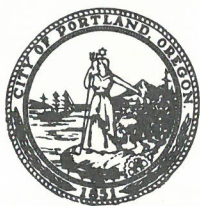


ANNUAL REPORT

Bureau Of Fire



**Portland, Oregon
1970-1971**

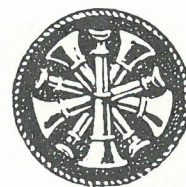


Connie McCready
COMMISSIONER

BUREAU OF FIRE

Department of Public Utilities

CITY OF PORTLAND, OREGON



James H. Riopelle
CHIEF
55 S. W. Ash St., 97204
Phone 228-6141
Ext. 481

The Honorable Connie McCready
Commissioner of Public Utilities
City Hall
Portland, Oregon

Dear Commissioner McCready:

It is my privilege and duty to report on the condition and activities of the Bureau of Fire for fiscal year 1970-71.

During the year I personally inspected all of the properties of the Bureau of Fire, including quarters, apparatus, and fire fighting equipment. I am pleased to report that the officers and men of the Bureau of Fire are using and caring for their equipment and quarters in a commendable manner.

Portland sustained a total fire loss of \$5,582,162.00 during the calendar year 1970. Approximately \$3.8 million was attributed to arson or probable arson. One arson fire accounted for \$1.5 million. Arson to conceal burglaries resulted in losses in excess of \$0.5 million. Arson attributed to civil unrest accounted for \$1.25 million.

We appreciate your strong effort to bolster our fire investigation section with the assignment of two police detectives. During the year they successfully recovered over \$50,000 of stolen property and apprehended an arsonist who set 17 fires to conceal his burglaries. It appears our increased effort in this area will slow the rising trend of incendiarism.

The total number of alarms increased from 8,740 to 9,271. While false alarms were down slightly, the false alarm trend appears to be up in the poorer neighborhoods of the city where the needs for the street alarm box and good fire protection are the greatest.

In my judgment, to improve our fire loss experience we should continue our strong fire investigation and arson prosecution posture, increase the frequency of fire inspections at all levels by all hands, strengthen our public fire prevention education effort, and discourage the annexation of large areas unless an appropriate increase in fire company strength is provided.

Morale and discipline are good. The officers and men of the Bureau of Fire are dedicated to their work. With sincere appreciation and much pride I acknowledge the loyalty, cooperation, and industry of all employees in the Bureau.

We are grateful to you and the City Council for assistance in resolving our problems. The splendid cooperation received from other City Agencies is also acknowledged.

Sincerely,

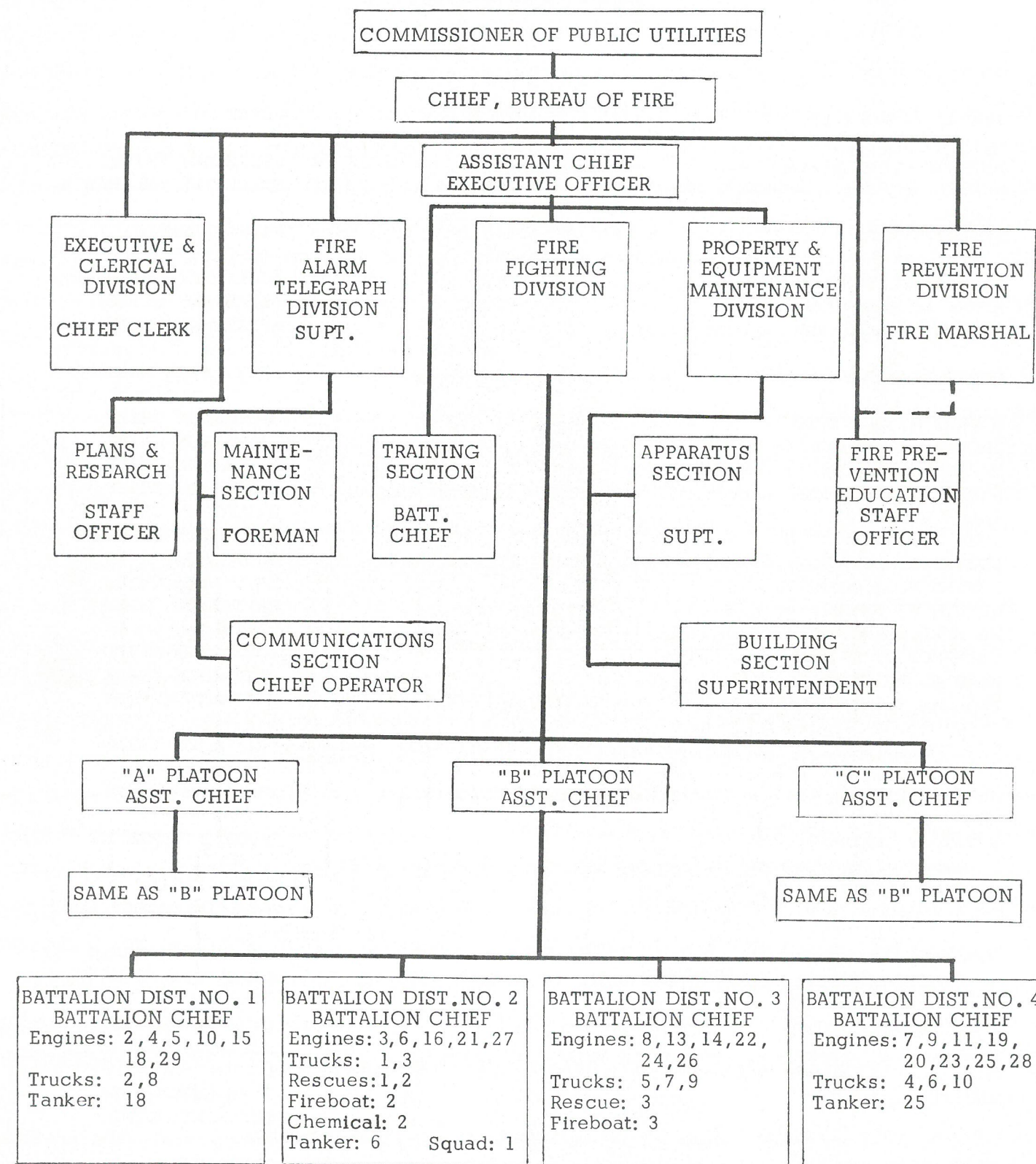

JAMES H. RIOPELLE
Chief, Bureau of Fire

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PORTLAND BUREAU OF FIRE

PORTLAND, OREGON



EXECUTIVE OFFICERS

JAMES H. RIOPELLE

PETER C. LEINEWEBER

JAMES R. KERR

STANLEY F. BOHLMAN

HENRY L. SURBAUGH

GORDON A. MORTERUD

HENRY L. BURNS

ALBERT M. OLIVERIO

JACK A. JONES

HARRY WHITE, JR.

WAYNE H. HARVEY

ALLEN W. McLANE

JOHN J. DOONEY

EDWARD S. LOHR

DONALD N. McCORMICK

MELVIN W. BRINK

WAYNE L. LAMBETH

CLARENCE O. FARBER

WARD R. WHITMORE

WILLIAM T. McROBERTS

(APPOINTED 6-17-71)

TIMOTHY T. DUNLOP

(CHIEF TRAINING OFFICER)

JOHN A. FARBER

(CHIEF FIRE INVESTIGATOR)

RONALD K. MELOTT

DALE V. LIESCH

MELVIN L. WILKENING

JOHN HETRICK

ALFRED A. ALWICK

BLANCHE NOBLE

CHIEF

ASSISTANT CHIEF,
EXECUTIVE OFFICER

FIRE MARSHAL

ASSISTANT CHIEF
ASSISTANT CHIEF
ASSISTANT CHIEF

ASST. FIRE MARSHAL

BATTALION CHIEF
BATTALION CHIEF
BATTALION CHIEF
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BATTALION CHIEF

BATTALION CHIEF

SR. FIRE INSPECTOR

STAFF LIEUTENANT

ALARM SYSTEM
SUPERINTENDENT

CHIEF FIRE ALARM
OPERATOR

FIRE APPARATUS
SUPERVISOR

FIRE BUILDINGS
SUPERINTENDENT

CHIEF CLERK

EXECUTIVE & CLERICAL DIVISION

The Executive & Clerical Division is responsible for the administration of the activities of the Bureau of Fire and for maintaining the necessary records thereof.

The civilian clerical personnel staffing the Chief's Office, Fire Marshal's Office, and Training Office include the Chief Clerk, 2 accounting assistants, 4 senior stenographer clerks, 1 stenographer clerk, 1 typist clerk and 1 clerk III.

The Chief Clerk is the Fire Bureau's controller, office manager and liaison officer with the City Auditor's Office.

This Division:

1. Prepares, coordinates, and acts as controller of the annual budget for the Bureau. The 1970-1971 Fire Bureau Budget derived \$8,397,948.00 from the General Fund and \$116,500.00 from the Fire Apparatus Fund.
2. Maintains a cost accounting system for all stations and other Fire Bureau buildings, automotive equipment, fire fighting apparatus, and fireboats.
3. Processes orders for the procurement of all supplies, materials, and equipment.
4. Processes Bi-Weekly Payrolls for 687 employees.
5. Prepares, publishes, distributes, and files all Bureau publications, such as, General Orders, Rules and Regulations, Standard and Special Operating Procedures, Training Manuals and Bulletins, and all Bureau letters and memoranda.
6. Provides stenographic and clerical help for all divisions and sections of the Fire Bureau.
7. Maintains all personnel and administrative records.
8. Controls issuance of Fire Bureau uniforms and related accouterments. Maintains records and a uniform storage room necessary to this program.
9. Maintains files of official fire reports for the Fire Marshal's Office.
10. Issues various certificates, permits and licenses related to Fire Code requirements for the Fire Marshal's Office.

FIRE BUREAU PERSONNEL

UNIFORMED PERSONNELFIRE FIGHTINGMonthly Salary

| | | | | |
|-----|-------------------------------------|------------|---|----------|
| 1 | Chief of the Bureau | \$1,950.00 | - | \$ |
| 1 | Assistant Chief - Executive Officer | 1,732.00 | - | |
| 3 | Assistant Chiefs | 1,449.00 | - | 1,633.00 |
| 12 | Battalion Chiefs | 1,250.00 | - | 1,407.00 |
| 1 | Staff Lieutenant | 986.00 | - | 1,111.00 |
| 1 | Training Officer - Captain | 1,111.00 | - | 1,250.00 |
| 28 | Captains | 1,078.00 | - | 1,213.00 |
| 5 | Training Officer - Lieutenants | 959.00 | - | 1,078.00 |
| 89 | Lieutenants | 931.00 | - | 1,047.00 |
| 6 | Fireboat Pilots | 931.00 | - | 1,047.00 |
| 6 | Fireboat Engineers | 714.00 | - | 931.00 |
| 453 | Fire Fighters | 695.00 | - | 903.00 |
| 606 | Total | | | |

SPECIAL ASSIGNMENT

| | | | | |
|---|------------------------------------------|------------|---|--------|
| 1 | Captain (Administrative Assistant) | \$1,326.00 | - | |
| 1 | Fire Fighter Specialist | 714.00 | - | 931.00 |
| 2 | Total | | | |

FIRE PREVENTION

| | | | | |
|----|----------------------------------------------|------------|---|------------|
| 1 | Fire Marshal (Assistant Chief) | \$1,539.00 | - | \$1,732.00 |
| 1 | Assistant Fire Marshal (Battalion Chief) | 1,250.00 | - | 1,407.00 |
| 1 | Chief Investigator (Senior Fire Inspector) . | 1,078.00 | - | 1,213.00 |
| 2 | Senior Fire Inspectors | 1,078.00 | - | 1,213.00 |
| 24 | Fire Inspectors | 931.00 | - | 1,047.00 |
| 1 | Fireman Specialist - Photographer | 714.00 | - | 931.00 |
| 30 | Total | | | |

FIRE ALARM TELEGRAPH

| | | | | |
|----|-------------------------------------|------------|---|------------|
| 1 | Chief Alarm Operator | \$1,078.00 | - | \$1,213.00 |
| 3 | Fire Alarm Operators | 931.00 | - | 1,047.00 |
| 7 | Lieutenants | 931.00 | - | 1,047.00 |
| 1 | Fireman Specialist - Communications | 735.00 | - | 959.00 |
| 12 | Total | | | |

TRAINING

| | | | | |
|---|---------------------------------------------|------------|---|------------|
| 1 | Chief Training Officer (Battalion Chief) .. | \$1,250.00 | - | \$1,407.00 |
| 1 | Assistant Training Officer (Captain) | 1,078.00 | - | 1,213.00 |
| 1 | Lieutenant | 931.00 | - | 1,047.00 |
| 3 | Total | | | |

AUTOMOTIVE MAINTENANCE

| | | | | |
|---|--------------------------------------|------------|---|------------|
| 1 | Fire Apparatus Supervisor | \$1,111.00 | - | \$1,250.00 |
| 3 | Fire Fighter Specialists (Mechanics) | 714.00 | - | 931.00 |
| 4 | Total | | | |

657 Total Uniformed Personnel

CIVILIAN PERSONNELMonthly Salary.TRAINING

| | | | | |
|---|---------------------------------|-----------|---|-----------|
| 1 | Fire Apparatus Instructor | \$ 735.00 | - | \$ 867.00 |
|---|---------------------------------|-----------|---|-----------|

FIRE ALARM TELEGRAPH

| | | | | |
|---|-----------------------------------|------------|---|------------|
| 1 | Alarm System Superintendent | \$1,111.00 | - | \$1,250.00 |
| 1 | Line Foreman | 832.00 | - | 936.00 |
| 5 | Linemen | 808.00 | - | 910.00 |
| 2 | Electricians | 808.00 | - | 910.00 |
| 9 | Total | | | |

BUILDING MAINTENANCE

| | | | | |
|----|-------------------------------------|------------|---|------------|
| 1 | Fire Buildings Superintendent | \$1,078.00 | - | \$1,177.00 |
| 1 | Lead Plumber | 832.00 | - | 936.00 |
| 1 | Plumber | 808.00 | - | 910.00 |
| 3 | Carpenters | 754.00 | - | 848.00 |
| 2 | Painters | 754.00 | - | 848.00 |
| 1 | Utility Worker | 628.00 | - | 714.00 |
| 1 | Custodial Worker | 548.00 | - | 589.00 |
| 10 | Total | | | |

AUTOMOTIVE MAINTENANCE

| | | | | |
|---|----------------------|-----------|---|-----------|
| 1 | Utility Worker | \$ 628.00 | - | \$ 714.00 |
|---|----------------------|-----------|---|-----------|

CLERICAL

| | | | | |
|----|----------------------------|-----------|---|------------|
| 1 | Chief Clerk | \$ 931.00 | - | \$1,111.00 |
| 2 | Accounting Assistants | 534.00 | - | 654.00 |
| 1 | Clerk II | 465.00 | - | 570.00 |
| 4 | Senior Stenographer Clerks | 513.00 | - | 633.00 |
| 1 | Stenographer Clerk | 432.00 | - | 534.00 |
| 1 | Typist Clerk | 416.00 | - | 513.00 |
| 10 | Total | | | |

31 Total Civilian Personnel

SUMMARY

| | | |
|-------------------|-----|-----|
| Personnel 6/30/70 | 690 | 690 |
|-------------------|-----|-----|

Less - Personnel Reduction 7/1/70

| | | |
|---------------------------|---|---|
| Asst. Supt. of Fire Alarm | 1 | |
| Lineman | 1 | 2 |

| | | |
|-------------------------------|--|-----|
| Total Personnel June 30, 1971 | | 688 |
|-------------------------------|--|-----|

PERSONNEL CHANGES

RETIREMENTS

George Stopper
Pierre White
Everitt Bilyeu
Emmett Delaney
John Duff
Lane S. Monson
Albert Kittrell
James Timmins

July 1, 1970
July 6, 1970
July 17, 1970
July 24, 1970
August 3, 1970
November 18, 1970
December 31, 1970
April 30, 1971

DISABILITIES

Chas. J. Neher
William Edgar
Paul Fielding
Raymond G. Seibert
Donald E. Turner
Harry L. Gray
Harold D. Evans
John E. Blair
Robert Battell
Ralph Sargent

Injury in Line of Duty
Occupational
Non-Service
Occupational
Non-Service
Non-Service
Injury in Line of Duty
Occupational
Non-Service
Occupational

July 16, 1970 NOON
July 25, 1970
August 13, 1970
August 27, 1970
January 6, 1971
January 25, 1971
March 29, 1971
April 6, 1971
April 9, 1971
April 18, 1971

UNDETERMINED DISABILITIES NOT REPORTED ON PREVIOUS REPORTS

Curtis D. Hansen
Willard Fiedler
James Danaher
Donald Jaques
John Guthrie
Herbert Faber Jr.

Injury in Line of Duty
Injury in Line of Duty
Occupational
Occupational
Injury in Line of Duty
Occupational

September 11, 1969
September 24, 1969
October 3, 1969
October 25, 1969
October 30, 1969 NOON
March 29, 1970

TRANSFERS, RESIGNATIONS & DISMISSALS

Carl Gudmundson
Clemens E. Roskoski
Calvert O. Harris

Transferred
Resigned
Dismissed

July 1, 1970
September 20, 1970
December 18, 1970

STATEMENT SHOWING CONDITION OF APPROPRIATIONS AS OF JUNE 30, 1971

| | Approp. Inc. Trans. | Expend. To Date | Pur.Orders Outstanding | Total Encumbrance | Unencumbered Balance |
|-------------------------------------|------------------------|--------------------|---------------------------|----------------------|-------------------------|
| <u>EXECUTIVE & CLERICAL</u> | | | | | |
| Personal Services | \$ 99,497.00 | \$ 98,832.16 | \$ ----- | \$ 98,832.16 | \$ 664.84 |
| Operation & Maintenance | 4,601.42 | 4,601.42 | ----- | 4,601.42 | .00 |
| Equipment | 50.00 | 32.71 | ----- | 32.71 | 17.29 |
| Total | \$ 104,148.42 | \$ 103,466.29 | \$ ----- | \$ 103,466.29 | \$ 682.13 |
| <u>FIRE ALARM TELEGRAPH</u> | | | | | |
| Personal Services | \$ 297,254.00 | \$ 283,657.22 | \$ ----- | \$ 283,657.22 | \$ 13,596.78 |
| Operation & Maintenance | 114,470.00 | 98,151.77 | 704.16 | 98,855.93 | 15,614.07 |
| Equipment | 2,674.77 | 2,624.77 | ----- | 2,624.77 | 50.00 |
| Total | \$ 414,398.77 | \$ 384,433.76 | \$ 704.16 | \$ 385,137.92 | \$ 29,260.85 |
| <u>FIRE FIGHTING</u> | | | | | |
| Personal Services | \$ 7,955,292.00 | \$ 7,856,275.22 | \$ ----- | \$ 7,856,275.22 | \$ 99,016.78 |
| Operation & Maintenance | 209,298.00 | 173,276.93 | 13,929.20 | 187,206.13 | 22,091.87 |
| Equipment | 25,650.87 | 25,403.32 | ----- | 25,403.32 | 247.55 |
| Improvements | 22,989.43 | 386.75 | ----- | 386.75 | 22,602.68 |
| Total | \$ 8,213,230.30 | \$ 8,055,342.22 | \$ 13,929.20 | \$ 8,069,271.42 | \$ 143,958.88 |
| <u>FIRE PREVENTION</u> | | | | | |
| Personal Services | \$ 405,586.00 | \$ 404,565.11 | \$ ----- | \$ 404,565.11 | \$ 1,020.89 |
| Operation & Maintenance | 10,562.15 | 10,412.15 | 150.00 | 10,562.15 | .00 |
| Equipment | 100.00 | 99.95 | ----- | 99.95 | .05 |
| Total | \$ 416,248.15 | \$ 415,077.21 | \$ 150.00 | \$ 415,227.21 | \$ 1,020.94 |
| <u>PROPERTY & EQUIP. MAINT.</u> | | | | | |
| Personal Services | \$ 130,050.00 | \$ 128,121.59 | \$ ----- | \$ 128,121.59 | \$ 1,928.41 |
| Operation & Maintenance | 54,090.00 | 47,385.03 | 4,480.56 | 51,865.59 | 2,224.41 |
| Equipment | 250.00 | 153.11 | ----- | 153.11 | 96.89 |
| Total | \$ 184,390.00 | \$ 175,659.73 | \$ 4,480.56 | \$ 180,140.29 | \$ 4,249.71 |
| General Fund Fire Bureau | \$ 9,332,415.64 | \$ 9,133,979.21 | \$ 19,263.92 | \$ 9,153,243.13 | \$ 179,172.51 |
| Fire App. Fund Fire Bureau | 192,500.00 | 50,168.27 | 10,262.33 | 60,430.60 | 132,069.40 |
| TOTAL FIRE BUREAU | \$ 9,524,915.64 | \$ 9,184,147.48 | \$ 29,526.25 | \$ 9,213,673.73 | \$ 311,241.91 |

FIRE ALARM TELEGRAPH

DIVISION

The Fire Alarm Telegraph Division, under the supervision of the Alarm System Superintendent, is responsible for the installation, operation, and maintenance of the Fire Alarm and Communications systems. The Division consists of two sections, the Communications and Dispatching Section and the Maintenance and Engineering Section.

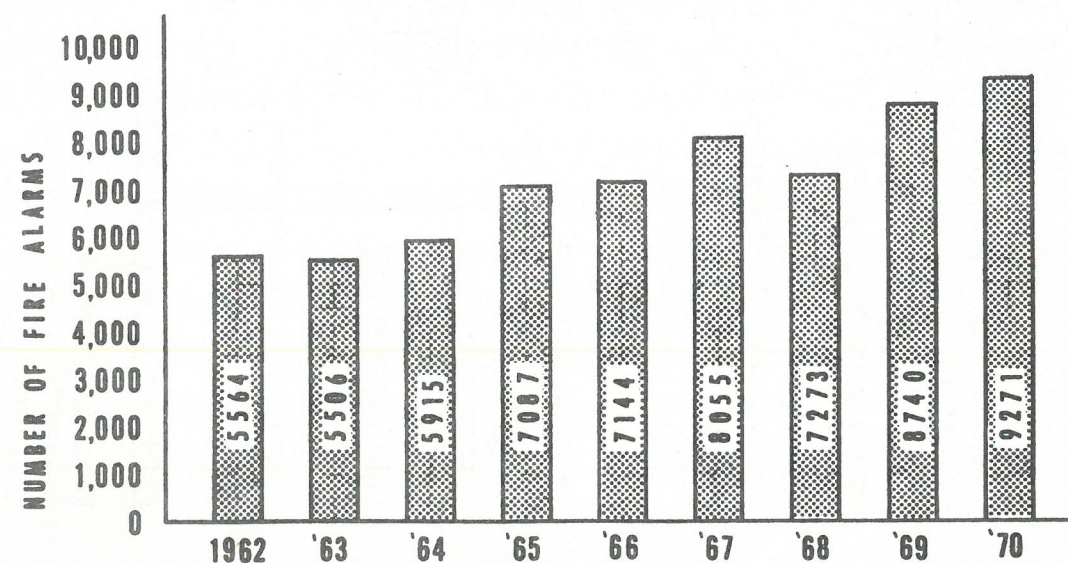
COMMUNICATIONS AND DISPATCHING SECTION

Under the direction of the Chief Fire Alarm Operator (Captain equivalent), a staff of 11 Fire Alarm Operators (Lieutenant equivalent) performs around-the-clock communications and fire emergency dispatching service. This service includes the processing of all routine Fire Bureau telephone and radio communications traffic, the receipt of all fire and emergency calls, the dispatching of appropriate equipment and personnel to cope with the many and varied emergencies, the maintenance of a log of all fire and emergency calls, the compilation of related alarm records, and the performance of daily readiness tests on all emergency communication equipment.

A total of 9271 emergency calls were processed during the 1970 calendar year, as listed below. This shows a slight increase over the preceding year. However, false alarms showed a slight decrease.

| Alarms Received | | How Received | |
|-----------------|-------|--------------|-------|
| Type | Total | Type | Total |
| Fire | 6274 | Box | 1107 |
| False | 1022* | Telephone | 7663 |
| First Aid | 1151 | Still | 370 |
| Public Service | 541 | A.D.T. | 91 |
| Outside City | 283 | Radio | 40 |
| Total | 9271 | Total | 9271 |

*Includes both telephone and street box alarms



MAINTENANCE AND ENGINEERING SECTION

The Maintenance and Engineering Section, under the direct supervision of the Alarm System Superintendent, includes 1 foreman, 6 linemen, and 2 electricians. This section is responsible for the technical planning, development, and installation of new fire alarm systems and devices as well as the maintenance and repair of existing facilities. Their duties include the planning and construction of new lines into annexed areas, new alarm box installations, and necessary routine maintenance including painting, tree trimming, and the relocation and repair of the existing fire alarm cables and related circuitry equipment. The maintenance of the communications and electrical systems in all of the Bureau of Fire buildings is another responsibility of this section. Other routine duties consist of the keeping of permanent engineering records of changes and additions to the alarm equipment of the Fire Alarm Telegraph Headquarters and 4 substations.

There are 1360 fire alarm boxes located throughout the city. These are connected to the Fire Alarm Telegraph Headquarters by 64 circuits, 36 of which are routed through substations located in Engines 3, 10, 25, and 26. Eight alarm circuits and eight speaker circuits connect the Fire Alarm Telegraph Headquarters with fire stations and public utilities' offices.

The following is a partial list of work performed by line crews:

| | |
|----------------------------------------------|-------------|
| Line wire removed | 42,800 feet |
| New line wire installed | 24,820 feet |
| Underground conduit installed | 925 feet |
| Cable installed | 32,000 feet |
| Cross arms installed, transferred, etc. | 338 |
| New alarm boxes installed | 18 |
| Alarm box installations repaired and rebuilt | 133 |
| Box wires changed | 1,050 boxes |

The remaining 32 old style fire alarm box pedestals were replaced with the new pedestal type, thereby finishing up our pedestal replacement program. Three hundred sixty-five fire alarm boxes were brought into the Fire Alarm Warehouse, refinished with acrylic enamel and reinstalled. This, incidentally, is the first phase of a 4-year project to repaint all of our fire alarm boxes.

One physical plant improvement made this year included the replacement of 1,000 feet of 30 single conductor wire with a cable on the east end of the Hawthorne Bridge. This will greatly improve alarm circuit reliability.

With the cooperation of the Portland General Electric Company, we were able to put most of our overhead lines in the Swan Island area underground. On Lagoon Avenue, 6,200 feet of underground cable was installed and 7 fire alarm boxes were taken off poles and set on pedestals. On Basin Avenue, 2,600 feet of underground cable was installed and 2 fire alarm boxes were set on pedestals.

This section also installed 7 new fire alarm boxes and 6,000 feet of Figure 8 aerial cable in Fire Protection District #26. This is the first fire protection district outside the city to purchase street fire alarm boxes and to contract with the City for their installation and maintenance.

The section furnished 754 man hours of linemen labor to install underground cable for the Bureau of Traffic Engineering. This work was for the installation of 8,210 feet of 50 and 75 pair traffic signal cable to be used in the computerization of traffic signal control in the core area.

FIRE FIGHTING DIVISION

The Fire Fighting Division has 27 fire stations housing a total of 43 fire companies, including 26 engine companies, 10 truck companies, 3 rescue companies, 2 fireboat companies, 1 squad company, and 1 chemical company. This Division's strength of 606 sworn personnel includes 17 Chief Officers, 124 Company Grade Officers (Captains and Lieutenants), 453 Fire Fighters, 6 Fireboat Pilots, and 6 Fireboat Engineers.

The Fire Fighting Division is responsible for the extinguishing of fires, the saving of life and property from fire, and the performance of various miscellaneous public services of an emergency nature. The Division is organized into three shifts each working 24 hours on duty and 48 hours off duty the year around, resulting in a 56 hour average work week. The City is divided into 4 battalion districts. Each shift of the Fire Fighting Division is supervised by an Assistant Chief. A Battalion Chief supervises each shift of each battalion district. Fire companies are supervised by Fire Captains and/or Fire Lieutenants on each shift.

Every reasonable and practical effort is made to control fire losses through fire prevention measures. However, total control through fire prevention is an ideal not likely to be fully achieved. New developments in industrial and high rise structures continue to increase the magnitude of the fire problem. The high incidence of arson has increased the burden on the Fire Fighting Division. These trends increase the need for a well organized and highly trained force of fire fighters ready to respond 24 hours a day, 365 days a year.

During this past year, Portland firemen were called into action an average of twenty-five times each day to assist someone in trouble. Their commitment to save life and property from fire projects them into many unusual and dangerous situations. They stretched about 207 miles of hose and raised about 8 miles of ladders while answering 9,271 emergency calls. The services performed are recorded on the following pages of this annual report.

In addition to the emergency services performed by members of the Fire Fighting Division and enumerated herein, a great many hours of non-emergency duty were spent in tasks such as: fire prevention inspections of homes and businesses; pre-fire inspections and planning; hydrant inspections; street and area familiarization; developing response routes; learning the operations and limitations of fire protection systems, apparatus, equipment, and station maintenance; first aid and rescue training; drills in individual and company skills; public speaking; and civic projects such as the Toy and Joymaker program.

The Portland Fire Fighter is engaged in a very hazardous occupation. His working hours are long and demanding. Trials of courage, skill, and endurance are required to be performed on a moments notice. Nevertheless, he remains devoted to the public service and ready to respond to any call for help without hesitation.

EMERGENCY RESPONSE OF FIRE COMPANIES

| Co. | No. | Phantom Boxes | Boxes | Telephone | Stills | Total Alarms |
|-------|-----|------------------|-------|-----------|--------|-----------------|
| Eng. | 2 | 45 | 7 | 29 | 3 | 84 |
| | 3 | 248 | 67 | 305 | 5 | 625 |
| | 4 | 199 | 72 | 171 | 7 | 449 |
| | 5 | 89 | 44 | 143 | 3 | 279 |
| | 6 | 100 | 23 | 31 | 3 | 157 |
| | 7 | 259 | 76 | 186 | 3 | 524 |
| | 8 | 247 | 76 | 286 | 8 | 617 |
| | 9 | 236 | 92 | 287 | 14 | 629 |
| | 10 | 110 | 31 | 44 | 6 | 191 |
| | 11 | 82 | 42 | 247 | 10 | 381 |
| | 13 | 348 | 149 | 350 | 12 | 859 |
| | 14 | 331 | 197 | 380 | 26 | 934 |
| | 15 | 86 | 16 | 95 | 9 | 206 |
| | 16 | 56 | 18 | 52 | 10 | 136 |
| | 18 | 64 | 7 | 245 | 12 | 328 |
| | 19 | 144 | 55 | 302 | 7 | 508 |
| | 20 | 85 | 37 | 290 | 9 | 421 |
| | 21 | 405 | 52 | 96 | 3 | 556 |
| | 22 | 96 | 33 | 237 | 18 | 384 |
| | 23 | 203 | 69 | 222 | 14 | 508 |
| | 24 | 314 | 192 | 337 | 23 | 866 |
| | 25 | 181 | 66 | 311 | 1 | 559 |
| | 26 | 121 | 72 | 190 | 16 | 399 |
| | 27 | 58 | 13 | 35 | 7 | 113 |
| | 28 | 159 | 38 | 288 | 10 | 495 |
| | 29 | 183 | 42 | 32 | 3 | 260 |
| Trk. | 1 | 352 | 42 | 38 | -- | 432 |
| | 2 | 155 | 55 | 51 | -- | 261 |
| | 3 | 236 | 62 | 79 | 2 | 379 |
| | 4 | 177 | 58 | 67 | 3 | 305 |
| | 5 | 263 | 107 | 102 | 5 | 477 |
| | 6 | 100 | 37 | 115 | 6 | 258 |
| | 7 | 319 | 131 | 105 | 11 | 566 |
| | 8 | 88 | 11 | 49 | 1 | 149 |
| | 9 | 99 | 24 | 58 | 8 | 189 |
| | 10 | 154 | 54 | 192 | 9 | 409 |
| Squad | 1 | 497 | 68 | 38 | -- | 603 |
| Res. | 1 | 413 | 38 | 43 | 1 | 495 |
| | 2 | 13 | 113 | 606 | 21 | 753 |
| | 3 | 112 | 39 | 362 | 27 | 540 |
| F.B. | 2 | 60 | 5 | 6 | 1 | 72 |
| | 3 | 29 | 1 | 9 | 1 | 40 |
| Tur. | 1 | 9 | 3 | 1 | -- | 13 |
| | 6 | 1 | --- | 14 | -- | 15 |
| Tnkr. | 25 | 6 | --- | 2 | -- | 8 |
| | 1* | 11 | 2 | 28 | 1 | 42 |
| Chem. | 2 | 299 | 42 | 137 | 12 | 490 |

*Deactivated October 30, 1970

EMERGENCY FIRE SERVICE BY COMPANIES

| Co. | No. | Time H-M | HOSE LAID | | | | | Ldrs. Ft. | Miles Run | Fire Prot. Dist. | M. A. Dist. |
|-------|-----|-------------|-----------|-------|--------|--------|---------|--------------|--------------|------------------------|-------------------|
| | | | 3-1/2" | 3" | 2-1/2" | 1-1/2" | Booster | | | | |
| Eng. | 2 | 77:38 | --- | 2800 | 1550 | 1700 | 1250 | 42 | 227.5 | 1 | -- |
| | 3 | 314:15 | --- | 22200 | 4650 | 17650 | 34100 | 101 | 1554.6 | 5 | -- |
| | 4 | 230:03 | --- | 17400 | 4650 | 7300 | 17300 | 12 | 1053.0 | 3 | -- |
| | 5 | 158:22 | --- | 4050 | 2350 | 2650 | 9800 | 104 | 1061.7 | 12 | -- |
| | 6 | 101:12 | 150 | 3800 | 1350 | 2050 | 2750 | 44 | 448.0 | -- | 1 |
| | 7 | 238:32 | --- | 10250 | 7400 | 10750 | 31200 | 504 | 1131.1 | 1 | -- |
| | 8 | 309:34 | --- | 12250 | 3450 | 8850 | 32900 | 300 | 2110.0 | 68 | 10 |
| | 9 | 268:37 | --- | 5850 | 3250 | 5600 | 35750 | 520 | 1348.2 | -- | 1 |
| | 10 | 103:47 | --- | 5400 | 1450 | 3850 | 5750 | 24 | 747.5 | 5 | -- |
| | 11 | 146:23 | --- | 3900 | 350 | 4050 | 29050 | 102 | 919.8 | -- | 53 |
| | 13 | 312:28 | --- | 9050 | 5950 | 9650 | 40250 | 216 | 2163.0 | 1 | -- |
| | 14 | 368:00 | --- | 11550 | 3800 | 12600 | 41050 | 738 | 2462.0 | 5 | 12 |
| | 15 | 115:05 | --- | 3200 | 2400 | 4350 | 10000 | 244 | 659.0 | 17 | -- |
| | 16 | 116:48 | --- | 1850 | 2350 | 1350 | 6050 | 22 | 427.5 | 1 | 1 |
| | 18 | 182:57 | --- | 7850 | 2300 | 7400 | 22000 | 148 | 1040.6 | 40 | -- |
| | 19 | 246:16 | --- | 6050 | 2850 | 4900 | 28100 | 204 | 1465.0 | -- | 21 |
| | 20 | 224:03 | --- | 5200 | 2650 | 4450 | 18800 | 198 | 847.0 | -- | -- |
| | 21 | 215:58 | --- | 6950 | 9500 | 4550 | 6600 | 24 | 1252.0 | -- | -- |
| | 22 | 225:43 | --- | 10550 | 6200 | 8750 | 34750 | 172 | 1089.5 | 23 | 1 |
| | 23 | 250:28 | --- | 11400 | 6100 | 9200 | 29000 | 150 | 1154.6 | 1 | -- |
| | 24 | 386:48 | --- | 12300 | 6600 | 14600 | 51000 | 448 | 2271.0 | 10 | 3 |
| | 25 | 233:40 | --- | 5000 | 2450 | 8600 | 37700 | 52 | 1492.0 | -- | 3 |
| | 26 | 228:01 | --- | 6800 | 4400 | 8100 | 24650 | 134 | 1243.0 | 33 | -- |
| | 27 | 91:33 | --- | 4000 | 2650 | 1100 | 2325 | 28 | 662.0 | 16 | 6 |
| | 28 | 224:30 | --- | 5950 | 2650 | 3600 | 22800 | 676 | 1262.5 | -- | 28 |
| | 29 | 140:31 | --- | 6550 | 5150 | 5650 | 4600 | 56 | 514.0 | 1 | -- |
| Trk. | 1 | 191:24 | --- | ----- | ----- | 100 | ----- | 5531 | 998.5 | -- | -- |
| | 2 | 156:11 | --- | ----- | ----- | ----- | ----- | 3111 | 590.5 | 2 | -- |
| | 3 | 208:35 | --- | ----- | ----- | 200 | ----- | 5100 | 916.0 | -- | -- |
| | 4 | 192:55 | --- | 100 | ----- | 100 | ----- | 4476 | 774.1 | -- | -- |
| | 5 | 220:06 | --- | 100 | ----- | ----- | ----- | 4504 | 1237.0 | -- | 1 |
| | 6 | 153:16 | --- | ----- | ----- | ----- | ----- | 1765 | 745.0 | -- | 4 |
| | 7 | 310:15 | --- | 100 | ----- | ----- | ----- | 6409 | 1773.0 | 11 | 4 |
| | 8 | 136:37 | --- | ----- | ----- | 100 | ----- | 1473 | 620.0 | 13 | -- |
| | 9 | 143:00 | --- | 300 | ----- | 100 | 250 | 2220 | 662.0 | 18 | -- |
| | 10 | 216:53 | --- | ----- | ----- | ----- | ----- | 1995 | 1212.5 | -- | 5 |
| Squad | 1 | 231:50 | --- | ----- | ----- | ----- | ----- | ----- | 1557.5 | 2 | -- |
| Res. | 1 | 212:08 | --- | ----- | ----- | ----- | ----- | ----- | 1538.5 | 2 | -- |
| | 2 | 277:59 | --- | ----- | ----- | ----- | ----- | ----- | 4083.3 | 16 | 5 |
| | 3 | 286:31 | --- | ----- | ----- | ----- | ----- | ----- | 2433.0 | 38 | -- |
| F.B. | 2 | 58:14 | --- | ----- | 250 | 600 | ----- | 40 | 175.0 | -- | -- |
| | 3 | 38:15 | --- | ----- | ----- | 250 | ----- | ----- | 146.0 | 13 | -- |
| Tur. | 1 | 56:53 | --- | ----- | ----- | ----- | ----- | ----- | 101.0 | 1 | -- |
| Tnkr. | 6 | 20:46 | --- | ----- | 100 | 1900 | 800 | ----- | 190.0 | 3 | 3 |
| | 25 | 67:04 | --- | ----- | ----- | ----- | 1700 | ----- | 83.0 | 1 | 1 |
| Chem. | 1* | 54:32 | --- | ----- | ----- | ----- | 6800 | ----- | 239.0 | 2 | 18 |
| | 2 | 194:49 | --- | ----- | ----- | 750 | 24000 | ----- | 1228.5 | 3 | 1 |

*Deactivated October 30, 1970

EMERGENCY RESPONSE OF RESCUE UNITS

RESCUE 1

During the fiscal year the Jay W. Stevens Emergency Car responded to 495 fire alarms and other emergencies, working a total of 212 hours, 8 minutes and traveling 1538 miles.

In addition, special assignments provided First Aid at Multnomah Stadium, Park Bureau events, Civic Parades, High School athletic activities, and other places of public assembly.

RESCUE 2

Rescue 2 responded to 753 emergency calls, traveling 4083 miles and working 277 hours, 59 minutes, caring for the following cases:

| First Aid Cases | Times Equipment Used |
|--------------------|-----------------------------|
| 107 Heart | 222 Resuscitator-Inhalator |
| 59 Respiratory | 161 Miscellaneous Equipment |
| 27 Burns | |
| 62 Trauma | |
| 15 Rescue | |
| 53 Dead on Arrival | |
| 342 Miscellaneous | |

RESCUE 3

During the year Rescue 3 responded to 540 alarms, working 286 hours, 31 minutes, and traveling 2433 miles. In addition, the crew of Rescue 3 responded to all alarms with Engine 22 and Truck 9 and performed as Fire Fighters in their respective companies.

| First Aid Cases | Times Equipment Used |
|--------------------|-----------------------------|
| 48 Heart | 131 Resuscitator-Inhalator |
| 30 Respiratory | 103 Miscellaneous Equipment |
| 7 Burns | |
| 49 Trauma | |
| 16 Rescue | |
| 21 Dead on Arrival | |
| 84 Miscellaneous | |

EMERGENCY RESPONSE OF RESERVE COMPANIES

| Co. | No. | Phantom Boxes | Boxes | Telephone | Stills | Total Alarms |
|-------|-----|---------------|-------|-----------|--------|--------------|
| Comp. | 2 | 1 | - | - | - | 1 |
| Eng. | 1R | 2 | - | - | - | 2 |
| | 4R | - | - | 1 | - | 1 |
| | 5R | - | - | 1 | - | 1 |
| | 8R | 1 | 1 | - | - | 2 |

EMERGENCY FIRE SERVICE BY RESERVE COMPANIES

| Co. | No. | Time H-M | HOSE LAID | | | | | Ladders Ft. Raised | Miles Run | Fire Prot. Dist. | M. A. Dist. |
|-------|-----|----------|-----------|----|--------|--------|---------|--------------------|-----------|------------------|-------------|
| | | | 3 1/2" | 3" | 2 1/2" | 1 1/2" | Booster | | | | |
| Comp. | 2 | :45 | - | - | - | - | --- | - | 2.0 | - | - |
| Eng. | 1R | 7:02 | - | - | - | - | --- | - | 15.0 | - | - |
| | 4R | :17 | - | - | - | - | --- | - | 2.0 | - | - |
| | 5R | :15 | - | - | - | - | 200 | - | 0.5 | - | - |
| | 8R | 2:14 | - | - | - | - | 250 | - | 15.0 | 1 | - |

OUTSIDE CITY FIRE PROTECTION

Fire protection services were provided for the following Rural Fire Protection Districts and Water Districts during the 1970-71 fiscal year under fire protection agreements.

| DISTRICT | SQ. MILES | ESTIMATED POPULATION | REVENUE | AGREEMENT NO. |
|-----------------------------|-----------|----------------------|--------------|---------------|
| RFPD #1 (Kenton) | 2.53 | 1070 | \$168,081.92 | 12844 |
| RFPD #4 (Sylvan) | .88 | 760 | 39,911.02 | 12820 |
| RFPD #26 (Oregon Ship) | .70 | ---- | 50,908.34 | 12764 |
| Burlington Water Dist. | 1.40 | 410 | 9,912.47 | 12810 |
| Capitol Highway Water Dist. | 2.91 | 4570 | 92,267.18 | 12786 |
| Valley View Water Dist. | .61 | 632 | 30,980.90 | 12834 |
| | | | \$392,061.83 | |

Private Agreements (7) \$ 24,998.24

Total Revenue \$417,060.07

MUTUAL AID

The City of Portland was a participant in Mutual Aid during 1970-71 under conditions of an agreement with the following cities and fire protection districts.

| | |
|------------------|-------------|
| Vancouver, Wash. | RFPD No. 12 |
| Gresham, Oregon | RFPD No. 13 |
| RFPD No. 2* | RFPD No. 14 |
| RFPD No. 10 | RFPD No. 20 |

The Portland International Airport by the Port of Portland Commission, and the United States Air Force, are also signators to the above mutual aid agreement.

*Consolidated with RFPD No. 10 in November, 1970.

EMERGENCY FIRE SERVICE OUTSIDE CITY LIMITS

AREAS UNDER FIRE PROTECTION AGREEMENTS

RURAL FIRE PROTECTION DISTRICT NO. 1

| Co. | No. | No. of Alarms | HOSE LAID | | | | Ladders Raised Ft. | Miles Run | Time H-M |
|--------|-----|---------------|-----------|--------|--------|---------|--------------------|-----------|----------|
| | | | 3" | 2 1/2" | 1 1/2" | Booster | | | |
| Eng. | 7 | 1 | 50 | ---- | ---- | ---- | --- | 17.0 | 1:32 |
| | 8 | 62 | 1050 | 300 | 750 | 8200 | --- | 326.0 | 52:44 |
| | 13 | 1 | ---- | ---- | ---- | 200 | --- | 15.0 | 1:00 |
| | 14 | 5 | 600 | ---- | 150 | 350 | --- | 29.0 | 8:09 |
| | 22 | 4 | 500 | 600 | 150 | ---- | --- | 34.0 | 3:55 |
| | 23 | 1 | ---- | ---- | ---- | ---- | --- | 7.0 | :12 |
| | 24 | 10 | 600 | 300 | ---- | 400 | --- | 67.0 | 8:59 |
| | 26 | 19 | ---- | ---- | 200 | 2250 | --- | 117.0 | 20:26 |
| | 29 | 1 | ---- | ---- | ---- | ---- | --- | 20.0 | :56 |
| Trk. | 7 | 9 | ---- | ---- | ---- | ---- | 121 | 70.0 | 7:57 |
| | 9 | 4 | ---- | ---- | ---- | ---- | 55 | 34.0 | 2:55 |
| Squad | 1 | 1 | ---- | ---- | ---- | ---- | --- | 8.0 | 1:09 |
| Res. | 1 | 1 | ---- | ---- | ---- | ---- | --- | 8.0 | 1:04 |
| | 2 | 1 | ---- | ---- | ---- | ---- | --- | 17.0 | :31 |
| | 3 | 25 | ---- | ---- | ---- | ---- | --- | 229.0 | 13:42 |
| F.B. | 3 | 4 | ---- | ---- | ---- | ---- | --- | 38.0 | 5:00 |
| Turret | 1 | 1 | ---- | ---- | ---- | ---- | --- | 20.0 | :56 |
| Tnkr. | 6 | 2 | ---- | ---- | 400 | ---- | --- | 32.0 | 2:59 |
| | 25 | 1 | ---- | ---- | ---- | 400 | --- | 20.0 | 1:39 |
| Chem. | 1 | 13 | ---- | ---- | ---- | 2400 | --- | 63.0 | 12:27 |
| | 2 | 1 | ---- | ---- | ---- | ---- | --- | 7.0 | :20 |
| Eng. | 8R | 1 | ---- | ---- | ---- | 250 | --- | 12.0 | 2:00 |
| Total | | 168 | 2800 | 1200 | 1650 | 14450 | 176 | 1190.0 | 150:32 |

RURAL FIRE PROTECTION DISTRICT NO. 4

| | | | | | | | | | |
|-------|----|----|------|------|------|------|-----|-------|-------|
| Eng. | 3 | 5 | ---- | ---- | 150 | 200 | --- | 31.0 | 4:45 |
| | 4 | 3 | 300 | 250 | 250 | 200 | --- | 20.0 | 3:19 |
| | 15 | 13 | ---- | ---- | 300 | 1000 | 22 | 79.1 | 10:21 |
| Trk. | 2 | 2 | ---- | ---- | ---- | ---- | 72 | 16.0 | 3:29 |
| Squad | 1 | 1 | ---- | ---- | ---- | ---- | --- | 2.0 | :27 |
| Res. | 2 | 2 | ---- | ---- | ---- | ---- | --- | 11.0 | 1:11 |
| Total | | 26 | 300 | 250 | 700 | 1400 | 94 | 159.1 | 23:32 |

RURAL FIRE PROTECTION DISTRICT NO. 26

| | | | | | | | | | |
|-------|----|----|------|------|------|------|-----|-------|-------|
| Eng. | 22 | 5 | ---- | ---- | ---- | 500 | --- | 21.0 | 2:30 |
| | 26 | 10 | 2000 | 1100 | 650 | 750 | --- | 78.0 | 10:12 |
| Trk. | 7 | 2 | ---- | ---- | ---- | ---- | --- | 20.0 | :30 |
| | 9 | 1 | ---- | ---- | ---- | ---- | --- | 5.0 | 1:00 |
| Res. | 3 | 2 | ---- | ---- | ---- | ---- | --- | 7.0 | 1:34 |
| F.B. | 3 | 1 | ---- | ---- | ---- | ---- | --- | 2.0 | :20 |
| Total | | 21 | 2000 | 1100 | 650 | 1250 | --- | 133.0 | 16:06 |

EMERGENCY FIRE SERVICE OUTSIDE CITY LIMITS (cont)

AREAS UNDER FIRE PROTECTION AGREEMENTS

BURLINGTON WATER DISTRICT

| Co. No. | No. of Alarms | HOSE LAID | | | | Ladders Raised Ft. | Miles Run | Time H - M |
|---------|---------------|-----------|--------|--------|---------|--------------------|-----------|------------|
| | | 3" | 2 1/2" | 1 1/2" | Booster | | | |
| Eng. 22 | 3 | ---- | 400 | 300 | ---- | --- | 35.0 | 4:00 |
| 27 | 9 | 600 | 600 | ---- | 575 | 8 | 68.0 | 8:30 |
| Trk. 9 | 4 | ---- | ---- | ---- | ---- | 48 | 48.0 | 4:00 |
| Res. 2 | 1 | ---- | ---- | ---- | ---- | --- | 20.0 | :44 |
| 3 | 4 | ---- | ---- | ---- | ---- | --- | 42.0 | 3:10 |
| F.B. 3 | 2 | ---- | ---- | ---- | ---- | --- | 7.0 | 1:25 |
| Tnkr. 6 | 1 | ---- | 100 | ---- | 500 | --- | 28.0 | 2:31 |
| Total | 24 | 600 | 1100 | 300 | 1075 | 56 | 248.0 | 24:20 |

CAPITAL HIGHWAY WATER DISTRICT

| | | | | | | | | |
|----------|----|------|------|------|------|-----|-------|-------|
| Eng. 5 | 9 | 400 | ---- | 250 | ---- | 22 | 51.0 | 10:04 |
| 10 | 5 | ---- | ---- | 300 | 250 | --- | 50.5 | 3:38 |
| 18 | 39 | 2250 | 100 | 3450 | 3500 | 68 | 127.5 | 31:00 |
| Trk. 8 | 11 | ---- | ---- | ---- | ---- | 248 | 49.0 | 14:37 |
| Res. 1 | 1 | ---- | ---- | ---- | ---- | --- | 16.0 | :37 |
| 2 | 9 | ---- | ---- | ---- | ---- | --- | 87.0 | 4:52 |
| Tnkr. 25 | 1 | ---- | ---- | ---- | 400 | --- | 10.0 | 1:37 |
| Total | 75 | 2650 | 100 | 4000 | 4150 | 338 | 391.0 | 66:25 |

VALLEY VIEW WATER DISTRICT

| | | | | | | | | |
|--------|----|------|------|------|------|-----|------|------|
| Eng. 2 | 1 | ---- | ---- | ---- | ---- | --- | 7.5 | 1:00 |
| 5 | 3 | 600 | 300 | 200 | ---- | --- | 21.0 | 3:05 |
| 15 | 4 | 800 | ---- | 100 | 500 | 30 | 21.7 | 3:37 |
| 18 | 1 | ---- | ---- | ---- | ---- | --- | 6.5 | :24 |
| Trk. 8 | 2 | ---- | ---- | ---- | ---- | 26 | 15.0 | :55 |
| Total | 11 | 1400 | 300 | 300 | 500 | 56 | 71.7 | 9:01 |

PRIVATE

| | | | | | | | | |
|---------|----|------|------|------|------|-----|-------|-------|
| Eng. 8 | 6 | 300 | ---- | 150 | ---- | --- | 59.0 | 4:29 |
| 16 | 1 | ---- | ---- | ---- | ---- | --- | 4.0 | :50 |
| 22 | 11 | ---- | 400 | 850 | 1750 | --- | 76.0 | 13:01 |
| 26 | 4 | 50 | 350 | 300 | ---- | --- | 30.0 | 4:46 |
| 27 | 7 | ---- | ---- | ---- | ---- | --- | 83.0 | 4:37 |
| Trk. 9 | 9 | ---- | ---- | ---- | ---- | 116 | 54.0 | 10:30 |
| Res. 3 | 7 | ---- | ---- | ---- | ---- | --- | 44.0 | 6:44 |
| F.B. 3 | 6 | ---- | ---- | ---- | ---- | --- | 20.0 | 3:55 |
| Chem. 1 | 2 | ---- | ---- | ---- | ---- | --- | 21.0 | 2:12 |
| 2 | 2 | ---- | ---- | ---- | 200 | --- | 38.0 | 2:50 |
| Total | 55 | 350 | 750 | 1300 | 1950 | 116 | 429.0 | 53:54 |

GRAND TOTAL OF OUTSIDE CITY PROTECTION AGREEMENTS

380 10100 4800 8900 24775 836 2621.8 343:50

EMERGENCY FIRE SERVICE OUTSIDE CITY LIMITS (cont)

AREAS UNDER MUTUAL AID AGREEMENT

RURAL FIRE PROTECTION DISTRICT NO. 10

| Co. No. | No. of Alarms | HOSE LAID | | | | Ladders Raised Ft. | Miles Run | Time H - M |
|---------|---------------|-----------|--------|--------|---------|--------------------|-----------|------------|
| | | 3" | 2 1/2" | 1 1/2" | Booster | | | |
| Eng. 9 | 1 | ---- | ---- | ---- | 250 | --- | 9.0 | 1:21 |
| 11 | 52 | 1700 | ---- | 1350 | 3000 | --- | 154.0 | 18:55 |
| 19 | 21 | 350 | 550 | 800 | 1400 | 8 | 72.0 | 9:58 |
| 28 | 9 | 600 | 250 | ---- | 500 | --- | 49.5 | 8:47 |
| Trk. 6 | 4 | ---- | ---- | ---- | ---- | 12 | 14.0 | 3:05 |
| Res. 2 | 3 | ---- | ---- | ---- | ---- | --- | 26.0 | 1:30 |
| Tnkr. 6 | 1 | ---- | ---- | 100 | 500 | --- | 22.0 | :51 |
| Total | 91 | 2650 | 800 | 2250 | 5650 | 20 | 346.5 | 44:27 |

RURAL FIRE PROTECTION DISTRICT NO. 12

| | | | | | | | | |
|----------|----|------|------|------|------|-----|------|------|
| Eng. 11 | 1 | ---- | ---- | ---- | ---- | --- | 4.0 | :16 |
| 25 | 3 | ---- | ---- | 300 | ---- | 8 | 12.0 | 1:18 |
| Trk. 10 | 5 | ---- | ---- | ---- | ---- | 34 | 19.0 | 2:26 |
| Res. 2 | 1 | ---- | ---- | ---- | ---- | --- | 10.0 | :33 |
| Tnkr. 25 | 1 | ---- | ---- | ---- | ---- | --- | 4.0 | :16 |
| Total | 11 | ---- | ---- | 300 | ---- | 42 | 49.0 | 4:49 |

RURAL FIRE PROTECTION DISTRICT NO. 13

| | | | | | | | | |
|---------|----|------|------|------|------|-----|-------|-------|
| Eng. 8 | 9 | 50 | ---- | 150 | 2400 | --- | 45.0 | 9:24 |
| 14 | 12 | ---- | ---- | 300 | 800 | 8 | 47.0 | 5:46 |
| 24 | 3 | ---- | 400 | 400 | ---- | --- | 25.0 | 5:25 |
| 28 | 19 | 400 | ---- | 400 | 1000 | 78 | 54.5 | 7:36 |
| Trk. 5 | 1 | ---- | ---- | ---- | ---- | 25 | 6.0 | :35 |
| 7 | 4 | ---- | ---- | ---- | ---- | 12 | 30.0 | 2:07 |
| Res. 2 | 4 | ---- | ---- | ---- | ---- | --- | 38.0 | 2:05 |
| Chem. 1 | 5 | ---- | ---- | ---- | 1400 | --- | 22.0 | 4:44 |
| Total | 57 | 450 | 400 | 1250 | 5600 | 123 | 267.5 | 37:42 |

RURAL FIRE PROTECTION DISTRICT NO. 20

| | | | | | | | | |
|---------|----|------|------|------|------|-----|-------|------|
| Eng. 6 | 1 | ---- | ---- | ---- | ---- | --- | 11.0 | :27 |
| 16 | 1 | ---- | ---- | ---- | 200 | --- | 24.0 | 1:59 |
| 27 | 6 | ---- | ---- | ---- | 550 | --- | 84.0 | 4:23 |
| Tnkr. 6 | 2 | ---- | ---- | ---- | ---- | --- | 14.0 | :41 |
| Chem. 2 | 1 | ---- | ---- | 350 | ---- | --- | 28.0 | 2:11 |
| Total | 11 | ---- | ---- | 350 | 750 | --- | 161.0 | 9:41 |

VANCOUVER

| | | | | | | | | |
|--------|---|------|------|------|------|-----|------|------|
| Eng. 8 | 1 | ---- | ---- | ---- | ---- | --- | 13.0 | 4:00 |
| 22 | 1 | ---- | ---- | ---- | ---- | --- | 24.0 | 3:00 |
| Total | 2 | ---- | ---- | ---- | ---- | --- | 37.0 | 7:00 |

GRAND TOTAL OF OUTSIDE CITY MUTUAL AID

172 3100 1200 4150 12000 185 861.0 103:39

EMERGENCY FIRE SERVICE OUTSIDE CITY LIMITS (cont)

AREAS NOT UNDER FIRE PROTECTION OR MUTUAL AID AGREEMENT

| Co. | No. | No.of Alarms | HOSE LAID | | | | Ladders Raised Ft. | Miles Run | Time H - M |
|-------|-----|-----------------|-----------|--------|--------|---------|-----------------------|--------------|---------------|
| | | | 3" | 2 1/2" | 1 1/2" | Booster | | | |
| Eng. | 5 | 1 | ---- | ---- | ---- | ---- | --- | 10.0 | :32 |
| | 18 | 1 | ---- | ---- | ---- | ---- | --- | 6.0 | :15 |
| | 20 | 1 | ---- | ---- | ---- | ---- | --- | 3.0 | :15 |
| | 22 | 4 | ---- | ---- | ---- | 750 | --- | 17.0 | 2:50 |
| Trk. | 9 | 1 | ---- | ---- | ---- | ---- | --- | 5.0 | 1:00 |
| Res. | 3 | 5 | ---- | ---- | ---- | ---- | --- | 36.0 | 2:12 |
| Total | | 13 | ---- | ---- | ---- | 750 | --- | 77.0 | 7:04 |

GRAND TOTAL OF EMERGENCY SERVICE OUTSIDE CITY LIMITS

565 13200 6000 13050 37525 1021 3559.8 454:33

PROPERTY & EQUIPMENT
MAINTENANCE DIVISION

The Property and Equipment Maintenance Division is responsible for the maintenance and care of all Fire Bureau property. This Division consists of the Building and Equipment Maintenance Section and the Apparatus Maintenance Section.

BUILDING AND EQUIPMENT MAINTENANCE SECTION

The Building and Equipment Maintenance Section is headed by the Fire Buildings Superintendent who supervises 2 carpenters, 2 plumbers, 2 painters and 1 utility worker. This Section performs all routine maintenance and emergency repair on 26 fire stations, 1 houseboat, and 6 other buildings. All furnishings and equipment used in such buildings are also maintained and repaired by this Section.

Major projects completed during the year included the addition of diesel fuel facilities at 2 fire stations, the construction of additional buildings and facilities at the Oil Fire Training Grounds, extensive interior painting at 13 fire stations, and major exterior painting at 12 fire stations. Numerous ladders, pike poles, axes, and various other fire fighting tools were repaired. House keeping and grounds keeping tools, such as floor polishers and lawn mowers were repaired or replaced.

Assistance was obtained from other City departments in blacktop repairing, excavating, and land clearing projects.

During the year, additional maintenance help was obtained under the Federally financed State Training Employment Program (S.T.E.P.). Unemployable and disadvantaged people were given on-the-job training under the tutelage of the Fire Bureau carpenters, plumbers, and painters. The program proved beneficial both to the Fire Bureau and to the persons employed. The S.T.E.P. employees performed routine maintenance tasks, painting, and brush clearing.

REAL ESTATE AND BUILDINGS

| Station | Address | Constr. of Building | Year Built | Size of Lot | Original Bldg. Cost | Original Lot Cost | Auditor's Cost Value Land & Impr. To 7/1/70 | Improvements To Land & Buildings 7/1/70-6/30/71 | Equip. & Furnishings |
|---------|-------------------------|------------------------|------------|------------------|---------------------|-------------------|---------------------------------------------|-------------------------------------------------|----------------------|
| Eng. 1 | SW 57 Ave. & Barnes Rd. | | | 14650 sq. ft. \$ | \$ 5,028.37 | \$ | \$ 5,028.37 | \$ | \$ |
| Eng. 2 | 630 SW Gaines | 1S Frame | 1962 | 93x120x90x100 | 59,744.05 | Owned by State | 66,925.60 | | 3,109.24 |
| Eng. 3 | 1715 NW Johnson | 2S Brick | 1967 | 104x120 | 139,518.97 | 73,099.00 | 212,633.97 | | 6,318.60 |
| Eng. 4 | 511 SW College St. | 1S Brick | 1962 | 77-1/2x100 | 143,438.11 | 45,253.58 | 189,071.17 | | 4,036.66 |
| Eng. 5 | 1505 SW DeWitt | 1S Brick | 1960 | 141.7x163.94 | 112,644.38 | 23,020.00 | 145,892.24 | | 5,118.51 |
| Eng. 6 | 3660 NW Front Ave. | 1S Rein. Conc. & Block | 1960 | 140x140 | 127,964.49 | Leased | 143,001.50 | | 3,514.75 |
| Eng. 7 | 1036 SE Stark St. | 2S Brick | 1927 | 50x100 | 33,314.35 | 4,250.00 | 41,099.39 | | 2,775.08 |
| Eng. 8 | 7134 N Maryland Ave. | 1S Brick | 1960 | 100x165 | 102,723.33 | 12,940.00 | 121,965.06 | | 3,123.15 |
| Eng. 9 | 900 SE 35th Ave. | 2S Brick | 1912 | 33-1/3x100 | 15,000.00 | 1,935.00 | 22,925.89 | | 2,815.87 |
| Eng. 10 | 5830 SW Kelly St. | 1S Brick | 1925 | 65x100 | 12,500.00 | 500.00 | 14,867.63 | | 2,465.98 |
| Eng. 11 | 5707 SE 92nd Ave. | 1S Brick | 1928 | 87-1/2x130 | 10,080.00 | 1,550.00 | 12,618.62 | | 1,838.46 |
| Eng. 13 | 926 NE Weidler | 1S Brick | 1955 | 100x100 | 94,964.00 | 2,500.00 | 102,864.03 | | 5,230.30 |
| Eng. 14 | 1905 NE Killingsworth | 1S Brick | 1959 | 140x140 | 117,293.85 | Assigned By Ord. | 117,286.70 | | 2,622.42 |
| Eng. 15 | 1920 SW Spring St. | 1S Brick | 1927 | 50x100 | 12,112.00 | 2,650.00 | 16,103.46 | | 1,728.43 |

REAL ESTATE AND BUILDINGS

| Station | Address | Constr. of Building | Year Built | Size of Lot | Original Bldg. Cost | Original Lot Cost | Auditor's Cost Value Land & Impr. To 7/1/70 | Improvements To Land & Buildings 7/1/70-6/30/71 | Equip. & Furnishings |
|---------|-------------------------|---------------------|------------|-------------------------|---------------------|-------------------|---------------------------------------------|-------------------------------------------------|----------------------|
| Eng. 16 | 4465 NW Yeon Ave. | 1S Brick | 1944 | Tr. 2.775 Sq. ft. tract | \$ 30,830.55 | \$ 1,100.00 | \$ 32,245.19 | \$ | \$ 1,476.78 |
| Eng. 18 | 8720 SW 30th Ave. | 1S Brick | 1960 | 113x155 | 121,153.66 | 11,973.88 | 139,666.39 | | 3,307.58 |
| Eng. 19 | 7301 E Burnside | 1S Brick | 1953 | 123.97x151.61 | 80,973.00 | 2,275.00 | 92,174.95 | | 4,718.13 |
| Eng. 20 | 2235 SE Bybee Ave. | 1S Brick | 1959 | 125x175 | 110,050.89 | 9,500.00 | 128,578.20 | | 2,751.54 |
| Eng. 21 | 55 SW Ash | 3S Brick | 1950 | 200x200 | 511,000.00 | 75,000.00 | 582,964.69 | 386.75 | 25,591.04* |
| Eng. 22 | 7205 N Alta St. | 1S Brick | 1954 | 100x100 | 93,024.00 | 2,500.00 | 98,321.64 | | 4,115.61 |
| Eng. 23 | 2915 SE 13th Pl. | 3S Brick | 1962 | Incl. in D.T. Lot | 174,078.61 | 392.38 | 196,335.44 | | 5,471.04 |
| Eng. 24 | 4515 N Maryland Ave. | 1S Brick | 1959 | 120x170 | 117,447.80 | 28,927.30 | 159,205.06 | | 5,938.62 |
| Eng. 25 | 5211 SE Mall St. | 1S Brick | 1959 | 100x150 | 116,468.88 | 10,832.29 | 124,824.68 | | 4,015.55 |
| Eng. 26 | 5247 N Lombard St. | 1S Brick | 1928 | 85x100 | 10,280.00 | 2,010.00 | 16,065.86 | | 2,001.05 |
| Eng. 27 | 11212 NW St. Helens Rd. | 1S Brick | 1940 | 100x100 | 12,600.00 | 1,815.00 | 43,995.78 | | 2,530.95 |
| Eng. 28 | 5540 NE Sandy Blvd. | 2S Brick | 1912 | 100x100 | 8,000.00 | 1,470.00 | 10,216.47 | | 2,111.30 |
| Eng. 29 | 5 SE Madison St. | 1S Rein. Conc. | 1960 | Approx. 1 Acre | 147,980.62 | 10,062.00 | 180,899.88 | | 2,897.82 |

*This figure does not include equipment in the third floor offices in the amount of \$40,507.14

REAL ESTATE AND BUILDINGS

| Land & Other Buildings | Address | Constr. of Building | Year Built | Size of Lot | Original Bldg. Cost | Original Lot Cost | Auditor's Cost Value Land & Impr. To 7/1/70 | Improvements To Land & Buildings 7/1/70-6/30/71 | Equip. & Furnishings |
|------------------------|----------------------|---------------------|------------|----------------|---------------------|-------------------|---------------------------------------------|-------------------------------------------------|----------------------|
| Auto Shop | 1026 SE Stark St. | 1S Frame | 1964 | 50x100 | \$ 21,386.18 | \$ | \$ 21,386.18 | \$ | \$ 16,284.17 |
| Carp. Shop | Stanton & Kirby | | | | | | | | 19,727.16 |
| Drill Tower | SE 11th & Powell | 6S Rein. Concrete | 1936 | 210x210 | 27,000.00 | 9,300.00 | 34,585.94 | | |
| Pump School Bldg. | SE 11th & Powell | | 1965 | | 7,393.54 | | 7,393.54 | | |
| Fire Alarm Hdqtrs. | NE 21st & Pacific | 1S Brick | 1928 | .47 Acre | 21,660.00 | 5,440.36 | 399,381.08 | | 18,325.75 |
| Fire Alarm Whse. | NE 21st & Pacific | 2S Rein. Concrete | 1956 | 50x100 | 47,000.00 | 115.00 | 52,053.86 | | 11,520.92 |
| Boat House No. 3 | Wheeler Bay, Term. 4 | 1S Frame | 1937 | Floating Barge | 19,251.15 | | 24,574.91 | | 2,050.45 |
| Tr. Cen. | 2915 SE 13th Pl. | | | | | | | | 15,038.71 |
| **Eng. 17 (old) | 824 NW 24th Ave. | 2S Brick | 1912 | 50x100 & 38x54 | 12,000.00 | 7,796.60 | 20,613.94 | | 201.08 |
| | | | | | \$2,670,876.41 | \$353,235.76 | \$3,577,767.31 | \$386.75 | \$194,772.70 |

**Used for Toy & Joy Warehouse

APPARATUS MAINTENANCE SECTION

The Apparatus Maintenance Section is supervised by the Fire Apparatus Superintendent. He has a staff of 3 auto mechanics (fire fighter grade) and 1 utility worker. This Section provides around-the-clock repair, maintenance, and service for 70 pieces of fire apparatus and vans, 3 fireboats, 17 utility trucks and vans, and 35 automobiles.

In addition to preventive maintenance, repairs, overhauling, modifications, annual equipment tests and annual pump tests, this Section procures, tests, evaluates, and distributes fire fighting equipment, tools and supplies used by the Fire Fighting Division.

One 85' Sutphen aerial tower was procured, tested, accepted, equipped, and placed in service this year. Notable features of this apparatus are its exceptional horizontal reach with a 1000# payload, a platform with two doors on the end of an 85' aerial ladder, and an elevating platform with permanently mounted dual turrets each equipped with 750 gpm adjustable fog nozzles.

Plans, construction drawings, and specifications were completed and apparatus construction was started on two 1750 gpm combination pumper-chemical units. These units are expected to be placed in service in the fall of 1971.

Plans were drawn and specifications written for the construction of a new rescue-command vehicle to replace the 33 year old Jay W. Stevens Disaster Unit. The new vehicle is scheduled for completion in December, 1971.

Proficiency examinations were conducted for drivers, pump operators, fireboat engineers and pilot trainees throughout the year and certificates issued to qualified personnel.

ENGINES

| Co. No. | App. No. | Make | Type | Pump Capacity | Tank | Drive | In Service | Motor or Serial No. | Cost |
|---------|----------|---------------|------|---------------|------|---------|------------|---------------------|--------------|
| Eng. 2 | 86 | Kenworth | HPB | 1500 | 150 | FWD | 11-26-51 | 601727 | \$ 22,768.00 |
| 3 | 33 | Seagrave | QUAD | 1000 | 300 | STD | 4-15-54 | G-8500 | 23,055.89 |
| 4 | 95 | Hahn | HPBT | 1250 | 300 | STD | 9-16-68 | HC14512689FMVSS | 36,863.40 |
| 5 | 7 | Seagrave | HPB | 1250 | 300 | No Spin | 1-26-60 | 12445 | 28,174.00 |
| 6 | 85 | Kenworth | HPB | 1500 | 150 | FWD | 11-30-51 | 601590 | 22,765.23 |
| 7 | 89 | Maxim | HPB | 1500 | 200 | STD | 2-15-52 | 601733 | 19,802.67 |
| 8 | 27 | Seagrave | HPB | 750 | 500 | No Spin | 1-14-61 | L-2440 | 24,400.00 |
| 9 | 40 | Mack | QUAD | 1250 | 500 | STD | 7-21-48 | 21LS1048 | 16,745.00 |
| 10 | 15 | Seagrave | HPB | 1250 | 300 | STD | 5-17-61 | 360046 | 28,174.00 |
| 11 | 14 | Seagrave | HPB | 750 | 500 | No Spin | 1-19-61 | L-2441 | 24,400.00 |
| 13 | 94 | Hahn | HPB | 1250 | 300 | STD | 9-16-68 | HC14512688FMVSS | 34,241.92 |
| 14 | 18 | Seagrave | HPB | 1250 | 300 | STD | 2-08-60 | L-2442 | 28,174.00 |
| 15 | 73 | FWD | HPB | 1250 | 300 | FWD | 3-24-52 | 601788 | 23,277.45 |
| 16 | 82 | Kenworth | HPB | 1500 | 150 | FWD | 11-15-51 | 601708 | 22,908.47 |
| 18 | 76 | International | HPB | 1000 | 120 | STD | 1-20-53 | 480377 | 17,188.56 |
| 19 | 45 | Pirsch | HPBT | 1000 | 300 | No Spin | 4-01-64 | 2696 | 27,937.00 |
| 20 | 21 | Seagrave | HPBT | 1250 | 300 | STD | 1-22-60 | L-2443 | 28,174.00 |
| 21 | 84 | Kenworth | HPB | 1500 | 150 | STD | 2-15-52 | 601725 | 22,715.00 |
| 22 | 10 | Seagrave | HPB | 1250 | 300 | STD | 1-20-60 | L-2446 | 28,174.00 |
| 23 | 75 | International | HPB | 1000 | 120 | STD | 1-20-53 | 480376 | 17,188.56 |
| 24 | 42 | Seagrave | HPB | 1000 | 300 | No Spin | 4-10-63 | 6606195 | 28,659.96 |
| 25 | 31 | Seagrave | HPBT | 750 | 500 | No Spin | 1-09-61 | L-2444 | 24,400.00 |
| 26 | 25 | Seagrave | HPBT | 1250 | 300 | STD | 2-04-60 | 601734 | 28,174.00 |
| 27 | 83 | Kenworth | HPBT | 1500 | 150 | STD | 12-17-51 | 601726 | 22,768.00 |
| 28 | 20 | Seagrave | HPBT | 1250 | 300 | No Spin | 1-28-60 | 350045 | 28,174.00 |
| 29 | 87 | Maxim | HPBT | 1500 | 200 | STD | 2-15-52 | 601735 | 18,793.12 |
| | | | | | | | | | \$648,096.23 |

MANIFOLDS

| | | | | | | | | | |
|----|----|--------------|------|------|------|------|----------|---------------|--------------|
| 3 | 92 | GMC | HBTT | ---- | 300 | STD | 4-30-68 | TW9700AD20191 | 27,887.45 |
| 4 | 2 | Am. LaFrance | HBTT | ---- | 300 | STD | 6-26-66 | B17-106PJC | 14,617.06 |
| 7 | 38 | GMC | HBT | ---- | ---- | ---- | 10-19-54 | 5034453 | 17,228.79 |
| 1R | 5 | Federal | HT | ---- | ---- | ---- | 3-15-57 | 104245 | 3,322.00* |
| | | | | | | | | | \$ 63,055.30 |

*Conversion Cost

RESERVE ENGINES

| Co. No. | Location | App. No. | Make | Type | Capacity | In Service | Motor or I.D. No. | Cost |
|----------|----------|----------|--------|------|------------|------------|-------------------|--------------|
| Eng. 1 R | Eng. 23 | 64 | Fageol | HP | 1000 | 10-07-38 | 360042 | \$ 8,640.05 |
| 2 R | Eng. 20 | 13 | Mack | HPB | 1000 | 1-01-45 | EY19-92F | 11,436.12 |
| 3 R | Eng. 9 | 66 | Fageol | HP | 1000 | 10-07-38 | 360043 | 8,657.05 |
| 4 R | Eng. 7 | 17 | Mack | QUAD | 1250 | 10-14-49 | 21LS1077 | 17,214.00 |
| 5 R | Eng. 23 | 91 | Maxim | HPBT | 1500 | 2-15-52 | 601734 | 19,730.62 |
| 7 R | Eng. 25 | 74 | Mack | HPB | 1000 | 9-18-43 | EY22-76F | 9,961.12 |
| 8 R | Eng. 14 | 43 | GMC | HBT | Hose Wagon | 8-19-54 | 5034711 | 17,130.45 |
| 9 R | Eng. 20 | 90 | Maxim | HPB | 1500 | 2-15-52 | 601732 | 19,740.63 |
| | | | | | | | | \$112,510.04 |

LADDER TRUCKS

| Co. No. | App. No. | Location | Make | Type | In Service | Motor or I.D. No. | Cost |
|---------|----------|----------|--------------|---------------------|------------|-------------------|--------------|
| Truck 1 | 36 | Eng. 21 | Seagrave | 100' Tractor | 11-20-59 | L-2455 | \$ 47,179.37 |
| 2 | 39 | Eng. 4 | Am. LaFrance | 100' Tractor | 2-17-50 | BM131473 | 36,000.00 |
| 3 | 96 | Eng. 3 | Sutphen | 85' Platform Aerial | 9-01-70 | R8V71N-CF | 98,874.00 |
| 4 | 4 | Eng. 23 | Seagrave | 100' Tractor | 1-30-56 | H-9740 | 37,179.93 |
| 5 | 37 | Eng. 13 | Seagrave | 100' Tractor | 12-03-59 | L-2456 | 47,179.37 |
| 6 | 34 | Eng. 19 | Seagrave | 85' 4-Wheel | 11-20-59 | L-2452 | 42,916.00 |
| 7 | 30 | Eng. 24 | Seagrave | 85' 4-Wheel | 1-31-60 | L-2450 | 42,916.00 |
| 8 | 26 | Eng. 5 | Seagrave | 85' 4-Wheel | 12-15-59 | L-2451 | 42,916.00 |
| 9 | 3 | Eng. 22 | Seagrave | 65' 4-Wheel B | 9-29-54 | 12170 | 35,073.36 |
| 10 | 35 | Eng. 25 | Seagrave | 85' 4-Wheel | 12-18-59 | L-2453 | 42,916.00 |
| | | | | | | | \$473,150.03 |

RESERVE TRUCKS

| Co. No. | App. No. | Location | Make | Type | In Service | Motor or I.D. No. | Cost |
|-----------|----------|----------|----------|----------------|------------|-------------------|--------------|
| Truck 1 R | 48 | Eng. 29 | Seagrave | 100' Tractor | 12-01-39 | A-2510 | 21,800.00 |
| 2 R | 29 | Eng. 13 | GMC | City Service B | 6-25-54 | 5035750 | 19,401.27 |
| 3 R | 49 | Eng. 8 | GMC | City Service B | 10-19-54 | 5035654 | 20,568.81 |
| | | | | | | | \$ 61,770.08 |

COMPRESSOR TRUCKS

| Co. No. | Location | App. No. | Make | Type | Tank | In Service | Motor or I.D. No. | Cost |
|------------------------|----------|----------|----------|----------------|------|------------|-------------------|--------------|
| Comp. 2 | Eng. 7 | 6 | GMC | Compressor-B | 100 | 3-22-56 | 37338PY1008 | \$ 15,701.68 |
| <u>SQUAD</u> | | | | | | | | |
| Squad 1 | Eng. 21 | 41 | GMC | Emerg. Unit TT | | 4-05-62 | 70201149B | \$ 15,208.00 |
| <u>RESCUE UNITS</u> | | | | | | | | |
| Res. 1 | Eng. 21 | 77 | Kenworth | Emerg. Unit | | 3-16-39 | 859456 | \$ 19,569.15 |
| 2 | Eng. 21 | F-54 | Ford | First Aid Car | | 3-06-64 | 3P35CH426620 | 5,237.05 |
| 3 | Eng. 22 | F-31 | Plymouth | First Aid Car | | 3-10-69 | PE45-H9D-234079 | 2,496.00 |
| <u>FIREBOAT TENDER</u> | | | | | | | | |
| Tur. 1 | Eng. 29 | 23 | Kenworth | H&T | | 6-30-48 | 1456K715215 | \$ 11,100.24 |

SPECIAL EQUIPMENT

| Location | App. No. | Make | Type | In Service | Motor or I.D. No. | Cost |
|---------------------|----------|--------|-------------------------|------------|-------------------|--------------|
| F.A.T. Whse. | 22 | GMC | Compressor | 6-14-42 | B22811-0997 | \$ 1,025.00 |
| E-18 Tanker 18 | 1 | GMC | HBT 500 gal. water tank | 10-19-54 | 5035641 | 17,127.20 |
| E-25 Tanker 25 | 28 | FWD | 1500 gal. water tank | 10-13-53 | 605094 | 23,071.05 |
| E- 6 Tanker 6 | 93 | GMC | HB 1350 gal. water tank | 8-17-67 | D20191 | 23,149.72 |
| Drill Yd. Gas Truck | F-95 | Dodge | Gas & Oil Truck | 12-31-67 | T12086194 | 2,275.00** |
| E-21 Jeep 1 | F-21 | Willys | Jeep | 1-01-60 | 42862 | 175.00 |
| E-27 Jeep 2 | F-11 | Willys | Jeep | 10-30-59 | 53967 | 152.00 |
| ***E- 8 Chem. 1 | 67 | Fageol | PBC 1000 gal. | 10-01-64 | 360040 | 8,645.00* |
| E-21 Chem. 2 | 65 | Fageol | PBC 1000 gal. | 8-01-65 | 360041 | 9,000.00* |
| | | | | | | \$ 84,619.97 |

*Conversion Cost **Purchase Price Including Trade-in

***Out of service December, 1970: Dismantled for parts and equipment for construction of new chemical-pumper

FIREBOATS

| Locations | Name | Builder | Date Purchased | Cost |
|----------------------|-----------------|-------------------|----------------|---------------|
| Fireboat 1 (at Bt.2) | Mike Laudenklos | Baker Constr. Co. | 2-1-27 | \$ 103,615.16 |
| Fireboat 2 | David Campbell | Baker Constr. Co. | 2-1-27 | 103,615.16 |
| Fireboat 3 | Karl Gunster | Baker Constr. Co. | 1-1-27 | 103,615.16 |
| | | | | \$ 310,845.48 |

DESCRIPTION OF FIREBOATS

HULL: Steel, Length 87'6": Beam 20'6": Draft, 6': Gross Tonnage, 76 Tons: Net Tonnage, 46 Tons: 3 Turrets: 12 gated 3-1/2" hose line connections.

PUMPING ENGINES: Two Hall Scott: 12 Cylinder 550 H.P. directly connected to 10" x 8" centrifugal pumps with capacity of 3500 G.P.M. each.

PROPULSION ENGINES: Two Hall Scott V 12 - 550 H.P. 2:1 reduction. Byron Jackson multi-stage 10" x 8" centrifugal pumps with capacity of 2750 G.P.M. each, clutch connected off front of propulsion engines.

RATED PUMPING CAPACITY: 12,500 G.P.M. @ 150 p.s.i.

EQUIPMENT ON LOAN

| Co.No. | Location | Make | Type | Motor or I.D. No. | Cost |
|--------|-------------------|------------|------------|-------------------|--------------|
| A-58 | City of Beaverton | Ahrens-Fox | 75' Aerial | 112440 | \$ 15,750.00 |

AUTOMOBILES

| Used By | Code No. | Make | Type | Motor or I.D. No. | Date Purchased | Cost |
|----------------------|----------|----------|------------|-------------------|----------------|-------------|
| Chief | F- 1 | Plymouth | 4-dr. Sed. | PE41F8D197943 | 2-16-68 | \$ 1,889.90 |
| Executive Officer | F-35 | Ford | 4-dr. Sed. | 9R31F148670 | 4-01-69 | 1,740.73 |
| Assistant Chiefs | F-13 | Ford | 4-dr. Sed. | OR28F140649 | 4-29-70 | 1,828.55 |
| District 1 Chief | F-17 | Plymouth | Sta. Wgn. | PL45N0D241581 | 5-25-70 | 2,596.66 |
| District 2 Chief | F- 5 | Plymouth | Sta. Wgn. | PE45G8D196946 | 2-16-68 | 2,480.30 |
| District 3 Chief | F-30 | Plymouth | Sta. Wgn. | P45H9D234081 | 3-10-69 | 2,496.00 |
| District 4 Chief | F-18 | Plymouth | Sta. Wgn. | PL45N0D241584 | 5-25-70 | 2,596.66 |
| Fire Marshal | F-14 | Ford | 4-dr. Sed. | OR28F140652 | 4-29-70 | 1,828.55 |
| Asst. Fire Marshal | F-33 | Ford | 4-dr. Sed. | 9R31F48666 | 4-01-69 | 1,740.73 |
| Chief Investigator | F-38 | Ford | 4-dr. Sed. | 9R31F148668 | 4-01-69 | 1,740.73 |
| Fire Investigator | F-37 | Ford | 4-dr. Sed. | 9R31F148667 | 4-01-69 | 1,740.73 |
| Fire Prevention | F- 6 | Plymouth | 4-dr. Sed. | PE41F8D197942 | 2-16-68 | 1,889.90 |
| Fire Prevention | F- 7 | Plymouth | 4-dr. Sed. | PE41F8D197941 | 2-16-68 | 1,889.90 |
| Fire Prevention | F-16 | Ford | 4-dr. Sed. | OR28F140666 | 4-29-70 | 1,828.55 |
| Fire Prevention | F-71 | Plymouth | 4-dr. Sed. | E-62226529 | 4-12-66 | 1,823.50 |
| Fire Prevention | F-72 | Plymouth | 4-dr. Sed. | E-62226528 | 4-12-66 | 1,823.50 |
| Fire Prevention | F-65 | Ford | 4-dr. Sed. | 5P54C154580 | 3-01-65 | 1,729.97 |
| Fire Prevention | F-76 | Plymouth | 2-dr. Sed. | E6222825 | 4-12-66 | 1,807.00 |
| Fire Prevention | F-77 | Plymouth | 2-dr. Sed. | E6222827 | 4-12-66 | 1,807.00 |
| Fire Prevention | F-80 | Plymouth | 2-dr. Sed. | E62226545 | 4-12-66 | 1,807.00 |
| Fire Prevention | F-89 | Plymouth | 4-dr. Sed. | PE41F74-178987 | 3-07-67 | 1,798.15 |
| Fire Prevention | F-90 | Plymouth | 4-dr. Sed. | PE41F74-223811 | 4-28-67 | 1,798.15 |
| Fire Prevention | F-92 | Plymouth | 2-dr. Sed. | PE21F74-175779 | 3-07-67 | 1,767.40 |
| Fire Prevention | F-93 | Plymouth | 2-dr. Sed. | PE21F74-175778 | 3-07-67 | 1,767.40 |
| Fire Prevention | F-98 | Plymouth | 4-dr. Sed. | PK41H80196980 | 2-16-68 | 2,287.55 |
| Fire Alarm Telegraph | F-15 | Ford | 4-dr. Sed. | OR28F140656 | 4-29-70 | 1,828.55 |
| Fire Alarm Telegraph | F-75 | Plymouth | 2-dr. Sed. | E6222826 | 4-12-66 | 1,807.90 |
| Training Division | F- 3 | Plymouth | 4-dr. Sed. | PE41F8D197945 | 2-10-68 | 1,889.90 |
| Training Division | F-86 | Ford | Sta. Wgn. | 7P7DH147862 | 4-28-67 | 2,231.35 |
| Apparatus Division | F- 2 | Plymouth | 4-dr. Sed. | PE41F8D197944 | 2-16-68 | 1,889.90 |
| Apparatus Division | F- 4 | Plymouth | Sta. Wgn. | PE45G8D196945 | 2-16-68 | 2,480.30 |
| Apparatus Division | F-29 | Plymouth | Sta. Wgn. | P45H9D23080 | 3-10-69 | 2,496.00 |
| Apparatus Division | F-36 | Ford | 4-dr. Sed. | 9R31F149618 | 4-01-69 | 1,740.73 |
| Apparatus Division | F-94 | Plymouth | 2-dr. Sed. | PE21F74178780 | 3-07-67 | 1,767.00 |
| Building Division | F-34 | Ford | 4-dr. Sed. | 9R31F151046 | 4-01-69 | 1,740.73 |
| Building Division | F-88 | Ford | Sta. Wgn. | 7P7DH147865 | 4-28-67 | 2,231.35 |
| | | | | | | \$70,608.22 |

SERVICE TRUCKS

| Location | App. No. | Make | Type | Motor or I.D. No. | Date Purchased | Cost |
|----------------------|----------|---------------|---------------------|-------------------|----------------|-------------|
| Fire Alarm Telegraph | F-12 | Ford | 8 Yd. Dump truck | F50V4R21206 | 11-03-54 | \$ 2,650.36 |
| Fire Alarm Telegraph | F-28 | GMC | Panel Delivery Van | P2502-N1352B | 6-01-60 | 3,385.94 |
| Fire Alarm Telegraph | F-84 | Ford | Delivery Van | F50-BRB28365 | 6-13-67 | 3,300.15 |
| Fire Alarm Telegraph | F- 8 | Chevrolet | 3/4 Ton pickup | CS248Z158598 | 7-25-68 | 2,195.42 |
| Fire Alarm Telegraph | F-48 | GMC | Aerial Ladder truck | V4005-F19594E | 6-01-65 | 10,493.46 |
| Fire Alarm Telegraph | F-49 | International | Aerial Ladder truck | SB11805E | 8-09-60 | 6,167.90 |
| Building Division | F-10 | Chevrolet | 3/4 Ton pickup | CS248Z158554 | 7-25-68 | 2,512.39 |
| Building Division | F-23 | Chevrolet | 1/2 Ton pickup | 816639F255X | 11-14-55 | 2,169.95 |
| Building Division | F-32 | International | Metro Van | AM120-M12899A | 6-30-59 | 2,781.00 |
| Building Division | F-82 | Ford | Econoline Van | E16AH847885 | 6-14-66 | 2,419.77 |
| Building Division | F-85 | Ford | Panel | E50BR28364 | 7-25-67 | 2,480.00 |
| Building Division | F-96 | GMC | 1/2 Ton flat bed | B22811-2417 | 1-09-42 | 1,025.00 |
| Building Division | F-97 | Dodge | Step Van | 1982153984 | 7-25-68 | 2,437.10 |
| Apparatus Division | F- 9 | Chevrolet | 3/4 Ton pickup | CS248Z158573 | 7-25-68 | 2,195.42 |
| Apparatus Division | F-52 | Chevrolet | 2 Ton flat bed | 6UKL046 | 5-13-63 | 900.00 |
| Apparatus Division | F-81 | Ford | 3/4 Ton utility | F254K858406 | 9-07-66 | 3,511.89 |
| Communications Vans: | | | | | | |
| District 1 Eng. 5 | F-41 | International | 1/2 Ton Metro van | BD220507663 | 12-27-57 | 3,790.26 |
| District 2 Eng. 21 | F-42 | International | 1/2 Ton Metro van | BD220507673 | 12-27-57 | 3,790.26 |
| District 3 Eng. 14 | F-43 | International | 1/2 Ton Metro van | BD22057642 | 12-27-57 | 3,790.26 |
| District 4 Eng. 20 | F-44 | International | 1/2 Ton Metro van | BD22057630 | 12-27-57 | 3,790.26 |
| District 4 Eng. 7 | F-45 | International | 1/2 Ton Metro van | BD220507644 | 12-27-57 | 3,790.26 |
| | | | | | | \$69,577.05 |

OLD STEAM ENGINES NOT IN USE

| Location | Make | Class | Gallon Capacity | Dept. No. | Factory No. |
|-----------------------|-------------------|-----------|-----------------|-----------|-------------|
| State Game Commission | American LaFrance | 3rd Class | 600 | 216 | 3121 |
| Engine 21 | Amoskeg | 4th Class | 260 | 325 | 213 |

INVENTORY

6-30-71

REAL ESTATE - LAND & BUILDINGS

| | | |
|-------------------------------|----|-----------------|
| Fire Stations - Double | 11 | \$ 2,047,676.12 |
| *Fire Stations - Single | 16 | 990,035.13 |
| Drill Tower | | 34,585.94 |
| Fire Alarm Telegraph | | 399,381.08 |
| Fire Alarm Telegraph Whse. | | 52,053.86 |
| Maintenance Shop - Automotive | | 21,386.18 |
| Pump School Building | | 7,393.54 |
| Reserve Station (Old E-17) | | 20,613.94 |
| Proposed Station Eng. 1 | | 5,028.37 |

(Land Only)

\$ 3,578,154.06

MOBILE EQUIPMENT

| | Active | Reserve | |
|-----------------------------|--------|---------|--------------|
| Automobiles | 36 | | \$ 70,608.22 |
| Pumpers | 26 | 6 | 686,460.93 |
| Ladder Trucks | 10 | 3 | 534,920.11 |
| Manifolds | 4 | | 63,055.30 |
| Compressors | 1 | | 15,701.68 |
| Quads | 2 | 1 | 57,014.89 |
| Squad | 1 | | 15,208.00 |
| Rescue Units | 3 | | 27,302.20 |
| Truck-Water Tankers | 3 | | 63,347.97 |
| Truck-Gasoline | 1 | | 2,275.00 |
| Trucks-Chemical | 1 | | 9,000.00 |
| Trucks-Maintenance | 16 | | 50,625.75 |
| Compressor-Maintenance | 1 | | 1,025.00 |
| Hose & Booster Wagon | | 1 | 17,130.45 |
| Panels - Communication Vans | 5 | | 18,951.30 |
| Jeeps | 2 | | 327.00 |
| Fireboats | 2 | 1 | 310,845.48 |
| Fireboat Tender | 1 | | 11,100.24 |
| Equipment on Loan | 1 | | 15,750.00 |
| | 116 | 12 | |

1,970,649.52

Estimated Cost of Equipment
& Furnishings

235,279.84

Estimated Cost of Fire Alarm
Cable, Overhead Lines, etc.

1,517,390.00

\$ 7,301,473.42

Total

*Includes 1 House Boat

FIRE HOSE STATUS

(as of June 30, 1971)

FIRE HOSE INVENTORY ACCORDING TO SIZE

| Size | Lengths | Feet |
|--------|---------|---------|
| 1-1/2" | 944 | 47,200 |
| 2-1/2" | 1,148 | 57,400 |
| 3" | 966 | 49,800 |
| 3-1/2" | 160 | 8,000 |
| TOTALS | 3,248 | 162,400 |

FIRE HOSE INVENTORY ACCORDING TO AGE

1-1/2" FIRE HOSE (944 lengths):

| Year Purchased | Over 10 Years | Under 10 Years | Percent of Total |
|----------------|---------------|----------------|------------------|
| 1953 | 9 | | .95% |
| 1961 | 42 | | 4.45% |
| 1963 | | 7 | .74% |
| 1964 | | 74 | 7.84% |
| 1965 | | 109 | 11.55% |
| 1966 | | 81 | 8.58% |
| 1967 | | 121 | 12.82% |
| 1968 | | 120 | 12.70% |
| 1969 | | 151 | 16.00% |
| 1970 | | 110 | 11.65% |
| 1971 | | 120 | 12.72% |
| TOTALS | 51 (5.40%) | 893 (94.60%) | 100.00% |

2-1/2" FIRE HOSE (1,148 lengths):

| Year Purchased | Over 10 Years | Under 10 Years | Percent of Total |
|----------------|---------------|----------------|------------------|
| 1957 | 80 | | 6.97% |
| 1958 | 59 | | 5.09% |
| 1962 | | 37 | 3.23% |
| 1963 | | 214 | 18.64% |
| 1965 | | 233 | 20.31% |
| 1967 | | 139 | 12.12% |
| 1968 | | 53 | 4.62% |
| 1969 | | 181 | 15.78% |
| 1970 | | 2 | .17% |
| 1971 | | 150 | |
| TOTALS | 139 (12.06%) | 1,009 (87.94%) | 100.00% |

FIRE HOSE INVENTORY ACCORDING TO AGE (cont)

3" FIRE HOSE (996 lengths):

| <u>Year Purchased</u> | <u>Over 10 Years</u> | <u>Under 10 Years</u> | <u>Percent of Total</u> |
|---------------------------|--------------------------|---------------------------|-----------------------------|
| 1960 | 71 | | 7.13% |
| 1962 | | 309 | 31.03% |
| 1964 | | 227 | 22.78% |
| 1967 | | 98 | 9.85% |
| 1968 | | 131 | 13.15% |
| 1970 | | 160 | 16.06% |
| TOTALS | 71 (7.13%) | 925 (92.87%) | 100.00% |

3-1/2" FIRE HOSE (160 lengths):

| <u>Year Purchased</u> | <u>Over 10 Years</u> | <u>Under 10 Years</u> | <u>Percent of Total</u> |
|---------------------------|--------------------------|---------------------------|-----------------------------|
| 1955 | 18 | | 11.30% |
| 1965 | | 21 | 13.10% |
| 1966 | | 40 | 25.00% |
| 1968 | | 81 | 50.60% |
| TOTALS | 18 (11.30%) | 142 (88.70%) | 100.00% |

DISTRIBUTION OF FIRE HOSE (Shown as lengths)
feet

| | <u>1-1/2"</u> | <u>2-1/2"</u> | <u>3"</u> | <u>3-1/2"</u> |
|----------------------------------------|----------------------|------------------------|----------------------|---------------------|
| Assigned to First Line Companies: | <u>662</u> 33,100 | <u>837</u> 41,850 | <u>773</u> 38,650 | <u>36</u> 1,800 |
| Assigned to Reserve Fire Companies: | <u>121</u> 6,050 | <u>201</u> 10,050 | <u>142</u> 7,100 | <u>87</u> 4,350 |
| In Reserve at Fire Hose Warehouse: | <u>97</u> 4,850 | <u>110</u> 5,500 | <u>81</u> 4,050 | <u>37</u> 1,850 |
| Used as Test Hose: | <u>7</u> 350 | | | |
| Used as Washdown Hose: | <u>47</u> 2,350 | | | |
| Assigned to Training Center: | <u>10</u> 500 | | | |
| TOTALS | <u>944</u> 47,200 | <u>1,148</u> 57,400 | <u>996</u> 49,800 | <u>160</u> 8,000 |

ACQUISITION AND DISPOSAL OF FIRE HOSE

NEW HOSE PURCHASED:

| <u>Date</u> | <u>Size</u> | <u>No. of Lengths</u> |
|-------------|-------------|-----------------------|
| 9-25-70 | 3" | 160 |
| 3-15-71 | 1-1/2" | 120 |
| 3-30-71 | 2-1/2" | 150 |

HOSE CONDEMNED AND REMOVED FROM FIRE BUREAU CONTROL:

| | | |
|------------------|---|-------------|
| 1-1/2" Fire Hose | : | 175 Lengths |
| 2-1/2" Fire Hose | : | 190 Lengths |
| 3" Fire Hose | : | 274 Lengths |
| TOTAL | : | 639 Lengths |

FIRE HOSE REPAIR

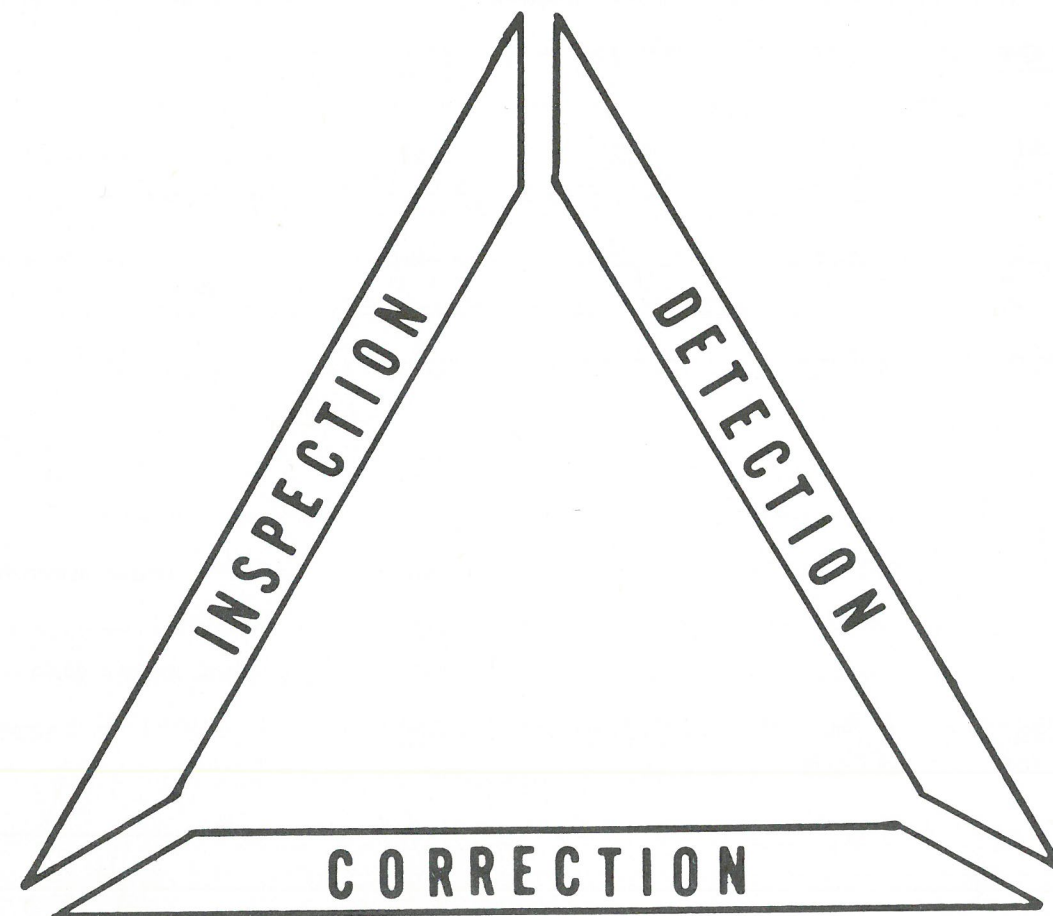
During the fiscal year, 44 lengths of assorted fire hose were repaired at the Municipal Shops at a total cost of \$404.00. An additional 17 lengths of assorted fire hose were repaired by the Fire Bureau, using the Stenor-Dart vulcanizer.

FIRE PREVENTION DIVISION

The Fire Prevention Division is responsible for the inspection and abatement of fire hazards, the enforcement of fire codes and ordinances, the examination of building plans for fire code compliance, the investigation of fire causes, and the conducting of an educational fire prevention program.)

The Division is headed by a Fire Marshal (Assistant Chief grade), assisted by an Assistant Fire Marshal (Battalion Chief grade). The Assistant Fire Marshal supervises the Inspection Section. Directly under him are two Senior Fire Inspectors (Captain equivalent), each in turn supervising seven district Fire Inspectors (Lieutenant equivalent). Five other Fire Inspectors are assigned to the specialized fields of building plans examination, sprinkler systems, flammable liquid installations, institutional occupancies, and schools.

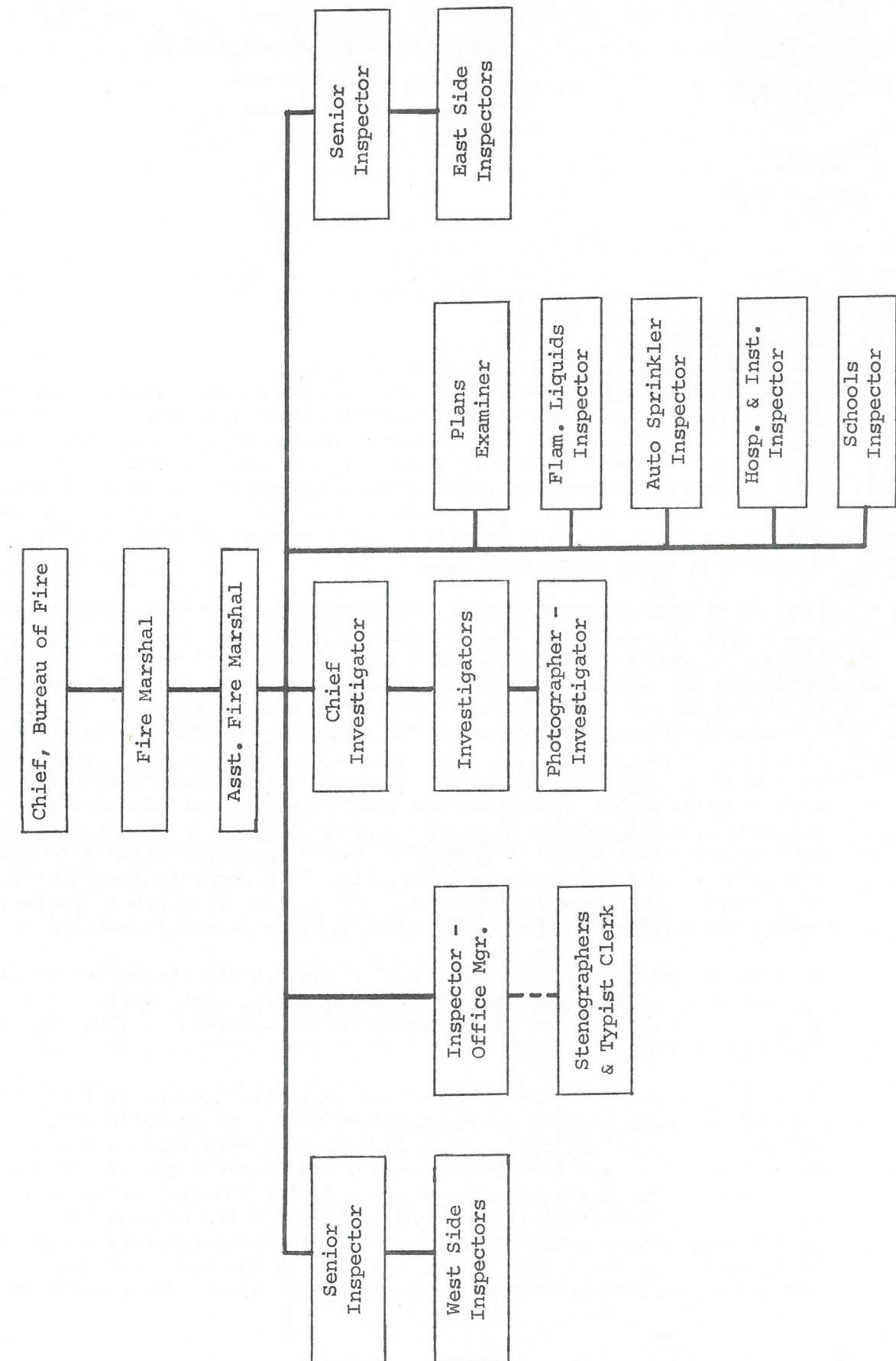
The Fire Investigation Section (Arson Squad) is headed by a Senior Fire Inspector (Captain grade) and includes four Fire Inspectors (Lieutenant equivalent) and two police officers on full time detail, one a Detective Sergeant and one a Detective.



PORTLAND FIRE BUREAU

FIRE PREVENTION DIVISION

PORTLAND, OREGON





CONNIE McCREADY
Commissioner

JAMES H. RIOPELLE
Chief

CITY of PORTLAND, OREGON

FIRE PREVENTION DIVISION

55 S.W. ASH STREET 97204

JAMES R. KERR, FIRE MARSHAL



Phone 228-6141
Ext. 485

Dear Chief Riopelle:

It was my privilege to attend the annual meeting and the fall conference of the National Fire Protection Association again this last year in order to provide our city with the latest available information in fire prevention knowledge and expertise. At these meetings, presenting the most informed and recognized specialists in fire prevention and fire suppression in the world, I was made quite aware that the depressing report which this letter presages is not unique but is indicative of the growing severity of the ravages of fire in cities throughout our country and most of the globe.

The one glimmer of hope is that fire losses are reaching such staggering proportions both in human life and in property loss that industrialists, insurance officials, investors and responsible legislators, nation-wide, are beginning to recognize the absolute necessity for newer, tougher building laws requiring built-in fire detection and suppression systems, controlled levels of combustible loading and firm, uniform enforcement by properly educated professional inspectors.

Our local experience in an expanding city, a shrinking fire bureau striving to cope with greater responsibilities, and the soaring dollar value of every square foot of building that goes up in flames is a prime example, made graphic by the statistics hereinafter revealed, of the need for a new approach to the fire problem that is repeated in nearly every major city. Our fire and fire loss statistics are reports of data from the State Fire Marshal's data processing system presented in the same format for the third consecutive year to maintain continuity.

We experienced a one year increase of 6 per cent in the number of alarms which totaled 9,271 and 11 per cent in fire loss which reached an estimated total of \$5,582,162 or \$14.67 per capita based on a population of 380,640, an increase of \$1.35 per person from last year.

Even more shocking is the fact that of this five and one half million dollar fire loss 65 per cent is from fires caused by arson and probable arson. Of the six largest fires, all in excess of \$150,000, five were arson and the sixth probably so with a total loss in the six fires of three and a quarter million dollars. It is difficult for me to comprehend how a public who can become so incensed and wrought up over the questionable injustice of a few bruises in a confrontation can so placidly accept such figures as the above which comprise a much more drastic infringement on the rights of the individuals who have lost their jobs, their homes and their personal belongings from malicious, wanton destruction by fire.

The 1,022 false alarms we were called on to answer constituted 11 per cent of all alarms received. Aggravating and crippling though this is, our efforts to discourage false alarms must have some effect because reports from other cities reveal a false alarm incidence of 40 per cent and more, in some instances.

Portland suffered 24 deaths from fire last year and it particularly grieves me to report that eight of these were children, all but one of whom were less than seven years old. All of the children died in dwelling fires, nine of the adults in dwellings, two in apartments, one in a nursing home, one as the result of an auto accident, and three from an industrial furnace explosion.

Of our fire loss last year, \$170,265 was caused by juveniles. Two hundred twenty juveniles were apprehended, nineteen of whom were convicted and one hundred ninety-two remanded to their parents.

District fire inspectors from this office made 27,008 routine and special inspections in which 11,502 hazards and code violations were noted and corrected. Inspector specialists made 1,744 inspections of hospitals, institutions, schools and similar occupancies.

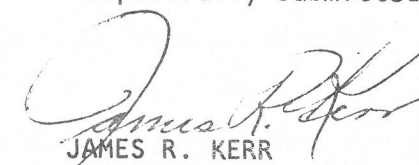
The Fire Code Board of Appeal convened once during the year to hear an appeal by an apartment house developer on a directive from the Fire Marshal.

An in-depth study of the figures that will be released from the office of the State Fire Marshal will inevitably show discrepancies with the tabulations herein presented. This is partly due to specific cut-off dates for data recorded by the State Fire Marshal and partly due to the fact that this report attempts to present a factual summation of all losses, insured and uninsured, rather than only those insured risk losses reported by insurance companies.

Although the long overdue increase in assignment of personnel to our arson staff, including two very capable police detectives, was only in effect for the last half of the year, the sharp increase in interviews, interrogations and apprehensions of suspects encourage me to believe that this endeavor will be most productive. I am proud to report that each member of this office is industrious, capable and loyal, as the statistics can only partly reveal.

I must express my appreciation of the complete and harmonious cooperation of the city building, electrical, plumbing, and health inspectors; plans examiners and engineers; the city attorney's office, water bureau, city engineers, planning commission and the many other city and county agencies with whom we have had contact. Our Commissioner has given us unqualified support in our efforts to reduce the ravages of fire.

Respectfully submitted,


JAMES R. KERR
Fire Marshal

INSPECTIONS



534 Sprinkler Systems Inspected



4 Flammable Liquid Storage &
140 Gasoline Tanks Inspected



836 Schools Inspected



678 Hospitals &
Institutional Homes Inspected

3,210 Building
Plans Examined



19 Propane Installations &
416 Oil Burners Inspected

336 Fire Prevention
Lectures



SUMMARY OF INSPECTION WORK

Calendar Year 1970

| | |
|----------------------------------------------------------------------------------------------------|-------------------|
| Total Number of District Fire Inspections | 20,675 |
| Special Inspections (Complaints) | 6,333 |
| Total Number of Violations or Hazards Noted | 13,927 |
| Total Number of Abateements or Corrections | 11,502 |
| Hospital and Institutional Home Inspections | 678 |
| Theaters Inspected | 110 |
| Clubs and Other Places of Public Assembly (Night Inspections) | 120 |
| Schools Inspected, College, Nursery, Public and Parochial . . | 836 |
| Fire Prevention Lectures | 336 |
| Fire Exit Drills | 1,554 |
| Fire Marshal Permits | 1,560 |
| Certificates of Fitness | 356 |
| Oil Burning Equipment Installations, Permits and Inspections | 416 |
| Gasoline Tank and Pump, Permits and Inspections | 140 |
| Bulk Oil Storage Applications Processed for Council Action and Permitted by Ordinance | 4 |
| Revenue from Fees: | |
| All Permits, Fire Reports, Etc. | \$9,564.46 |
| Bulk Oil Storage | 400.00 |
| | <u>\$9,964.46</u> |
| Licenses - Inspection for Approval | 609 |
| Plans Examined and Approved by Fire Marshal Plans Examiner: | |
| New Construction and Alterations | 3,210 |
| Propane Permits and Installations | 19* |

(*Actual number of permits issued. Does not include any extra inspections.)

SUMMARY OF FIRE ALARMS

Calendar Year 1970

| | |
|----------------------------------------------------------|--------------|
| Incidents in Buildings | 1,226 |
| Fires in Buildings (by construction) | |
| Type I and II (fire resistive, noncombustible) | 33 |
| Type III (masonry walls, 1-hour combustible) | 166 |
| Type IV (metalclad) | 13 |
| Type V (frame) | 1,014 |
| Incidents Other Than Buildings | 8,045 |
| Mobile Stock Fires | |
| Auto Fires | 755 |
| Trucks, general | 45 |
| Vehicles, public | 3 |
| Other vehicles | 27 |
| Railroad cars | 6 |
| Boats and Ships | 5 |
| Grass, Trash, Brush and Bonfires, etc. | 1,582 |
| Outside - Mutual Aid | 283 |
| First Aid | 1,189 |
| False Alarms | 1,022 |
| Wash Downs | 410 |
| Smoke or Steam Scares | 743 |
| Accidental or Defective Alarms | 218 |
| Mistaken Alarms | 251 |
| Railroad Right-of-Way | 64 |
| Explosion | 2 |
| Bomb Scare | 1 |
| Other Public Service | 1,439 |
| Total Calls | <u>9,271</u> |

| ALARMS RECEIVED | | GREATER ALARMS | |
|-----------------|--------------|----------------|-----------|
| Box | 1,107 | 2nd Alarms | 11 |
| Telephone | 7,663 | 3rd Alarms | 7 |
| Still | 370 | 4th Alarms | 4 |
| ADT | 91 | 5th Alarms | 0 |
| Radio | 40 | | |
| Total | <u>9,271</u> | Total | <u>22</u> |

SUMMARY OF FIRE ALARMS

Calendar Year 1970

VALUES INVOLVED IN FIRE

| | |
|-------------------------------------------|----------------------|
| Total Value of Buildings | \$181,826,440 |
| Total Value of Contents | 42,037,050 |
| Total Value of Equipment | 16,635,803 |
| TOTAL | <u>\$240,499,293</u> |
| Total Loss of Buildings | \$ 3,140,542 |
| Total Loss of Contents | 2,027,001 |
| Total Loss of Equipment | 414,619 |
| TOTAL | <u>\$ 5,582,162</u> |
| Total Insurance on Buildings | \$ 1,820,550 |
| Total Insurance on Contents and Equipment | 447,500 |
| TOTAL | <u>\$ 2,268,050</u> |

NOTE: Some of the above figures are obtained from State Fire Marshal's data and Insurance Commissioner's Reports and may not agree with other annual reports due to differences in report cut-off dates.

The Fire Investigation and Arson Squad, a Section of the Fire Prevention Division, is headed by a Senior Fire Inspector (Captain equivalent). Fire Investigators from this Squad investigate all fires where the cause is incendiary, undetermined or of a suspicious nature; all fire deaths; fires involving gas or explosives; and false alarms involving the detention or arrest of suspects.

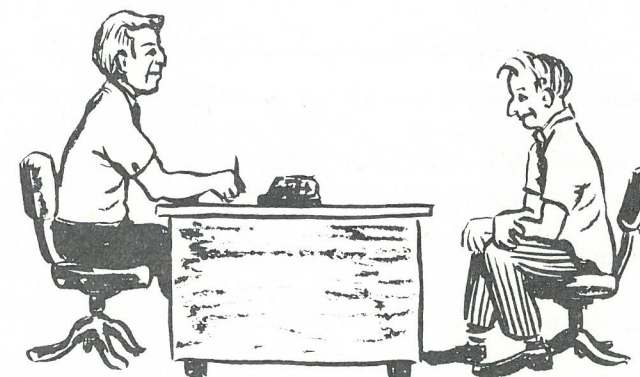
Reports prepared as a result of any of the above circumstances are carefully reviewed and analyzed for determination of criminal activities and/or needed changes in fire prevention methods or procedures. All cases of a criminal nature where the person or persons responsible are known, are reviewed with the District Attorney's office for possible prosecution.

On July 1, 1970 the Fire Investigation and Arson Squad was enlarged and realigned to combat the noticeable increase in the rate of arson fires. Two police officers from the Portland Police Bureau, one a Detective Sergeant and one a Detective, were added to the squad on a full time basis. One additional Fire Inspector was transferred from fire prevention duties to investigation duties and the Fire Bureau photographer was assigned to assist the team. Thus, the Senior Fire Inspector, with the title of Chief Fire Investigator, has under his supervision one Fire Investigator, one Photographer, and two detectives on a 40-hour week assignment, plus three fire investigators, each working one of the three 24-hour Fire Bureau shifts. This manning arrangement has resulted in close coordination of this Squad's activities from fire occurrence through prosecution proceedings.

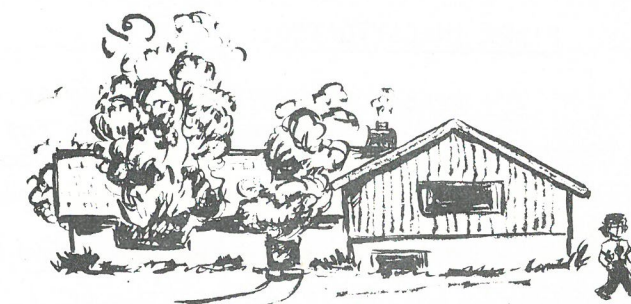
The assigned police detectives have a primary duty of follow-up investigation after a fire is determined to be of incendiary nature. An added benefit of this police-fire manning combination has been the successful apprehension and conviction of several burglars where burglaries were co-mingled with arson.

Although it might be premature, at this early stage, to weigh all the direct results of the increased staffing of the Arson Squad, it is felt that more thorough and effective arson investigations are now being made and more effective cases are being presented to the District Attorney for possible prosecution. The eventual results are expected to attest to the wisdom of combining this fire-police team.

INVESTIGATIONS



5,652 Interviews & Interrogations
Conducted



430 Arson Fires Investigated



654 Fires Investigated



220 Juveniles & 28 Adults Apprehended
For Fire Setting

REPORT OF FIRE INVESTIGATOR
January 1, 1970 - December 31, 1970

FIRES INVESTIGATED:

| | | |
|-------------------------------------------------------------------------------------|-------|-----|
| Arson, Probable Arson and Attempted Arson (where department responded) | 430 | |
| Juveniles With Fire (where department responded) | 200 | |
| Fires Investigated With Cause Unknown | 24 | 654 |
| Fires Investigated and Found Not Incendiary | 160 | |
| Interviews and Interrogations by Investigators . . . | 5,652 | |

INCENDIARY, SUSPICIOUS AND JUVENILE LOSS BY CAUSE:

| | |
|---------------------------------------------------|-------------|
| Arson, Probable Arson and Undetermined Suspicious | \$3,625,455 |
| Juvenile-Caused Fires (all types) | \$ 170,265 |
| | \$3,795,720 |

PERSONS APPREHENDED FOR FIRE SETTING OR INSURANCE FRAUD:

| | | |
|----------------------------------|-----|-----|
| Juvenile With Fire | 185 | |
| Juvenile Arson | 35 | |
| Arson (adults over 18) | 28 | 248 |

DISPOSITION OF INDIVIDUALS APPREHENDED:

| | | |
|------------------------------------------------------|-----|-----|
| Persons Convicted and/or Committed For Arson | 35 | |
| Juveniles (7 to 18 years) | 19 | |
| Adults (over 18 years) | 16 | |
| Remanded to Parents (juveniles) | 192 | 227 |

DISPOSITION OF ADULTS:

| | |
|------------------------------------------|----|
| Awaiting Trial | 2 |
| Convicted, Placed On Probation | 4 |
| Three on 3 years probation | |
| One on 5 years probation | |
| Convicted and Sentenced | 11 |
| 1 - 3 years = 3 | |
| 3 - 5 years = 1 | |
| 10 years = 6 | |
| Life = 1 | |

REPORT OF FIRE INVESTIGATOR
January 1, 1970 - December 31, 1970

DISPOSITION OF ADULTS (continued):

| | | |
|----------------------------------------------------|---|----|
| Committed to State Hospital | 4 | |
| Not True Bill by Grand Jury | 2 | |
| Dismissed by District Attorney | 1 | |
| Parole Revoked - Transferred to Washington State . | 1 | |
| Reduced to Burglary | 1 | |
| Reduced to Drunk | 1 | |
| Dismissed by Circuit Court Judge | 1 | 28 |

FALSE ALARMS:

| | |
|-----------------------------------------------|-------|
| Total Number of False Alarms | 1,022 |
| Total False Alarms Cleared | 57 |
| Total Number of Persons Apprehended | 38 |

DISPOSITION OF INDIVIDUALS INVOLVED IN FALSE ALARMS:

| | | |
|--------------------------------------------------|----|----|
| Adults Arrested | 5 | |
| Juveniles: Referred to Juvenile Division | 6 | |
| Remanded to Parents | 27 | 38 |

FIRE DEATHS

Calendar Year 1970

1. ALICE EDITH MARTIN, 40, died January 4, 1970 of smoke inhalation and burns in her apartment at 2066 N. W. Overton. CAUSE: Smoker's carelessness.
2. GLADYS E. HUGHES, 54, died February 20th of burns to 60 % of her body in a dwelling fire at 7933 S. E. 92nd, occurring January 9th. CAUSE: Combustibles near a floor furnace.
3. THERON D. BEVERIDGE, 65
4. EDNA M. BEVERIDGE, 63, both died March 3rd of smoke inhalation in a dwelling fire at 8038 S. E. Reedway. CAUSE: Smoker's carelessness.
5. ARTHUR H. FARRIER, 86, died March 18th of burns to 70 % of his body sustained in a fire occurring March 14th in his apartment at 2430 N. W. Marshall. CAUSE: Smoker's carelessness.
6. RONALD CUNNINGHAM, 29, died April 2nd of burns received in a furnace explosion at a mill located at 5200 N. W. Front; incident occurring March 31st. CAUSE: Furnace explosion.
7. GERALD SOLDAHL, 45, died April 8th. (See above mill furnace explosion.)
8. SHAWN MC CRAY, 3
9. SHIRLEY MC CRAY, 6, both died May 9th of smoke inhalation and carbon monoxide poisoning in a fire in their dwelling at 4826 N. E. 12th. CAUSE: Juvenile playing with fire.
10. MATTIE BURTON, 73, died May 1st of burns sustained to the inside of her mouth and throat in an incident occurring at her home at 907B N. E. Going on April 28th. CAUSE: Carelessness with a gas range.
11. DONALD BAKER, 36, died May 4th. (See above mill furnace explosion, deaths 6 and 7.)
12. ALMA LESLIE, 73, died July 2nd of burns sustained in an incident occurring at her home at 445 N. E. Sacramento on June 28th. CAUSE: Accidental ignition of clothing, after spilling lighter fluid on same.

FIRE DEATHS

Calendar Year 1970

13. PETER WILEY, 14, died August 13th of burns to 70 % of his body in a dwelling fire at 1536 S. W. Clay, occurring August 11th. CAUSE: Candle too close to combustibles.
14. KATHERINE E. KRIEGER, 76, died of smoke inhalation and carbon monoxide poisoning from a fire in her residence at 3977 N. E. 6th on September 21st. CAUSE: Arson.
15. WESLEY JAMES PETERSON, 32, died in an auto fire at N. E. 39th and the Banfield Freeway on September 27th. CAUSE: Sparks igniting gasoline following one car wreck.
16. HILDRED MC KEE, 61, died September 4th of bronchopneumonia and burns to over 40 % of her body from a fire occurring July 28th at the St. Joseph's Nursing Home on S. E. 30th and Stark. CAUSE: Smoker's carelessness.
17. TENA ANNA WILLIAMS, 82, died September 30th of burns received to her entire body in a fire at her home at 7216 S. E. 19th on September 27th. CAUSE: Smoker's carelessness.
18. MICHAEL KASMARK, 3
19. TROY KASMARK, 2, both died October 23rd of smoke inhalation and burns in a dwelling fire at 4330 S. E. 64th. CAUSE: Juvenile playing with fire.
20. FRANCIS MARY HYATT, 58, died November 5th of smoke and carbon monoxide asphyxiation in a dwelling fire at 2730 S. W. Fern. CAUSE: Apparent smoker's carelessness.
21. TERESA ANN KING, 4
22. STEVEN ANTHONY KING, 2, both died November 14th of carbon monoxide asphyxiation in a dwelling fire at 2723 S. E. 15th. CAUSE: Arson.
23. KIMBERLY LYNN SHOEMAKE, 4, died December 18th of smoke inhalation in a dwelling fire at 8932 N. E. Davis. CAUSE: Probable smoker's carelessness.
24. PEARL J. HIRSTELL, 82, died December 16th of burns received to 45 % of her body in a dwelling fire at 1331 N. E. Knott, occurring December 4th. CAUSE: Probable defective electric heating pad.

BUILDING INCIDENTS BY CAUSE
Calendar Year 1970

| | Number of Calls |
|--------------------------------------------------------------|--------------------|
| <u>Heating Equipment</u> | |
| Chimney or Flue | 34 |
| Electric Heater (portable) | 4 |
| Electric Heater (wall) | 19 |
| Fireplace | 20 |
| Furnace or Stove (gas) | 10 |
| Furnace or Stove (hard fuel) | 6 |
| Furnace or Stove (oil) | 30 |
| Furnace or Stove Pipes | 3 |
| Gas Range or Stove | 6 |
| Gas Water Heater | 6 |
| Gas Dryer | 1 |
| Oven Heating or Bake Oven | 1 |
| Overheated Kettle | 20 |
| Space Heaters (gas) | 2 |
| Steam Pipes | 1 |
| Other Heating Equipment (not defined) | 2 |
| Total | 165 |
| <u>Human Elements</u> | |
| Candles | 19 |
| Children with Fire or Matches | 200 |
| Matches (other than children) | 5 |
| Smoking (cigarette, cigar, etc.) | 300 |
| Torch (cutting or welding) | 12 |
| Incendiary | 285 |
| Total | 821 |
| <u>Electrical - Other Than Heating</u> | |
| Electric Appliance (small portable) | 7 |
| Electric Pad or Blanket | 13 |
| Electric Dryer | 10 |
| Electric Fixture (outlet plugs, receptacles, etc.) | 2 |
| Electric Iron | 2 |
| Electric Light Bulb or Lamp (lighting fixtures) | 7 |
| Electric Motor | 5 |
| Radio (short circuit in) | 2 |
| Refrigerator and Compressor Motors | 1 |
| Electric Range | 17 |
| Television (short circuit in) | 15 |
| Wire (short circuit or arc in) | 46 |
| Wire (short circuit to ground) | 12 |
| Ballasts | 3 |
| Miscellaneous Electrical Appliances (non-portable) | 6 |
| Total | 148 |

BUILDING INCIDENTS BY CAUSE
Calendar Year 1970

| | Number of Calls |
|------------------------------------------------------|--------------------|
| <u>Miscellaneous Fires</u> | |
| Bonfire (extended to buildings) | 3 |
| Explosion (fireworks, bombs, etc.) | 7 |
| Friction (other than auto) | 4 |
| Fuses | 4 |
| Incinerator (extended to buildings) | 7 |
| Hot Ashes | 7 |
| Open Flame | 4 |
| Molten Metal | 6 |
| Sparks From Machinery (running) | 6 |
| Spontaneous Ignition (chemical action) | 4 |
| Spontaneous Ignition (drying or oxidation) | 6 |
| Tar Pot or Kettle (overheated or burning) | 2 |
| Miscellaneous | 6 |
| Undetermined Source of Ignition | 24 |
| Static Charge | 2 |
| Total | 92 |
| TOTAL BUILDING INCIDENTS BY CAUSE | <u>1,226</u> |

BUREAU RESPONSE BY OCCUPANCY

Calendar Year 1970

| <u>Public Assembly Properties</u> | <u>Total Calls</u> |
|------------------------------------------------|------------------------|
| ✓ Amusement Centers | 9 ✓ |
| ✓ Art Galleries | 1 ✓ |
| ✓ Churches and Chapels | 4 ✓ |
| ✓ City Clubs | 6 ✓ |
| ✓ Night Clubs and Taverns | 9 ✓ |
| ✓ Restaurants | 23 ✓ |
| ✓ Theaters | 3 ✓ |
| Total | 47 |
| <u>Educational Properties</u> | |
| ✓ Colleges or Universities | 7 ✓ |
| ✓ Elementary Schools | 7 ✓ |
| ✓ High Schools | 9 ✓ |
| Total | 23 |
| <u>Institutional Properties</u> | |
| ✓ Nursing Homes | 5 ✓ |
| ✓ Hospitals and Sanitariums | 7 ✓ |
| Total | 12 |
| <u>Residential Properties</u> | |
| ✓ Apartments (three to twenty units) | 173 ✓ |
| ✓ Dormitories | 4 ✓ |
| ✓ Dwellings | 462 ✓ |
| ✓ Hotels | 38 ✓ |
| ✓ Mobile Homes and Camp Trailers | 7 ✓ |
| ✓ Motels | 2 ✓ |
| ✓ Other Residential Properties | 5 ✓ |
| Total | 691 |

BUREAU RESPONSE BY OCCUPANCY

Calendar Year 1970

| <u>Mercantile Properties</u> | <u>Total Calls</u> |
|---------------------------------------------|------------------------|
| Food Beverage Sales | |
| ✓ Markets or Groceries | 6 ✓ |
| ✓ Supermarkets | 11 ✓ |
| Textile | |
| ✓ Clothing Stores | 8 ✓ |
| ✓ Shoe Stores | 1 ✓ |
| ✓ Shoe Repair | 2 ✓ |
| Household Goods | |
| ✓ Furniture Stores | 1 |
| ✓ Music Stores | 1 |
| ✓ Wallpaper and Paint Stores | 1 |
| Specialty Shops | |
| ✓ Books and Stationery Stores | 1 |
| ✓ Drug Stores | 2 ✓ |
| Recreation and Hobby Supply | |
| ✓ Pet Stores and Animal Hospitals | 2 ✓ |
| Specialty Service | |
| ✓ Barber and Beauty Shops | 3 ✓ |
| ✓ Laundries (self-service) | 18 ✓ |
| ✓ Trade Supply Sales | 1 |
| Motor Vehicles - Boats, Sales and Service | |
| ✓ Motor Vehicle and Trailer Sales | 2 ✓ |
| ✓ Motor Vehicle Repair | 7 ✓ |
| ✓ Public Service Stations | 8 ✓ |
| General Item Stores | |
| ✓ Department Stores | 8 ✓ |
| ✓ Variety Stores | 2 ✓ |
| Total | 85 |

BUREAU RESPONSE BY OCCUPANCY

Calendar Year 1970

| | Total Calls |
|------------------------------------------------------------------------------------|----------------|
| <u>Office, Laboratory, Communications, Utility and Raw Material Properties</u> | |
| Office | |
| 2 General Business Offices | 34 ✓ |
| 6 Banks | 2 ✓ |
| 6 Medical Offices | 2 ✓ |
| Total | 38 |
| <u>Manufacturing</u> | |
| Food | |
| 5 Bakery Products | 5 ✓ |
| 6 Meat Preparation | 2 ✓ |
| 6 Breweries | 1 |
| 6 Grain Mill Products | 1 |
| Textiles | |
| 6 Knitting Mills | 2 ✓ |
| Footwear - Wearing Apparel | |
| 4 Textile Goods | 4 ✓ |
| 5 Rubber Products | 5 ✓ |
| Wood - Furniture - Paper - Printing | |
| 6 Paper Products | 2 ✓ |
| 6 Printing and Publishing | 3 ✓ |
| 6 Wood Products | 12 ✓ |
| 6 Sawmills | 6 ✓ |
| Chemical - Petroleum | |
| 6 Asphalt Products | 2 ✓ |
| 6 Chemical | 1 |
| 6 Paints and Varnishes | 2 ✓ |
| Metal Products | |
| 6 Basic Iron and Steel | 13 ✓ |
| 6 Basic Metal | 11 ✓ |
| 6 Machinery | 6 ✓ |
| 6 Electrical Appliances | 3 ✓ |

BUREAU RESPONSE BY OCCUPANCY

Calendar Year 1970

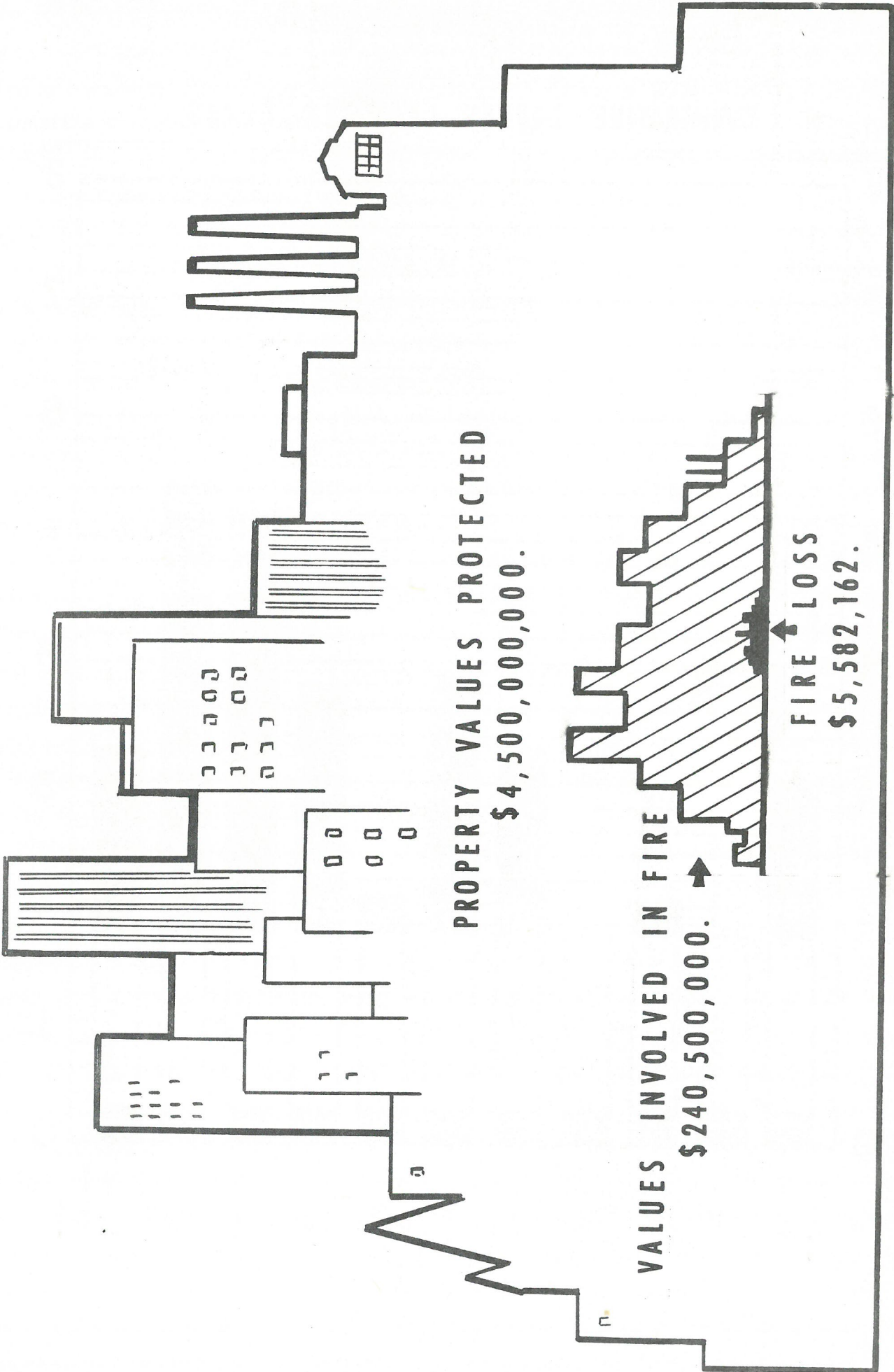
| | Total Calls |
|---------------------------------------------------|----------------|
| <u>Manufacturing - Continued</u> | |
| 5 Transport Equipment Motor Vehicles | 2 ✓ |
| Other Manufacturing | |
| 4 Laundry and Dry Cleaning Plants | 5 ✓ |
| 6 Instruments | 1 |
| 6 Unclassified | 1 |
| Total | 90 |
| <u>Storage Properties</u> | |
| 5 Silage | 2 ✓ |
| 6 Agricultural | 4 ✓ |
| 5 Barns | 3 ✓ |
| 6 Leather Products | 1 |
| 6 Foodstuffs | 1 |
| 5 Flammable Liquid | 2 ✓ |
| 5 Wood Products | 2 ✓ |
| 2 Other, Unclassified (Turn, etc.) | 2 ✓ |
| 6 Chemicals | 33 ✓ |
| 6 Rubber Products | 1 |
| 6 Junkyards | 1 |
| 2 Garages (private) | 57 ✓ |
| 6 Garages (general) | 1 |
| 5 Railroad | 2 ✓ |
| 3 General Warehouse | 12 ✓ |
| 3 Goodwill Dropboxes | 18 ✓ |
| 2 Sheds | 27 ✓ |
| Unoccupied and Construction Properties | |
| 3 Buildings Under Construction | 6 |
| 6 Buildings Under Demolition | 1 |
| 2 Vacant Properties | 57 |
| Total | 232 |
| TOTAL RESPONSE BY OCCUPANCY | <u>1,226</u> |

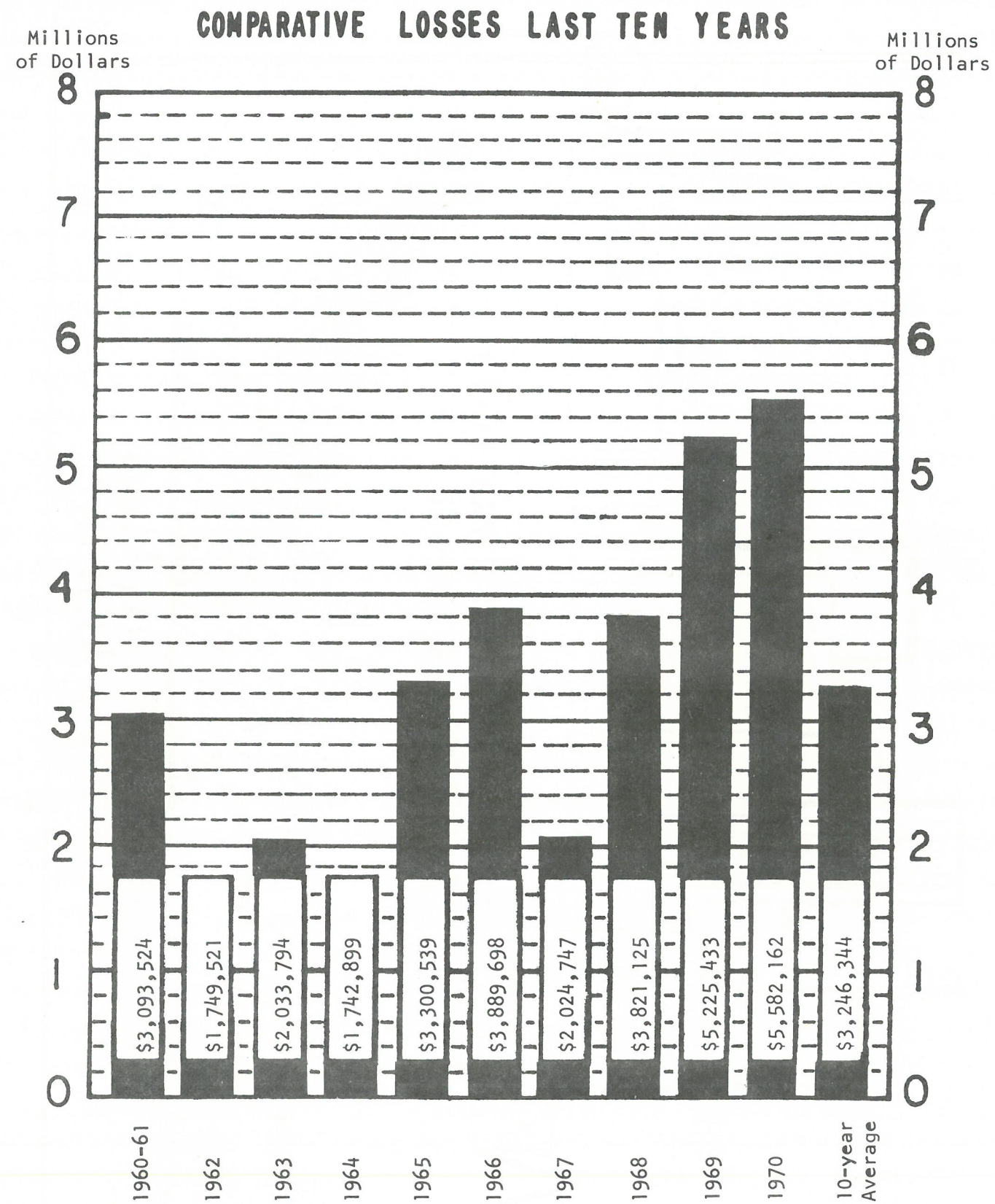
NUMBER OF BUILDING FIRES PER RANGE OF LOSS

Calendar Year 1970

| <u>1970</u> | <u>Under</u> <u>\$ 999</u> | <u>\$1,000</u> <u>to</u> <u>\$2,499</u> | <u>\$2,500</u> <u>to</u> <u>\$9,999</u> | <u>\$10,000</u> <u>to</u> <u>\$99,999</u> | <u>\$100,000</u> <u>to</u> <u>\$499,999</u> | <u>Over</u> <u>\$500,000</u> | <u>Total</u> |
|-------------|-------------------------------|-----------------------------------------------|-----------------------------------------------|-------------------------------------------------|---------------------------------------------------|---------------------------------|--------------|
| January | 54 | 7 | 14 | 4 | - | - | 79 |
| February | 55 | 8 | 10 | 3 | - | - | 76 |
| March | 78 | 12 | 6 | 2 | - | - | 98 |
| April | 63 | 13 | 10 | 4 | 1 | 1 | 92 |
| May | 77 | 11 | 17 | 4 | 1 | - | 110 |
| June | 74 | 15 | 14 | 4 | - | 1 | 108 |
| July | 88 | 8 | 12 | 1 | 1 | - | 110 |
| August | 92 | 11 | 12 | 1 | 1 | - | 117 |
| September | 79 | 10 | 14 | 6 | - | - | 109 |
| October | 89 | 14 | 12 | 3 | - | - | 118 |
| November | 69 | 11 | 13 | 4 | - | - | 97 |
| December | <u>90</u> | <u>11</u> | <u>9</u> | <u>2</u> | <u>-</u> | <u>-</u> | <u>112</u> |
| TOTAL | 908 | 131 | 143 | 38 | 4 | 2 | 1,226 |

TOTAL BUILDING FIRES WITH LOSS ----- 1,226





LOSSES WHERE FIRE DEPARTMENT WAS NOT CALLED

Calendar Year 1970

| | | No. of Unreported Fires | Approx. Amount of Loss |
|----------------------------------------------|-------|-------------------------------|------------------------------|
| January | ..... | 59 | \$ 12,624 |
| February | ..... | 43 | 9,011 |
| March | ..... | 33 | 5,307 |
| April | ..... | 45 | 14,571 |
| May | ..... | 29 | 6,585 |
| June | ..... | 45 | 8,371 |
| July | ..... | 33 | 4,345 |
| August | ..... | 43 | 6,643 |
| September | ..... | 30 | 5,040 |
| October | ..... | 24 | 2,824 |
| November | ..... | 43 | 4,214 |
| December | ..... | 39 | 7,820 |
| TOTAL | | 466 | \$ 79,245 |
| APPROXIMATE AVERAGE LOSS PER UNREPORTED FIRE | | | \$ 170 |

TRAINING SECTION

The Training Section is under the supervision of the Chief Training Officer (Battalion Chief grade). Its mission is to train the members of the Fire Bureau in modern fire fighting practices and techniques. To accomplish this mission, improved techniques are continuously reviewed, probationary training programs are developed and conducted, company training programs are developed and coordinated, training literature is developed and published, and training programs and equipment are maintained and supervised. The Chief Training Officer is assisted by a staff consisting of one Fire Captain, one Fire Lieutenant, one Fire Apparatus Instructor, and one Clerk.

The following descriptions and summary attest to the activities of the Training Section this past fiscal year.

PROBATIONARY TRAINING:

All appointments to classified positions of the uniformed services of the Portland Fire Bureau are subject to a probationary period of one year from the date of original appointment. The probationary period is an essential part of the selection process and an opportunity for the effective adjustment of the Fire Fighter.

In addition to his academic training as a probationary Fire Fighter, the trainee is given actual in-service fire fighting experience under the direction of an especially qualified fire fighting officer-instructor. This program combines the best of apprenticeship experience and training with academic learning. The academic teaching assures an adequate background for the trainee to progress in the art and skill of fire fighting.

There are secondary benefits of this kind of probationary training: first, it provides increased interest to the trainee by backing up the academic learning with an actual application and working experience; second, there is an economic benefit to the Fire Bureau in that it provides for fuller utilization of manpower.

DEPARTMENTAL TRAINING

Training of the Fire Fighter continues after completion of the probationary training in the form of multiple company drills, battalion training drills, house drills, outside drills, company proficiency exercises, officers briefings, flammable liquid fire suppression training, apparatus operator training, radiological monitoring training, first aid training, and other special programs as necessary. Refresher and new training is programmed to keep Portland Fire Fighters and Officers proficient at all times in the skills necessary for effective fire fighting.

TRAINING PUBLICATIONS AND MATERIALS

Training publications and materials are developed, reviewed, and published by the Training Section staff. Visual aids are developed to effectively demonstrate fire problems and teach improved fire tactics. New films are reviewed and purchased.

DRIVER AND APPARATUS TRAINING

The Training Section conducts a comprehensive program for the certification of all drivers and operators of Fire Bureau vehicles and apparatus. The program consists of an eye and physical reflex examination, a course in defensive driving, and instruction in apparatus operation. The program requires re-certification every four years.

FIRE FIGHTER FIRE INSPECTION TRAINING

An area of training that was expanded considerably was in Fire Prevention. A Fire Inspection Training Program for Fire Fighters was conducted in September, 1970, on a limited basis. The course was designed to improve the Fire Fighter's knowledge of Fire Prevention principals, techniques and practices.

OFFICER FIRE INSPECTION TRAINING

An Officers' Briefing held in April, 1971, was utilized to present a Fire Prevention/Inspection Course for Company Officers. It consisted of the following 9 subjects presented during 9 classroom hours:

1. Introduction to Fire Prevention
2. Codes and Standards
3. Title 31, Fire Regulations
4. Hospitals and Institutions
5. Flammable Liquids
6. Automatic Sprinkler Systems and Standpipes
7. Inspection Specifics, Part I
8. Inspection Specifics, Part II
9. Basic Fundamentals

The foregoing course was presented in cooperation with the Fire Prevention Division.

POTENTIAL FIRE FIGHTERS' TEST ORIENTATION

- In cooperation with the Portland Community College the Training Section conducted a class on the subject "Fire Fighters' Test Orientation". The purpose was to acquaint qualified people with the technique of taking a Civil Service Entrance Examination. This course was oriented toward minority and underprivileged groups and held in areas that were convenient to them.



SUMMARY OF TRAINING CENTER ACTIVITIES

| ACTIVITY | DATE | NUMBERS INVOLVED |
|---------------------------------------------|-----------------|--------------------------------------------------------------------------------|
| Defensive Driver Training (8 hr. personnel) | Nov., 1970 | 56 Men |
| Report Writing Workshop | Nov., 1970 | 78 Men |
| Officers' Briefing | Nov., 1970 | 135 Men |
| Fire Fighter Fire Inspection Training | Sept., 1970 | 60 Men |
| Potential Fire Fighters' Test Orientation | Jan., 1971 | 4 Nights - 78 Men |
| Officer Fire Inspection Training | April, 1971 | 123 Men |
| Annual Fire Pump Test | June, 1971 | 26 First Line Pumpers 7 Reserve Pumpers |
| Campbell Memorial Honor Guard | June, 1971 | 2 Platoons |
| Driver and Apparatus Training | Throughout Year | 12 New Certifications 84 Re-Certifications |
| Fire Company Proficiency Evaluations | Throughout Year | 167 Companies 770 Men |
| Funeral Platoons for Deceased Firemen | Throughout Year | 7 Platoons |
| Multiple Company Training Exercises | Throughout Year | 77 Multiple Exercises 303 Companies |
| Oil Fire Training Exercises | Throughout Year | 92 Companies 420 Men |
| Probationary Fire Fighter Examinations | Throughout Year | 11 Fire Fighters 11 Examinations |
| Training Assistance to Outside Agencies | Throughout Year | 6 Organizations 150 Men |
| Training Center Publications | Throughout Year | Training Center Bul. No. 29 Training Center Guides No. 1, 2, 3, and 4 |

PLANS & RESEARCH

All activities of the Bureau of Fire require planning and intensive study at various times and stages. This may be for the purpose of determining needed improvements, how best to implement changes, or as a necessary prelude to making sound recommendations and decisions. Standards, guides, and past records are pored over in an effort to do effective planning. Completed studies are then analyzed for merit, application, and feasibility of use within the Portland Fire Bureau. The Staff Lieutenant performs or coordinates such studies.

This past year all fire protection agreements with surrounding water districts, rural fire protection districts, and private individuals were carefully reviewed and revised to comply with a recent State Attorney General's opinion which required a distinction between fire suppression and fire prevention services. Two new contracts were negotiated for fire suppression services and two other contracts were developed to provide both fire prevention and fire suppression services. A total of fourteen contracts were negotiated and completed.

Mutual aid agreements with surrounding Multnomah County fire departments were studied and updated. Agreements with Washington and Clackamas county fire departments are under study and discussion at the present time.

Annexation studies are another important function of the Staff Lieutenant. Each major annexation proposal is carefully studied for water supply, access routes, response distances, and economic effects. Reports of the findings and recommendations are forwarded to the City Planning Commission for determination of desirability of annexation and planning for future city services. Six areas involving approximately 11.5 square miles were studied this past fiscal year.

Close cooperation between the Bureau of Fire and other public and private agencies is assured through the liaison work of the Staff Lieutenant. The success of this past year has depended on the excellent cooperation obtained from the Mayor's, Commissioner's, City Auditor's, City Engineer's and State Fire Marshal's Offices in the various problems which developed and needed outside assistance. Coordination of matters which concern the Bureau of Fire is assured through liaison contracts.

Federal Grant projects and applications were developed and/or coordinated by the Staff Lieutenant. Two projects approved by the Federal Government last year were in full operation with completion expected about December, 1971. These projects involved the construction of an additional rescue vehicle and a new highway fire fighting apparatus. No new project applications were approved this year.

On June 3, 1970, the approval of two Federal Grant requests for the City of Portland, Bureau of Fire was announced. Both grants were approved for funding under the Highway Safety Act of 1966. One grant for \$31,440 was made to construct an additional rescue vehicle under the Emergency Medical Services functional area. The other grant was for the construction of a highway fire fighting apparatus (pumper-chemical) under the functional area, Debris Hazard Control and Cleanup, and was funded for \$41,500.

The new rescue vehicle will be designated as Rescue 1 and will replace the 1939 Jay W. Stevens Disaster car. This will allow for the relocation of existing rescue vehicles and thus expand our first aid capability. The increased number and usage of freeways in the Portland area has demanded more of our rescue capabilities and equipment. Also, communications at the scene of emergencies and between emergency vehicles and agencies are becoming an ever increasing problem. This new rescue vehicle will not only fulfill the emergency first aid needs but is also designed to fulfill the fireground communications need. The vehicle is equipped with radio consoles and a command room that will assist the Commanding Officer in maintaining better command control at the scene of a major emergency.

pumper-chemical
The highway fire fighting apparatus is designed to improve our capability to control and extinguish fires which occur on the streets and freeways of the Portland area. Some new concepts for the Portland Bureau of Fire are incorporated into this apparatus. Five hundred feet of light weight four inch lay-in hose with quarter-turn couplings is provided in addition to the standard loads of 600' of 3", 600' of 2-1/2" and 400' of 1-1/2" hose. This hose loading will enable us to more fully utilize the 1750 gpm fire pump mounted mid-ship on the chassis. Two foam tanks are incorporated into the apparatus. An 85 gallon tank is for high expansion foam concentrate and a 35 gallon tank holds "light water" concentrate. A 1000 lb. dry chemical (Purple K) unit and 200 lbs. of carbon dioxide are also installed on the apparatus.

This past year construction plans were drawn, bids called for, equipment purchased, and construction started. Both apparatus are scheduled for completion and placing in service in the late fall of 1971.

In Memoriam

DOLPHY, ALFRED V.
Appointed 2- 6-12
Retired 4-30-42
Deceased 7- 2-70

SNIDER, E. A.
Appointed 8-27-18
Retired 7- 3-40
Deceased 9-22-70

RICHARDS, HAROLD A.
Appointed 12- 1-38
Retired 7- 1-69
Deceased 9-30-70

McCULLOCH, MALCOLM H.
Appointed 12- 1-38
Retired 12- 1-64
Deceased 11-25-70

KEYS, EDWARD W.
Appointed 11- 1-19
Retired 11- 5-44
Deceased 12-25-70

MILES, WILLIAM H.
Appointed 12-16-24
Retired 1-15-58
Deceased 12-30-70

STEPHENS, JACK L.
Appointed 7- 1-47
Deceased 2- 8-71

EMMONS, RUSSELL A.
Appointed 7-24-23
Retired 8-11-50
Deceased 3- 4-71

JACOBS, ARNOLD J.
Appointed 12-16-24
Retired 7-20-62
Deceased 4-17-71

FRENCH, BRUCE R.
Appointed 4- 1-36
Deceased 4-19-71

GAINES, FLOYD
Appointed 11- 1-19
Retired 1-22-59
Deceased 4-25-71

MILLER, CARL F.
Appointed 10-31-29
Retired 3- 9-65
Deceased 5-17-71

MYERS, JAY W.
Appointed 4-13-24
Retired 11-22-61
Deceased 5-19-71

A MEASURE OF ECONOMIC PRODUCTIVITY
OF
PORTLAND'S CLASS 2 FIRE DEFENSE SYSTEM

1970 - 1971

| | | | |
|---------------------------------------------------------------------------|----------------|------------------|---------------------|
| Class 10 Insurance Premium Costs ¹ | | | |
| \$82.00/\$10,000 | | \$31,135,400 | |
| Class 2 Insurance Premium Costs ¹ | | | |
| \$15.00/\$10,000 | | <u>5,695,500</u> | \$25,439,900 |
| Fire Bureau Costs | | | |
| Budget 1970-71 | \$9,524,916 | | |
| Disability & Pension | 2,310,730 | | |
| Depreciation (5% on Capital | | | |
| Investments) | 365,074 | | |
| Fire Hydrants (Installation & | | | |
| Maintenance) | <u>149,718</u> | \$12,350,438 | |
| Less Fire Bureau Earnings (1970-71) | | | |
| Fire Protection Contracts | \$ 456,194 | | |
| Fire Marshal Permit Fees | 9,659 | | |
| Fire Investigation Report Fees | 320 | | |
| Bank Interest Earned | 96 | | |
| Interest on Investments | 21,136 | | |
| Federal Grants | <u>36,766</u> | \$ 524,171 | \$11,826,267 |
| NET ECONOMIC ADVANTAGE THROUGH INVESTMENT IN FIRE PROTECTION ² | | | <u>\$13,613,633</u> |

Notes:

¹Based on dwelling rates effective November 1, 1967, as reported in the 1969 Oregon State Fire Marshal's Annual Report and the True Cash Value of taxable improvements, non-taxable improvements (schools, government buildings, churches, hospitals, libraries, etc.), contents, and taxable inventory of \$3,797,000,000. This value does not include land, cargo in transit, ships, and vehicles.

²The net economic advantage is computed on the basis of the difference between insurance premium costs for Class 10 (no fire department) protection and Portland's Class 2 insurance premium costs less net costs of Fire Bureau operation.