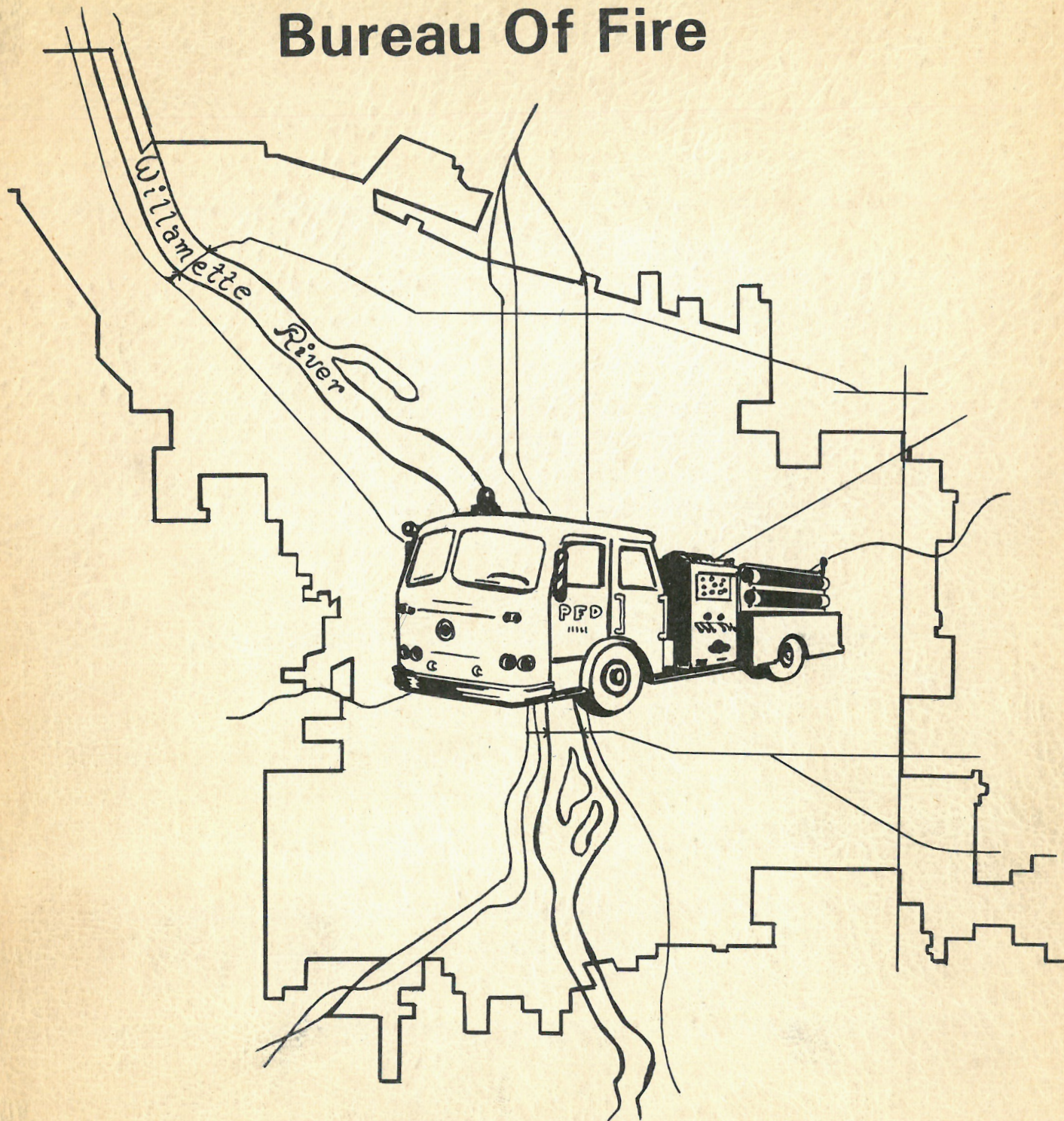


ANNUAL REPORT

Bureau Of Fire



Portland, Oregon
1969-1970

THIS ANNUAL REPORT
IS DEDICATED
TO THE MEMORY OF



THE HONORABLE STANLEY W. EARL
COMMISSIONER
DEPARTMENT OF PUBLIC SAFETY

Elected: January 1, 1953
Reelected: 1957, 1962, 1966, 1970
Deceased: March 4, 1970



THE HONORABLE TERRY D. SCHRUNK
MAYOR
PORTLAND, OREGON



THE HONORABLE CONNIE McCREADY
COMMISSIONER
DEPARTMENT OF PUBLIC SAFETY

Appointed March 19, 1970



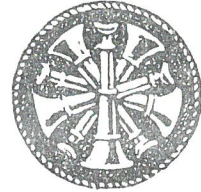
JAMES H. RIOPELLE
FIRE CHIEF



BUREAU OF FIRE

Department of Public Safety

CITY OF PORTLAND, OREGON



Connie McCready
COMMISSIONER

Connie McCready, Commissioner
Department of Public Safety
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 the 1969-70 fiscal year.

The personnel of the Bureau were saddened by the sudden passing of Commissioner Stanley W. Earl on March 4, 1970. He had been in charge of the Bureau since January, 1953, and will always be remembered as a staunch advocate of a strong and efficient fire department.

During the year, all of the physical properties of the Bureau of Fire, including quarters, apparatus, and firefighting equipment were inspected. With much pride, I 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 its highest annual fire loss of the last ten years, approximately \$5.2 million. About half was due to incendiarism. Of the incendiary fires, many were attributed to civil unrest. Most of these incendiary fires were directed against retail stores. Schools have become poor insurance risks because of incendiarism. Arson to conceal other crimes, particularly burglary, was pronounced and may be a major factor in our losses for some time. We must increase our efforts in fire prevention and the control of malicious incendiarism.

Your attention is invited to our statement of productivity on page 61.

I am proud to report that Portland's firemen successfully rescued and saved many persons from injury or death from fire during the year, the most noteworthy rescue being that of a family of five which was presumed to be dead when found.

The news media's faithful and factual reporting of the fire story has made our public more aware of the perils of fire.

It is with sincere appreciation that I acknowledge the loyalty, cooperation, and industry of all members of the Bureau. We are grateful to you and the City Council for your confidence and counsel. We received splendid cooperation and support from all other Bureaus of the City.

Respectfully,

JAMES H. RIOPELLE
Chief, Bureau of Fire

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

PORTLAND BUREAU OF FIRE

PORTLAND, OREGON

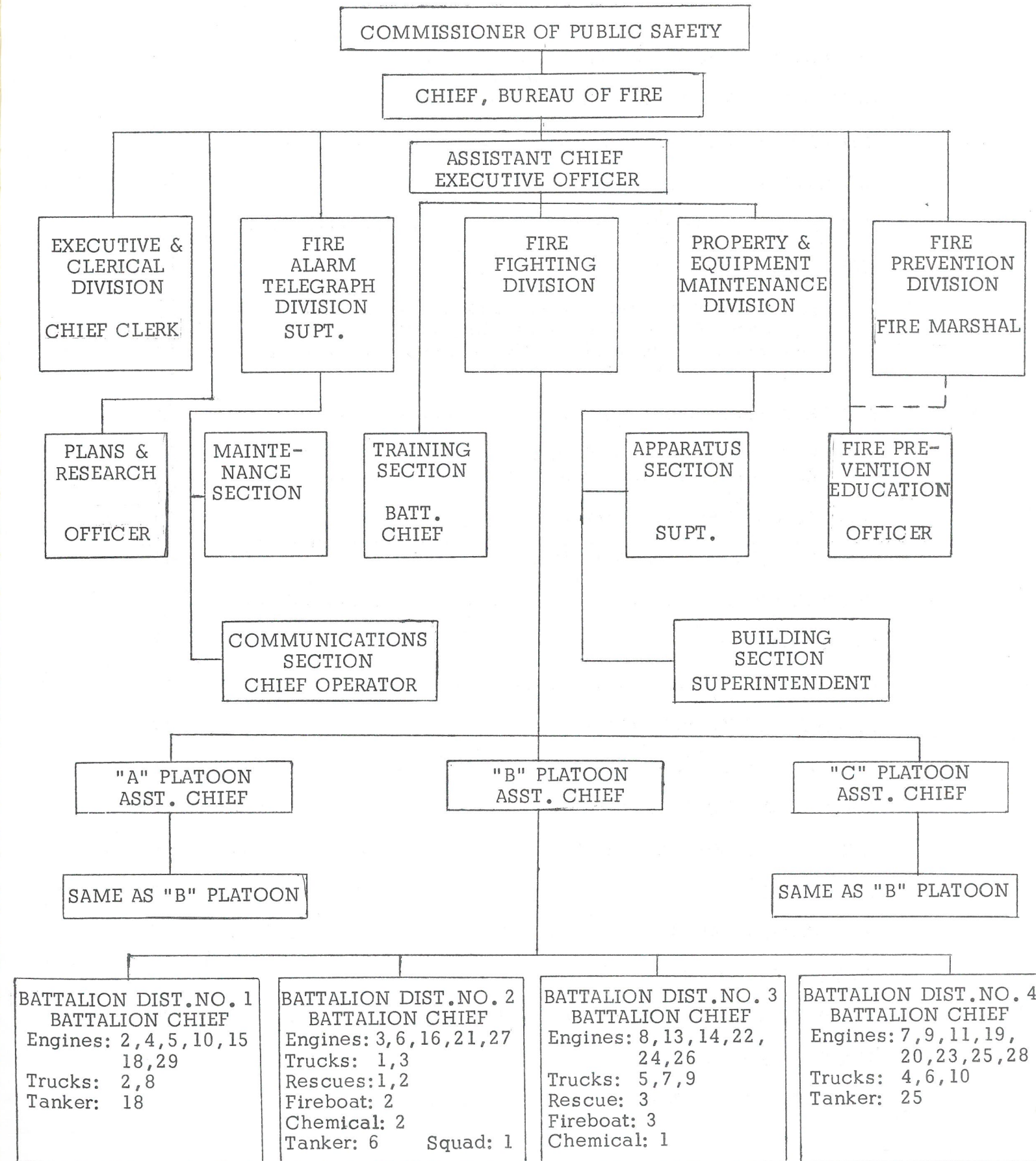


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In Memoriam

Karnath, Martin R.
 Appointed - October 20, 1922
 Retired - December 2, 1959
 Deceased - July 9, 1969

St. Martin, Eli D.
 Appointed - October 20, 1922
 Retired - November 24, 1953
 Deceased - July 17, 1969

Hougham, Lloyd J.
 Appointed - May 26, 1933
 Retired - November 30, 1951
 Deceased - July 25, 1969

Grosscup, Isadore A.
 Appointed - September 16, 1915
 Retired - June 6, 1942
 Deceased - September 4, 1969

Baechle, Fred Oscar
 Appointed - August 3, 1923
 Retired - August 3, 1943
 Deceased - October 9, 1969

Gillis, Angus Daniel
 Appointed - February 3, 1937
 Retired - February 14, 1957
 Deceased - February 17, 1970

Ferris, Charles M.
 Appointed - October 31, 1930
 Retired - December 24, 1961
 Deceased - February 27, 1970

Hammer, Randy
 Appointed - December 20, 1968
 Deceased - March 30, 1970

White, William Grover
 Appointed - November 1, 1919
 Retired - March 28, 1957
 Deceased - March 31, 1970

Shipley, Ernest
 Appointed - September 30, 1921
 Retired - April 20, 1951
 Deceased - April 3, 1970

Gill, Howard
 Appointed - February 16, 1910
 Retired - July 1, 1952
 Deceased - April 19, 1970

Grenfell, William A.
 Appointed - June 14, 1917
 Retired - July 1, 1954
 Deceased - May 6, 1970

Famme, Clarence E.
 Appointed - March 21, 1924
 Retired - August 13, 1956
 Deceased - May 7, 1970

Bruner, Alvin
 Appointed - January 25, 1915
 Retired - March 7, 1943
 Deceased - May 19, 1970

Schlatter, Ralph
 Appointed - January 2, 1913
 Retired - August 26, 1942
 Deceased - June 3, 1970

Paullin, Beryl A.
 Appointed - December 31, 1923
 Retired - September 18, 1954
 Deceased - June 10, 1970

EXECUTIVE OFFICERS

JAMES H. RIOPELLE

PETER C. LEINWEBER
JAMES R. KERR

LEO E. WEIDNER
STANLEY F. BOHLMAN
HENRY L. SURBAUGH
GORDON A. MORTERUD

HENRY L. BURNS

ALBERT M. OLIVERIO
JACK A. JONES
HARRY A. 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

TIMOTHY T. DUNLOP

RONALD K. MELOTT

DALE V. LIESCH

JOHN HETRICK

ALFRED A. ALWICK

BLANCHE NOBLE

(RETIRED 8-16-69)

(CHIEF TRAINING OFFICER)

CHIEF

EXECUTIVE OFFICER
FIRE MARSHAL

ASSISTANT CHIEF
ASSISTANT CHIEF
ASSISTANT CHIEF
ASSISTANT CHIEF

ASST. FIRE MARSHAL

BATTALION CHIEF
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BATTALION CHIEF
BATTALION CHIEF

BATTALION CHIEF

STAFF LIEUTENANT

SUPT. FIRE ALARM

FIRE APPARATUS
SUPERVISOR

FIRE BUILDINGS
SUPERINTENDENT

CHIEF CLERK

EXECUTIVE & CLERICAL DIVISION

The Executive & Clerical Division, under the direction of Mrs. Blanche Noble, Chief Clerk of the Bureau, is the stenographic, clerical and record keeping division of the Fire Bureau.

The personnel includes the Chief Clerk, 2 accounting assistants, 4 senior stenographer clerks, 1 stenographer clerk, 1 typist clerk and 1 clerk II.

The Chief Clerk acts as the Chief's Liaison Officer between the Bureau of Fire and the City Auditor's Office.

This Division:

1. Prepares, coordinates, and acts as controller of the annual budget for the Bureau. The total 1969-1970 Fire Bureau Budget was \$8,654,539.42 from the General Fund and \$300,000.00 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 688 employees.
5. Prepares, publishes, distributes and files all Bureau publications, such as, General Orders, Rules and Regulations, Standard and Special Operating Procedures 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 uniform issue and records including insignia, badges and related accouterments. Maintains clothing room for uniform issue.

FIRE BUREAU PERSONNEL

UNIFORM PERSONNEL

FIRE FIGHTING

	<u>Monthly Salary</u>	
1 Chief of the Bureau	\$1,732.00	-
1 Assistant Chief - Executive Officer	1,539.00	-
3 Assistant Chiefs	1,326.00	- \$1,449.00
12 Battalion Chiefs	1,144.00	- 1,250.00
1 Staff Lieutenant	903.00	- 986.00
1 Training Officer - Captain	1,017.00	- 1,111.00
28 Captains	986.00	- 1,078.00
5 Training Officer Lieutenants	877.00	- 959.00
92 Lieutenants	853.00	- 931.00
6 Fireboat Pilots	827.00	- 931.00
6 Fire boat Engineers	695.00	- 827.00
462 Fire Fighters	674.00	- 802.00
618 Total		

SPECIAL ASSIGNMENT

1 Captain	\$ 986.00	- \$1,078.00
2 Fire Fighter Specialists	695.00	- 827.00
3 Total		

FIRE PREVENTION

1 Fire Marshal (Assistant Chief)	\$1,407.00	- \$1,539.00
1 Assistant Fire Marshal (Battalion Chief)	1,144.00	- 1,250.00
1 Chief Investigator	986.00	- 1,078.00
2 Senior Fire Inspectors	986.00	- 1,078.00
24 Fire Inspectors	853.00	- 877.00
29 Total		

FIRE ALARM TELEGRAPH

1 Chief Alarm Operator	\$ 986.00	- 1,078.00
11 Fire Alarm Operators (3 Operators - 8 Lieuts.)	853.00	- 931.00
12 Total		

TRAINING

1 Chief Training Officer (Battalion Chief)	\$1,144.00	- \$1,250.00
1 Assistant Training Officer (Captain)	986.00	- 1,078.00
1 Lieutenant	853.00	- 931.00
3 Total		

AUTOMOTIVE MAINTENANCE

1 Fire Apparatus Supervisor	\$ 877.00	- 1,047.00
3 Fire Fighter Specialists (Mechanics)	695.00	- 827.00
4 Total		
669 <u>Total Uniform Personnel</u>		

CIVILIAN PERSONNEL

TRAINING

	<u>Monthly Salary</u>	
1 Fire Apparatus Instructor	\$ 695.00	- \$ 827.00

FIRE ALARM TELEGRAPH

1 Superintendent of Fire Alarm	\$ 877.00	- \$1,047.00
1 Assistant Superintendent of Fire Alarm	802.00	- 959.00
1 Line Foreman	802.00	- 903.00
6 Linemen	735.00	- 827.00
2 Electricians	735.00	- 827.00
11 Total		

BUILDING MAINTENANCE

1 Fire Building Superintendent	\$ 877.00	- \$1,047.00
1 Lead Plumber	757.00	- 853.00
1 Plumber	735.00	- 827.00
3 Carpenters	695.00	- 780.00
2 Painters	695.00	- 780.00
1 Utility Worker	572.00	- 653.00
1 Custodial Worker	494.00	- 530.00
10 Total		

AUTOMOTIVE MAINTENANCE

1 Utility Worker	\$ 572.00	- \$ 653.00
------------------------	-----------	-------------

CLERICAL

1 Chief Clerk	\$ 827.00	- \$ 986.00
2 Accounting Assistants	494.00	- 614.00
1 Clerk II	425.00	- 530.00
4 Senior Stenographer Clerks	473.00	- 593.00
1 Stenographer Clerk	392.00	- 494.00
1 Typist Clerk	376.00	- 473.00
10 Total		

33 Total Civilian Personnel

SUMMARY

Personnel 6/30/69	716	
New Position 7/1/69 Asst. Chief-Executive Officer	<u>1</u>	717
Less - Personnel Reduction 7/1/69		
Companies Closed - Boat 1:		
3 Lieutenants		
3 Fireboat Pilots		
3 Fireboat Engineers		
3 Fire Fighters		
Companies Reduced - Engine 17:		
3 Fire Fighters		<u>15</u>
Personnel July 1, 1969		702
Less - Personnel Reduction 2/12/70		
Companies Closed - Engine 17:		
3 Lieutenants		
9 Fire Fighters		<u>12</u>
Total Personnel June 30, 1970		<u><u>690</u></u>

PERSONNEL

RETIREMENTS

A. Wilson Butts		July 1, 1969
Harold A. Richards		July 1, 1969
Leo E. Weidner		August 16, 1969
Frank V. Crabtree	(NON-SERVICE DISABILITY)	August 21, 1969
Floyd E. Smith	(NON-SERVICE DISABILITY)	August 27, 1969
Frank Harrington Jr.	(OCCUPATIONAL DISABILITY)	November 21, 1969
Ronald A. Leonard		December 24, 1969
John L. Heying	(OCCUPATIONAL DISABILITY)	March 30, 1970
William O. Johnston	(OCCUPATIONAL DISABILITY)	April 18, 1970
Bruce R. French	(NON-SERVICE DISABILITY)	April 29, 1970

RESIGNATIONS

Glenn E. Conner	August 8, 1969
Evelyn O'Connell	August 20, 1969
James D. Cundiff	March 1, 1970
Joseph G. O'Neil	April 25, 1970
Richard L. Bowers	May 26, 1970
Robert Roisum	June 26, 1970

STATEMENT SHOWING CONDITION OF APPROPRIATIONS
AS OF JUNE 30, 1970

	Approp. Inc. Trans.	Expend. To Date	Pur. Orders Outstanding	Total Encumbrance	Unencumbered Balance
<u>EXECUTIVE & CLERICAL</u>					
Personal Services	\$ 86,307.05	\$ 86,307.05	\$-----	\$ 86,307.05	\$.00
Operation & Maintenance	4,476.08	4,456.58	19.50	4,476.08	.00
Equipment	48.50	30.50	18.00	48.50	.00
Total	\$ 90,831.63	\$ 90,794.13	\$ 37.50	\$ 90,831.63	\$.00
<u>FIRE ALARM TELEGRAPH</u>					
Personal Services	\$ 298,562.38	\$ 298,562.38	\$-----	\$ 298,562.38	.00
Operation & Maintenance	109,773.76	108,877.01	896.75	109,773.76	.00
Equipment	1,252.80	1,252.80	-----	1,252.80	.00
Total	\$ 409,588.94	\$ 408,692.19	\$ 896.75	\$ 409,588.94	\$.00
<u>FIRE FIGHTING</u>					
Personal Services	\$7,363,636.40	\$7,363,636.40	\$-----	\$7,363,636.40	.00
Operation & Maintenance	199,694.31	179,090.78	20,603.53	199,694.31	.00
Equipment	40,379.16	23,772.21	16,606.95	40,379.16	.00
Improvements	2,257.42	2,257.42	-----	2,257.42	.00
Total	\$7,605,967.29	\$7,568,756.81	\$ 37,210.48	\$7,605,967.29	\$.00
<u>FIRE PREVENTION</u>					
Personal Services	\$ 365,214.26	\$ 365,214.26	\$-----	\$ 365,214.26	.00
Operation & Maintenance	8,529.65	8,349.65	180.00	8,529.65	.00
Equipment	792.15	792.15	-----	792.15	.00
Total	\$ 374,536.06	\$ 374,356.06	\$ 180.00	\$ 374,536.06	\$.00
<u>PROPERTY & EQUIP. MAINT.</u>					
Personal Services	\$ 117,898.27	\$ 117,898.27	\$-----	\$ 117,898.27	.00
Operation & Maintenance	54,619.81	49,301.89	5,317.92	54,619.81	.00
Equipment	1,097.42	1,097.42	-----	1,097.42	.00
Total	\$ 173,615.50	\$ 168,297.58	\$ 5,317.92	\$ 173,615.50	\$.00
General Fund Fire Bureau	\$8,654,539.42	\$8,610,896.77	\$ 43,642.65	\$8,654,539.42	.00
Fire App. Fund Fire Bureau	300,000.00	24,894.00	246,139.00	271,033.00	.00
TOTAL FIRE BUREAU	\$8,954,539.42	\$8,635,790.77	\$289,781.65	\$8,925,572.42	\$28,967.00
					\$28,967.00

PLANS & RESEARCH

Planning has become an integral part of all activities carried on within the Bureau of Fire. To make this planning effective, many hours are spent in researching standards, guides and past records. These studies are analyzed for improved methods of operations and administration.

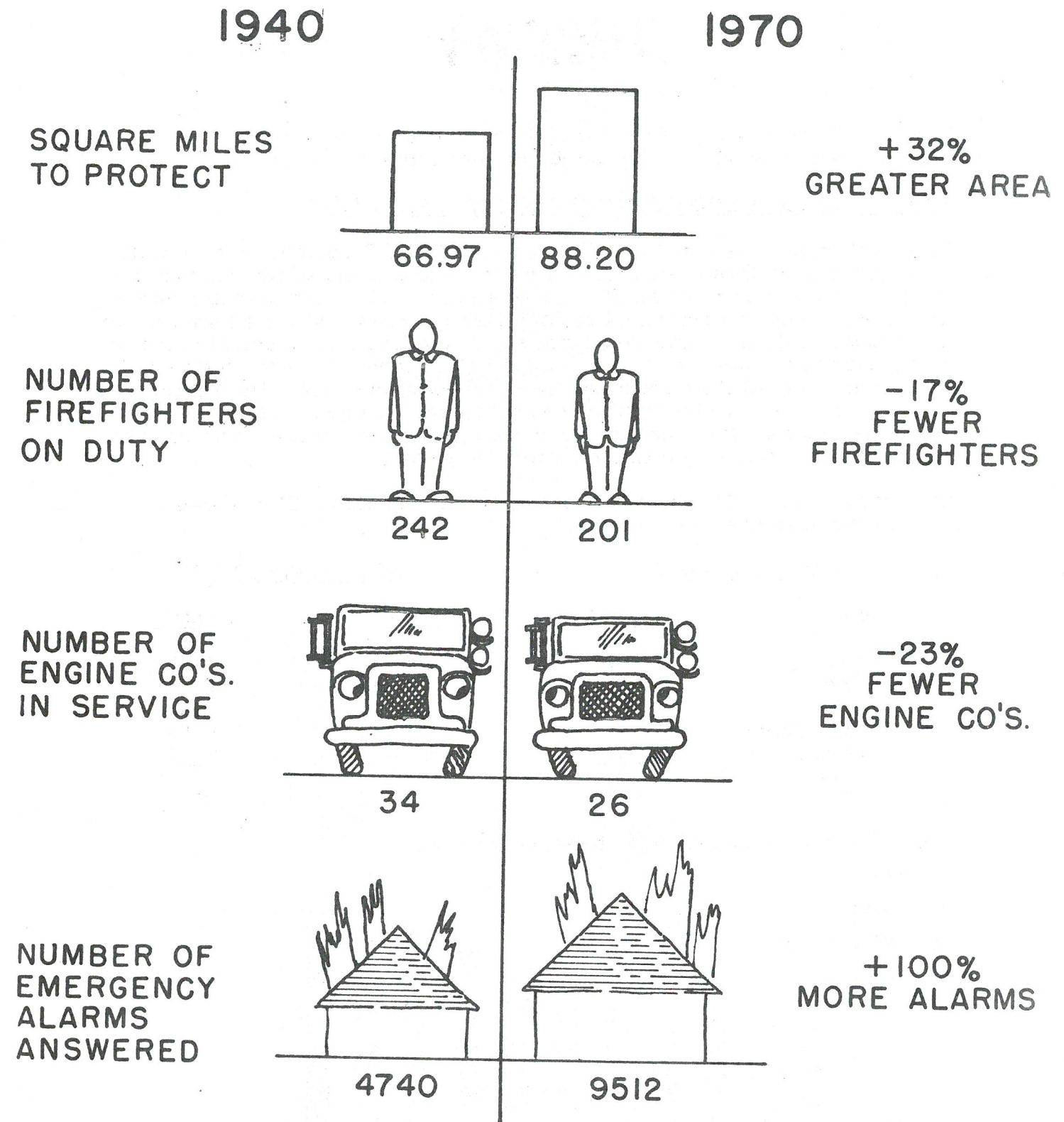
All major annexation proposals are thoroughly studied by this section prior to annexation. Particular attention is given to such items as water supply, access routes, response distances and economic factors. Reports of findings and recommendations are forwarded to the City Planning Commission to assist them in planning for City services. During the past fiscal year, four major annexation proposals, totaling approximately 9.5 square miles, were studied and reports compiled.

This section maintains close liaison between the Bureau of Fire and other public agencies. All meetings and planning sessions of these agencies which concern the Bureau of Fire are attended to assure coordination. Membership or participation in such committees includes the Fire Bureau Staff, Board of Chiefs, Training Committee, Medical Disaster Committee of the Portland Association of Hospitals, State Fire Defense Board, County Fire Defense Boards in the area, Mayor's Administrative Review Committee, and Educational Committees.

The Portland Fire Bureau provides a limited amount of fire suppression services to organized water or rural fire protection districts and individual property owners whose structures and districts lie outside but contiguous to Portland City boundaries. This is accomplished through fire protection agreements with the City of Portland. These agreements are developed and sold by this Section in close cooperation with the City Auditor's and City Attorney's offices.

This Section prepared and processed an application for a grant of \$72,940 under the Federal Highway Safety Act of 1966. These funds will be used for the construction of an additional rescue vehicle and a new highway fire fighting apparatus. Approval of these projects was announced in a news release from Representative Edith Green's Office on June 3.

A GROWING CITY A SHRINKING FIRE DEPARTMENT



FIRE ALARM TELEGRAPH DIVISION

The Fire Alarm Telegraph Division under the supervision of Superintendent Dale V. Liesch performs two related but separate public safety functions.

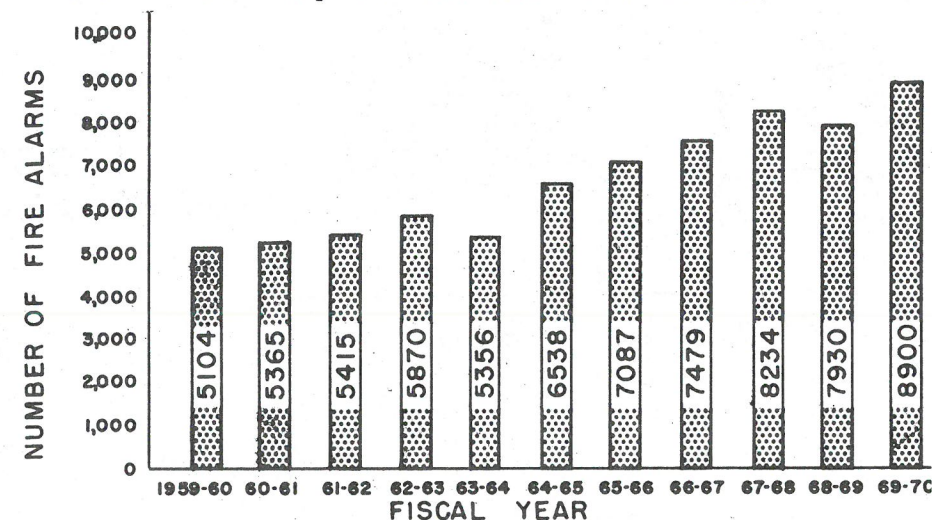
FIRE, EMERGENCY AND COMMUNICATIONS DISPATCHING

This section is supervised and directed by a Chief Dispatcher with a staff of 11 fire alarm dispatchers. The primary responsibility of the communications center is to receive all fire and emergency calls, and dispatch appropriate equipment and personnel to cope with the many and varied situations. The communications center personnel sort, process, and coordinate routine Fire Department telephone and radio communications. In coordination with Air Quality Control they evaluate weather reports and post daily burning restrictions. They maintain a log of all fire and emergency calls and compile other related alarm records and reports. Daily readiness tests are performed on all emergency communication equipment.

They processed 8,900 emergency calls, as listed below. This shows a marked increase over previous years.

<u>ALARMS RECEIVED</u>		<u>HOW RECEIVED</u>	
<u>Type</u>	<u>Total</u>	<u>Type</u>	<u>Total</u>
Fire	5811	Box	1217
False	1181*	Telephone	7185
First Aid	1015	Still	366
Public Service	583	A.D.T.	94
Outside City	310	Radio	38
Total	8900	Total	8900

*Includes both telephone and street box alarms.



TECHNICAL - ELECTRICAL - LINE MAINTENANCE - REPAIR

This section is responsible for the technical planning, development and installation of new public fire alarm equipment and systems, and the maintenance and repair of existing facilities. This includes 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 circuit equipment.

This section maintains the communications and electrical systems in all of the Bureau of Fire buildings. It maintains up-to-date permanent engineering records of the Central Office equipment including substations and exterior plant.

There are 1360 fire alarm boxes located throughout the City. These are connected to the Alarm Office 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 Office with fire stations and public utilities.

The following is a partial breakdown of man hours worked and work performed by the Line Division:

Cross arms transferred to new poles	67
Cross arms replaced	10
New cross arms installed	770
Cross arms removed	774
Line wire replaced	2,700 feet
Line wire removed	124,650 feet
New line wire installed	110,200 feet
New alarm boxes installed	15
Alarm box installations repaired & rebuilt	88
Tree trimming	2,200 hours
Installing underground conduit	406 hours
Cable installed	14,080 feet
Splicing cable	165 hours
Poles painted	624
Alarm box testing	848 hours
Cable removed	105 feet

More than 600 fire alarm box poles were painted and striped to mark street box locations. Over 100 fire alarm boxes were painted and repaired.

Fifteen new fire alarm boxes were installed in recently annexed areas and other areas not adequately covered.

Sixty-eight old style fire alarm box pedestals were replaced with a newer pedestal type, which require less maintenance.

Improvement was made on circuits in which both alarm conductors were previously installed along the same street. Eighteen such circuits were rearranged to the series loop principle so that alarm boxes will remain operable in the event a tree should fall across the lines or an accident topple a pole. Reworking the circuits reduced the amount of aerial wire in service and greatly improved the ratio of underground to overhead conductors.

Major physical plant improvements this year included installing 1800 feet of cable across the Steel Bridge, and 500 feet of cable across the span on the Hawthorne Bridge. These greatly improved alarm circuit reliability.

A good deal of time was spent studying the circuits involved in the Fremont Bridge east and west approaches. Circuits have been rearranged without the necessity of expensive underground work to clear these areas for the freeway.

Auxiliary fire alarm systems with master boxes were installed at the Automotive Shop (Engine 7) and at the Training Center hose storage depot to more adequately protect Fire Department equipment and buildings.

Fire alarm box service was extended to the Rivergate industrial area.

This Division supplied 74 man hours of labor toward the installation of electrical equipment necessary for air conditioning equipment being installed at the Municipal Court section of the Central Police Precinct Headquarters. The Line Division also worked 255 hours installing new cable for the Bureau of Traffic Engineering.

TRAINING SECTION

TRAINING SECTION ACTIVITIES

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 examination process and is used for the effective adjustment of the fire fighter.

Nineteen probationary fire fighters completed their training and received permanent appointments within the past fiscal year. Successful trainees passed daily and quarterly examinations; two six hour examinations on individual skills and evolutions; and a three hour written final examination.

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 the fullest 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 were developed to effectively demonstrate fire problems and teach improved fire tactics. New films were reviewed and purchased.

SPECIAL SERVICES

The Training Section Staff coordinated and conducted special courses in extrication of victims from wrecked vehicles, rescue from underground vaults, cardiopulmonary resuscitation techniques in conjunction with first aid, and fire fighting techniques for business and industrial concerns. The Training Section continued its liaison between the Fire Bureau and Providence Hospital on the Mobile Cardiac Project.

Assistance was given to Portland Community College in Fire Protection Technology courses. Some of the training programs developed by this section, when successfully completed, are accepted at Portland Community College for course credit.

Public service programs and TV films were produced in an effort to inform the public as to the role, training, and job of the fire fighter.

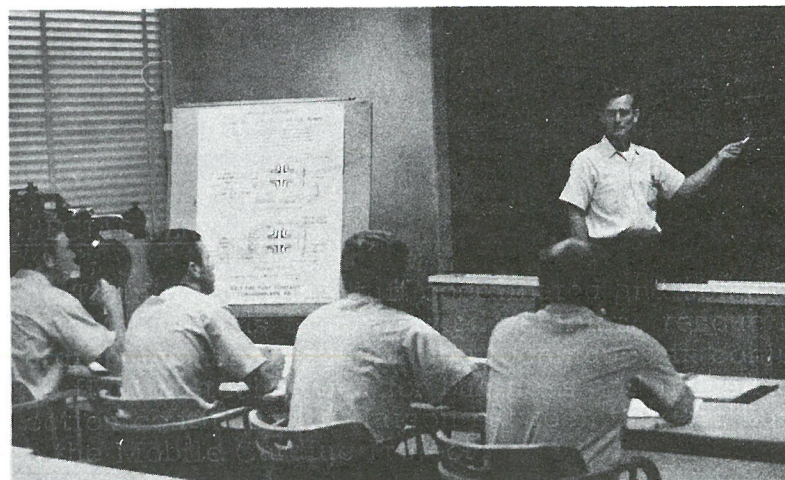
Training facilities and equipment were made available to various surrounding fire departments for pump tests and other training purposes.

Uniformed platoons of off-duty firemen were called out to serve as honor guards for funeral services of twelve deceased members of the Fire Bureau. Two uniformed platoons and four fire companies attended the June 26, 1970 David Campbell Memorial Service.

ACKNOWLEDGEMENTS

Credit must be given to many people for the accomplishments of the Training Section during the past year. Our industrial community provided assistance and materials. All offices and divisions of the Bureau were generous in support of the Training Staff. Battalion Training Officers contributed much to the training program. The officers assigned to Training Companies, Engine 23 and Truck 4, contributed immeasurably to the probationary training program.

The foregoing training record was accomplished during a year in which re-assignments occurred in all Training Staff positions except the position of Training Center Clerk, a significant achievement for all concerned. Much credit for these accomplishments is due to direction and assistance given by the previous Chief Training Officer, Assistant Chief Gordon A. Morterud.



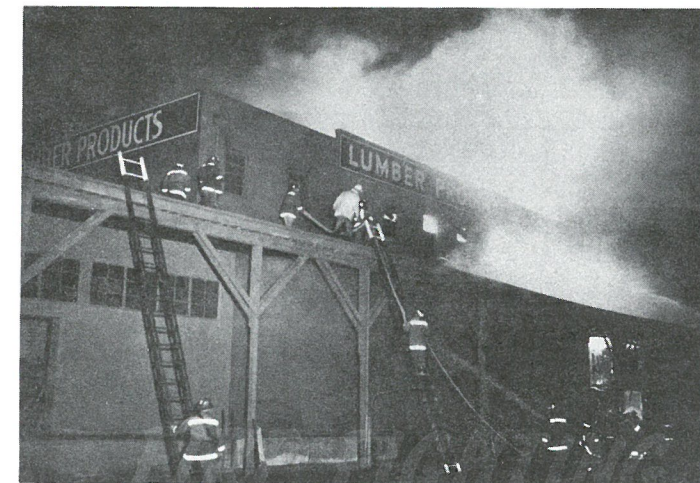
FIRE FIGHTING DIVISION

The fire fighter of the Portland Bureau of Fire is dedicated to the saving of life and property from fire. He answered 8,900 emergency calls, stretched almost 227 miles of hose, and raised 9-1/2 miles of ladders during the year. The services performed are recorded on the following pages of this annual report.

Every reasonable and practical effort is made to control fire through prevention measures. However, total control through fire prevention is an ideal not likely to be fully achieved. New developments within the industrial community continue to increase the complexity of the fire problem. The higher incidence of arson has increased the burden on the fire fighting division. All of the above contributes to the need for a well organized and highly trained force of fire fighters who are prepared to respond 24 hours a day, 365 days a year.

The following report outlines primarily the emergency services performed by members of the fire fighting division. It must be observed that a great many hours of non-emergency duty are performed in: station, apparatus, and equipment care, station drills and training, individual and group training, inspections of homes, buildings and hydrants, development of response routes and pre-fire plans, first aid, rescue, and emergency medical care, and civic projects such as the Toy and Joy Program.

During the past year, Portland fire fighters were called into action an average of twenty-four times each day to assist someone in trouble.



RESPONSE OF FIRE COMPANIES

Co. No.	Phantom Boxes	Boxes	Telephone	Radio	Stills	Total Alarms
Eng. 2	58	23	23	--	4	96
3	260	62	142	--	2	466
4	170	40	120	--	10	340
5	79	16	138	--	8	241
6	108	14	28	--	3	153
7	329	173	206	--	10	718
8	267	198	273	--	19	757
9	281	163	283	--	21	748
10	98	33	58	--	8	197
11	98	58	241	--	12	409
13	386	287	345	--	8	1026
14	335	233	388	--	19	975
15	73	14	76	--	10	173
16	56	14	31	--	12	113
*17	122	27	160	--	6	315
18	49	8	207	--	11	275
19	199	100	284	--	14	597
20	104	62	235	--	11	412
21	448	57	60	--	3	568
22	87	72	184	--	13	356
23	235	115	179	--	8	537
24	336	257	361	--	15	969
25	224	119	285	--	7	635
26	134	88	223	--	12	457
27	49	41	40	--	12	142
28	184	81	322	--	5	592
29	195	50	37	--	3	285
Trk. 1	388	41	39	--	--	468
2	139	28	47	--	3	217
3	272	46	87	--	4	409
4	231	95	62	--	5	393
5	330	206	103	--	1	640
6	131	50	115	--	10	306
7	343	215	103	--	8	669
8	89	15	57	--	2	163
9	83	73	49	--	6	211
10	191	103	160	--	9	463
Squad 1	528	71	47	--	2	648
Res. 1	385	35	43	--	1	464
2	64	---	483	90	20	757
3	---	95	316	44	20	475
F.B. 2	72	9	7	--	--	88
3	46	7	10	--	6	69
Tur. 1	11	---	2	--	--	13
Tnkr. 25	3	---	6	--	--	9
Chem. 1	39	12	54	--	2	107
2	445	71	148	--	9	673

*Engine 17 deactivated 2/11/70

EMERGENCY FIRE SERVICE BY COMPANIES

Co. No.	Time H-M	HOSE LAID				Bstr.	Ldrs. Ft. Raised	Miles Run	Fire Prot. Dist.	M. A. Dist.
		3-1/2"	3"	2-1/2"	1-1/2"					
Eng. 2	96:27	----	3150	4450	3100	5750	24	279.0	--	--
3	270:50	----	25950	9950	18450	16450	50	1236.0	1	--
4	191:19	----	22650	28750	10250	19100	56	848.0	--	--
5	145:22	----	6850	2050	4650	12150	---	787.7	9	--
6	100:24	----	4950	2000	3050	2450	22	433.0	--	--
7	310:19	----	20550	12850	14100	33000	786	1500.9	--	--
8	299:34	----	10300	3500	11100	43650	228	2662.0	89	12
9	301:41	----	9050	4150	5650	35000	320	1676.0	1	1
10	117:42	----	6600	2900	3750	7250	32	767.0	--	--
11	161:27	----	5750	2500	6650	28000	90	1002.5	--	56
13	387:23	----	12800	6150	18500	35000	442	2697.0	--	--
14	384:01	----	14800	3500	15200	41250	897	2451.0	10	11
15	125:14	----	3800	3900	2700	6250	118	522.3	3	--
16	78:03	----	3100	1900	1200	2750	22	314.7	--	--
*17	159:52	----	2600	3600	5000	20750	56	820.7	3	3
18	160:15	----	8950	2850	6300	1900	110	928.9	--	3
19	243:02	----	6650	1850	5950	34500	214	1664.0	--	10
20	197:53	----	3650	1050	3600	15250	222	924.0	--	--
21	241:34	----	10000	9900	5600	1350	22	1323.0	--	--
22	181:20	----	7150	2900	7800	28500	140	1109.0	2	--
23	282:25	----	14600	9100	9550	16700	286	139.4	--	--
24	393:39	----	12600	6050	13200	47800	322	2621.0	17	--
25	270:39	----	8050	3250	8950	36200	---	1869.0	--	3
26	227:15	----	8650	3350	5350	29250	64	1648.5	30	--
27	86:10	----	3100	1000	1700	3400	52	717.0	19	--
28	260:24	----	3950	1550	4200	23300	390	1544.3	--	40
29	175:24	----	8750	8000	5750	4400	152	584.5	1	2
Trk. 1	275:02	----	---	---	---	---	6434	1135.0	--	--
2	156:39	----	300	---	500	---	4154	569.5	--	--
3	264:20	----	200	---	200	---	7097	1038.5	--	--
4	759:50	----	---	---	---	---	5499	1067.5	--	--
5	784:46	----	200	---	---	---	7071	597.0	--	--
6	170:50	----	---	---	---	---	2394	834.0	--	--
7	350:20	----	100	---	---	---	5918	2169.0	23	--
8	136:52	----	100	---	---	---	1097	624.6	6	--
9	107:17	----	---	250	250	---	1632	75.5	--	--
10	239:57	----	---	---	---	1000	2866	1504.5	--	--
Squad 1	263:02	----	---	---	---	---	12	1789.0	--	--
Res. 1	206:49	----	---	---	---	---	---	1422.0	--	--
2	321:26	----	---	---	---	---	---	4432.0	--	--
3	223:44	----	---	---	---	---	---	2314.0	--	--
F.B. 1	40:24	----	---	---	750	---	---	215.0	--	--
2	74:20	----	100	100	450	---	210	301.0	11	--
Tur. 1	47:08	4000	---	---	---	---	---	102.0	2	--
Tnkr. 25	14:13	----	---	---	---	400	---	95.0	--	--
Ch. 1	77:07	----	---	---	850	4800	---	621.0	41	7
2	240:49	----	---	---	550	35250	---	1428.5	--	--

*Engine 17 deactivated 2/11/70

RESPONSE OF RESCUE UNITS

RESCUE 1

During the fiscal year the Jay W. Stevens Emergency Car responded to 464 fire alarms and other emergencies, working a total of 206 hours, 49 minutes and traveling 1422 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. The Jay W. Stevens Emergency car participated in a medical disaster exercise.

RESCUE 2

In addition to responding with the Jay W. Stevens Emergency Car, Rescue 2 responded to 757 other emergency calls, traveling 4,432 miles and working 321 hours, 26 minutes, caring for the following cases:

<u>First Aid Cases</u>	<u>Times Equipment Used</u>
83 Heart	215 Resuscitator-Inhalator
26 Respiratory	91 Miscellaneous Equipment
8 Burns	
12 Trauma	
18 Rescue	
42 Dead on Arrival	
406 Miscellaneous	

RESCUE 3

During the year Rescue 3 responded to 475 alarms, working 223 hours, 44 minutes, and traveling 2,314 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.

<u>First Aid Cases</u>	<u>Times Equipment Used</u>
51 Heart	113 Resuscitator-Inhalator
43 Respiratory	84 Miscellaneous Equipment
3 Burns	
83 Trauma	
28 Rescue	
27 Dead on Arrival	
82 Miscellaneous	

RESPONSE OF RESERVE COMPANIES

Co.	No.	Phantom Boxes	Boxes	Telephone	Radio	Stills	Total Alarms
Eng.	6R	1	-	-	-	-	1
	8R	2	-	4	-	-	6
Trk.	1R	1	1	-	-	-	2

EMERGENCY FIRE SERVICE BY RESERVE COMPANIES

Co.	No.	Time H-M	HOSE LAID				Ladders Ft. Bstr.	Miles Run	Fire Prot. Dist.	M. A. Dist.
			3 1/2"	3"	2 1/2"	1 1/2"				
Eng.	6R	4:30	-	----	----	-	---	6	-	-
Eng.	8R	9:27	-	1200	1500	-	750	28	-	1
Trk.	1R	2:00	-	----	----	-	---	20	6	-

OUTSIDE CITY FIRE PROTECTION

Fire protection services were provided for the following Rural Fire Protection Districts and Water Districts during the 1969-70 fiscal year under fire protection agreements.

<u>DISTRICT</u>	<u>SQ. MILES</u>	<u>ESTIMATED POPULATION</u>	<u>REVENUE</u>	<u>AGREEMENT NO.</u>
RFPD #1 (Kenton)	2.53	1070	\$151,536.66	12517
RFPD #4 (Sylvan)	.88	760	36,415.22	12518
RFPD #26 (Oregon Ship)	.70	----	41,552.96	12477
Burlington Water Dist.	1.40	410	10,373.56	12514
Capitol Highway Water Dist.	2.91	4570	97,840.10	12550
Valley View Water Dist.	.61	632	28,411.90	12483
			<u>\$366,130.40</u>	
Private Agreements			<u>\$ 28,440.63</u>	
Total Revenue			<u>\$394,571.03</u>	

MUTUAL AID

The City of Portland was a participant in Mutual Aid during 1969-70 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.

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.	6	2	----	50	----	----	--	44.0	1:44
	8	89	2050	1600	4600	13100	30	490.0	72:46
	9	1	----	----	----	----	--	20.0	4:40
	13	2	----	----	350	----	--	26.0	7:08
	14	11	1800	1000	450	800	34	63.0	10:16
	22	12	150	----	450	500	--	92.0	10:41
	24	17	1700	1300	700	800	36	115.0	22:09
	26	29	3000	2300	2000	2750	--	249.0	43:21
	29	1	----	----	----	----	--	24.0	0:54
Trk.	5	2	200	----	----	----	255	26.0	6:02
	7	20	----	----	----	----	444	153.0	22:17
	9	10	----	----	----	----	296	293.0	10:34
F.B.	3	5	----	----	----	----	--	37.0	5:00
Turret	1	1	----	----	----	----	--	24.0	0:54
Chem.	1	41	----	----	200	1200	--	244.0	35:15
Res.	3	43	----	----	----	----	--	544.0	24:40
Tnkr.	6	2	----	----	----	----	--	44.0	1:44
Total		288	8900	6250	8750	19150	1095	2488.0	280:05

RURAL FIRE PROTECTION DISTRICT NO. 4

Eng.	3	1	----	----	----	450	--	8.0	1:36
	15	3	----	----	----	250	300	22.9	2:18
	17	5	----	----	----	750	--	33.0	5:17
Trk.	8	1	----	----	----	----	--	10.0	0:34
Total		10	----	----	----	1450	300	73.9	9:45

RURAL FIRE PROTECTION DISTRICT NO. 26

Eng.	8	7	600	----	100	500	--	68.0	6:19
	22	3	600	850	450	----	--	14.0	3:30
	26	4	600	450	100	----	--	40.0	4:50
	27	4	----	100	----	----	--	54.0	4:00
Trk.	9	2	----	----	150	----	--	8.0	3:15
F.B.	3	4	----	----	----	----	70	27.0	3:10
Chem.	1	5	----	----	200	----	--	50.0	5:18
Res.	3	5	----	----	----	----	--	74.0	3:59
Total		34	1800	1400	1000	500	70	335.0	34:21

BURLINGTON WATER DISTRICT

Eng.	6	2	----	----	400	400	--	28.0	2:25
	16	1	----	----	----	----	--	12.0	0:24
	22	6	----	100	400	500	--	64.0	5:37
	27	15	250	50	400	1000	22	104.0	10:00
Trk.	9	4	----	----	----	----	--	232.0	3:47
F.B.	3	2	----	----	----	----	--	6.0	1:00
Res.	3	9	----	----	----	----	--	89.0	5:31
Chem.	2	1	----	----	----	----	--	22.0	1:26
Tnkr.	6	2	----	----	----	----	--	28.0	2:25
Total		42	250	150	1200	1900	22	585.0	32:35

EMERGENCY FIRE SERVICE OUTSIDE CITY LIMITS (cont)

AREAS UNDER FIRE PROTECTION AGREEMENTS

CAPITOL HIGHWAY 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.	5	3	350	----	300	----	--	19.0	4:18
	10	2	300	----	----	----	--	16.0	1:12
	18	35	600	50	850	2750	--	147.1	22:25
Trk.	8	4	----	----	----	----	86	27.0	6:16
Res.	2	4	----	----	----	----	--	58.0	2:37
Total		48	1250	50	1150	2750	86	267.1	36:48

VALLEY VIEW WATER DISTRICT

Eng.	2	1	----	----	----	----	--	9.0	0:26
	5	3	----	----	300	----	--	21.0	3:08
	10	1	----	----	----	----	--	14.0	1:05
	15	2	----	----	----	----	--	10.7	0:57
Total		7	----	----	300	----	--	54.7	5:36

PRIVATE

Eng.	22	8	200	----	450	750	--	79.0	6:47
Trk.	9	6	----	----	----	----	24	42.0	3:10
Res.	3	7	----	----	----	----	--	44.0	2:58
Total		21	200	----	450	750	24	165.0	12:55

TOTAL OF OUTSIDE CITY PROTECTION AGREEMENTS

450	12400	7850	12850	26500	1597	3968.7	408:05
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AREAS UNDER MUTUAL AID AGREEMENT

RURAL FIRE PROTECTION DISTRICT NO. 2

Eng.	19	5	----	----	----	200	--	13.0	1:49
	28	4	----	----	----	250	--	26.5	1:51
Total		9	----	----	----	450	--	39.5	3:40

RURAL FIRE PROTECTION DISTRICT NO. 10

Eng.	11	51	1600	850	450	500	34	153.0	17:15
	19	4	----	----	150	450	--	14.0	1:14
	25	1	----	----	----	----	22	7.0	1:01
Trk.	6	1	----	----	----	----	12	3.0	0:22
Total		57	1600	850	600	950	68	177.0	19:52

EMERGENCY FIRE SERVICE OUTSIDE CITY LIMITS (cont)

AREAS UNDER MUTUAL AID AGREEMENT

RURAL FIRE PROTECTION DISTRICT NO. 12

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	--	14.0	0:54
11	6	450	450	250	----	--	18.5	5:31
16	1	----	----	----	----	--	22.0	1:26
25	2	----	400	300	450	--	11.0	4:23
29	1	----	----	----	----	--	10.0	1:44
Trk. 10	6	----	----	----	----	46	26.0	3:32
Turret 1	1	----	----	----	----	--	10.0	1:44
Res. 2	1	----	----	----	----	--	15.0	0:27
Total	19	450	850	550	700	46	126.5	19:41

RURAL FIRE PROTECTION DISTRICT NO. 13

Eng. 8	4	----	----	200	200	34	22.0	2:39
14	16	----	----	150	400	22	80.0	6:32
19	1	450	----	----	----	--	5.0	0:20
28	36	250	----	250	1000	--	102.5	10:21
Trk. 6	1	----	----	----	----	--	5.0	0:34
Chem. 1	1	----	----	----	----	--	4.0	0:15
Eng. 8R	1	600	600	----	----	--	4.0	3:27
Total	60	1300	600	600	1600	56	222.5	24:08

VANCOUVER

Eng. 8	1	----	----	----	----	--	9.0	0:17
Res. 3	1	----	----	----	----	--	9.0	0:17
Total	2	----	----	----	----	--	18.0	0:34

TOTAL OF OUTSIDE CITY MUTUAL AID

147	3350	2300	1750	3700	170	583.5	67:55
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AREAS NOT UNDER FIRE PROTECTION OR MUTUAL AID AGREEMENT

Eng. 5	3	750	----	250	----	--	23.0	3:30
6	1	----	----	----	----	--	30.0	1:00
17	1	----	----	----	----	--	8.0	0:30
18	3	150	----	350	250	14	20.6	1:50
29	1	----	----	----	----	--	16.0	1:47
Trk. 8	2	----	----	----	----	12	15.0	2:15
Tnkr. 6	1	----	----	----	----	--	30.0	1:00
Total	12	900	----	600	250	26	142.6	11:52

TOTAL OF EMERGENCY SERVICE OUTSIDE CITY LIMITS

609	16650	10150	15200	30450	1793	4694.8	487:52
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PROPERTY & EQUIPMENT MAINTENANCE DIVISION

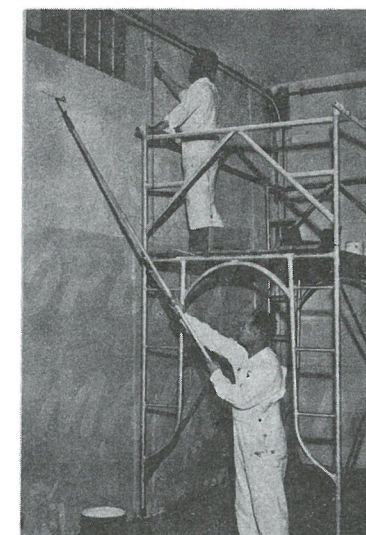
PROPERTY AND STATION EQUIPMENT MAINTENANCE SECTION

The properties of the Bureau of Fire have been maintained in excellent condition during the past year as the result of service inspections and a corrective maintenance and repair program. This work is performed by the Bureau's carpenters, plumbers, electricians, painters, and utility workmen, under the supervision of Mr. A. A. Alwick, Superintendent of Buildings. This section also maintains and repairs furnishings and equipment used in all Fire Bureau buildings.

Principal projects completed during the past fiscal year included: replacement of garbage disposal units, dishwashing machines, hot water heaters, and refrigeration units in several engine houses, major painting work at thirteen engine houses, repairs to leaking roofs at five stations, and separation of sewer lines to conform to the new plumbing code on sanitary and storm sewer systems.

Preventive maintenance is a prime concern and responsibility of this Section. To this end, numerous repairs, changes, or replacements were accomplished in each station. Various security devices were installed in all of the Fire Bureau buildings in an effort to eliminate pilferage and vandalism and provide better security for fire stations and apparatus.

Ladders, pike poles, axes, hammers, and various other fire fighting tools were repaired. Chairs, desks, and other furniture were repaired and/or refurbished. Engine house and ground maintenance tools were repaired or replaced in an effort to keep the Fire Bureau property serviceable and attractive.



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 7/1/69	Improvements To Land & Buildings 7/1/69-6/30/70	Equip. & Furnishings
Eng. 1	SW 57 Ave. & Barnes Rd.			14650 sq. ft.	\$ 5,028.37	\$ 5,028.37	\$ 5,028.37	\$	
Eng. 2	630 SW Gaines	1S Frame	1962	93x120x90x100	59,744.05	Owned by State	66,925.60		3,132.77
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	186,813.75	2,257.42	5,121.28
Eng. 5	1505 SW DeWitt	1S Brick	1960	141.7x163.94	112,644.38	23,020.00	145,892.24		4,924.66
Eng. 6	3660 NW Front Ave.	1S Rein. Conc. & Block	1960	140x140	127,964.49	Leased	143,001.50		3,494.80
Eng. 7	1036 SE Stark St.	2S Brick	1927	50x100	33,314.35	4,250.00	41,099.39		2,600.03
Eng. 8	7134 N Maryland Ave.	1S Brick	1960	100x165	102,723.33	12,940.00	121,965.06		3,007.67
Eng. 9	900 SE 35th Ave.	2S Brick	1912	33-1/3x100	15,000.00	1,935.00	22,925.89		2,820.24
Eng. 10	5830 SW Kelly St.	1S Brick	1925	65x100	12,500.00	500.00	14,867.63		2,466.27
Eng. 11	5707 SE 92nd Ave.	1S Brick	1928	87-1/2x130	10,080.00	1,550.00	12,618.62		1,846.29
Eng. 13	926 NE Weidler	1S Brick	1955	100x100	94,964.00	2,500.00	102,864.03		5,221.90
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		1,713.06

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 7/1/69	Improvements To Land & Buildings 7/1/69-6/30/70	Equip. & Furnishings
Eng. 16	4465 NW Yeon Ave.	1S Brick	1944	Tri. 2,775 sq. ft. tract	\$ 30,830.55	\$ 1,100.00	\$ 32,245.19	\$	\$ 1,459.76
Eng. 18	8720 SW 30th Ave.	1S Brick	1960	113x155	121,153.66	11,973.88	139,666.39		3,141.33
Eng. 19	7301 E Burnside	1S Brick	1953	123.97x151.61	80,973.00	2,275.00	92,174.95		4,735.47
Eng. 20	2235 SE Bybee Ave.	1S Brick	1959	125x175	110,050.89	9,500.00	128,578.20		2,714.94
Eng. 21	55 SW Ash	3S Brick	1950	200x200	511,000.60	75,000.00	582,964.69		25,596.19*
Eng. 22	7205 N Alta St.	1S Brick	1954	100x100	93,024.00	2,500.00	98,321.64		4,112.12
Eng. 23	2915 SE 13th Pl.	3S Brick	1962	Incl. in D.F. Lot	174,078.61	392.38	196,335.44		5,458.52
Eng. 24	4515 N Maryland Ave.	1S Brick	1959	120x170	117,447.80	28,927.30	159,205.06		5,699.53
Eng. 25	5211 SE Mall St.	1S Brick	1959	100x150	116,468.88	10,832.29	124,824.68		4,253.78
Eng. 26	5247 N Lombard St.	1S Brick	1928	85x100	10,280.00	2,010.00	16,065.86		1,998.99
Eng. 27	11212 NW St. Helens Rd.	1S Brick	1940	100x100	12,600.00	1,815.00	43,995.78		2,538.95
Eng. 28	5540 NE Sandy Blvd.	2S Brick	1912	100x100	8,000.00	1,470.00	10,216.47		2,104.40
Eng. 29	5 SE Madison St.	1S Rein. Conc.	1960	Approx. 1 Acre	147,980.62	10,062.00	180,899.88		2,983.17

*This figures does not include equipment in the third floor offices in the amount of \$44,692.74

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		Equip. & Furnishings	
							Land & Impr. To 7/1/69	Improvements To Land & Buildings 7/1/69-6/30/70		
Auto Shop	1026 SE Stark St.	1S Frame	1964	50x100	\$ 21,386.18	\$	\$ 21,386.18	\$	\$ 19,474.26	
Carp. Shop	Stanton & Kirby								22,145.78	
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		17,094.60	
Fire Alarm Whse.	NE 21st & Pacific	2S Rein. Concrete	1956	50x100	47,000.00	115.00	52,053.86		9,129.31	
Boat Hse. 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.								14,448.31	
**Eng. 17 (old)	824 NW 24th Ave.	2S Brick	1912	50x100 & 38x54	12,000.00	7,796.60	20,613.94		154.38	
							\$2,670,876.41	\$3,575,509.89	\$ 2,257.42	\$196,584.23

** Used for Toy & Joy Warehouse

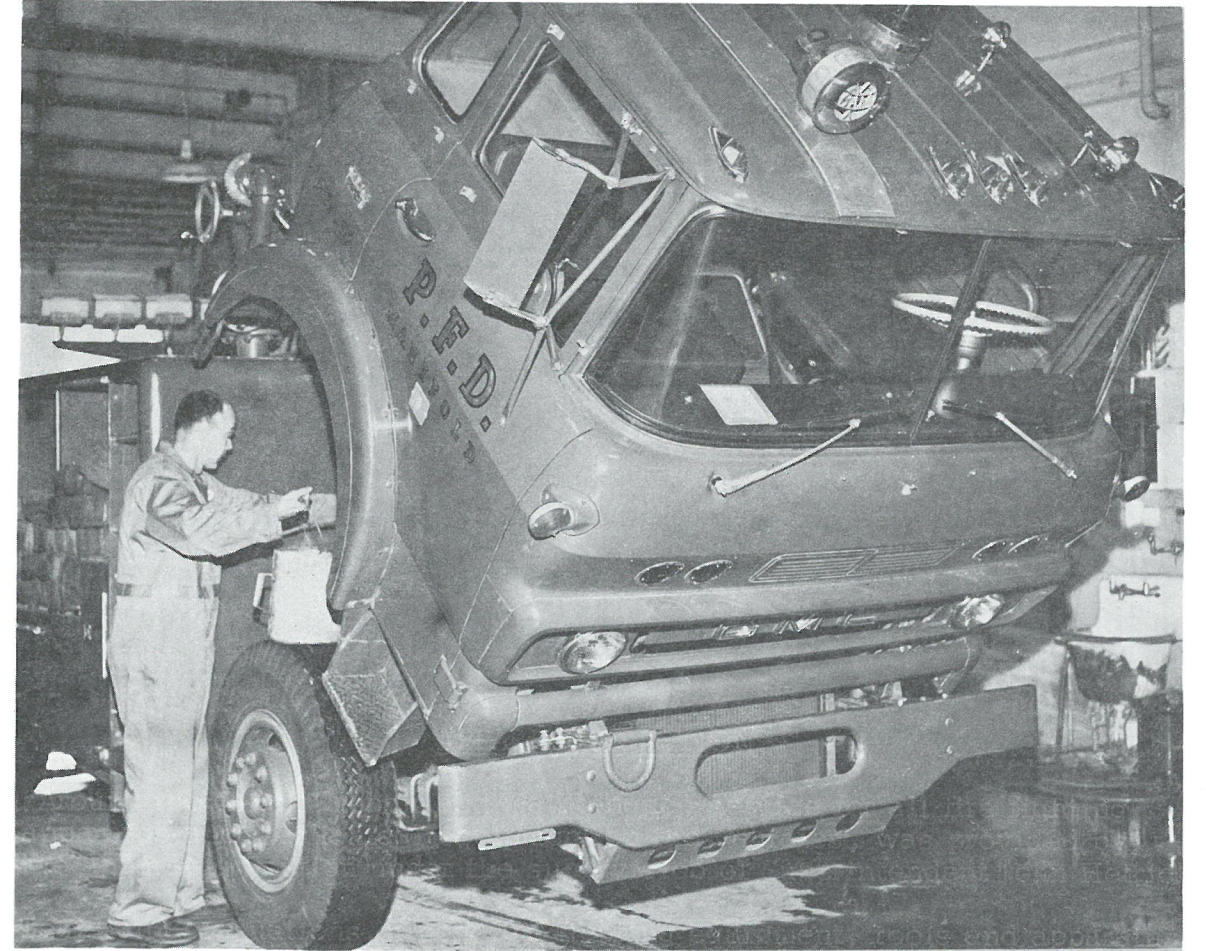
APPARATUS SECTION

"Around the-Clock" repair and maintenance service for all fire fighting apparatus and mechanical equipment on the vehicles, was provided by the Apparatus Section under the supervision of Superintendent John Hetrick.

Tests and evaluations of new fire fighting equipment, tools and apparatus supplies were also performed or supervised by this section. Various fire companies assisted in some of these tests and evaluations by actual use on emergency calls.

New vehicles put into service during the past fiscal year included two Battalion District station wagons and four automobiles. Contracts were let for an aerial platform ladder truck and a forty-three foot jet propelled fireboat. Preliminary specifications and plans for two new combination pumper and chemical apparatus and a new rescue vehicle were assembled for anticipated construction in this next fiscal year.

Proficiency training and examinations were conducted for drivers, pump operators, fireboat engineers and fireboat pilots, Certificates of qualification were issued to personnel who completed the training and passed qualifying examinations.



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	95	Hahn	HPBT	1250	300	STD	9-16-68	HC14512689FMVSS	36,863.40
4	84	Kenworth	HPB	1500	150	STD	2-15-52	601725	22,715.00
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	33	Seagrave	QUAD	1000	300	STD	4-15-54	G-8500	23,055.89
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	90	Maxim	HPB	1500	200	STD	2-15-52	601732	19,740.63
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
									\$651,091.86

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
IR	5	Federal	HT	---	---	---	3-15-57	104245	3,322.00*
									\$ 63,055.30

*Conversion Cost

RESERVE ENGINES

Co. No.	App. No.	Location	Make	Type	Capacity	In Service	Motor or I.D. No.	Cost
Eng. 1 R	64	Eng. 23	Fageol	HP	1000	10-07-38	360042	\$ 8,640.05
2 R	13	Eng. 20	Mack	HPB	1000	1-01-45	EY19-92F	11,436.12
3 R	66	Eng. 9	Fageol	HP	1000	10-07-38	360043	8,657.05
4 R	17	Eng. 7	Mack	QUAD	1250	10-14-49	21LS1077	17,214.00
5 R	91	Eng. 23	Maxim	HPBT	1500	2-15-52	601734	19,730.62
6 R	40	Eng. 6	Mack	QUAD	1250	7-21-48	21LS1048	16,745.00
7 R	74	Eng. 20	Mack	HBP	1000	9-18-43	EY22-76F	9,961.12
8 R	43	Eng. 14	GMC	HBT	Hose Wagon	8-19-54	5034711	17,130.45
								\$109,514.41

Apparatus No. 68 being dismantled for parts

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	4	Eng. 4	Seagrave	100' Tractor	1-30-56	H-9740	37,179.93
3	39	Eng. 3	Am. LaFrance	100' Tractor	2-17-50	BM131473	36,000.00
4	35	Eng. 23	Seagrave	85' 4-Wheel	12-18-59	L-2453	42,916.00
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	29	Eng. 25	GMC	City Service B	6-25-54	5035750	19,401.27
							\$393,677.30

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	24	Eng. 13	Kenworth	City Service B	2-29-39	109424022	11,365.70
3 R	49	Eng. 8	GMC	City Service B	10-19-54	5035654	20,568.81
							\$ 53,734.51

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

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
								\$ 27,302.20

FIREBOAT TENDER

31 Tur. 1	Eng. 29	23	Kenworth	H&T		6-30-48	1456K715215	\$ 11,100.24
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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	Pageol	PBC 1000 gal.	10-01-64	360040	8,645.00*
E-21 Chem. 2	65	Pageol	PBC 1000 gal.	8-01-65	360041	9,000.00*
						\$ 84,619.97

*Conversion Cost

**Purchase Price Including Trade-in

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

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-29	Plymouth	Sta. Wgn.	P45H9D23080	3-10-69	2,496.00
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 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-5	Plymouth	Sta. Wgn.	PE45G8D196946	2-16-68	2,480.30
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
						\$68,320.67

REAL ESTATE - LAND & BUILDINGS

Fire Stations - Double	12	\$ 2,220,903.46
*Fire Stations - Single	15	814,163.52
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 Bldg.		7,393.54
Reserve Station (Old E-17)		20,613.94
Proposed Station Eng. 1		<u>5,028.37</u>

(Land Only)

\$ 3,575,509.89

MOBILE EQUIPMENT

	Active	Reserve	
Automobiles	35		\$ 68,320.67
Pumpers	25	5	686,460.93
Ladder Trucks	10	3	447,411.81
Manifolds	4		63,055.30
Compressors	1		15,701.68
Quads	1	2	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	2		17,645.00
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	<u>1</u>	<u>12</u>	<u>15,750.00</u>
	114		

\$ 1,889,498.67

241,276.97

1,517,390.00

\$ 7,223,675.53

Estimated Cost of Equipment & Furnishings

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

*Includes 1 House Boat

HOSE REPORT

I. INVENTORY

A. The inventory of fire hose in the Portland Fire Bureau was as follows on 30 June, 1970:

1-1/2"	1,005 lengths	50,250 feet
2-1/2"	1,188 lengths	59,400 feet
3"	1,107 lengths	55,350 feet
3-1/2"	<u>160 lengths</u>	<u>8,000 feet</u>
TOTAL	3,460 lengths	173,000 feet

B. The distribution of fire hose, (shown as LENGTHS), is as follows:

	<u>1-1/2"</u>	<u>2-1/2"</u>	<u>3"</u>	<u>3-1/2"</u>
First Line Companies	<u>687</u> 34350	<u>905</u> 45250	<u>826</u> 41300	<u>115</u> 5750
Reserve Companies	<u>73</u> 3650	<u>164</u> 8200	<u>168</u> 8400	
Hose Warehouse	<u>192</u> 9600	<u>119</u> 5950	<u>113</u> 5650	<u>45</u> 2250
Test Hose	<u>12</u> 600			
Washdown Hose	<u>41</u> 2050			
TOTALS	<u>1005</u> 50250	<u>1188</u> 59400	<u>1107</u> 55350	<u>160</u> 8000

II. ACQUISITION AND DISPOSAL

A. Contracted/Accepted Fire Hose:

<u>DATE</u>	<u>SIZE</u>	<u>NO. LENGTHS</u>
7/15/69	1-1/2"	150
8/19/69	2-1/2"	180
8/26/69	1-1/2"	1
11/20/69	1-1/2"	1
3/19/70	2-1/2"	2
3/26/70	1-1/2"	10
5/22/70	1-1/2"	<u>100</u>
TOTAL ALL SIZES		444

HOSE REPORT (cont.)

B. Condemned Fire Hose sent to Property Control:

<u>1-1/2"</u>	<u>2-1/2"</u>	<u>3"</u>	<u>3-1/2"</u>
193	282	33	17

C. Fire Hose declared Lost/Dropped by Property Control from the Portland Fire Bureau Account, but later found and again added to the Inventory:

<u>1-1/2"</u>	<u>2-1/2"</u>	<u>3"</u>
1	1	2

III. HOSE REPAIR

A. The cost of repairing 45 lengths of assorted hose at the Municipal Shops during the year totaled \$414.67.

B. Repairs were also made on seven lengths of 1-1/2", one length of 2-1/2" and five lengths of 3" fire hose; a total of thirteen lengths. The STENOR-DART Vulcanizer was utilized in making these repairs.

IV. FIRE HOSE STATISTICS

A. 1-1/2" Fire Hose (1,005 lengths):

<u>YEAR</u>	<u>+ 10 YEARS AGE</u>	<u>- 10 YEARS AGE</u>	<u>% OF TOTAL</u>
53	9		.9
60	22		2.2
61		128	12.7
63		73	7.3
64		77	7.6
65		110	11.0
66		81	8.1
67		123	12.2
68		121	12.0
69		151	15.0
70		110	11.0
	31 (3.0%)	974 (97.0%)	100.0%

HOSE REPORT (cont.)

B. 2-1/2" Fire Hose (1,188 lengths):

<u>YEAR</u>	<u>+ 10 YEARS AGE</u>	<u>- 10 YEARS AGE</u>	<u>% OF TOTAL</u>
56	154		12.6
57	114		9.4
58	59		5.0
62		37	3.2
63		216	18.2
65		233	19.7
67		140	11.7
68		52	4.4
69		181	15.6
70		2	.2
	327 (27.5%)	861 (72.5%)	100.0%

C. 3" Fire Hose (1,107 lengths):

<u>YEAR</u>	<u>+ 10 YEARS AGE</u>	<u>- 10 YEARS AGE</u>	<u>% OF TOTAL</u>
58	185		16.7
60	152		13.7
62		313	28.3
64		228	20.6
67		98	8.9
68		131	11.8
	337 (30.0%)	770 (70.0%)	100.0%

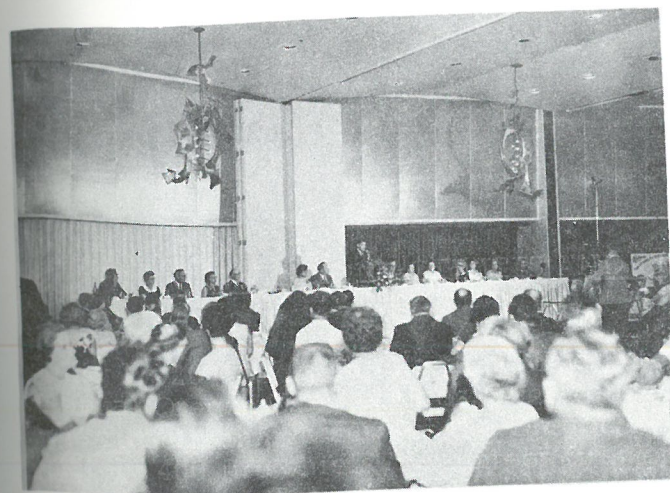
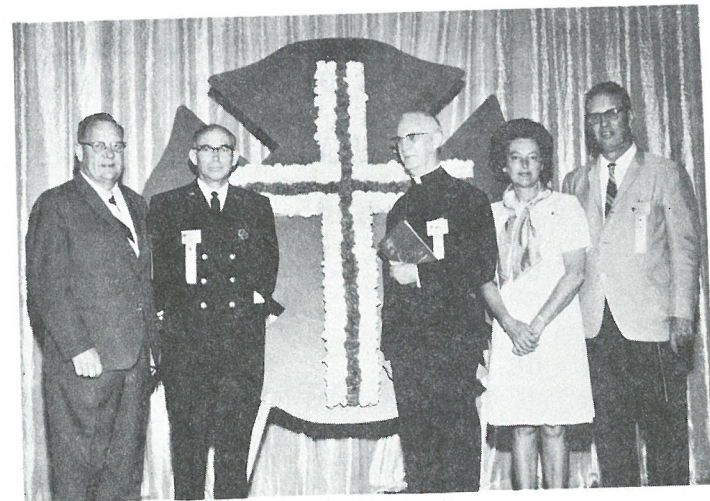
D. 3-1/2" Fire Hose (160 lengths):

<u>YEAR</u>	<u>+ 10 YEARS AGE</u>	<u>- 10 YEARS AGE</u>	<u>% OF TOTAL</u>
55	18		11.3
65		21	13.1
66		40	25.0
68		81	50.6
	18 (11.3%)	142 (88.7%)	100.0%

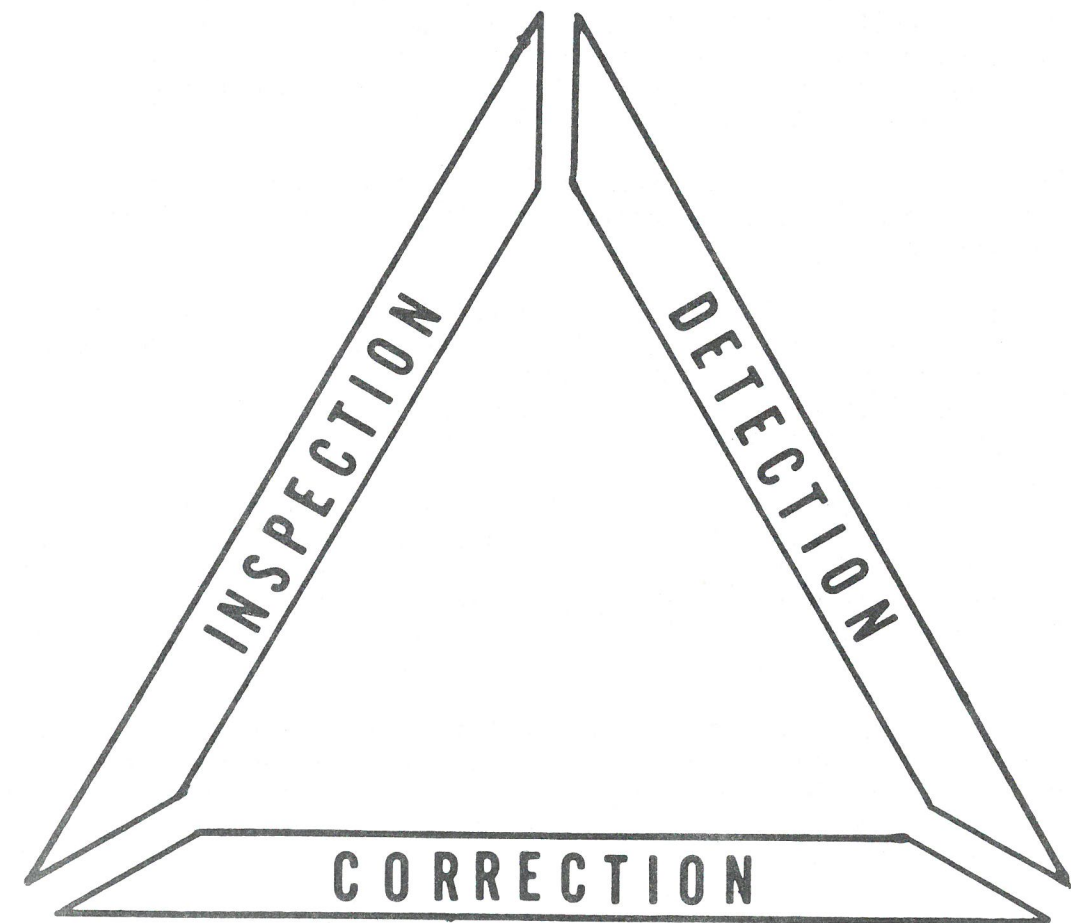
CONVENTION ACTIVITIES AND FIRE PREVENTION EDUCATION

June 17-20, 1970, the Portland Fire Bureau served as host to the Twelfth Annual Oregon Fire Services Conference. This Conference commemorated the fiftieth anniversary of the Oregon Fire Chiefs' Association. Approximately 400 fire chiefs, volunteer firemen and rural fire protection district directors attended the conference. Activities involved the Oregon Fire Chiefs' Association, Oregon Rural Fire Protection Association, and the Oregon Volunteer Firemen's Association. The Honorable Mark O. Hatfield, United States Senator, was the keynote speaker for the closing banquet.

Fire Prevention Education activities of the Portland Fire Bureau involved firemen in speaking engagements, seminars and clinics, news media features, civic projects, and industrial fire brigade training. Through these activities, many people were exposed to fire prevention measures, fire fighting techniques, and the importance of the fire fighter in today's progressive society.



FIRE PREVENTION DIVISION





Connie McCready
COMMISSIONER

James H. Riopelle
CHIEF

CITY of PORTLAND, OREGON

BUREAU OF FIRE FIRE PREVENTION DIVISION

55 S.W. ASH STREET 97204

JAMES R. KERR FIRE MARSHAL



Phone 228-6141
Ext. 485

Dear Chief Riopelle:

The report of the activities of the Fire Prevention Division presented on the following pages indicates two things clearly: The staff is doing a tremendous job for the number of people involved; the number of people doing fire prevention work is much too small. The city continues to grow and with it the need for services which a diminishing complement of inspectors cannot provide. We are exploring all means of enlarging the work output to correct this situation in as far as possible.

Our fire and fire loss statistics are provided by the State Fire Marshal data processing system and, to provide continuity, are presented in the same format as in the two preceding years.

The lull in the number of alarms that was noted in our last annual report was indeed temporary, as evidenced by an increase from 7,273 during 1968 to a total of 8,741 during 1969. Fire loss attributable to the fires in this list of alarms was \$5,030,916, which is an unprecedented \$13.32 per capita loss, based on a population of 377,800, and is up \$3.21 per person from last year.

The tragedy of this loss to the people of Portland is made more profound by the fact that half of the loss is due to wanton destruction from arson fires.

The trend toward increase in false alarms continues in Portland, as it does in most of the nation, with a total in 1969 of 774, up nearly 9 per cent from the year before.

The magnitude of fire loss, both from natural and from arson fires, and of the costly false alarm situation is now attracting top level governmental attention and ways of combatting these problems are being studied at congressional level. It is to be hoped that some practical and effective countermeasures will be devised from this movement.

It is my reluctant duty to report that 16 lives were lost due to fire in 1969. Twelve were in hotels, homes, and apartments; three died fiery deaths following auto collisions; and one youth was too careless with a pan of gasoline. I am relieved to note that none of the sixteen were children.

Let there be confusion in comparing reports, I would like to point out that the 1969 total fire loss in Portland of \$4,027,153 as published in the annual report of the State Fire Marshal is compiled from reports on insured risks filed by insurance companies within certain specified cut-off dates. The \$5,030,916 appearing in this report includes all losses, insured and uninsured, in the calendar year proper, regardless of dates that reports are filed. It must be anticipated that there will always be discrepancies in two such compilations even though both are indeed factual.

Juveniles caused fires last year in Portland that were responsible for \$288,743 fire loss. 161 of these juveniles were apprehended; 18 were convicted and 143 remanded to their parents.

Schools (elementary, high schools, and colleges) suffered \$638,725 loss from arson.

Fire inspectors from this office made 27,476 routine and special inspections during 1969 with 10,423 hazards and code violations noted and abated.

The Fire Code Board of Appeal was convened once during the year to hear an appeal by Portland General Electric Company on construction of a heliport.

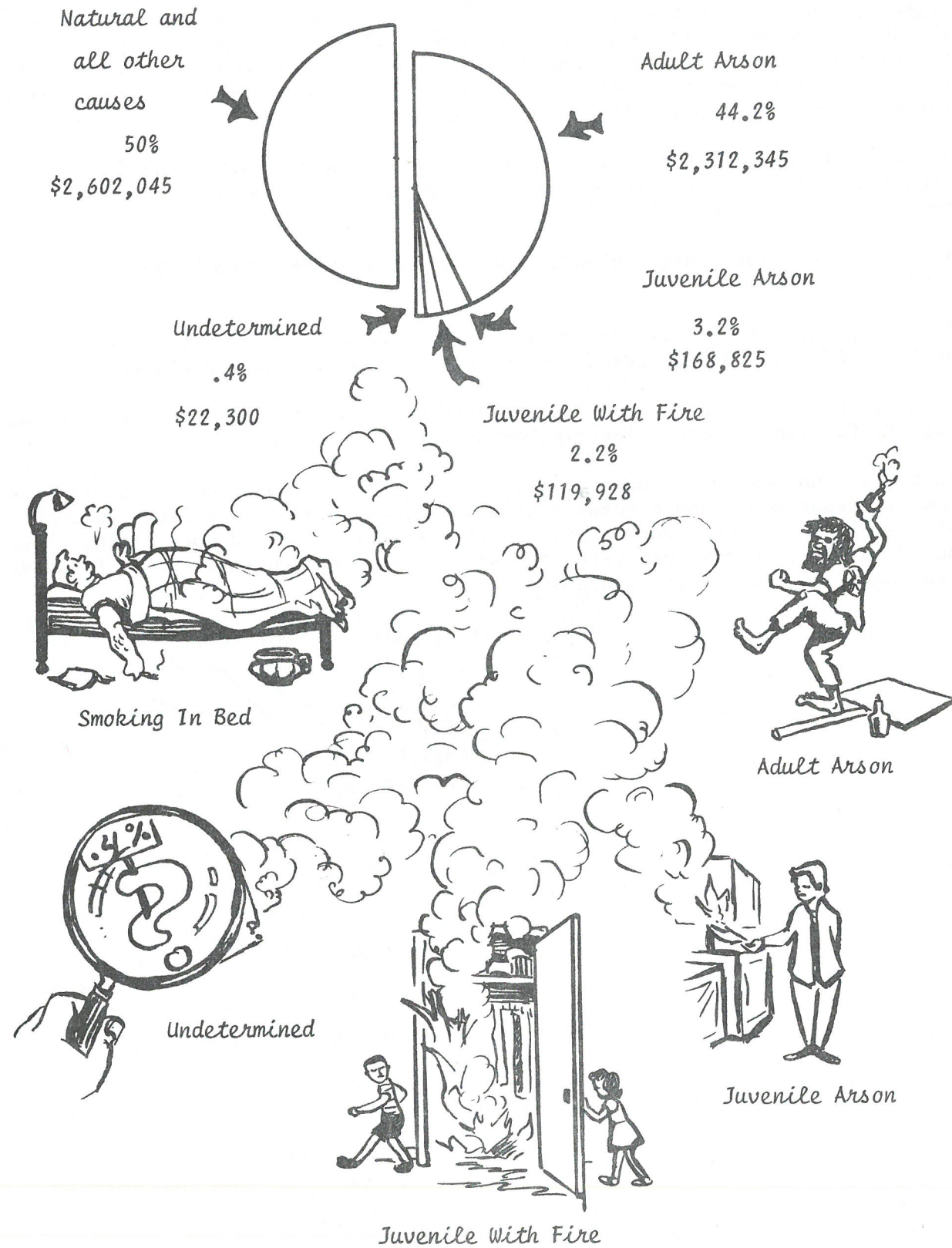
This division has had unqualified support and cooperation from our Commissioner and all departments and bureaus with whom we have dealt. The close cooperation of the plans examiners and inspectors in the closely allied work of the City Building Division has been vital to what success we have attained in forwarding meaningful and effective fire protection.

Respectfully submitted,


JAMES R. KERR
Fire Marshal

SLICING THE FIRE LOSS

Total Loss \$5,225,433.



SUMMARY OF INSPECTION WORK

Calendar Year 1969

Total Number of District Fire Inspections	19,755
Special Inspections (Complaints)	7,721
Total Number of Violations or Hazards Noted	13,474
Total Number of Abatements or Corrections	10,423
Hospital Inspections	67
Institutional Home Inspections	146
Private Home for Welfare Recipients	82
Theaters Inspected	111
Clubs and Other Places of Public Assembly, Night Inspections	251
Schools Inspected - Public and Parochial	426
Fire Prevention Lectures	174
Movies and Visual Aids	93
Fire Exit Drills	1,723
Fire Marshal Permits	1,574
Certificates of Fitness	348
Oil Burning Equipment Installations, Permits and Inspections	575
Gasoline Tank and Pump, Permits and Inspections	125
Bulk Oil Storage Applications Processed for Council Action and Permitted by Ordinance	8
Revenue from Fees:	
All Permits, Fire Reports, Etc.	\$10,537.81
Bulk Oil Storage	800.00
	<u>\$11,337.81</u>
Licenses - Inspection for Approval	613
Plans Examined and Approved by Fire Marshal Plans Examiner:	
New Construction and Alterations	3,920
Propane Permits and Installations	28*

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

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SUMMARY OF FIRE ALARMS
Calendar Year 1969 70

Incidents in Buildings			1,226	
				1,221
Fires in Buildings (by Construction)				
Type I and II (Fire resistive, noncombustible)	33	81		
Type III (Masonry walls, 1-hr. combustible)	196	137		
Type IV (Metalclad)	13	12		
Type V (Frame)	984	991		
Incidents Other than Buildings	5267		8,045	7,519
Mobile Stock Fires				
Auto Fires	690	519		
Trucks, General	58	49		
Other Vehicles	16	17		
Railroad Cars	6	1		
Construction Equipment	10	8		
Boats and Ships	7	7		
Lawnmowers	3	4		
Grass, Trash, Brush and Bonfires, etc.	884	2,291		
Outside - Mutual Aid	283	396	283	
First Aid	1176	936	1,151	
False Alarms	1027	1,029	1,022	
Mail Boxes	9	3	2	
Wash Downs	370	414		
Smoke or Steam Scare	743	436		
Accidental or Defective Alarms	218	162		
Mistaken Alarms - 251	251	173		
Railroad Right of Way	67	35		
Bridges		2		
Bomb Scare	1	4		
Other Public Service	33	1,033		
Explosions	2			
Fences				
Outdoor Incinerators				
TOTAL CALLS			8,740	
			9,271	

ALARMS RECEIVED		GREATER ALARMS	
Box	1,094 1,107	2nd Alarms	22 11
Telephone	7,157 7,663	3rd Alarms	6 7
Still	317 370	4th Alarms	5 4
ADT	132 91	5th Alarms	4 0
Radio	40 40		
TOTAL	9,271	TOTAL	37 22
	8,740		

SUMMARY OF FIRE ALARMS
Calendar Year 1969

VALUES INVOLVED IN FIRE

Total Value of Buildings	\$200,998,355
Total Value of Contents	61,008,865
Total Value of Equipment	22,108,535
TOTAL	\$284,115,755
Total Loss of Buildings	\$ 3,702,488
Total Loss of Contents	1,166,468
Total Loss of Equipment	356,477
TOTAL	\$ 5,225,433
Total Insurance on Buildings	\$199,993,363
Total Insurance on Contents and Equipment	82,701,813
TOTAL	\$282,695,176

NOTE: 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.

REPORT OF FIRE INVESTIGATOR

Calendar Year 1969

FIRES INVESTIGATED:

Arson, Probable Arson & Attempted (where Dept. responded) . . .	278	430	
Juveniles with Fire (where Dept. responded)	206	200	
Fires Investigated with Cause Unknown	12	24	
Civil Disturbances	27		523
Fires Investigated and Found Not Incendiary	148	160	
Interviews and Interrogations by Investigators			5,652
			4,210

INCENDIARY, SUSPICIOUS AND JUVENILE LOSS BY CAUSE:

Arson, Probable Arson and Undetermined, Suspicious	\$ 2,334,645	\$2,623,398
Juvenile-Caused Fires (All Types)	\$ 288,753	

PERSONS APPREHENDED FOR FIRE SETTING OR INSURANCE FRAUD:

Juvenile with Fire	120	185	
Juvenile Arson	41	35	245
Arson (Adults over 18)	22	25	183

DISPOSITION OF INDIVIDUALS APPREHENDED:

Persons Convicted and/or Committed for Arson	33	
Juveniles (7 to 18 years)	18	
Adults (over 18 years)	15	
Remanded to Parents (Juveniles)	143	176

DISPOSITION OF ADULTS:

Awaiting Trial	5	
Convicted, Placed on Probation	6	
Convicted and Sentenced	3	
Committed to State Hospital	5	
On Appeal	1	
Dismissed - Lack of Evidence	2	22

FALSE ALARMS:

Total Number of False Alarms	1,029	1,022
Total False Alarms Cleared	75	
Total Number of Persons Apprehended for False Alarms	56	37

REPORT OF FIRE INVESTIGATOR

Calendar Year 1969

DISPOSITION OF INDIVIDUALS INVOLVED IN FALSE ALARMS:

Adults: Arrested	8	4
Juveniles: Referred to Juvenile Division	2	37
Remanded to Parents	46	56

FIRE DEATHS

Calendar Year 1969

1. ALEXANDER J. JOHNSON, 29, died January 16th of smoke inhalation and burns in a trailer house fire at 1503 N. Hayden Island. Cause: Smoker's carelessness.
2. ANDREW L. EVERETT, 18, died February 17th of burns to 90% of his body in a dwelling house fire at 8012 N. Interstate Avenue on February 16th. Cause: Careless use of gasoline while cleaning auto parts.
3. JOE MC KINNEN PIERCE, 50, died March 4th of burns to his body.
4. LUCY B. LUDLOW, 57, died March 5th of burns and smoke inhalation. The fire involving the two above deaths occurred March 4th at 920 S. W. Third Avenue, the New Haven Hotel. Cause: Arson.
5. ROBERT L. WARD, 35, died April 6th of smoke inhalation in an apartment fire at 573 N. Killingsworth. Cause: Smoker's carelessness.
6. WILLIAM EARL BOAG, 62, died May 25th of burns to 50% of his body from a hotel fire at 205 S. E. Grand Avenue occurring May 7th. Cause: Smoker's carelessness.
7. RICHARD J. ROHWER, 44, died July 1st of burns sustained to 70-80% of his body in a dwelling fire at 3311 N. E. Morris Street on June 19th. Cause: Probable smoker's carelessness.
8. JACK VAN DUYNE, 66, died July 2nd of smoke, heat and carbon monoxide inhalation in an automobile fire occurring June 27th at 5819 S. E. Milwaukie Avenue. Cause: Overheated engine.
9. ROBERT WARD, 71, died July 14th of smoke inhalation and burns in a dwelling house fire at 6436 N. E. 10th. Cause: Smoker's carelessness.
10. (See below)
11. JOHN A. HARREN and CATHERINE I. HARREN, both 22, died of burns from an automobile accident at the Union Avenue approach of the Banfield Freeway on September 27th. Cause: Subsequent auto fire due to sparks igniting gasoline vapors.
12. CORAL LEE NATHO, 28, died October 24th of 2nd and 3rd degree burns received in a dwelling house fire at 9226 N. Buchanan on September 6th. Cause: Juveniles playing with fire.

FIRE DEATHS

Calendar Year 1969

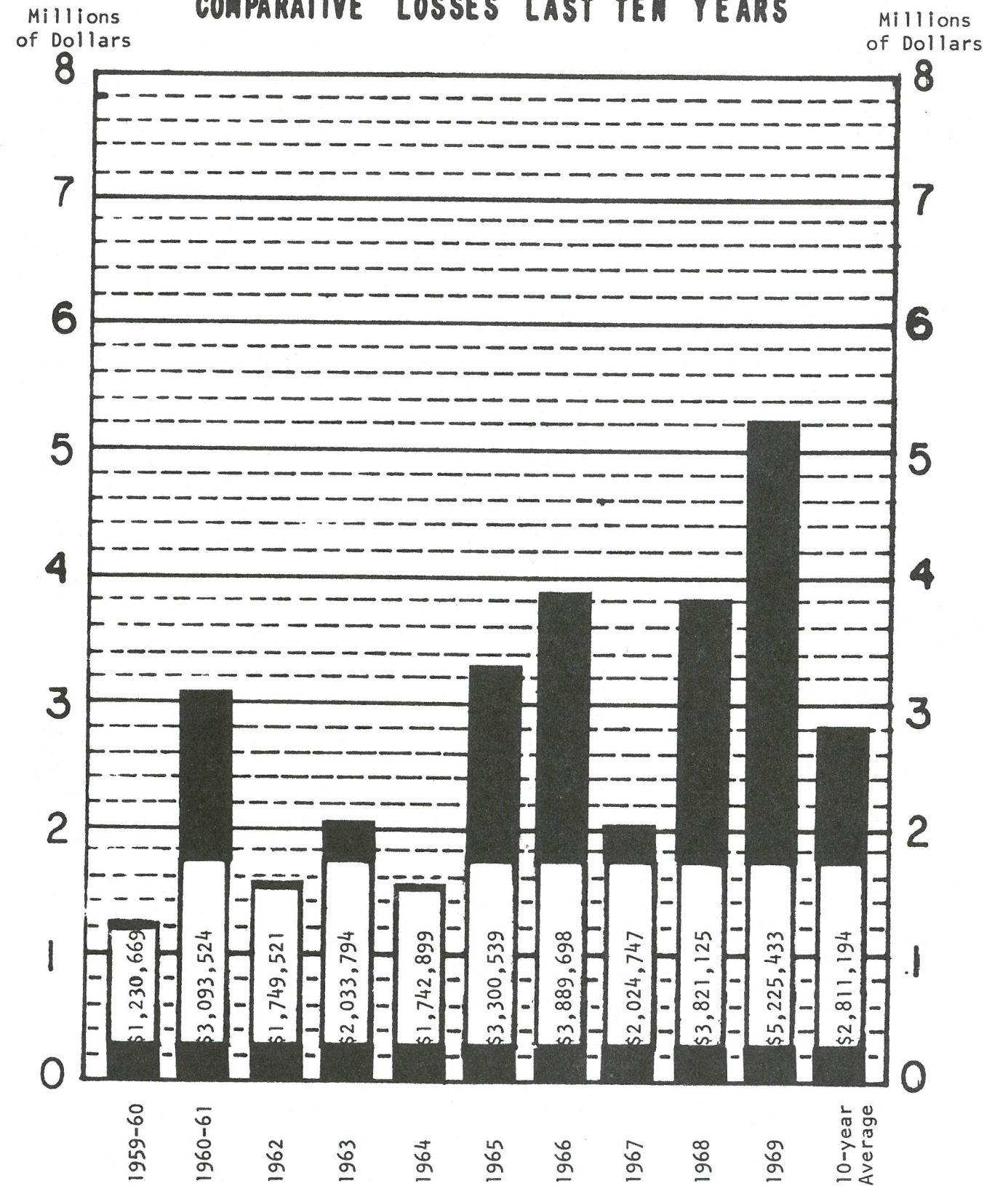
13. ARDEN STEINDL, 47, died November 3rd of smoke inhalation in a dwelling house fire at 8562 N. Chicago. Cause: Smoker's carelessness.
14. ERNEST F. JOHNSON, 66, died November 6th of smoke inhalation in his apartment at 310 N. W. 6th Avenue. Cause: Smoker's carelessness.
15. LORAIN SALOUM, 51, died December 6th of smoke inhalation in her dwelling house at 4704 S. E. Haig. Cause: Undetermined-possibly smoker's carelessness or a defective electric blanket.
16. HERSCHALL BARNETTE aka HERSHEL BARNETTE, 50, died December 8th of burns and smoke inhalation in his hotel room at 350 S. W. 10th Avenue. Cause: Probable carelessness with lighter fluid.
17. BERNICE COOLEY, 67, died December 31st of 2nd and 3rd degree burns from a fire occurring in her apartment at 133 N. W. Trinity on December 26th. Cause: Subject accidentally caught her nightgown afire while lighting a cigarette.

NUMBER OF BUILDING FIRES PER RANGE OF LOSS

Calendar Year 1969 70

1969	Under \$ 999	\$1,000 to \$2,499	\$2,500 to \$9,999	\$10,000 to \$99,999	\$100,000 to \$499,999	Over \$500,000	Total
January	54 64	7 13	14 11	4 2	-	-	79 90
February	55 71	78	5-10	3-3	-	-	86 76
March	7178	19 12	11 6	- 2	-	-	101 98
April	7763	10 13	19 10	5 4	1 1	1 1	112 92
May	7377	8 11	9 17	5 4	1 1	-	96 110
June	7674	7 15	12 14	5 4	3	1 1	103 108
July	9088	19 8	16 12	7 1	1 1	-	132 110
August	7692	11 11	9 12	2 1	1 1	1 1	99 117
September	6379	12 10	9 14	3 6	1	1	88 109
October	7489	9 14	15 12	5 3	1	1	105 118
November	7969	11 11	13 13	3 4	1	1	106 97
December	7190	16 11	9 9	7 2	1	1	103 112
TOTAL	885 908	142 131	138 143	47 38	6 4	2 2	1,221 1,226
TOTAL BUILDING FIRES WITH LOSS --							1,221 1,226

COMPARATIVE LOSSES LAST TEN YEARS



BUILDING INCIDENTS BY CAUSE

Calendar Year 1969

	Number of Calls
<u>Heating Equipment</u>	
Chimney or Flue	12
Electric Heater (Portable)	11
Electric Heater (Wall)	24
Fireplace (and Damper Closed)	6
Furnace or Stove, Gas	11
Furnace or Stove, Hard Fuel	12
Furnace or Stove, Oil	29
Furnace or Stove Pipes	5
Furnace Backfire, Oil	2
Gas Range or Stove	8
Gas Water Heater	7
Kiln Drying	1
Oven Heating or Bake Oven	4
Overheated Kettle	29
Space Heaters, Gas	12
Steam Pipes	3
Other Heating Equipment Not Defined	8
Total	<u>184</u>
<u>Human Elements</u>	
Candles	18
Children with Fire or Matches	206
Matches (Other than Children)	5
Smoking (Cigarette, Cigar, etc.)	277
Torch (Cutting or Welding)	15
Incendiary	278
Civil Disturbance	27
Total	<u>826</u>
<u>Electrical (Other than Heating)</u>	
Electric Appliance (Small Portable)	4
Electric Blanket or Pad	8
Electric Dryer	9
Electric Fixture (Outlet Plugs, Receptacles, etc.)	2
Electric Iron	1
Electric Light Bulb or Lamp (Lighting Fixtures)	11
Electric Motor	7
Radio (Short Circuit In)	1
Refrigerator and Compressor Motors	1
Range, Electric	15
T. V. (Short Circuit In)	13
Wire (Short Circuit or Arc In)	56
Wire (Short Circuit to Ground)	5
Ballasts	2
Miscellaneous Electrical Appliances (Non-Portable)	3
Total	<u>138</u>

BUILDING INCIDENTS BY CAUSE

Calendar Year 1969

	Number of Calls
<u>Miscellaneous Fires</u>	
Bonfire (Extended to Buildings)	8
Explosion (Fireworks, Bombs, etc.)	6
Explosion (Pressure Vessels, Compressed Gases, etc.)	1
Friction (Other than Auto)	4
Fuses	3
Incinerator (Extended to Buildings)	6
Hot Ashes	6
Open Flame	4
Molten Metal	3
Sparks from Running Machinery	5
Spontaneous Ignition (Chemical Action)	2
Spontaneous Ignition (Drying or Oxidation)	7
Tar Pot or Kettle (Overheated or Burning)	1
Miscellaneous - Undefined	4
Undetermined Source of Ignition	12
Static Charge	1
Total	<u>73</u>
TOTAL BUILDING INCIDENTS BY CAUSE	<u>1,221</u>

BUREAU RESPONSE BY OCCUPANCY

Calendar Year 1969

	Total Calls
<u>Public Assembly Properties</u>	
Amusement Centers	5
Churches - Chapels	4
City Clubs	2
Night Clubs and Taverns	6
Restaurants	28
Unclassified	2
Total	<u>47</u>
<u>Educational Properties</u>	
Colleges or Universities	4
Elementary Schools	7
High Schools	4
Total	<u>15</u>
<u>Institutional Properties</u>	
Mental Institutions	8
Nursing Homes	1
Juvenile Detention Homes	2
Total	<u>11</u>
<u>Residential Properties</u>	
Apartments, 3 to 20 Units	163
Dormitories	1
Dwellings	581
Hotels	59
Mobile Homes and Camp Trailers	3
Motels	1
Other Residential Properties	3
Total	<u>811</u>

BUREAU RESPONSE BY OCCUPANCY

Calendar Year 1969

	Total Calls
<u>Mercantile Properties</u>	
<u>Food Beverage Sales</u>	
Markets or Grocery	4
Supermarkets	15
<u>Textile</u>	
Fur Stores	1
Shoe Stores	2
Shoe Repair	1
<u>Household Goods</u>	
Appliance, Furniture or Hardware Stores	9
Music Stores	1
Rugs, Floor Coverings Stores	1
<u>Specialty Shops</u>	
Books and Stationery Stores	1
Drug Stores	2
Gift Shops	1
Jewelry Stores	1
<u>Recreation, Hobby Supply</u>	
Photographic Supplies	1
<u>Specialty Service</u>	
Barber, Beauty Shop	1
Laundries, Self-Service	13
<u>Motor Vehicles - Boats, Sales and Service</u>	
Accessory Sales	1
Motor Vehicle Repair	9
Public Service Station	7
<u>General Item Stores</u>	
Department Stores	2
Variety Stores	1
Total	<u>74</u>

BUREAU RESPONSE BY OCCUPANCY

Calendar Year 1969

	<u>Total Calls</u>
<u>Office, Laboratory, Communications, Utility and Raw Material Properties</u>	
Office	
General Business Office	18
Banks	1
Medical Offices	2
Utilities	
Distribution Systems	3
Pipelines Systems	1
Total	<u>25</u>
<u>Industrial Properties</u>	
Food	
Bakery Products	3
Canning Food Products	1
Meat Preparation	2
Soft Drink	1
Textiles	
Wool, Manufacturing	1
Footwear - Wearing Apparel	
Leather Products Manufacturing	2
Rubber Products Manufacturing	2
Wood - Furniture - Paper - Printing	
Paper Products Manufacturing	2
Printing and Publishing	2
Wood Products Manufacturing	7
Sawdust Piles	1
Sawmills	9
Chemical - Petroleum	
Asphalt Products Manufacturing	4
Chemical Manufacturing	2
Plastic Manufacturing	2
Drug Manufacturing	1
Tar Pots	2

BUREAU RESPONSE BY OCCUPANCY

Calendar Year 1969

	<u>Total Calls</u>
<u>Industrial Properties - Continued</u>	
Metal Products	
Basic Iron & Steel Manufacturing	9
Basic Metal Manufacturing	2
Machinery Manufacturing	3
Transport Equipment	
Shipbuilding - Motor Vehicle	2
Other Manufacturing	
Laundry, Dry Cleaning Plants	<u>3</u>
Total	<u>63</u>
<u>Storage Properties</u>	
Agricultural Products Storage	
Barns and Stables	1
Outbuildings	20
Wood Storage	
Lumber Yard	1
Furniture Storage	2
Chemical Products Storage	
Hazardous Chemicals	2
Metal Products Storage	
Hardware Storage	1
Ordinary Materials Storage	
Paper Products	2
Vehicle Storage	
Private Garage	59
Other Storage	
General Warehouse	7
Mercantile Storage	7
Goodwill Drop Boxes	6
Unoccupied and Construction Properties	
Buildings Under Construction	2
Buildings Under Demolition	1
Vacant Properties	<u>64</u>
Total	<u>175</u>
TOTAL RESPONSE BY OCCUPANCY	<u><u>1,221</u></u>

LOSSES WHERE FIRE DEPARTMENT WAS NOT CALLED

Calendar Year 1969

	No. of Unreported Fires	Approx. Amount of Loss
January	66	\$ 12,197
February	54	10,098
March	45	9,645
April	43	7,509
May	26	6,408
June	33	8,981
July	55	10,885
August	45	8,011
September	42	8,025
October	44	9,433
November	45	9,052
December	<u>56</u>	<u>11,666</u>
TOTAL	554	\$ 111,910
APPROXIMATE AVERAGE LOSS PER UNREPORTED FIRE		\$ 202

MOBILE CARDIAC PROJECT

It has been estimated that some 600,000 coronary deaths occur each year in the United States; also, that approximately 250,000 of the coronary victims do not arrive at a receiving hospital alive. A significant percentage of coronary deaths seem to occur within the first hour following a coronary disturbance and prior to professional attendance. The majority of the coronary deaths are due to cardiac arrest.

On the basis of hospital statistics it has been determined that the treatment for the most common heart disturbance, ventricular fibrillation, is electrical defibrillation performed immediately. Purpose of the "Mobile Cardiac Project" is to improve the early care of a coronary patient before he arrives at the hospital and receives professional care. In February of 1970, the Portland Fire Bureau joined with the staff of a local hospital in Phase I of the Mobile Cardiac Project.

The objective of Phase I is to demonstrate that a portable radio communications system can be utilized to transmit electrocardiographic (ECG) data and voice communications between rescue personnel in the field and hospital personnel; also, to gather and evaluate ECG data to determine the magnitude and level of need for on-site therapy, especially defibrillation.

Following months of preparation, training, and feasibility tests, a portable ECG radio telemetry unit was placed in service on February 20, 1970 with personnel of Rescue II. Two additional portable units were placed in service in May, 1970, on ambulance vehicles following training of the ambulance crews.

When placed in service, the portable unit is taken to the patient's side. Extremity electrodes are applied to the patient and voice communications established with hospital personnel. ECG data is then transmitted from the patient to the hospital. Monitoring personnel at the hospital read the heart rate and rhythm on a print-out and oscilloscope. This information is transmitted by voice communication from the hospital to rescue personnel at the patient's side.

Transmittal of ECG data and voice communications are continued enroute to the receiving hospital. Rescue personnel may utilize data to determine type and extent of first aid care needed while transporting the patient. Emergency room hospital personnel are prepared, in advance, to immediately provide treatment upon arrival of the patient.

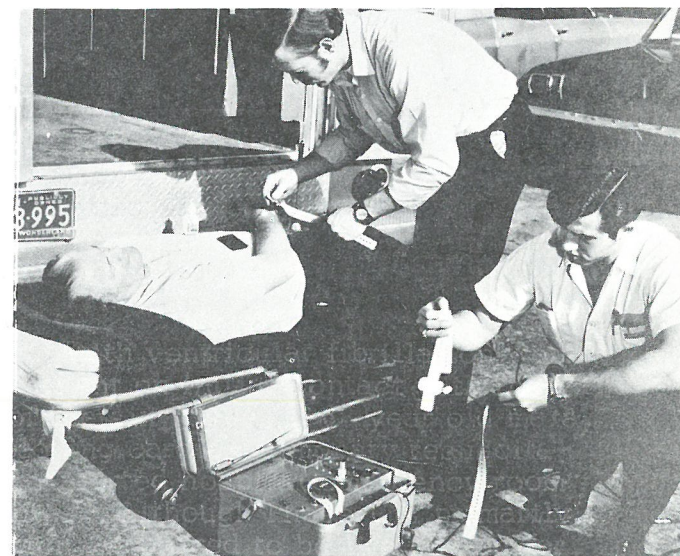
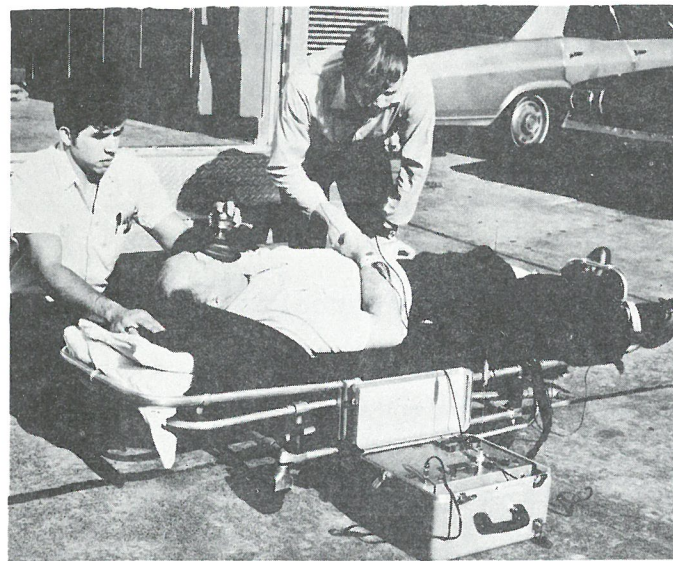
As of June 30, 1970, a total of 65 heart or suspected heart first aid calls were answered, in which a portable ECG telemetry unit was used. Average age of patients was 63.25 years, the range 22 to 93 years. Of these 65 patients, 51 were males, 14 were females.

Six patients with rhythm patterns consistent with ventricular fibrillation were monitored and all of these patterns were present on initial contact with the patient, none occurring in-transit. One of the six cases, a 68 year old male, was maintained by a fire rescue crew employing cardio-pulmonary resuscitation, and then successfully defibrillated by alerted hospital emergency room personnel after a total run-time of 16 minutes. Although Phase I is primarily concerned with data gathering and evaluation, it proved to be life saving for this patient.

Results of the Mobile Cardiac Project - Phase I, have demonstrated the relative effectiveness of transmitting ECG data by a two-way radio telemetry system in Portland. Present plans call for continuation of Phase I through December 31, 1970. Accumulated data will then be evaluated to a more meaningful conclusion. Progress and data evaluation to date, indicate justification for further development of the project.

An ideal mobile telemetry unit would be one consisting of a two-way transmitter, oscilloscope for on-site monitoring, portable defibrillator, ECG modulator, battery pack, and antenna, all self contained. Phase II could see such a unit in service with rescue and ambulance crews. Of paramount importance would be the vital need for rescue personnel to acquire oscilloscope capability and defibrillation technique through training.

It is anticipated that further strides will be taken in Portland in this direction and hopefully the mortality figures for coronary heart disease may eventually be significantly reduced.



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

1969 - 1970

Class 10 Insurance Premium Costs ¹ \$82.00/\$10,000		\$29,880,800	
Class 2 Insurance Premium Costs ¹ \$15.00/\$10,000		<u>5,466,000</u>	\$24,414,800
Fire Bureau Costs			
Budget 1969-70	\$ 8,954,539		
Disability & Pension	2,071,377		
Depreciation (5% on Capital Investments)	361,184		
Fire Hydrants (Installation & Maintenance)	<u>128,537</u>	\$11,515,637	
Less Fire Bureau Earnings (1969-70)			
Fire Protection Contracts	\$ 355,957		
Fire Marshal Permit Fees	9,819		
Fire Investigation Report Fees	564		
Bank Interest Earned	574		
Interest on Investments	<u>25,572</u>	<u>392,486</u>	<u>11,123,151</u>
NET ECONOMIC ADVANTAGE THROUGH INVESTMENT IN FIRE PROTECTION ²			<u>\$13,291,649</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 \$3,644,000,000. 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.