

PORTLAND BUREAU OF FIRE, RESCUE AND EMERGENCY SERVICES



ANNUAL REPORT

1989-90

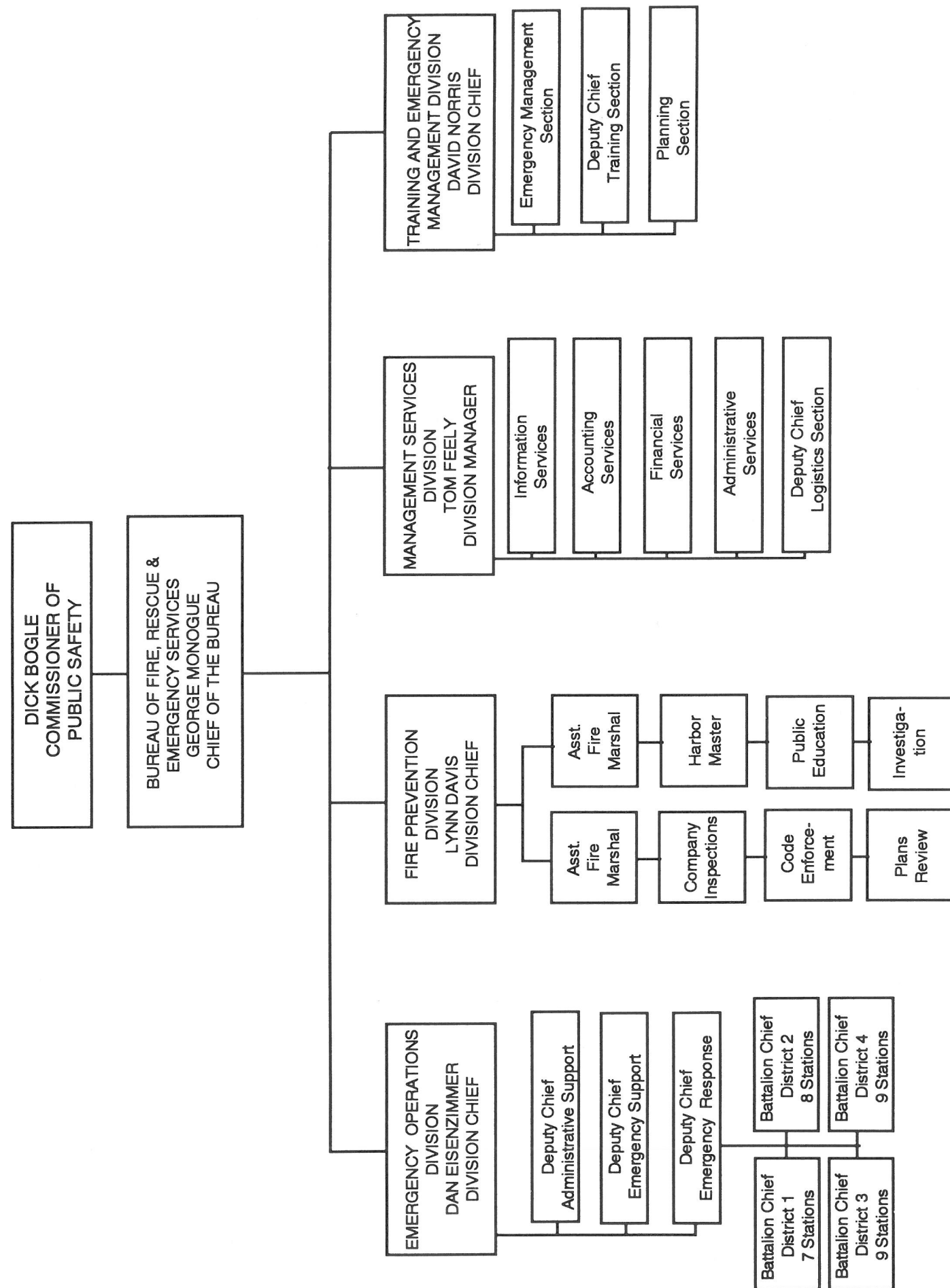


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CITY OF
PORTLAND, OREGON

BUREAU OF FIRE, RESCUE & EMERGENCY SERVICES

Dick Bogle, Commissioner of Public Safety
George E. Monogue, Chief
55 S.W. Ash Street
Portland, Oregon 97204-3590
(503) 823-3730
FAX (503) 823-3710

To the Commissioner of Public Safety and the Citizens of the City Of Portland:

Submitted with this letter is the Fiscal Year 89-90 Annual Report for the Bureau of Fire, Rescue and Emergency Services.

As the Bureau entered the 1990's it faced new challenges to which it is successfully adapting. Increasing demands for its services and the increasing incidence of hazardous materials in our community are but two areas that have required specific attention.

This changing Environment has provided the impetus for the Bureau to constantly reassess its method of delivering services. The Bureau's self-initiated strategic planning process has allowed it to constantly adapt to these changes in demand for services at a time when overall staffing has declined due to budget considerations.

The initiation of a service delivery planning process will hopefully enable to the Bureau to make the critical service delivery decisions that it must make to successfully anticipate further changes in the demand for critical life saving public safety services.

In addition to responding to 56,439 incidents in FY 89-90, there are several specific areas of activity that deserve mention in this letter.

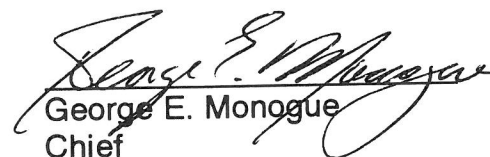
- * Acquisition of a new Training Center at the site of the former Parkrose Water District Headquarters. This site will fill a significant void in the Bureau's Training Program, and will allow for the Bureau to meet its training needs well into the next century.
- * Continuation of extraordinarily successful prevention programs such as the Juvenile Firesetter Program which counsels juveniles who either have shown a proclivity toward setting fires or who have demonstrated the warning signs of doing so in the future. This program has been recognized by the League of Oregon Cities as an innovative new program. Additionally the smoke detector program has continued and expanded. This program offers free smoke detectors and installations to residents of homes without detectors. This internationally awarded program has expanded from its original targeted area to include all of our service area. This program has also been expanded to insure that once installed, the detector's batteries are changed at least on an annual basis.

- * Initiation of two major cooperative agreements with the Police Bureau on issues relating to clandestine drug labs and other special emergency incidents. The Bureau began the training of its paramedic personnel in Special Emergency Response Team (SERT) operations. This training allows for Fire Bureau EMT IV's to be an integral part of emergency operations insuring that Police personnel engaged in a hostile situation have immediately available advanced medical care when needed. To further enhance the cooperative nature between the two public safety bureaus, both are administering a \$510,000 federal grant aimed at reducing the clandestine drug lab problem facing the City of Portland.
- * Continuation of an aggressive affirmative action program where participants are assisted with on the job type simulations and other preparatory tasks that enable the participants to successfully complete the testing process.

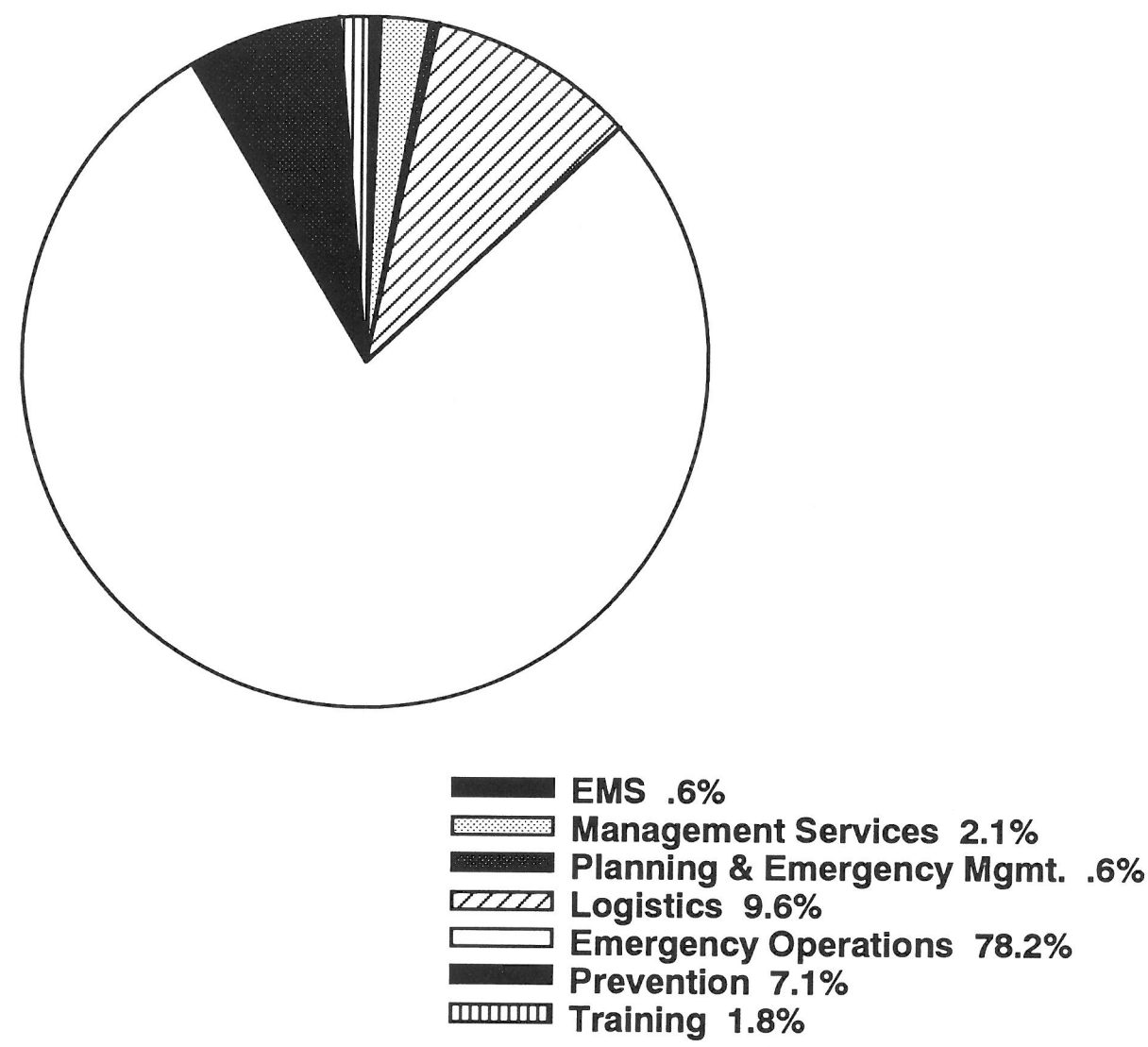
Other important accomplishments are detailed in the body of this annual report.

Through the dedication and determination of the men and women of the Bureau of Fire, Rescue and Emergency Services, the Bureau has been able to provide a high quality, life saving service to the citizens it serves. It is my goal as Chief of the Bureau that this same tradition for quality and excellence continue through the 1990's and into the next century.

Sincerely,


George E. Monogue
Chief

FIRE BUREAU BUDGET 1989-90



TOTAL PERSONAL SERVICES	43,548,388	89.74%
TOTAL MATERIALS & SERVICES	4,822,192	9.94%
TOTAL CAPITAL OUTLAY COSTS	157,598	.32%
<hr/>		
TOTAL BUDGET	48,528,178	100.00%

OFFICE OF THE FIRE CHIEF



George E. Monogue
Fire Chief

The Office of the Fire Chief is responsible to the Commissioner of Public Safety for assuring the implementation of Council policy and the achievement of the Bureau's mission through the direction, coordination, and evaluation of four operating divisions. It is also the responsibility of the Fire Chief's Office to: ensure compliance with state and local fire regulations; provide liaison with the Council and the Managers of other City services; continually evaluate and refine bureau operations; respond to citizen information inquiries and complaints; coordinate internal bureau operating committees; develop and maintain mutual aid agreements with bordering fire service districts as well as fire service protection contracts; develop and maintain the general orders governing Bureau operations; and provide liasion with state and federal fire service organizations.

EMERGENCY OPERATIONS



Dar Eisenzimmer
Division Chief
Emergency Operations

The primary function of the Emergency Operations Division is to save life and property from fire and other emergencies. In addition to routine fire and emergency medical calls, personnel in the Emergency Operations Division plan for, and are trained to manage, emergencies such as:

- hazardous materials incidents
- radiological emergencies
- water related incidents requiring dive rescue services
- fires in forested areas of the city
- major medical emergencies
- fires in flammable liquid storage facilities
- high rise fires
- emergencies involving aircraft
- fires aboard ships
- natural disasters such as earthquake, volcanic activity, wind storms, flooding, etc.
- emergency incidents during civil disorder

ORGANIZATION

The Emergency Operations Division is managed by a Division Chief who reports to the Chief of the Bureau. The Division is comprised of the following three sections:

- Emergency Response
- Administrative Support
- Emergency Support

EMERGENCY RESPONSE

The Emergency Response Section is organized into three work shifts, each shift being on-duty for 24 hours and off-duty for 48 hours. Every 19th shift, line personnel receive a "Kelly Day", a 24 hour shift off-duty. This reduces the work week from 56 hours to 53 hours. Personnel are assigned to 33 stations housing 32 engine companies, 1 quad companies, 9 truck companies, 1 squad companies, 1 fire boat (cross-manned by engine company crews), 6 Advanced Life Support (ALS) rescues, 5 Basic Life Support (BLS) rescues (also cross-manned), and 1 Hazardous Materials Response Unit. Of this equipment; 2 engines, the quad and the squad also have ALS capabilities.

The city is divided into four districts, each supervised by a shift Battalion Chief. These chiefs report directly to the on-duty Deputy Chief, who works the same schedule as the line companies and serves as the overall shift commander. A Fire Captain is assigned as administrative commander at each station and directly supervises

es one of the three shifts. The other two shifts at each station are supervised by Fire Lieutenants who report to the Station Captain. An additional aspect of the Emergency Response contingent are two specialized response units, the Dive Rescue Team, organized to provide assistance in situations where land-based companies are unable to safely and effectively mitigate the situation, and the High Angle Rope Rescue utilized in situations where traditional methods of rescue or recovery are unsafe or impossible and alternative means must be employed. These units consist of personnel highly trained in their respective fields of endeavor and assigned to a line firefighting company.

ADMINISTRATIVE SUPPORT

The Administrative Support Section is under the supervision of a Deputy Chief who also serves as the Bureau's Personnel Officer. The four city-wide districts are combined into two Administrative Battalions, each under the supervision of a Battalion Chief who reports directly to the Administrative Support Deputy Chief.



Opening a Roof

This section is responsible for the efficient and effective utilization of fire company resources in the achievement of service delivery goals.

EMERGENCY SUPPORT

The Emergency Support Section is managed by a Deputy Fire Chief. This section is comprised of three separate, but related, programs: a Fire Alarm Dispatch overseen by a Staff Captain responsible for dispatching several jurisdictions; Emergency Medical, managed by the EMS Coordinator and charged with training, certifying and equipping both Basic and Advanced Life Support responders, as well as coordinating Paramedic training and response in support of Portland Police Bureau Special Emergency Reaction Team (SERT) operations; and the Hazardous Materials Program, administered by the Haz Mat Coordinator and responsible for training, certifying and equipping both First Responders and the Level A Hazardous Materials Response Team. This Program is also charged with coordinating bureau compliance with federal, state and local mandates.

OVERVIEW

During fiscal year 1989-90, the Emergency Operations Division responded to 56,439 emergencies, broken down as follows:

- 1,465 structure fires, including 44 requiring greater alarms
- 1,095 fires involving mobile property
- 834 fires outside of structures
- 29,515 emergency medical service calls
- 23,530 other public service calls



Hooking up
for a Rope
Rescue



Starting
down the
Cliff
to retrieve
victim

FIRE PREVENTION



Lynn C. Davis
Division Chief
Fire Prevention

The mission of the Fire Prevention Division is to maintain a fire safe environment for the City and its citizens. This mission is accomplished through promoting public awareness of fire safety issues, public fire safety education, a community based smoke detector program, the utilization of built in protection systems such as sprinklers, and a commitment to the adoption and enforcement of strong codes and standards.

PUBLIC EDUCATION

This section emphasizes fire safety education as a key strategy for reducing fire losses. Program areas include: coordination of a comprehensive fire safety curriculum in the schools; an award winning juvenile firesetter intervention program; fire safety education programs for businesses, institutions, and the elderly; a "Fire Busters" media program reaches over 130,000 children in the metropolitan area; a neighborhood arson program which has been recognized by the Federal Emergency Management Agency; and a successful neighborhood smoke detector program which is directed towards ensuring that every home in the community is equipped with an operational smoke detector.

INSPECTION/ CODE ENFORCEMENT

This section is responsible for systematic maintenance inspections and the abatement of fire hazards in all occupancies except private residences. Inspectors conduct fire code safety inspections to ensure compliance with City Fire Regulations. The first priority is to seek willing compliance and failing that, to take reasonable and effective enforcement actions. In addition to routine inspections, inspectors also respond to citizen complaints and referrals from other agencies. Although fire code inspections are conducted primarily to identify and correct fire hazards, fire prevention inspectors are also trained to assess other safety and health hazards and to make referrals to appropriate enforcement agencies.

FIRE AND LIFE SAFETY PLANS REVIEW

This section is responsible for the review of construction permit applications for compliance with applicable

codes and for coordinating appeal actions. This section also reviews plans for fixed fire protection systems and performs follow-up site inspections. The Plans Review section has primary responsibility for the continuing revision and up-dating for code provisions. Personnel from this section conduct public hearing on proposed code changes and facilitate input from technical advisory groups. In addition, the plans review section negotiates improvements to existing buildings where "high life hazard" conditions are identified.

SPECIAL HAZARDS

This section is responsible for the review of permit applications and site inspections involving hazardous processes, flammable liquid storage tanks, and special events. This section is also responsible for development of a program which will provide hazardous materials information to Fire Bureau emergency responders. Utilizing a computerized data storage and retrieval system, this program will give emergency response personnel

access to emergency planning information to assist them in safely handling incidents involving hazardous materials.

FIRE AND ARSON INVESTIGATION

This investigation section is responsible for the investigation of all fire of undetermined origin, explosions, large loss fires (greater alarms), false alarms, fire deaths or serious injuries, and suspicious or deliberately set fires. This section also investigates all vehicle accidents involving Bureau employees and conducts internal investigations when required. Fire cause information developed by the Investigation section is being used in data analysis to identify unsafe products or trends. In addition, the Investigation section conducts follow-up criminal investigations and case preparation where fires are found to be incendiary in origin. The Investigation section also conducts night inspections of public assembly occupancies to check for overcrowding and locked or blocked exits.

HARBORMASTER

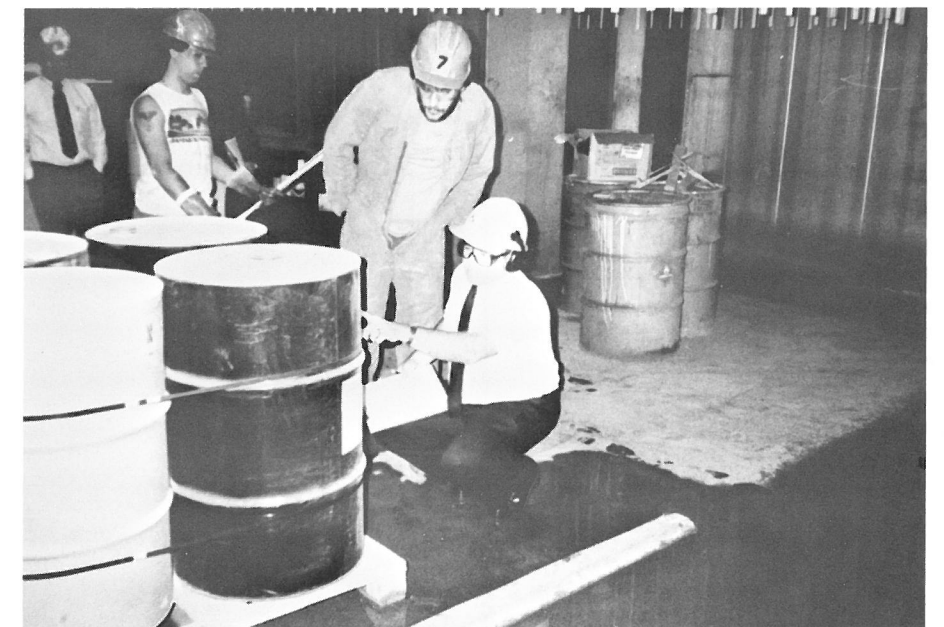
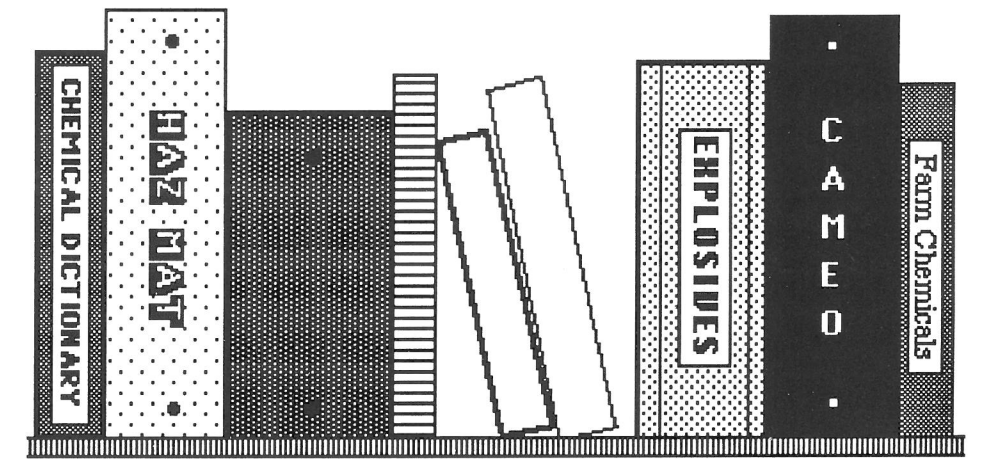
The Harbor Master is responsible for enforcement of Fire and Harbor Regulations on Portland's waterfront and waterways. The Harbor Master regulates the movement of hazardous cargos at terminals and conducts fire code and harbor code inspections of ships and harbor facilities. The Harbor Master acts as the Fire Bureaus liaison with the Army Corp of Engineers, the U.S. Coast Guard Port Captain, the Multnomah County River Patrol and other related agencies.

ADMINISTRATION

This section consists of the Fire Marshal and Assistant Fire Marshal.

The Fire Prevention Division provides service to the City of Portland, Multnomah Co. District #10 and Clacka

mas Co. District #1. In addition to the many activities listed above, the Division's personnel are also trained & equipped for emergency response and are deployed to those duties when the Bureau's resources are taxed by large scale emergencies or multiple fires.



Inspector checking hazardous materials during inspection



Public Information Officer discussing fire details with the media

TRAINING AND EMERGENCY MANAGEMENT



David A. Norris
Division Chief
Training & Emergency Management

The Training and Emergency Management Division goals are to ensure preparedness through training and city-wide disaster planning and emergency management programs, as well as compiling and providing statistical data and research projects vital to the bureau.

STRATEGIC PLANNING

Strategic Planning began in 1983 and became the responsibility of the Division during the Fiscal Yr 1985-86.

The Plan is a dynamic process designed to guide the Bureau into the next century of the fire service.

DISASTER PLANNING

TEM assumed the functions of the City of Portland's Office of Emergency Management as of July 1, 1987. The Fire Chief is now the Emergency Manager for the City.

Emergency Management completed the revision of the City Basic Emergency Services Plan. The "Basic Plan" outlines the City's actions during time of emergency and includes Annexes specifically to all types of disaster which might conceivably occur here. Among the Annexes updated were those dealing with Emergency Reports, Health and

Human Services, Resource Services, Shelter Service, Inclement Weather, Earthquake, Emergency Telephone List, Oregon State Fire Service Plan, Communications Warning, and Forested and Rural Areas Fire Plan.

TEM serves as the sponsor for meetings of the Emergency Management Council (comprised of City Bureau heads active in emergency planning) and the ECHO Group (Emergency Communications for Hazardous Operations), an industry-based organization dealing with hazardous materials issues.

The Emergency Management Section participated in two drills and one search and rescue mission in support of the Civil Air Patrol. The section completed several FEMA courses, as well as State and local classes. We also participated in one state-wide Tsunami Exercises as well as a Corps of Engineers Dam Failure Exercise, a Bull Run Dam Failure Drill, a City Hazardous Materials Exercise, a City Hydroelectric Power Plant Incident exercise, a USCG River Incident

exercise, and a state sponsored earthquake communications exercise. The Emergency Management Section provided training for the Red Cross and volunteer agencies active in disaster. We also assisted the training efforts of the Portland Amateur Radio Club.

RESOURCE LIBRARY

Planning is responsible for maintaining the Bureau's Resource Library. During 89-90, the computerized cataloging system for books and magazines was expanded. The new system allows instant access to any given fire or emergency management topic contained in over 800 books and 4,000 magazine articles.

TECHNOLOGICAL ADVANCES

Planning evaluates rapidly changing fire service technology to insure that the Bureau is kept informed of important new ideas and innovations.

New or alternative methods in use by departments in other cities are also examined to determine their efficiency and feasibility for future use by the Bureau.

SURVEYS

Planning maintains contact with fire departments nationwide through surveys relating to current fire service topics and is responsible for the completion of surveys requested by other fire departments. This past year Planning completed a comparison survey for cities comparable to Portland.

SAFETY ANALYSIS

A bureau injury study, firefighter safety study, and physical fitness study were all completed during the last year and quarterly injury updates were also continued. An injury trends study was also completed for the years 1981-89.

PHYSICAL FACILITIES

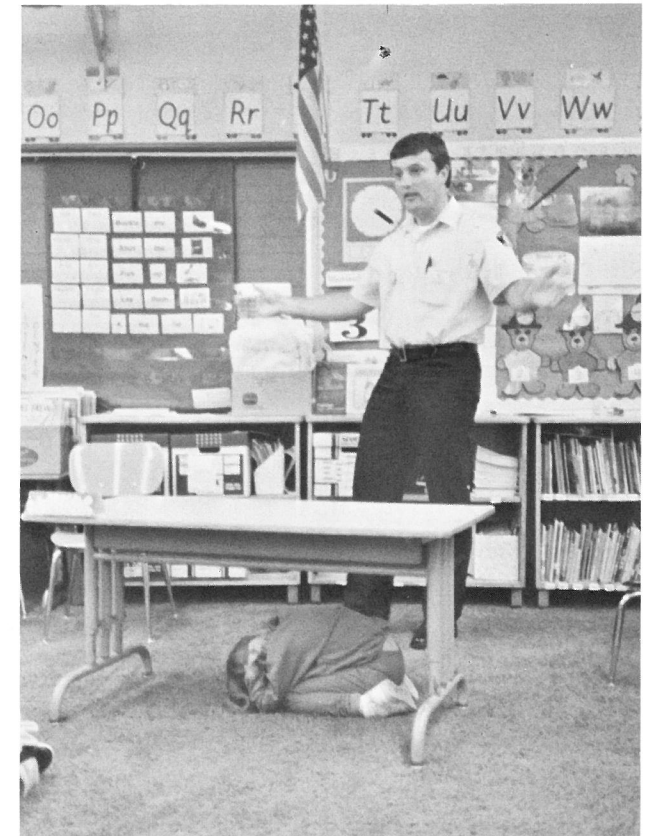
During FY 89-90, Planning did research support for a station 17 site location and worked with Shell Oil Company to house a PFB foam trailer.

MANAGEMENT INFORMATION SERVICES

Planning continues to revise the Bureau's forms and numbering system to create a more efficient information flow within the Bureau.

IN ADDITION...

Planning produced this Annual Report and also compiled up-to-date statistical reports, such as the Protection Trends Book and Monthly Summary of Services. Also, Planning represents the Bureau in meetings ranging from Urban Services Annexations Projects to the Multnomah District Defense Board and responds daily to requests from the public concerning fire protection classes, insurance ratings, and misc. Bureau information.



Firefighter teaches Earthquakes Drills

TRAINING

The Training Section is supervised by a Deputy Chief. This section is responsible for all recruit and in-service training programs.

AFFIRMATIVE ACTION

The section conducts a successful Affirmative Action program allowing underutilized groups to compete with other firefighter candidates. This program includes educational opportunities as well as fireground training.

IN-SERVICE TRAINING

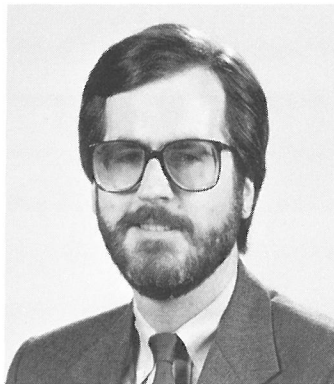
In-service training for all personnel is presented by the Bureau's closed circuit television systems and four District Training Lieutenants.

Special Emphasis has been placed on professional drivers training, highrise firefighting, lightweight roof construction, and airport orientation, as well as continuing recertification for C.P.R. and Hazardous Materials Technicians I.



Firefighters help suit up the press on Media Day

MANAGEMENT SUPPORT SERVICES



Thomas Feely
Mgmt. Support Services Officer
Management Services Division

The Management Services Division is directed by the Management Support Services Officer and is divided into two sections: 1) the Management Services section and 2) the Logistics Section.

MANAGEMENT SERVICES

The Management Services section is responsible for recommending the management policies and practices essential for the efficient operation of the Bureau. This is accomplished through the provision of financial, budget, information, planning, research, and general admin. services in support of Bureau operations.

Major activities of the Management Services Division during fiscal year 1989-90 included the following:

- Coordinating the administration of and modification to the FY 1989-90 budget of the bureau.
- Coordinating the presentation of the FY 1990-91 annual budget of the Bureau which was approved at over \$52 million and included 839 positions.
- Participation in development of the City's Integrated Business Information System, which when completed will handle and dispense all the City's financial data on an up-to-date daily basis.

- Participation in the City's Urban Services Task Force which is responsible for the coordination of proposed annexations.
- Administration of the intergovernmental service agreements between the City of Portland, Multnomah County R.F.P.D. No. 10 and Clackamas County R.F.P.D. No. 1, including plans for the 1991 termination of the Clackamas agreement.
- Development of the annual five year Capital Improvement Program for the Bureau directed toward the elimination to existing and projected deficiencies identified within the Station Location Study, as well as improvements of existing Bureau facilities and equipment.
- Assistance to the Chief in administration of the Bureau.
- Participation in the City's master lease program to permit upgrading of the Bureau facilities and equipment.
- Assisting in the acquisition of 3 apparatus.
- The Management Officer serves as Project Manager for the clandestine Drug Lab Executive Committee, overseeing the expenditure of \$510,000 in

federal grant funds, including the acquisition of a \$129,000 drug lab van.

- Continued implementation of a contract for an Employee Assistance Program offering no-cost short-term intervention and counseling to employees in need of such services.
- Reallocation of resources to emphasize responsibility and accountability by management teams.
- Participation in the development of an aggressive affirmative action plan.
- Cooperation and assistance to the Fire Marshal's Office in development of methodologies for compliance with SARA Title III concerning storage of hazardous materials.

BUREAU ADVISORY COMMITTEE

The Bureau Advisory Committee (BAC) is a group of citizens appointed by the Commissioner-in-charge to advise the Bureau on major issues as well as on the Bureau's budget. The committee meets throughout the year and makes an annual report. The committee's work is coordinated by the Bureau's Management Officer and Administrative Assistant.



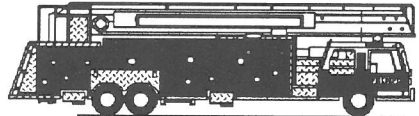
BUREAU ADVISORY COMMITTEE

Front Row (L to R): Steve Feltz, Jennifer Sims (Chair), Ann Henderson
Back Row (L to R): Marci Proutt, Donna Shaver
Missing: Doug Yocom, Vito Lewis, Jack Derderian

LOGISTICS

The Logistics Section is comprised of Logistics Headquarters, Apparatus Maintenance, Building Maintenance, Bureau Stores and Fire Alarm Maintenance. The Section is responsible for the continued reliable operation of the physical equipment of the Bureau of Fire, Rescue & Emergency Services' Maintenance Center located at 1135 S.E. Powell Blvd.

Logistic's Headquarters is responsible for the direction of all areas in the Logistics Section and prepares and administers the Logistics budget.

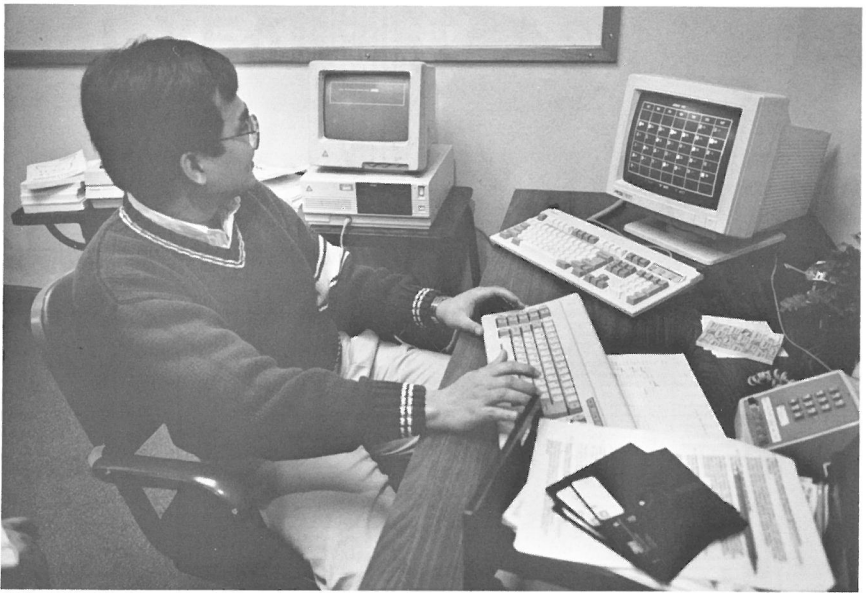


Apparatus Maintenance is responsible for the writing of specifications, the purchasing of apparatus and the routine and preventative maintenance of all fire apparatus and fire support vehicles. At present, the Bureau has 202 pieces of apparatus and support type vehicles which are administered by this section.

Building Maintenance is responsible for new construction, routine maintenance, preventative maintenance and the majority of the purchasing done for all Bureau facilities. Currently, the section is administering 39 properties.

Bureau Stores is responsible for the purchasing and dispensing of all Bureau uniforms.

Fire Alarm Maintenance is charged with the routine and preventative maintenance of the cable system for the Fire Bureau.

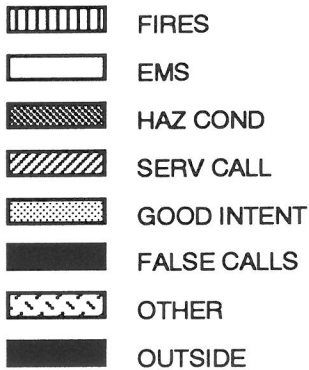
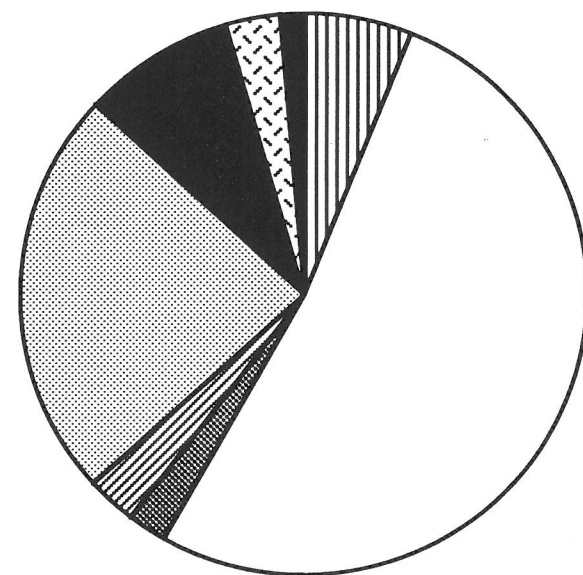


Information Services Computer Programmer at Work



Mechanic Cleaning Part at the Shop

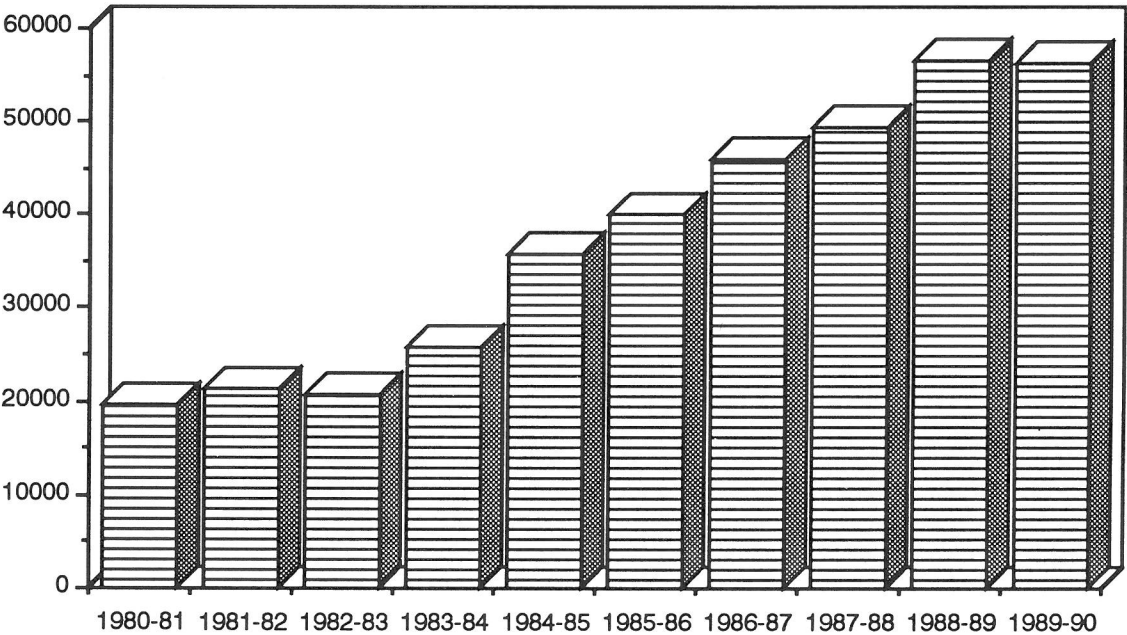
SUMMARY OF EMERGENCY RESPONSES FISCAL YEAR 1989-90



TYPE OF RESPONSE

	PORTLAND	TOTAL
FIRES IN BUILDINGS	1,291	1,465
MOBILE PROPERTY FIRES	977	1,095
INCIDENTS OTHER THAN BUILDING & MOBILE		
GRASS, TRASH, BRUSH, DUMPBOXES, BONFIRES, ECT.	734	834
OVERPRESSURE RUPTURES	5	6
EMS	26,718	29,515
HAZARDOUS CONDITION STANDBYS	1,172	1,281
PUBLIC SERVICE CALLS	1,395	1,549
GOOD INTENT CALLS	12,240	13,248
FALSE CALLS	4,485	4,891
OTHER SITUATION FOUND	1,590	1,746
OUTSIDE CITY CALLS	102	809
TOTAL CALLS	50,709	56,439
GREATER ALARMS		
2ND	32	34
3RD	9	9
4TH	1	1
5TH	1	1
TOTAL GREATER ALARMS	43	45

EMERGENCY RESPONSES FISCAL YEARS 1980-90

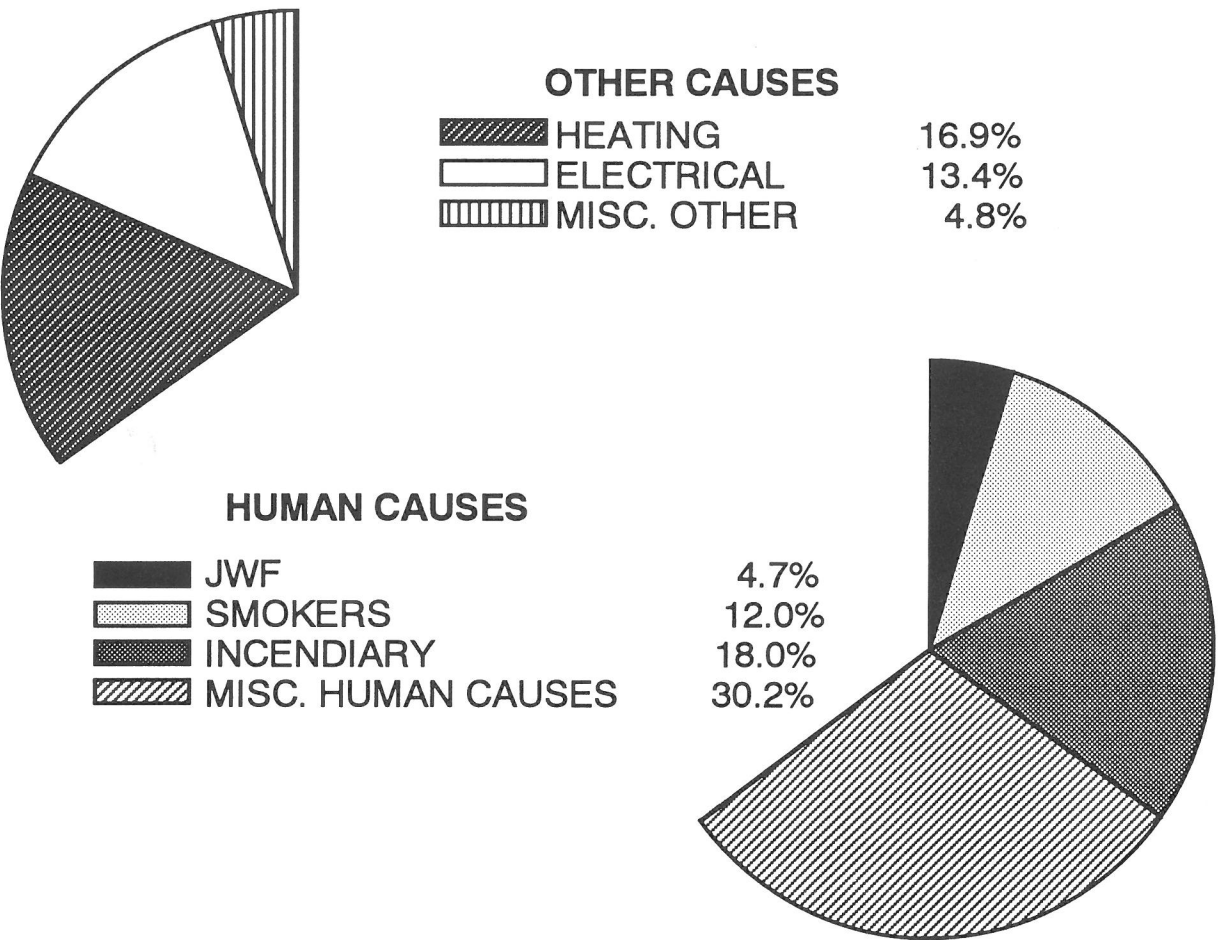


1980-81	19,732	1985-86	40,178
1981-82	21,234	1986-87	46,117
1982-83	20,818	1987-88	49,603
1983-84	26,005	1988-89	56,526
1984-85	35,918	1989-90	56,439

* In 1984-85 District 10 merged with Portland
** In 1986-87 Clackamas 1 merged with Portland

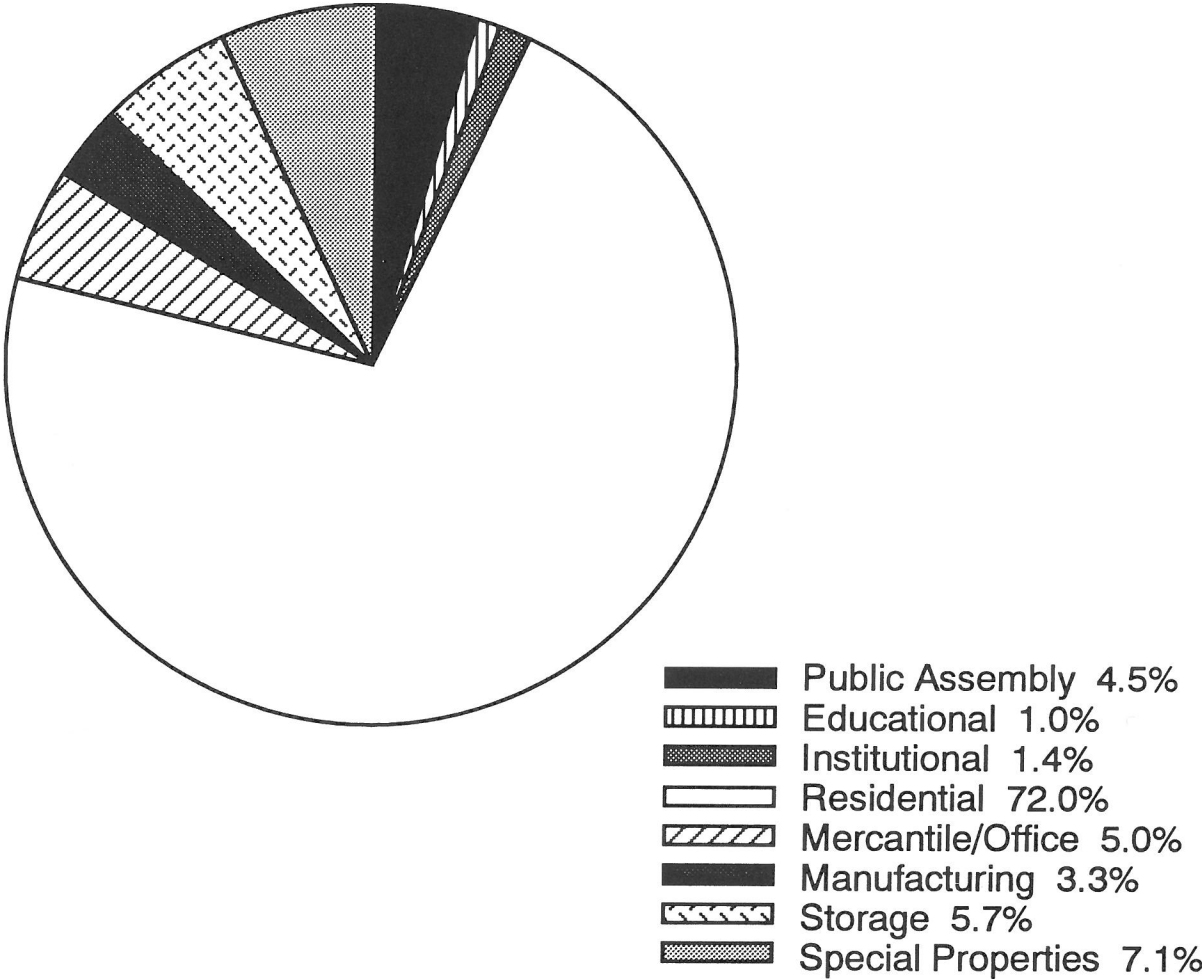
BUILDING FIRE INCIDENTS BY CAUSE FISCAL YEAR 1989-90

	CC #1	DIST #10	PORTLAND	TOTAL
HUMAN ELEMENTS				
CHILDREN WITH FIRE OF MATCHES	3	10	56	69
CARELESS WITH CIG. OR OTHER SMOKING MATERIAL	3	7	166	176
INCENDIARY	9	10	245	264
MISCELLANEOUS	15	33	395	443
TOTAL	30	60	862	952
OTHER				
HEATING EQUIPMENT	18	36	193	247
ELECTRICAL - OTHER THAN HEATING	4	21	171	196
MISCELLANEOUS FIRES	1	4	65	70
TOTAL	23	61	429	513



BUILDING INCIDENTS BY OCCUPANCY FISCAL YEAR 1989-90

	CC #1	DIST #10	PORTLAND	TOTAL
PUBLIC ASSEMBLY PROPERTIES	2	3	61	66
EDUCATIONAL PROPERTIES	0	4	11	15
INSTITUTIONAL PROPERTIES	0	1	19	20
RESIDENTIAL PROPERTIES	38	86	931	1,055
MERCANTILE & OFFICE PROPERTIES	4	7	62	73
MANUFACTURING PROPERTIES	3	2	43	48
STORAGE PROPERTIES	4	8	72	84
SPECIAL PROPERTIES	2	10	92	104
TOTAL	53	121	1,291	1,465



EMERGENCY MEDICAL RESPONSE OF RESCUE COMPANIES
Fiscal Year 1989-90

The following is a recapitulation of various categories of medical emergencies responded to and medical procedures performed by rescue companies.

<u>CATEGORIES</u>	<u>ALS</u>	<u>BLS</u>	<u>TOTAL</u>
ABDOMINAL	275	241	516
ALLERGIES	51	44	95
ANIMAL BITES	16	23	39
ASSULT/STABBINGS	528	782	1,310
BACK PAIN	86	122	208
BEHAVIOR PROBLEMS	104	148	252
BLEEDING	303	455	758
BREATHING/CHOKE	1,167	746	1,913
BURNS	64	41	105
CHEST/HEART	2,007	790	2,797
DIABETIC	179	194	373
DROWNING	23	3	26
ELECTROCUTION	12	8	20
EYE PROBLEMS	25	27	52
FALLS	630	601	1,231
HEADACHE	65	66	131
HEAT/COLD	15	15	30
HAZ MAT INCIDENTS	4	0	4
INHAL./POISON	29	21	50
MANDOWN	87	805	892
OVERDOSE/POISON	506	421	927
PREG./MISC.	166	145	311
POLICE REQUEST	77	104	181
SEIZURE/CONVULSIONS	470	532	1,002
CHRONIC ILLNESS	225	164	389
STROKE	257	213	470
TRAFFIC ACCIDENT	833	284	1,117
TRAUMATIZING	1,245	781	2,026
UNC/FAINTING	812	261	1,073
UNKNOWN	375	349	724
PRE-HOSPITAL CARE REPORT	11,228	1,713	12,941
MONITOR	2,785	57	2,842
DEFIB.	246	5	251
CPR-VENT.	493	48	541
I.V.ADMIN.	2,167	51	2,218
INTUBATION	454	10	464
DRUG. ADMIN.	1,501	31	1,532

The Bureau is the largest provider of prehospital care (Basic Life Support and Advanced Life Support first response) in the State of Oregon responding to over 29,000 medical responses and assisting over 40,000 citizens a year. The mission of the EMS office is to support and coordinate that effort with the medical community and to facilitate changes that occur constantly in the rapidly changing role of the fire service. In addition, a major goal of the EMS office has been to provide continued training, equipment upgrades, and vaccination programs for protection of Bureau employees who may be exposed to communicable diseases. During the past year the Multnomah County Medical Advisory Board created a temporary rule allowing the Bureau to develop a protocol and monitor a newly developed cardiac monitor/transcutaneous pacemaker. This device is designed to externally pace a malfunctioning heart. Preliminary results were positive and indicated the need for this new external pacer and procedures to be used when appropriate. In the future, the demand for service will increase and the skill requirements will be expanded to cover more field procedures. The EMS Office will continue to act as a resource to enable the Bureau to achieve its goals and objectives and be recognized, state wide and nationally, as a progressive prehospital care provider.

HAZARDOUS MATERIALS RESPONSE OF FIRE COMPANIES
Fiscal Year 1989-90

The Bureau's Hazardous Materials program involves: responding to incidents utilizing trained and certified First Responders as well as the Hazardous Materials Response Team (HMRT); training Bureau personnel, other City personnel, County personnel, and private industry employees; participating in legislative actions; regulation compliance; and emergency preparedness planning. The HMRT responds to and mitigates hazardous material incidents and related emergencies. To adequately respond to these incidents, the Bureau has dedicated two on-duty fire units, with a total allocation of 8 personnel. Through a certification process sanctioned by the State Fire Marshal's Office, all bureau members have been certified as Hazardous Materials Technicians I, with members of the HMRT participating in a program which will result in certification as either a Technician II or Specialist. This level of training has enabled the Bureau's HMRT to become Level A certified, capable of operating in all types of environments, utilizing fully encapsulated suits, and providing the appropriate decontamination procedures. This past year, the HMRT responded to 129 separate incidents. Due to a higher level of public awareness, and an increase in the use of hazardous substances, it is expected that incidents will continue to increase. Another factor contributing to this increase in emergency incidents is the response to illegal drug labs. The Bureau's close working relationship with the Portland Police Bureau's Drug and Vice Division resulted in a Federal grant for response to clandestine drug labs. During last year's legislative session a state-wide Hazardous Materials Response Team program was developed and funded. The Bureau has been a major participant in the program's development, design, and implementation. As both the use of hazardous materials increases and the regulation associated with these materials become more numerous, the Bureau's Hazardous Materials unit will continue to provide planning, training, and response capabilities for the citizens of Portland in an efficient manner in order that the quality of life can be maintained and protected from the adverse affects of Hazardous Materials.

The following is a breakdown of hazardous material response by type:

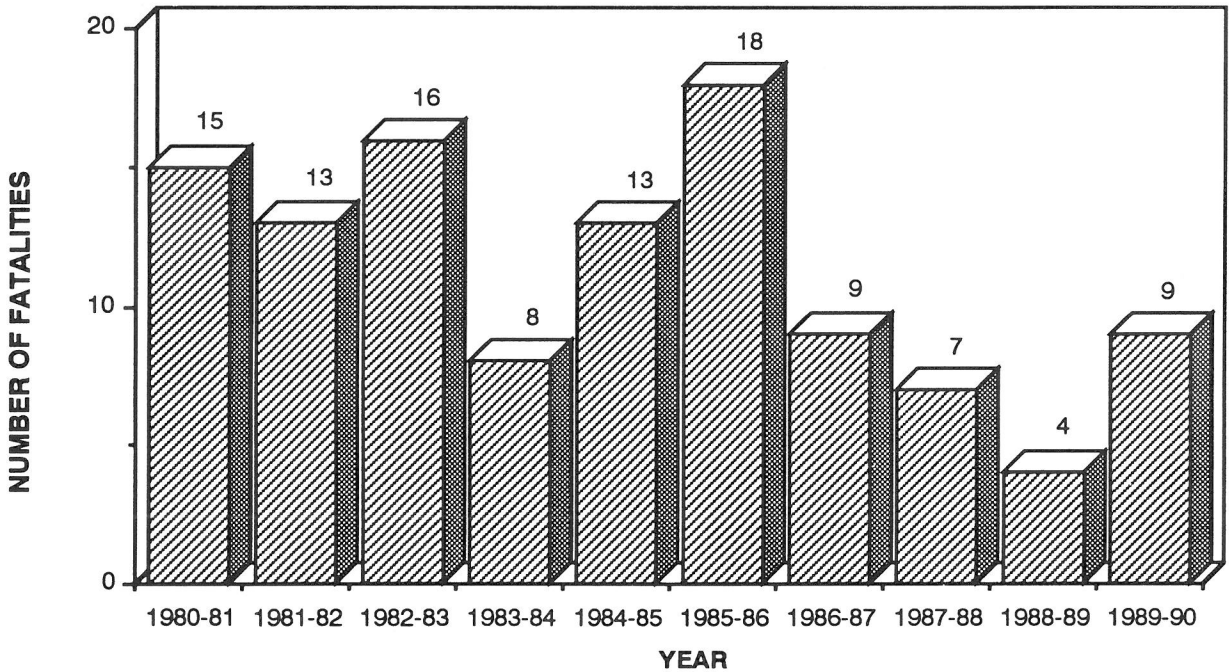
Biological	6	Radiological	3
Cryogenic	5	Explosive	9
Compressed Gas	53	Natural Gas	74
Petroleum	83	Chemical	75
Other	59		
TOTAL		367	

SUMMARY OF VALUES AND LOSSES

FISCAL YEAR 1989-90

	<u>PORTLAND</u>	<u>TOTAL</u>
<u>STRUCTURE FIRES</u>		
TOTAL VALUE OF BUILDINGS	1,200,757,278	1,360,555,903
TOTAL VALUE OF CONTENTS/EQUIPMENT	492,027,848	546,482,848
TOTAL	1,692,785,126	1,907,033,751
TOTAL LOSS TO BUILDINGS	6,342,555	7,074,605
TOTAL LOSS TO CONTENTS/EQUIPMENT	5,655,220	6,038,460
TOTAL	11,997,775	13,113,065
<u>MOBILE PROPERTIES</u>		
TOTAL VALUE OF MOBILE PROPERTIES	315,804,892	316,741,442
TOTAL LOSS TO MOBILE PROPERTIES	3,090,745	3,222,126
<u>PROPERTIES OTHER THAN STRUCTURE AND MOBILE</u>		
TOTAL VALUE OF PROPERTIES	88,581,736	90,143,831
TOTAL LOSS TO PROPERTIES	568,588	590,383
<u>TOTAL VALUE OF ALL PROPERTIES EXPOSED</u>	2,097,171,754	2,313,919,024
<u>TOTAL LOSS TO ALL PROPERTIES</u>	15,657,108	16,925,574

FIRE FATALITIES 1980-90



**SUMMARY OF INSPECTION ACTIVITIES
FISCAL YEAR 89-90**

<u>Inpections:</u>	<u>PREVENTION DIVISION</u>	<u>FIRE COMPANY INSPECTIONS</u>
Regular	3,088	277
Reinspections	4,318	113
Specials:		
Complaints and Referrals	7,419	55
Nights	243	
TOTAL INSPECTIONS	15,068	445
Violations or hazards noted	11,996	162
Abatements or corrections	12,802	88
<u>Fire and Life Safety Plans Review</u>	5,718	
<u>Permits:</u>		
Fixed fire protection systems	102	
Early warning systems	226	
Automatic sprinkle systems	531	
Oil and propane heating systems	76	
Gasoline tank and pump equipment	1,120	
All other - fireworks, vending permits	234	
Certificates of Fitness	230	
TOTAL PERMITS ISSUED	2,519	
<u>Revenue:</u>		
Title III	\$382,569	
Permits	196,303	
Certificate of Fitness	2,905	
Report Charges	7,003	
TOTAL REVENUE	\$588,780	

**REPORT FROM FIRE INVESTIGATION
Fiscal Year 1989-90**

FIRES INVESTIGATED

Arson, Probable Arson and Attempted Arson	530
Fires Investigated and Found Not Incendiary	334
Fires Investigated with Cause Unknown	22
Juvenile with Fire Incidents	<u>83</u>
TOTAL	969

Incendiary Fires Investigated

Fire Investigation Unit	530
Other Law Enforcement Agencies	66
TOTAL	596

Type of Incidents

	Juvenile	Adult
Fire Investigation Unit	29	501
Other Law Enforcement Agencies	12	54
TOTAL	41	555

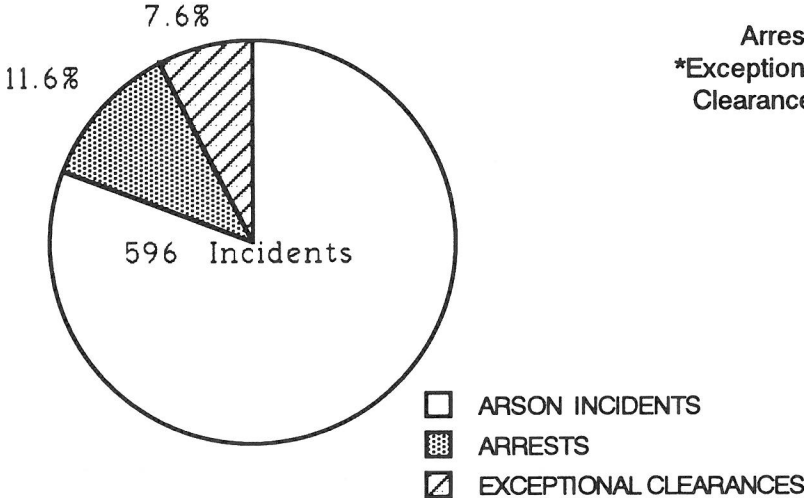
Arrests

	Juvenile	Adult
Fire Investigation Unit	15	46
Other Law Enforcement Agencies	7	1
TOTAL	22	47

Convictions for Arson Related Offenses

	Convictions	Conviction Rates
Fire Investigation Unit	43	71%
Other Law Enforcement Agencies	2	25%
TOTAL	45	65%

Clearances (Arrests and Exceptional Clearances)



*Exceptional Clearance - The perpetrator has been identified, but no arrest has been made due to insufficient evidence etc.

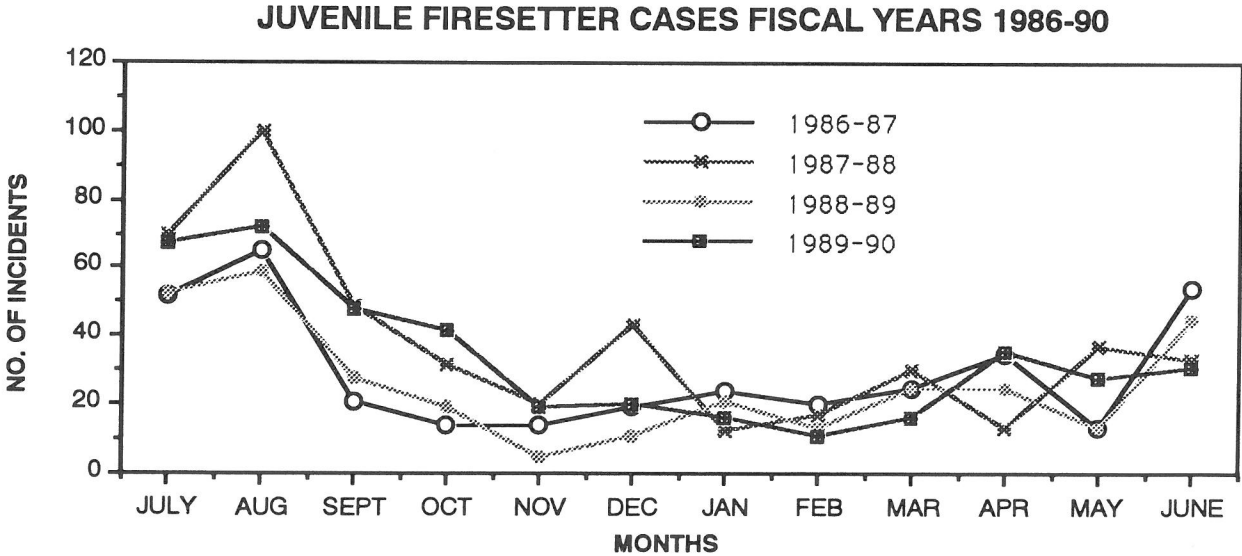
JUVENILE FIRESETTER PROGRAM

Before the Juvenile Firesetter Program was implemented in the fiscal year 1984-85, the ten year average between 1975 and 1984 for juvenile firesetter referrals was 108. Since the inception of the Juvenile Firesetter Program, the annual number of referrals has slowly risen. Fiscal year 1987-88 recorded a number of referrals reaching a total of 405. The large increase is not due to an increase in juvenile firesetting but, rather, an increase in awareness about juvenile firesetting. The reason for this is twofold. First, public awareness has been heightened by the distribution of brochures and education programs. Second, fire service awareness has been broadened to educate fire personnel that a program is available to which they can refer potential or proven firesetters. Figures appear to be on the decline since fiscal year 1987-88. This may be partially due to the educational efforts offered by the Fire Bureau.

The current efforts of the Juvenile Firesetter Program are focused on statistical trends that will target the areas or age groups most likely to be involved with fireplay and educate the children as well as the adults and teachers who interact with these children. The following graph illustrates prior trends by fiscal year.

One of the keys for dealing with juvenile firesetters is early identification and education. A parents motivation for dealing with the problem diminishes with time. It is crucial that the parent be contacted quickly with facts so they are able to deal effectively with the problem. It is also critical that we are prepared to deal with the situation. The program currently has a pool of 15 Firefighters, and Fire Officers trained to evaluate and educate juvenile firesetters. When the childs problem is beyond the scope of what the Fire Bureau is trained to offer, referral to an appropriate agency becomes the tactic of choice.

By offering a comprehensive Juvenile Firesetter Program, we are able to reach out to the community an provide another valuable service.



OUTSIDE CITY FIRE PROTECTION

Fiscal Year 1989-90

Fire protection services were provided via contract for the following Rural Fire Protection Districts, Water Districts, and non-governmental entities during the Fiscal Year 1989-90

<u>Contratee</u>	<u>Revenue</u>
Multnomah Co. R.F.P.D. No. 1	78,040.40
Clackamas Co. R.F.P.D. No. 1	2,006,171.00
Burlington Water District	41,221.14
D.F. Weich (Residence)	160.00
Alder Creek Lumber Company	1,570.40
Lucky Landing	884.40
Sawyer (Residence)	228.00
Gresham	118,542.63
Multnomah Co. R.F.P.D. No. 10	5,920,957.00
*Multnomah Co. R.F.P.D. No. 14 Corbett	5,350.47
*Multnomah Co. R.F.P.D. No. 30 Sauvies Is.	600.00
TOTAL REVENUE	\$8,173,725.44

MUTUAL AID

The City of Portland is a signator to Mutual Aid Agreements with the following cities and/or Fire Protection Districts:

Multnomah Co. R.F.P.D. No. 14 Corbett
 Washington Co. R.F.P.D. No. 1
 Tualatin R.F.P.D.
 State of Oregon - State Forester
 Vancouver, Washington
 City of Lake Oswego
 U.S. Bureau of Land Management
 City of Milwaukie
 City of Gresham
 Port of Portland - PDX
 City of Beaverton
 Clackamas County R.F.P.D. No. 72 Sandy
 Clackamas County R.F.P.D. No. 59 Boring
 Clackamas County R.F.P.D. No. 65 Happy Valley
 Clark County R.F.P.D. No. 5
 Clackamas County R.F.P.D. No. 51 Oak Lodge
 Clackamas County R.F.P.D. No. 71
 Multnomah County R.F.P.D. No. 20 Skyline
 Clackamas County R.F.P.D. No. 1
 Multnomah County R.F.P.D. No. 10

*Dispatch Contracts