilian)

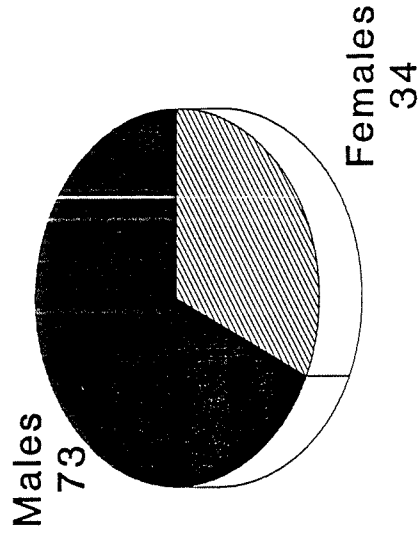


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# 1990 Casualties (Civilian)

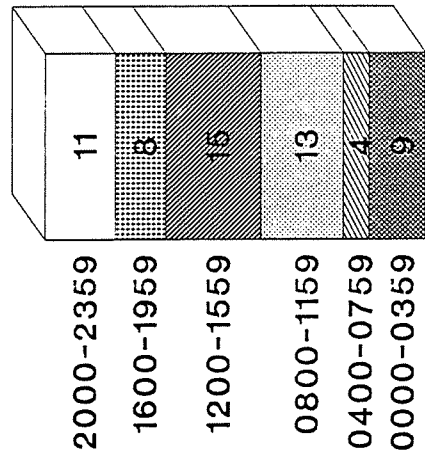


Time of Casualty

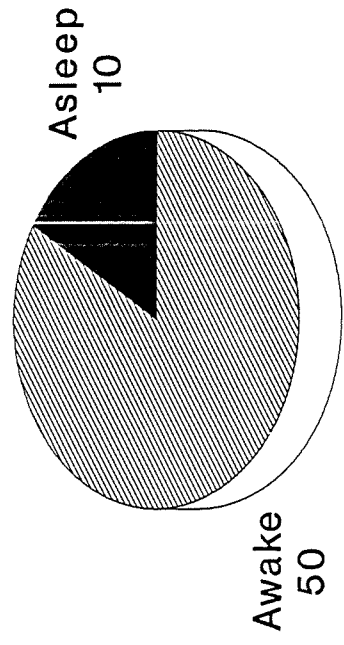


Sex

# 1990 Casualties (Firefighters)



Time of Casualty



Status Before Alarm

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## HOSTILE FIRES BY IGNITION FACTOR

Top Fifteen

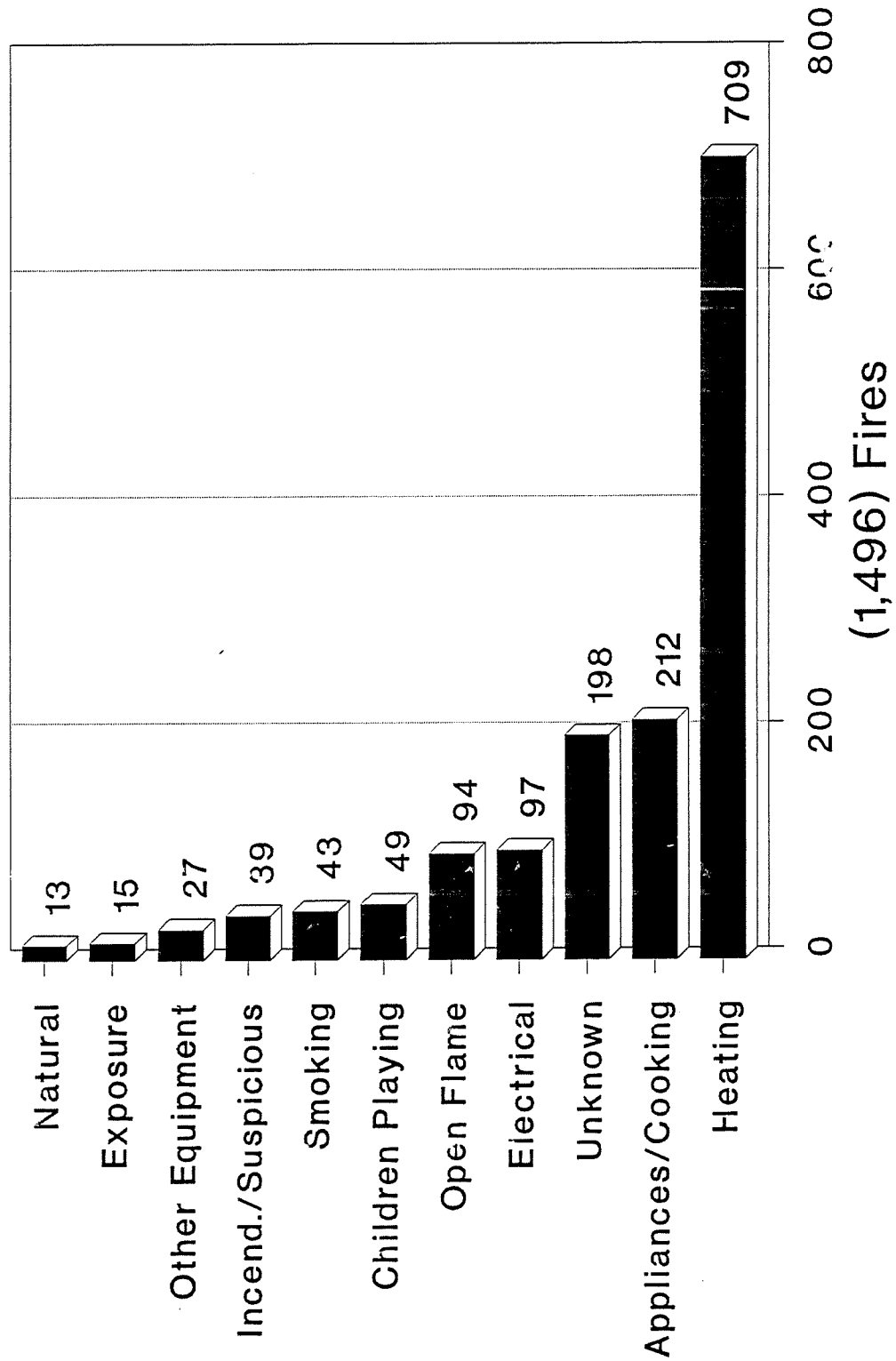
	<u>FIRES</u>	<u>INJURY</u>	<u>DEATH</u>
Lack of Maintenance/Worn Out	685	7	1
Inadequate Control of Open Fire	660	5	1
Children Play with or Child Playing	321	7	1
Abandoned Discarded Material	298	12	3
Short Circuit/Ground Fault	280	8	0
Suspicious	235	6	0
Part Failure/Leak/Break	178	5	0
Backfire	160	2	0
Unattended	127	7	0
Rekindled from a Previous Fire	124	0	0
Property too close to	122	2	0
Other Electrical	120	10	0
Combustible too close to Heat	97	10	0
Incendiary	76	1	0
Cutting/Welding too close	72	1	0

## HOSTILE FIRES BY FORM OF IGNITION HEAT

Top Ten

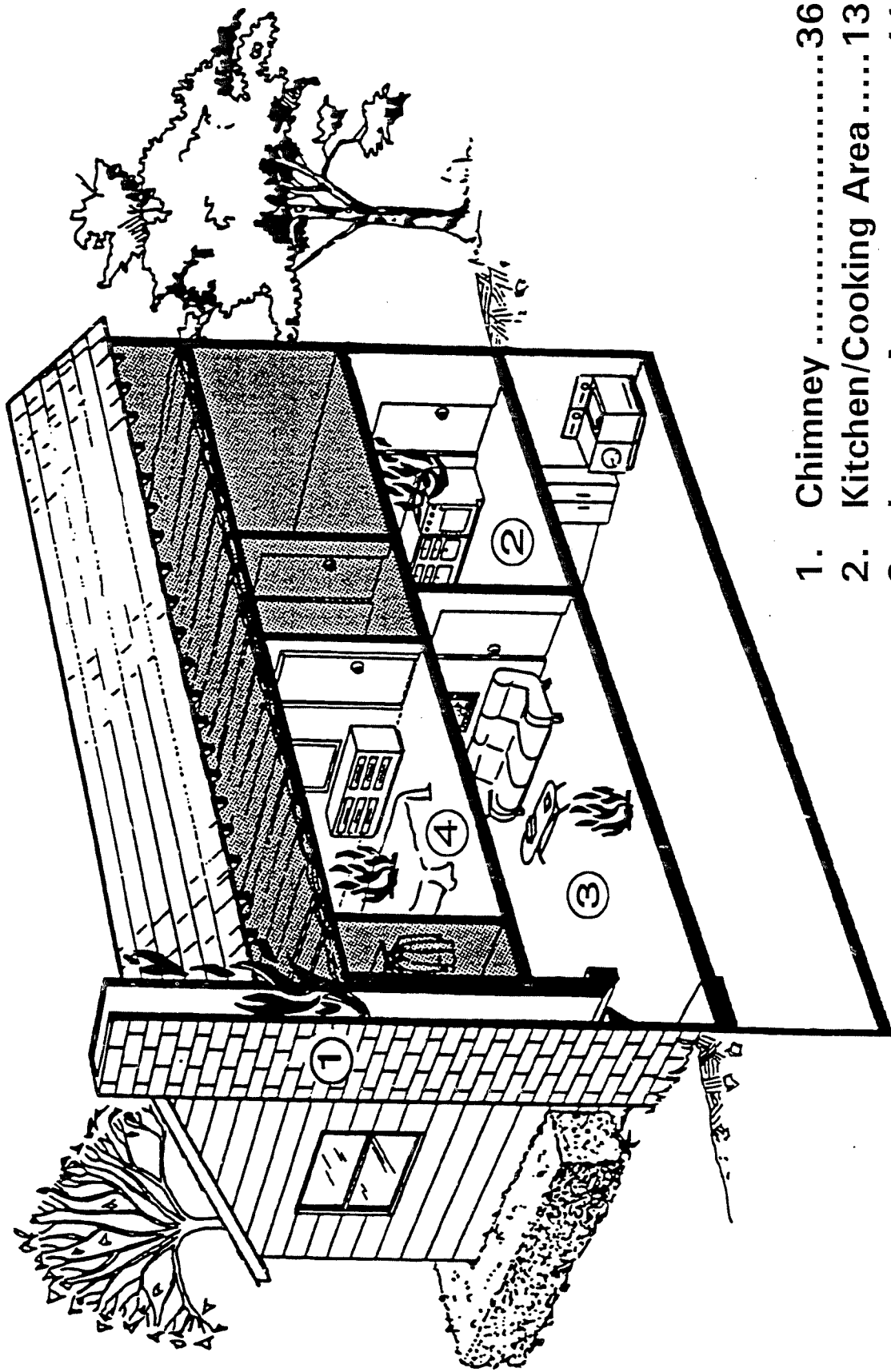
	<u>FIRES</u>	<u>INJURY</u>	<u>DEATH</u>
Heat from Solid Fueled Equipment	632	15	1
Open Fire	587	3	0
Match	437	12	1
Properly Oper Elec Equipment	192	15	1
Short Circuit Unspecified	177	9	1
Backfire from Engine	164	3	0
Hot Ember/Ash	159	11	0
Fireworks	157	0	0
Cigarette/Cigar	140	9	3
Fire Spread (Exposure)	104	3	0

# Residential Fires



IDAHO - 1990

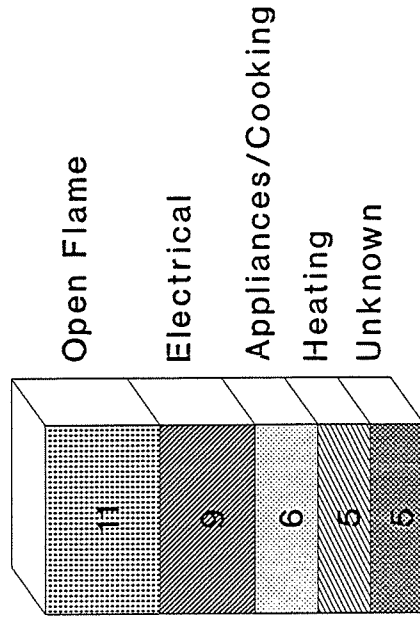
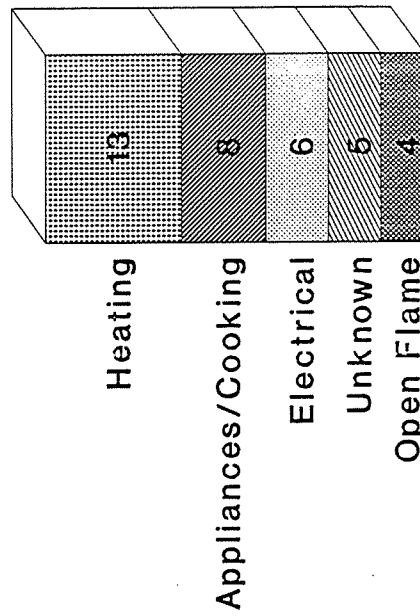
# Leading Areas of Fire Origin in Residential Property in 1990



- 1. Chimney ..... 36%
- 2. Kitchen/Cooking Area ..... 13%
- 3. Lounge Area ..... 11%
- 4. Sleep Area ..... 5%

Source: Fire in Idaho 1990

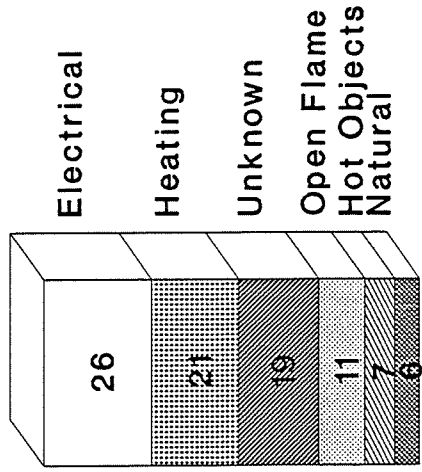
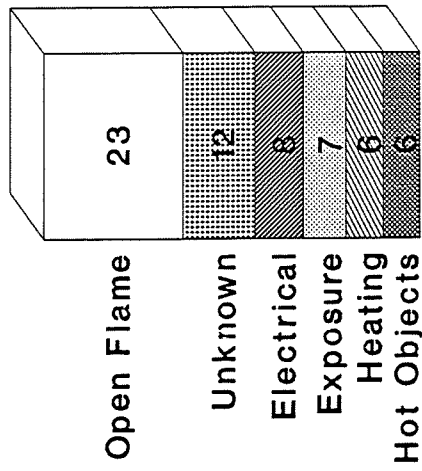
# Fire Causes by Property Use (Top 5 Causes)



Public Assembly

Basic Industry

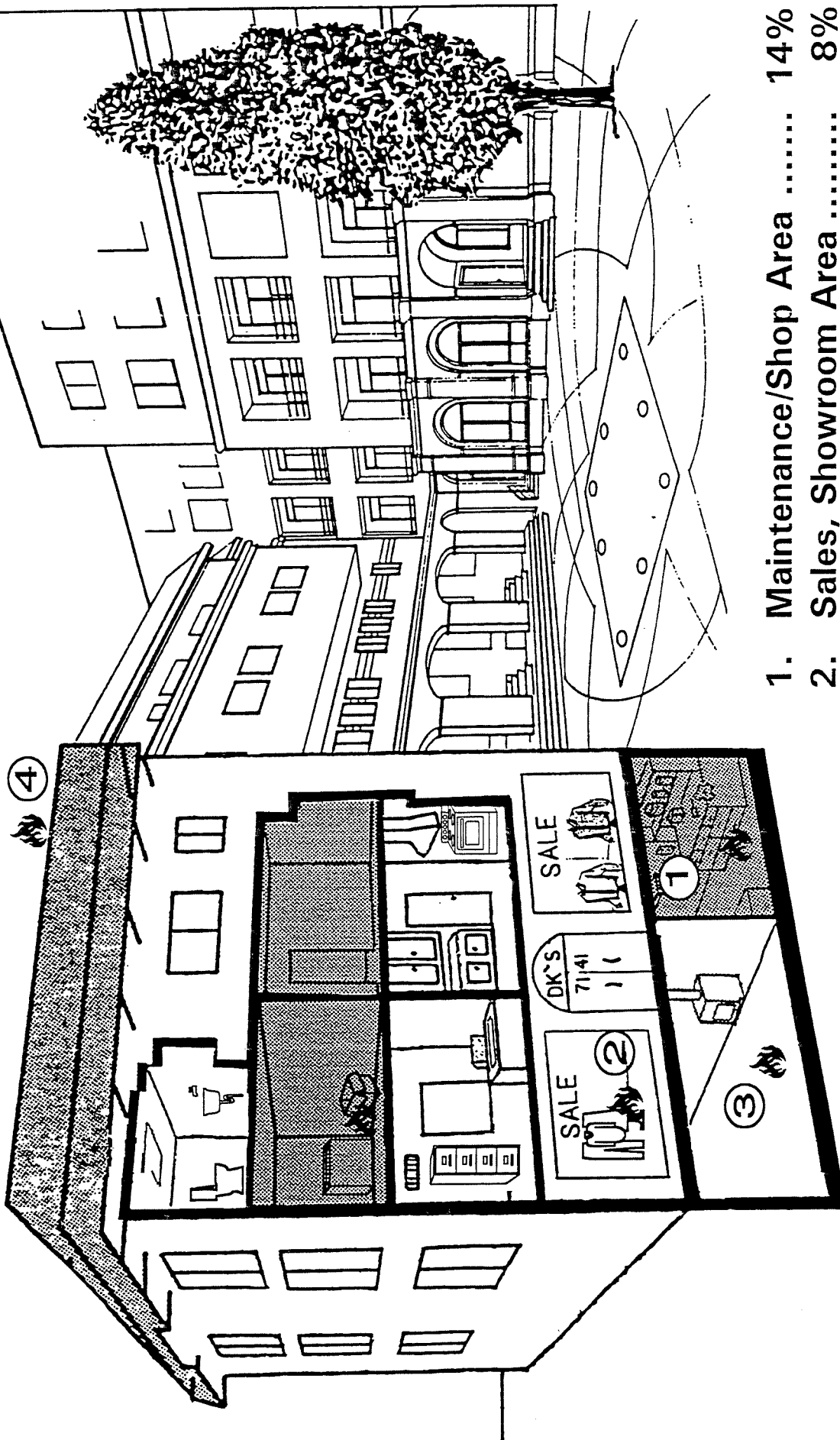
# Fire Causes by Property Use (Top 6 Causes)



Special Properties

Store/Office

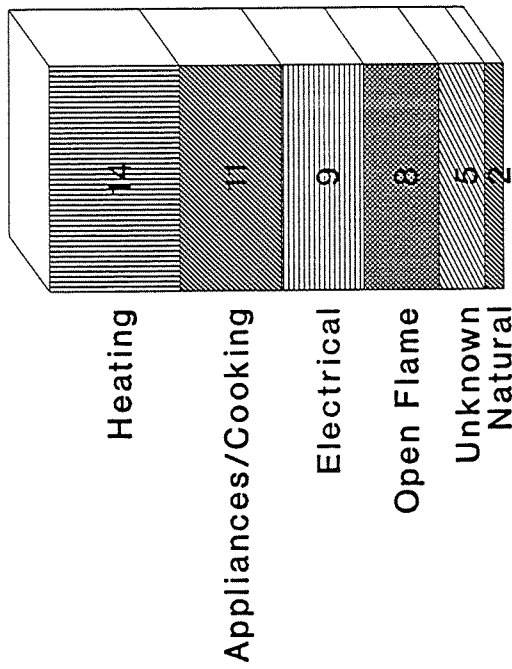
# Leading Areas of Fire Origin in Store/Office Property in 1990



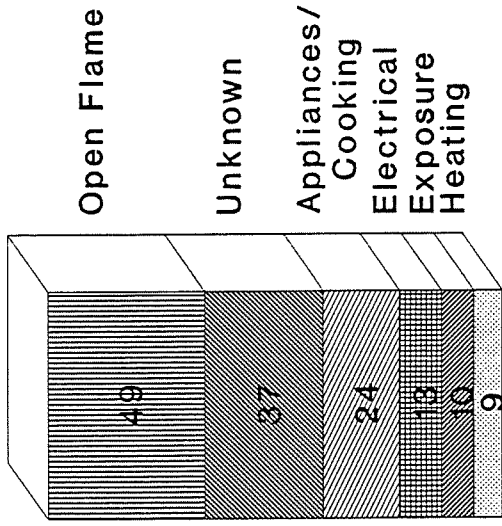
- 1. Maintenance/Shop Area ..... 14%
- 2. Sales, Showroom Area ..... 8%
- 3. Heating Equipment Room ..... 7%
- 4. Ceiling/Roof Assembly ..... 7%

Source: Fire in Idaho 1990

# Fire Causes by Property Use (Top 6 Causes)

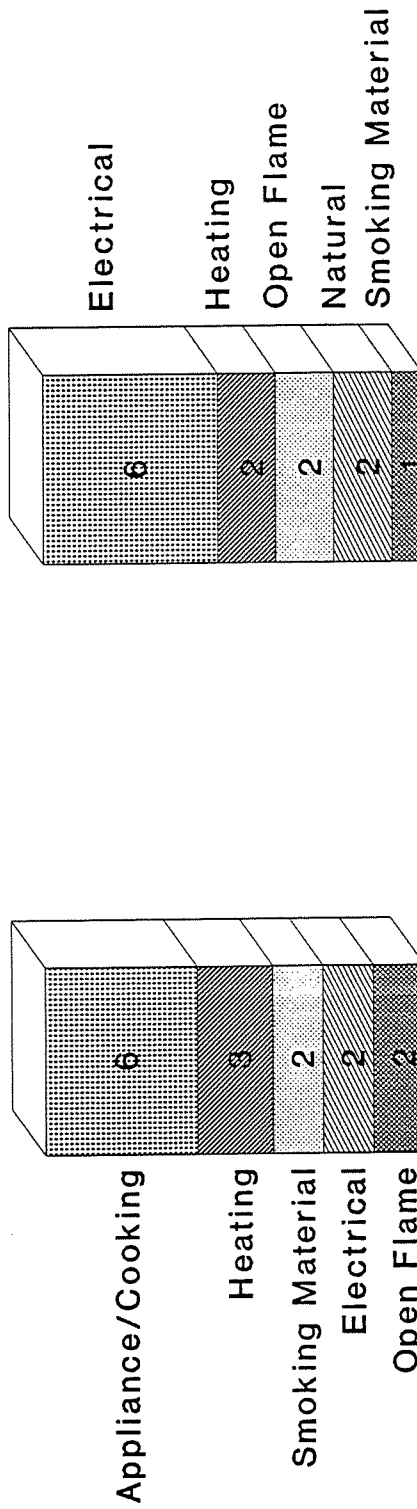


Manufacturing



Storage

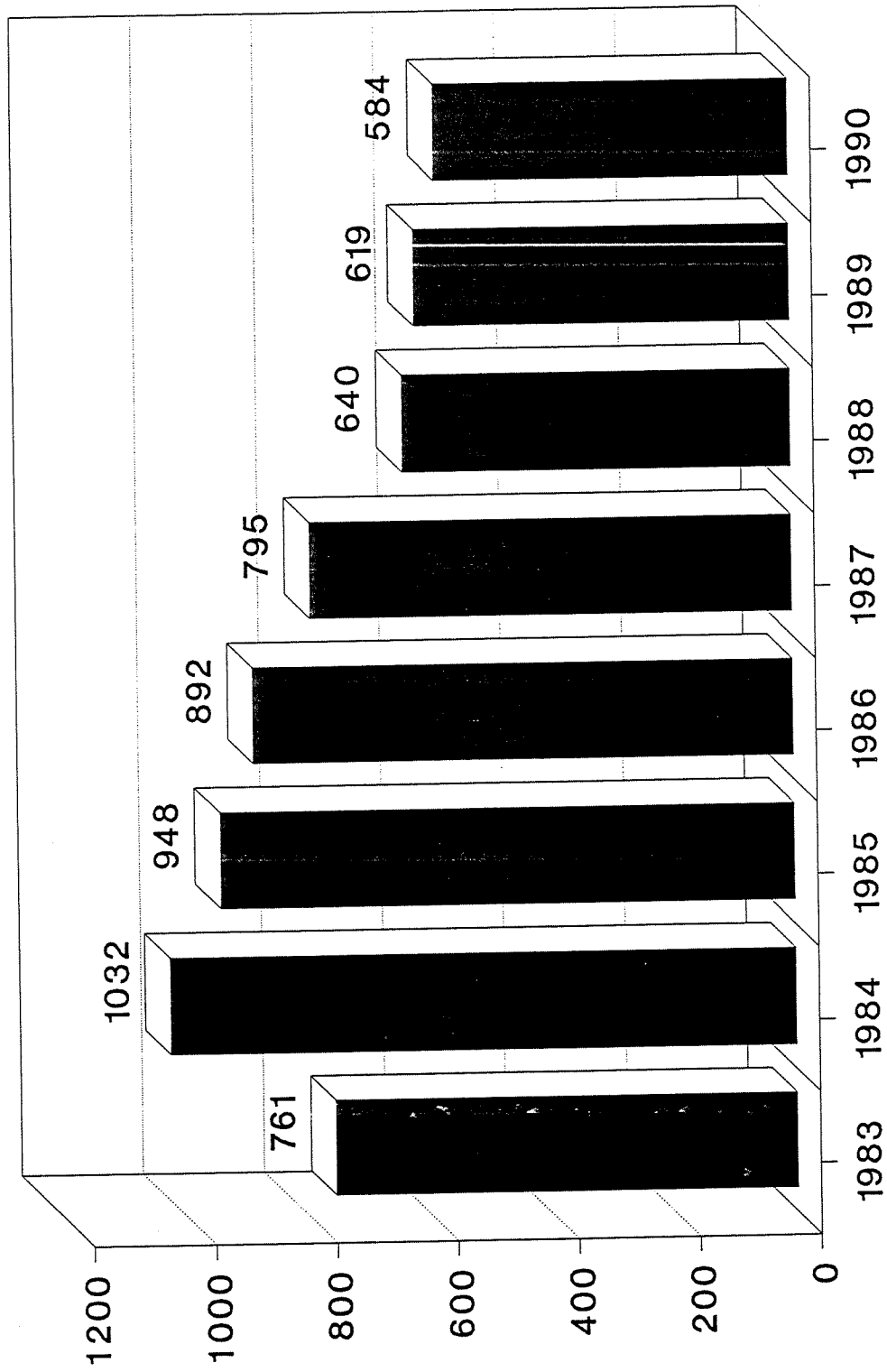
# Fire Causes by Property Type (Top 5 Causes)



Educational

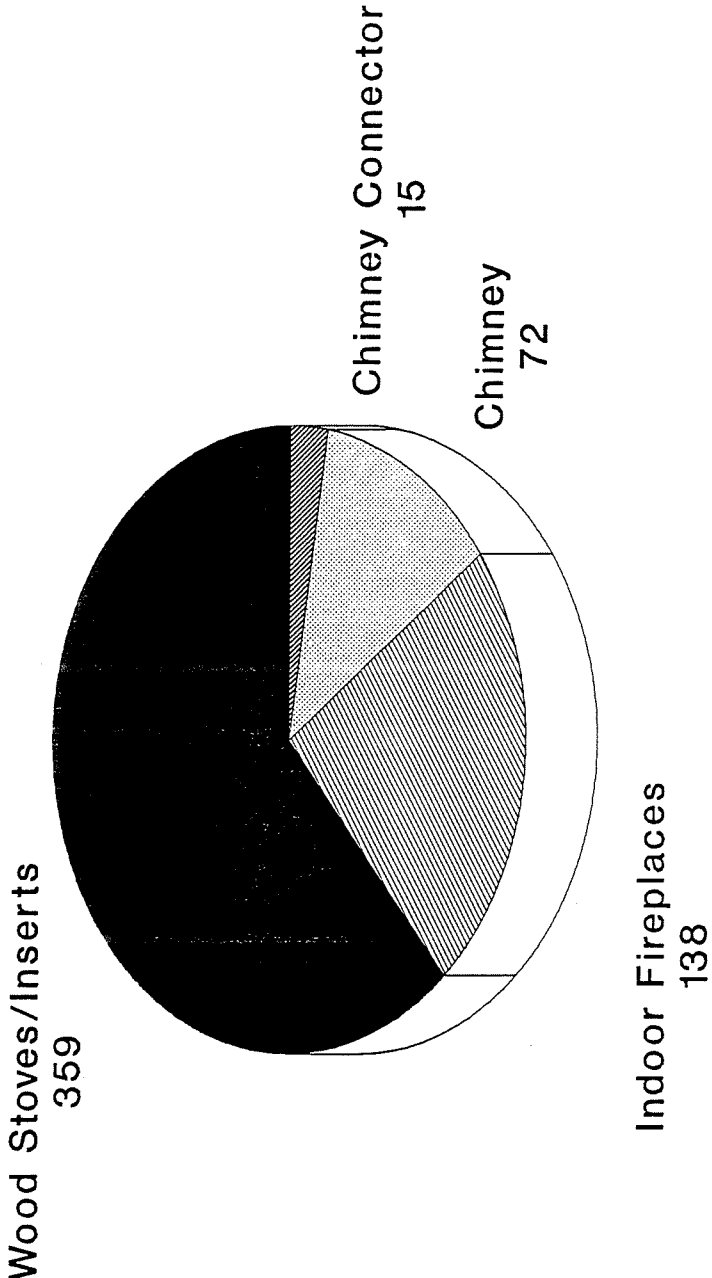
Institutional

# Solid Fuel Fires In Idaho (Residential Only)



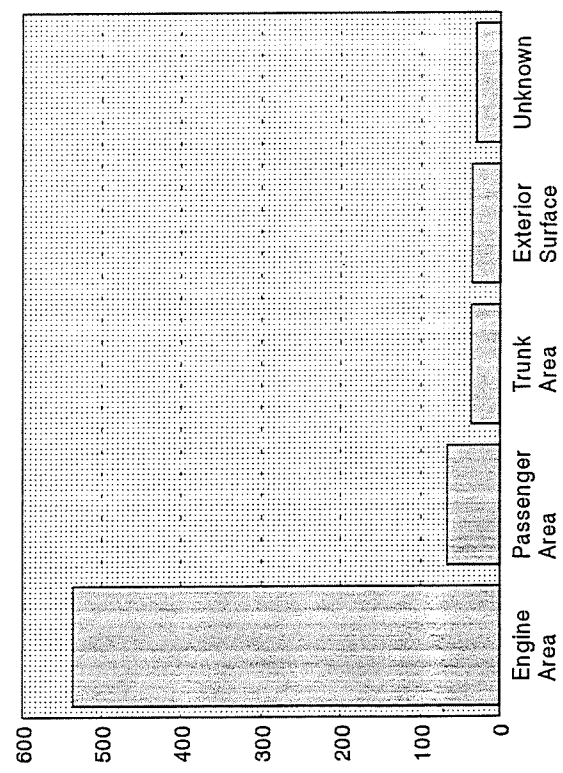
IFIRS - 1990

# Wood Stove Fires Equipment Involved

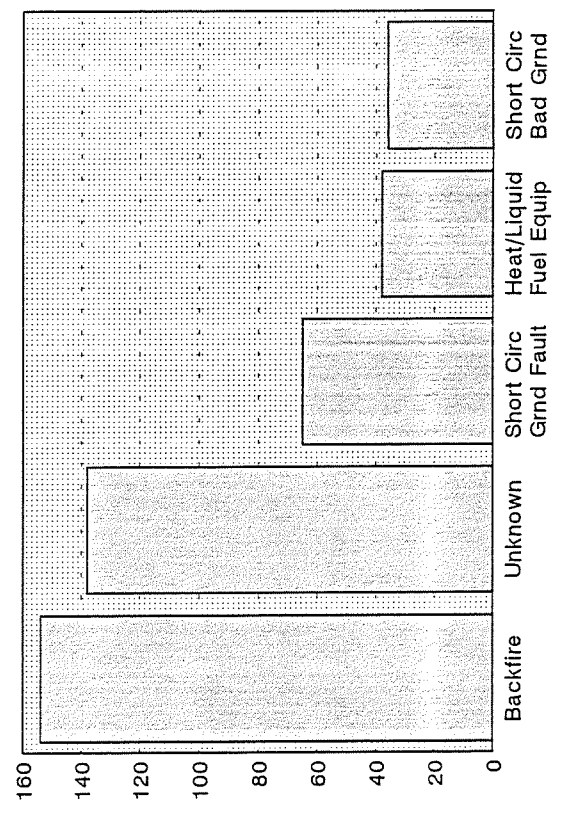


# Motor Vehicle Fires

Area of Origin



Form of Ignition



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## FIRE DEPARTMENTS REPORTING

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 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 Fire Prot.  
Dist.  
01342 Star Fire P.D.  
01344 Eagle Fire P.D.

### ADAMS 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

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.

### BOISE COUNTY

15301 Placerville F.D.  
15311 Garden Valley F.D.  
15313 Robie Creek F.D.

### BONNER COUNTY

17201 Sandpoint F.D.  
17333 Northside Fire P.D.  
17341 Sagle Fire Dist.

### BONNEVILLE COUNTY

19101-03 Idaho Falls 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 F.P.D.

### CLEARWATER COUNTY

35303 Orofino City F.D.

### CUSTER COUNTY

37302 Challis City F.D.

### ELMORE COUNTY

39303 Glenns Ferry F.D.  
39336 King Hill F.D.

FRANKLIN COUNTY

41301 Preston City F.D.

GOODING COUNTY

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

IDAHO COUNTY

49338 Salmon River F.P.D.

JEROME COUNTY

53201 Jerome City F.D.  
53333 Jerome Rural  
53353 First Segregation

KOOTENAI COUNTY

55201-02 Coeur d'Alene City F.D.  
55234 Kootenai Cty F.D. #1  
55340 Post Falls Fire P.D.  
55342 Hayden Lake F.D.  
53344 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

MINIDOKA COUNTY

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

NEZ PERCE

69201-04 Lewiston City 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 Tetonia F.D.

TWIN FALLS COUNTY

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

VALLEY COUNTY

85302 Cascade City F.D.  
85334 Cascade Rural

WASHINGTON COUNTY

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

**Fire in Idaho 1990**

**PART III - PARTICIPANTS**

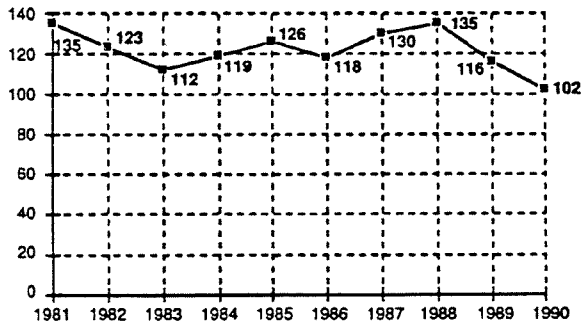
# NATIONAL FIRE FACTS

## 102 FIREFIGHTERS DIE IN 1990

### Second Consecutive Year of Significant Declines

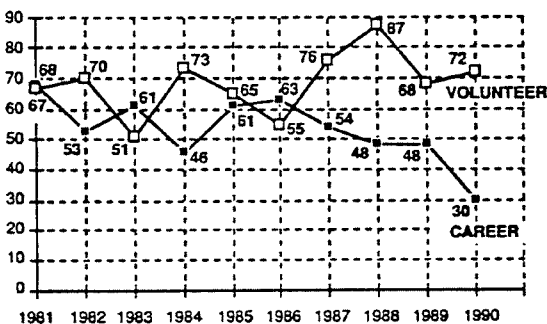
In 1990, 102 firefighters died of on-duty injuries or illness in the U.S. This was by far the lowest death toll since NFPA's annual studies began in 1977 (See Figure 1) and the second consecutive year of sharp declines in the number of deaths. It appears that strides made in improving firefighter health and safety are really taking effect.

**Figure 1**  
**On-Duty Fire Fighter Deaths 1981-1990**



The 30 career firefighter fatalities in 1990 represented the lowest number reported since this study began and an almost 40% decrease since 1989. (See Figure 2.) In contrast, volunteer firefighter deaths rose slightly from 68 to 72. That was still the third lowest total for volunteers over the past four years.

**Figure 2**  
**Career and Volunteer Fire Fighter Deaths**



**Heart Attack is the leading injury** - The most frequently reported fatal injury was heart attack, which accounted for 37 deaths (or 36%).

**Wildland Fires** - Less than half (43%) of all fatal injuries occurred during fire fighting (See Figure 3), but these fire ground deaths showed a very different pattern by property use than in most previous years. Fires in wildland areas were especially devastating in 1990, accounting for the largest proportion of fire ground deaths (19 deaths).

**Deaths during emergency response** - Almost a quarter of all firefighter deaths occurred during response to or while returning from an emergency call. Motor vehicle accidents and heart attacks were the most frequent causes of fatal injuries.

**Incendiary and Suspicious Fires** - Sixteen who were killed died as a result of incendiary or suspicious fires.

**Figure 3**  
**Fire Fighter Deaths by Type of Duty, 1990**

