

MADISON FIRE DEPARTMENT

Annual Report



1964

CHIEF RALPH A. MCGRAW



John F. Lynaugh
Asst. Chief



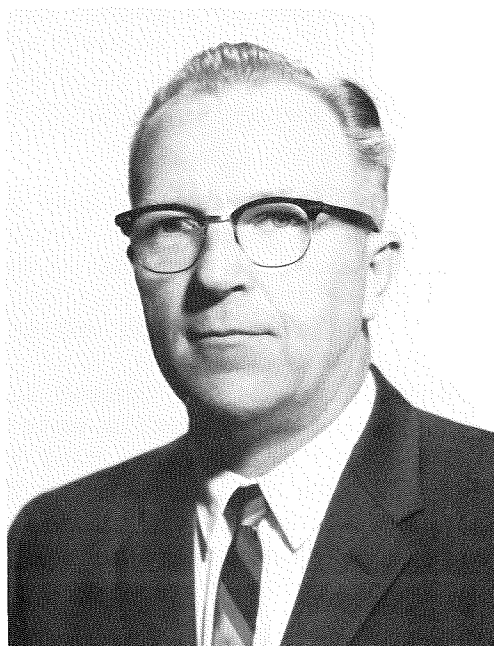
John E. Huston
Asst. Chief



Harold O. Muenkel
Asst. Chief



Henry W. Anderson
Deputy Chief



Ralph A. McGraw
Chief



Joseph F. Buechner
Deputy Chief



George L. Stanek
Capt. Fire Prev. Bur.



James C. Olson
Capt. Master Mech.



Maurice T. Nason
Capt. Training Bur.

Mayor of the City of Madison
Members of the Common Council
Members of the Police and Fire Commission

Gentlemen:

The 1964 Annual Report of the Madison Fire Department covering the activities and functions from January 1 through December 31 is presented for your information.

In submitting this report I want to express my gratitude to the Mayor, Members of the Common Council and the Board of Police and Fire Commissioners for their efforts in helping to promote the betterment and welfare of this department. The cooperation that has been given during the past year has contributed in a large measure to the successful fulfillment of many projects beneficial to all the citizens of Madison.

Events have occurred during 1964 which are worthy of comment; one of the most important being the opening of new No. 5 Fire Station in June. This new modern protective facility located on the far east side of the city has provided us with a more efficient response pattern for this continually growing area of the city.

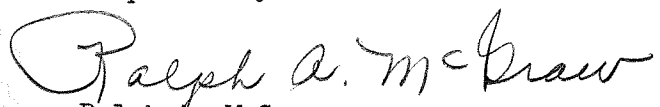
In October of 1964 engineers from the National Board of Fire Underwriters conducted the first survey made since 1940 of Madison's fire defenses. The results of this survey have not as yet been made available to us officially, but their recommendations will be most valuable to the City of Madison in formulating future plans for the department.

The approval by the Common Council in November for the inauguration of emergency ambulance service effective in January of 1965 was of major importance to the citizens of this city. With this new service, we will be more capable of carrying out with efficiency and dispatch, the mandate of our City Ordinances which provide that in addition to the protection of life and property against fire, the Fire Department shall also be responsible for emergency rescue and life saving operations.

I want to also publicly express my appreciation to all the officers and members of the department for their untiring efforts in the performance of their duties which they have carried out with efficiency and dispatch. The "real" strength of our department and the quality of fire service can best be measured by the cooperative spirit of each officer and each man which has been so willingly given and so vividly demonstrated under the most adverse of conditions.

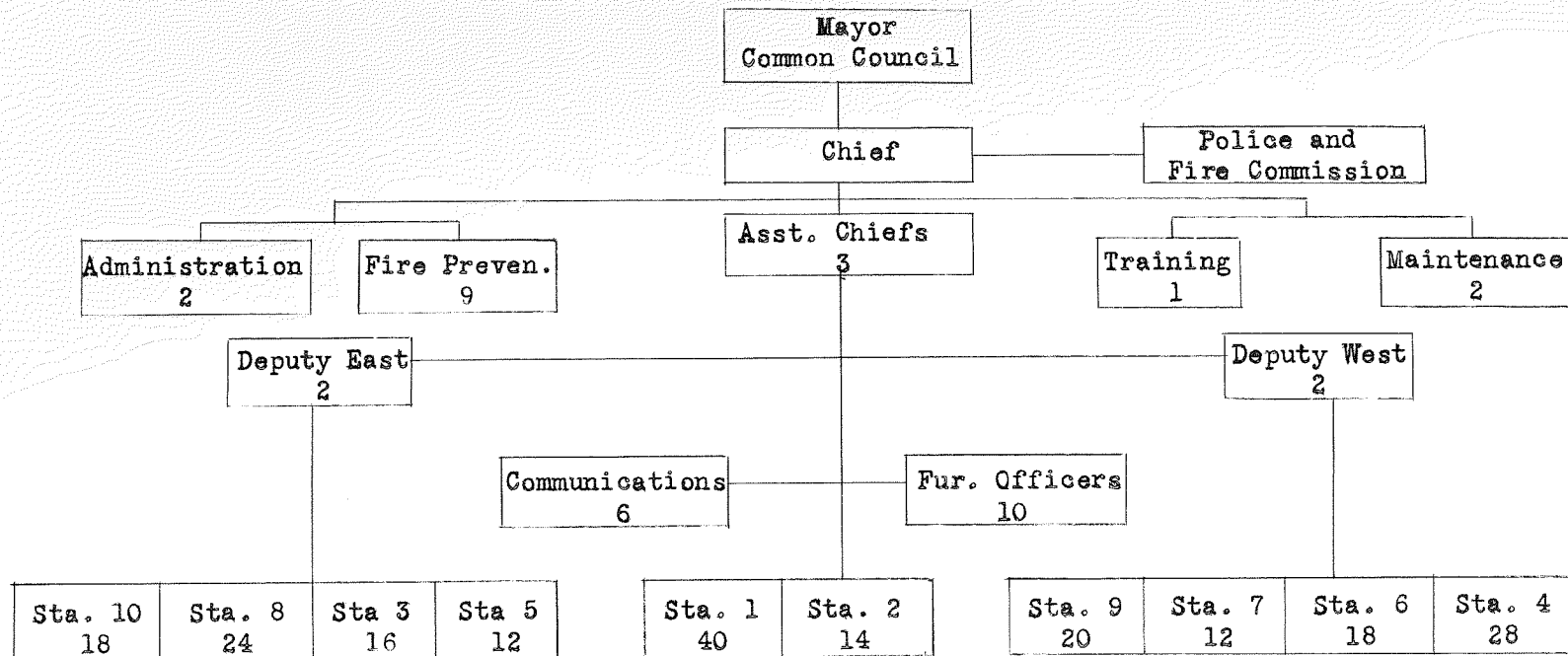
The fire statistics and the activities of our various Bureaus are given on the following pages of this report.

Respectfully Submitted,



Ralph A. McGraw
Chief

CHAIN OF COMMAND - JANUARY 1965



Authorized Personnel - January 1, 1965

1 Chief
 3 Assistant Chiefs
 4 Deputy Chiefs
 17 Captains
 30 Lieutenants
 1 Asst. Mechanic
 5 Dispatchers
 176 Firefighters
 2 Civilian
 240 Total Personnel

ALARM AND LOSS STATISTICS

The 1,727 alarms charted during 1964 is the largest figure ever recorded in the City of Madison in any one year period. 297, or approximately 17 per cent of this total have been classified as building fires. This figure represents a 3 per cent decrease below the building fire statistics for 1963, and with it, the City of Madison maintains its enviable record of 1.9 building fires per 1,000 population.

Fires in dwelling occupancies listed at 196 lead the other four classifications in which building fires are categorized. 33 are listed in public buildings, 27 in mercantile buildings, 24 in miscellaneous buildings and 17 in manufacturing buildings.

Specials and Investigations which include rescue runs made in 1964 total 747 out of 891 responses made to alarms not involving fire. Mistaken Alarms and False Alarms make up the remaining total of Alarms Not Involving Fire.

During 1964 the department responded to 539 alarms involving fire, but not involving buildings. These include grass, brush, and all other miscellaneous outdoor fires.

As it has done for many years the category of "Careless Smoking" again leads all others as the cause of the majority of building fires with 50 out of a total of 297 attributable to that cause. Combustibles Near Heaters and Children with Matches are two other leading categories listed in our fire statistics for 1964.

The largest single fire to which the department responded in 1964 occurred on July 22 when a large building housing a wholesale drug storage company and a manufacturer of display cases was totally destroyed due to the delayed discovery of the fire in the building which was closed for the night. The loss for this one fire alone was in excess of \$300,000.

Madison's average per capita fire loss of \$4.58 is the highest charted in the last five years, but one fire alone accounts for over 40 per cent of this figure. This figure is still well below the national average for other cities in the same population group.

ALARM CLASSIFICATION

MONTHS	ALARMS INVOLVING FIRE							ALARMS NOT INVOLVING FIRE			Total Number Alarms
	In Buildings					Grass Brush Dumps	All Other Fires	False Alarms	Mistaken Alarms	Specials and Invest.	
	Dwelling Occup.	Public Bldgs.	Mercan- tile	Mfg.	Misc.						
January	26	1	2	1	2	2	14	7	6	63	124
February	29	2	2	0	4	79	14	8	6	61	205
March	10	1	2	2	3	15	18	7	7	51	116
April	20	2	4	3	4	46	31	0	6	50	166
May	10	5	0	1	3	6	28	7	10	58	128
June	16	0	2	0	2	12	23	0	3	67	125
July	17	3	5	6	1	7	39	4	9	102	193
August	9	1	3	2	2	9	42	8	4	57	137
September	0	16	1	0	0	0	35	8	4	66	130
October	20	1	2	0	3	34	31	9	8	55	163
November	17	0	1	1	0	14	25	9	3	59	129
December	22	1	3	1	0	0	15	4	7	58	111
TOTALS	196	33	27	17	24	224	315	71	73	747	1727

1964

ALARMS INVOLVING FIRES: IN BUILDINGS

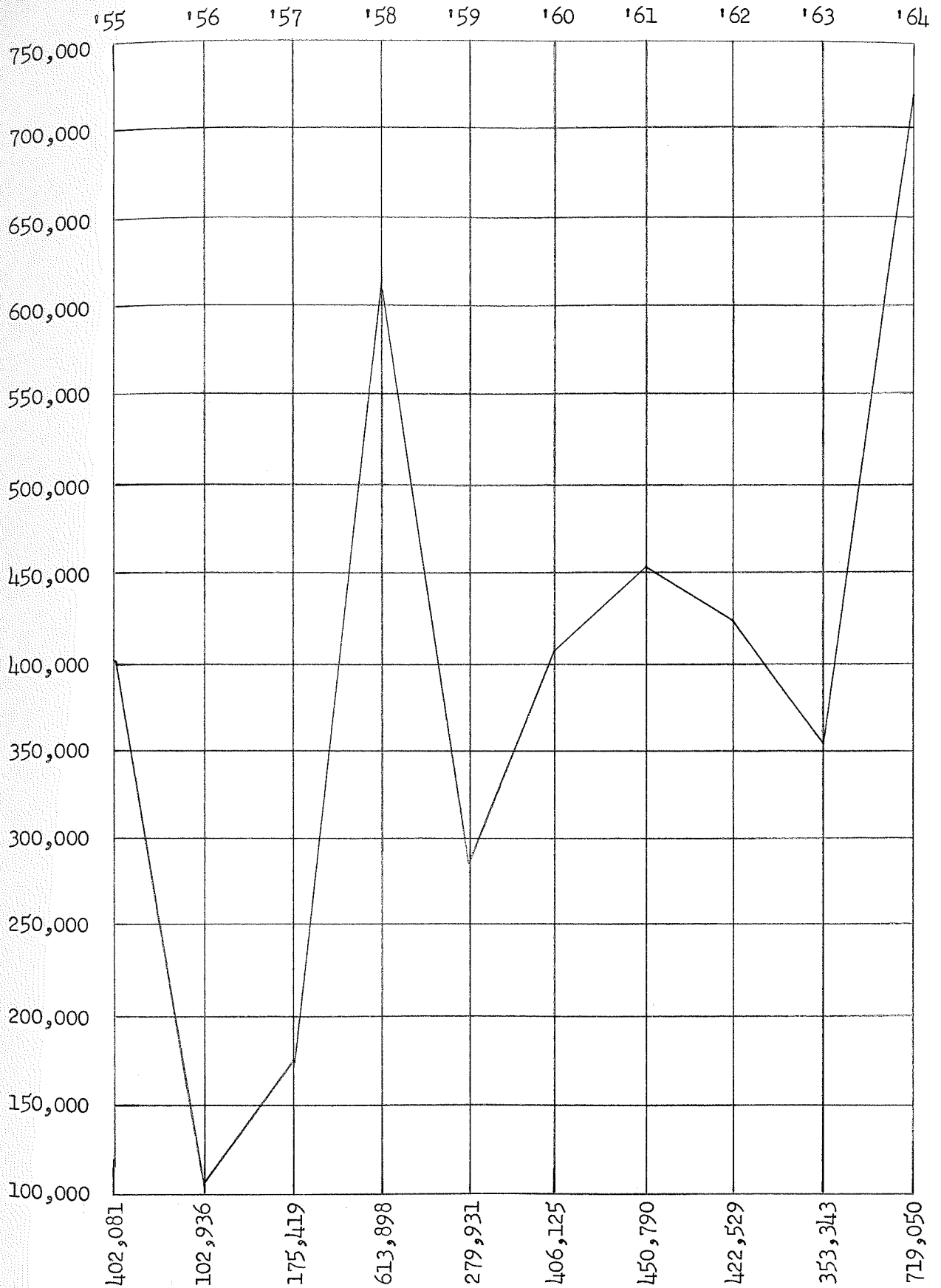
Public Buildings.....	33
Dwelling Occupancies.....	196
Mercantiles.....	27
Manufacturing.....	17
Miscellaneous Buildings.....	<u>24</u>
TOTAL FIRES-BUILDINGS.....	297

BUILDING FIRES

C A U S E S

Careless Smoking.....	50
Combustibles Near Heater.....	44
Undetermined.....	43
Children With Matches.....	29
Electric Motor & Appliance.....	19
Grease on Stove.....	19
Defective Wiring.....	19
Defective Heater.....	19
Misc. Known Causes.....	15
Defective Chimney.....	9
Sparks From Torch.....	9
Flammable Liquids.....	8
Incinerator.....	4
Lamps and Stoves.....	3
Spontaneous Ignition.....	3
Lightning.....	2
Incendiary.....	1
Thawing Pipes.....	<u>1</u>
Total Causes.....	297

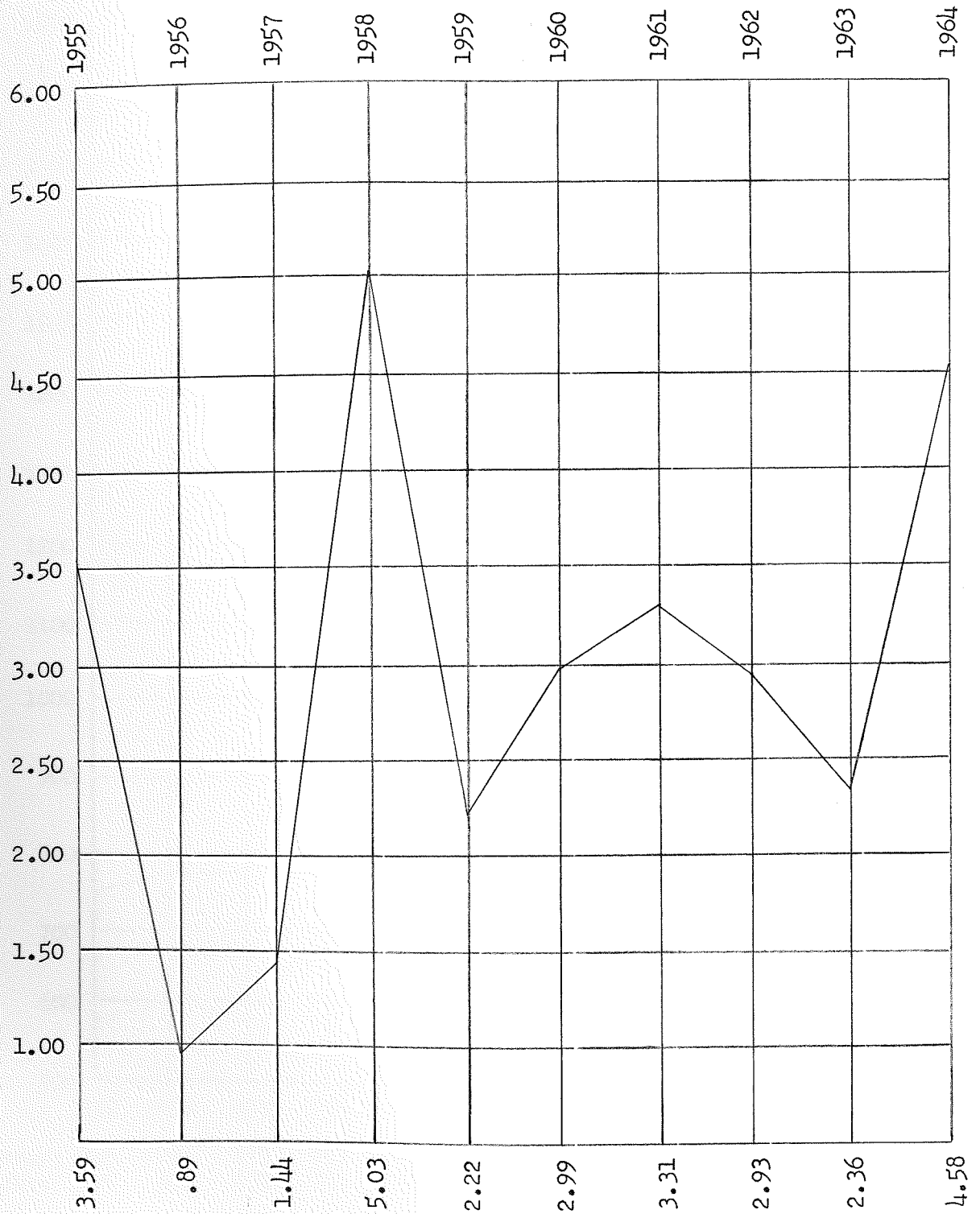
FIRE LOSS



*Total insured loss for year 1964 is incomplete.

AVERAGE FIRE LOSS, Insured: 10 Year Experience — \$392,610

PER CAPITA FIRE LOSS: 10 Year Experience



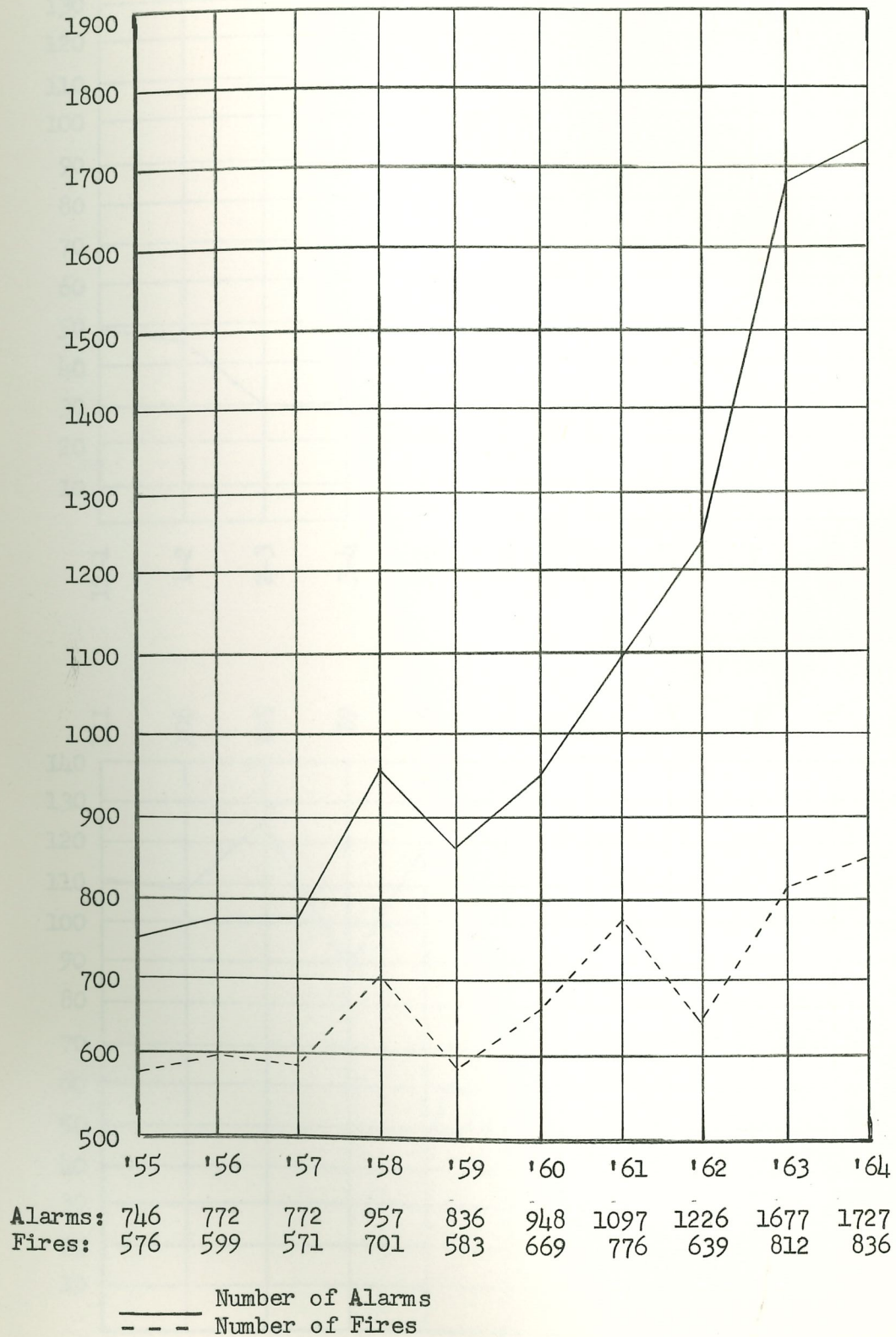
*Total insured loss for year 1964 is incomplete.

AVERAGE PER CAPITA FIRE LOSS..... \$2.93

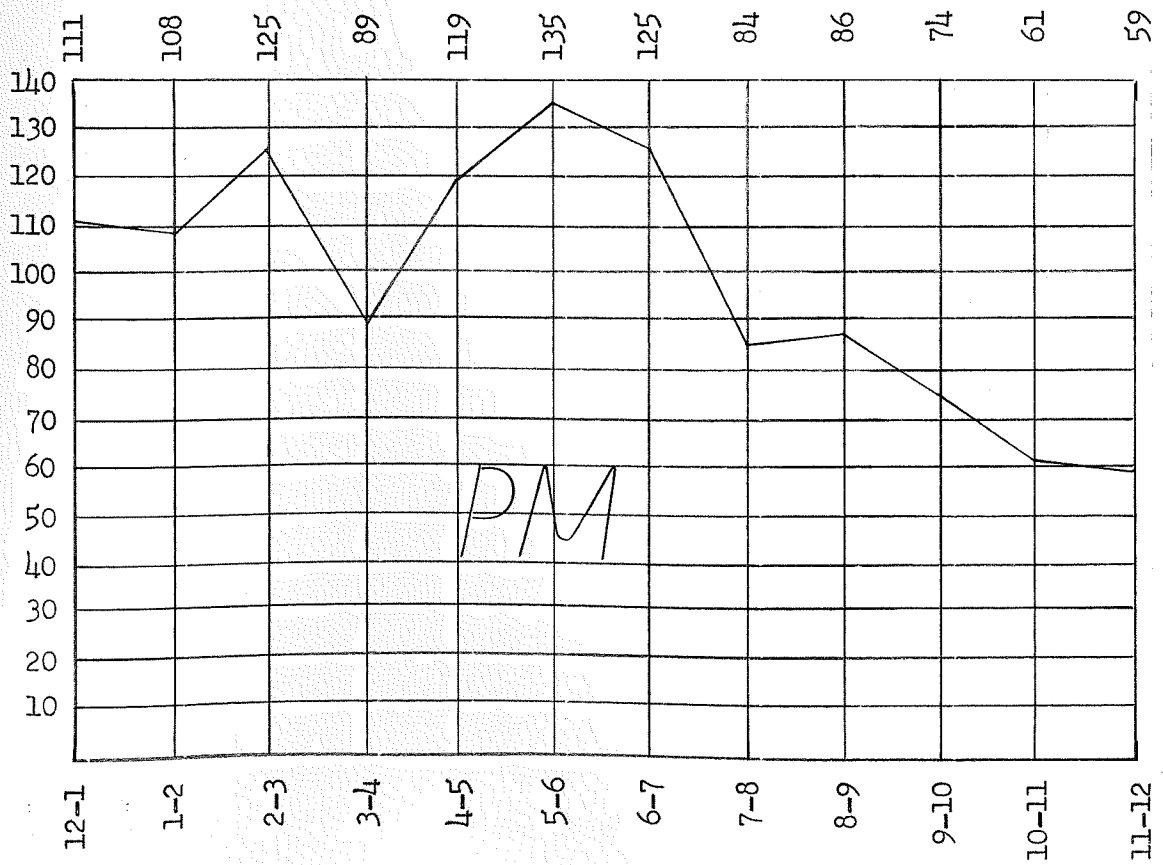
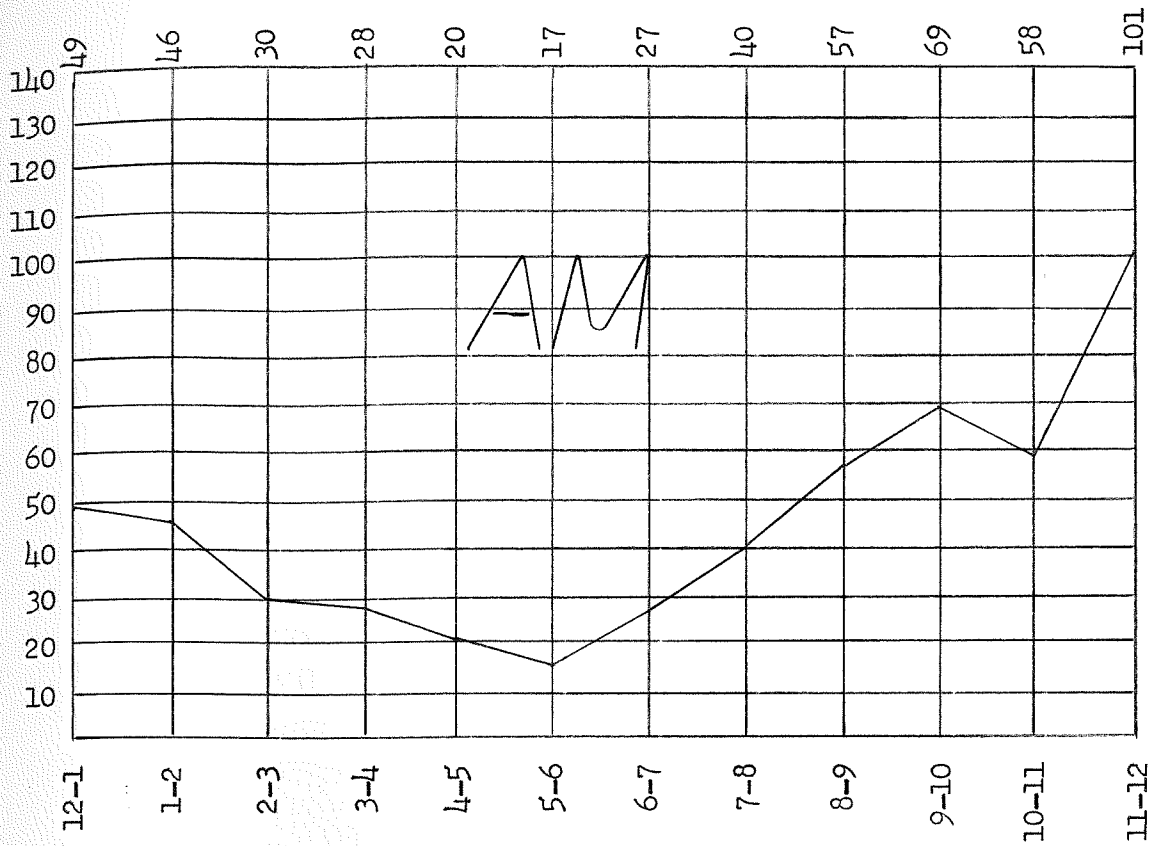
EST. POP. - 157,000

FIRE AND ALARM FREQUENCY

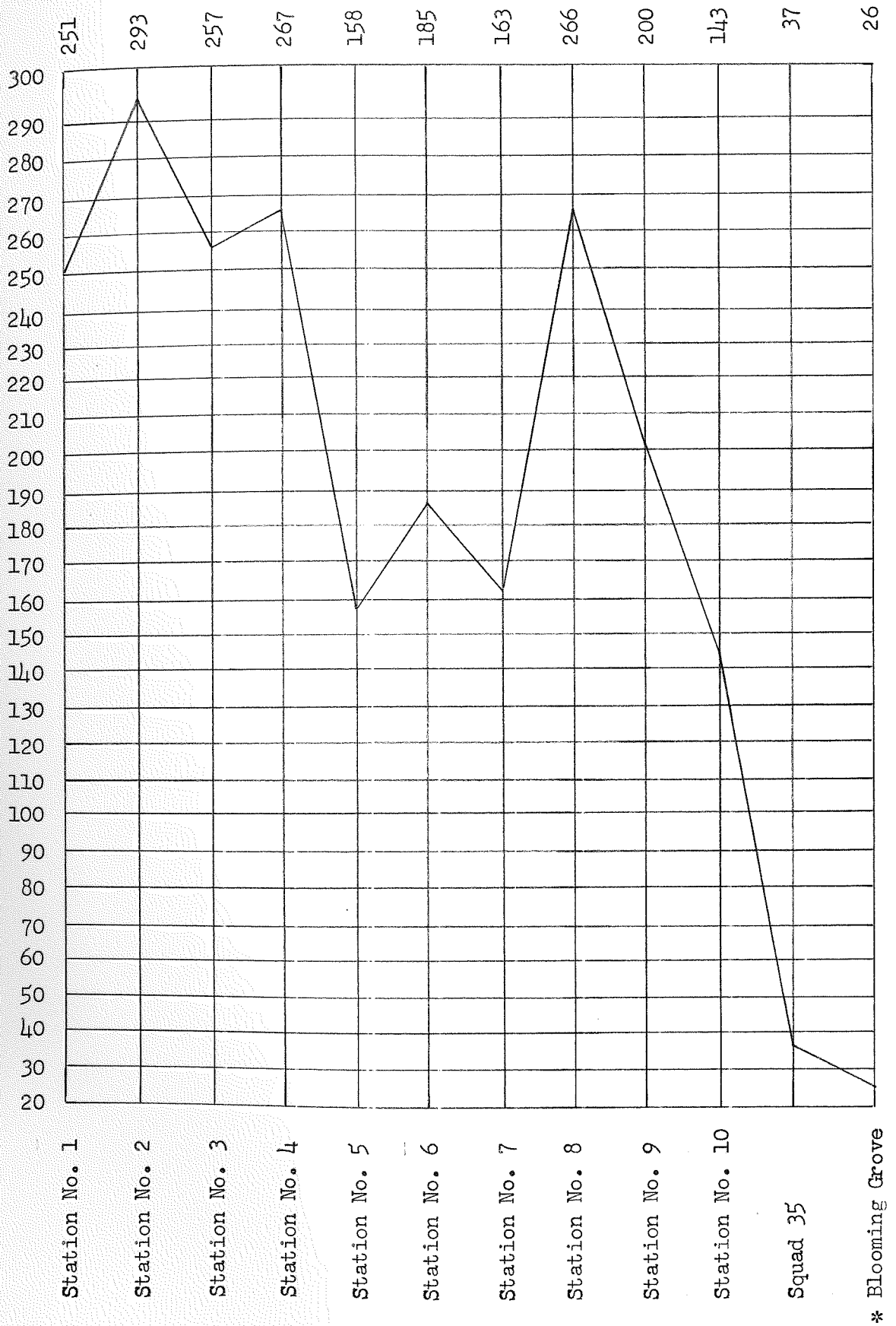
10 - Year Experience



ALARMS BY HOUR



RUNS PER STATION



Total Runs - 2246

* 6 Months

MONTHLY FIRE LOSS RECAPITULATION

Alarms Attended-1964

January	\$74,562.61
February	29,423.50
March	16,891.99
April	7,955.26
May	30,639.20
June	9,002.72
July	337,718.75
August	12,297.30
September	36,355.37
October	97,695.13
November	6,990.39
December	<u>21,167.99</u>

TOTAL FOR ALARMS ATTENDED \$680,700.21

Alarms Not Attended-1964

January	9,157.18
February	3,419.28
March	2,920.70
April	1,471.73
May	3,039.51
June	2,646.28
July	3,614.87
August	2,772.21
September	3,339.54
October	2,611.36
November	1,287.73
December	<u>2,069.48</u>

TOTAL FOR ALARMS NOT ATTENDED \$ 38,349.87

TOTAL FIRE LOSS-1964 \$719,050.08

**This figure is subject to change as additional losses for 1964 are reported.



A hot weather workout.

The Garver Fire.

A cold weather
workout.



Getting ready for
any workout.

PERSONNEL DISTRIBUTION

Authorized Personnel for Year 1964

Chief.....	1
Assistant Chiefs.....	3
Deputy Chiefs.....	2
Captains:	
Line Officers:	
Station.....	13
Relief.....	<u>2</u>
	15
Fire Prevention Bureau..	1
Training & Instruction..	1
Maintenance.....	<u>1</u>
	<u>3</u>
Total Captains.....	18
Lieutenants:	
Line Officers:	
Station.....	13
Relief.....	<u>6</u>
Total Lieutenants.....	19
Fire Prevention Inspectors.....	8
Assistant Mechanic.....	1
Dispatchers.....	5
Firefighters.....	<u>176</u>
TOTAL PERSONNEL-Fire Department.....	233
Office Employees.....	<u>2</u>
TOTAL PERSONNEL: Authorized Strength.....	235

PERSONNEL -- 5 Year Experience

AUTHORIZED MEMBERSHIP OF DEPARTMENT	1960	1961	1962	1963	1964
Police and Fire Commission	215	216	233	233	233
Board of Personnel	2	2	2	2	2
TOTAL	217	218	235	235	235
New Members Appointed	13	1	21	8	6
Retirements	4	1	1	4	0
Resignations	5	1	1	3	3
Leave of Absence	0	0	1	0	0
Dismissals	0	0	0	0	0
Disability Retirement	1	0	0	2	2
Deaths	0	0	1	0	0
Military Leave	1	1	0	1	1
Complement Beginning of Year	214	217	217	235	235
Complement End of Year	217	217	235	235	235

APPARATUS DEPRECIATION

	Description	Date Purch.	Orig. Cost	Life Yrs.	Perc. Depr.	Amount Depr.	Value 12-31-64	Date To Retire	Yrs. of Serv.
	Sedan, Chevrolet	6-58	1,850	5	20	1,850	---	1964	6
	Sedan, Buick	2-51	2,000	5	20	2,000	---	1956	13
	1250 Gal. Pumper (American LaFrance)	9-48	19,756	20	4½	14,224	5,532	1968	16
	100 Ft. Aerial, Pirsch	11-49	35,862	20	4½	24,206	11,656	1969	15
	Rescue Squad (In. Hr.)	12-60	6,000	8	12½	3,000	3,000	1968	4
	Rescue Amb. (In. Hr.)	12-64	5,000	5	20	---	5,000	1970	-
	1250 Gal. Pumper (Pir)	12-56	20,979	20	4½	7,552	13,427	1977	8
	Hose Wagon - Ford	9-48	2,500	8	12½	2,500	---	1956	16
	Panel Truck, Maint.	4-61	2,018	8	12½	1,009	1,009	1969	4
	1000 Gal. Pumper Foam	12-29	15,500	20	4½	15,500	---	1945	39
	Utility Truck Chev.	11-49	3,500	8	12½	3,500	---	1957	15
	1000 Gal. Pumper FWD	1-60	21,564	20	4½	4,851	16,713	1980	5
	Sedan, Chevrolet	6-58	1,850	5	20	1,850	---	1964	6
	1250 Gal. Pumper ALF	9-48	19,756	20	4½	14,224	5,532	1968	16
	85 Ft. Aerial Seag.	12-60	41,781	20	4½	7,205	34,576	1981	4
	600 Gal. Pumper (Seag)	2-34	6,200	20	4½	6,200	---	1954	31
	1250 Gal. Pumper Pir.	12-56	20,979	20	4½	7,552	13,427	1977	8
	1250 Gal. Pumper Pir.	12-62	26,316	20	4½	2,368	23,948	1983	2
	85 Ft. Aerial Seag.	2-58	39,692	20	4½	12,502	27,190	1978	7
	1000 Gal. Pumper Pir.	1-59	21,590	20	4½	5,829	15,761	1979	6
	600 Gal. Pumper Seag.	4-35	6,623	20	4½	6,623	---	1955	30
	1250 Gal. Pumper ALF	9-48	19,756	20	4½	14,224	5,532	1968	16
	85 Ft. Aerial Pirsch	11-59	37,990	20	4½	8,547	29,443	1980	5
	Rescue Amb. (In. Hr.)	12-64	5,000	5	20	---	5,000	1970	-
	85 Ft. Aerial Pirsch	2-50	30,862	20	4½	20,831	10,031	1970	15
	1000 Gal. Pumper FWD	1-60	21,564	20	4½	4,851	16,763	1980	5
	Rescue Amb. (In. Hr.)	12-64	5,000	5	20	---	5,000	1970	-
	85 Ft. Aerial Pirsch	2-50	30,862	20	4½	20,831	10,031	1970	15
	1250 Gal. Pumper Pirsch	8-62	24,910	20	4½	2,244	22,666	1983	2
B	Sedan, Dodge*								
B	Sedan, Dodge*								
B	Sedan, Studebaker	3-61	1,800	8	12½	900	900	1969	4

Trade-In from other departments approximately every two years-Budget appropriation.

Training with an oxygen mask. One of a series of 35 mm slides used as visual aids.



Christmas display at station 9.

Training session for drafting procedures.



Chief Ralph A. McGraw

Dear Sir:

The year 1964 must be considered a banner year for the Public Information Program. A total of 313 programs were presented by 92 different men, an increase of over 200%. We are sure, during the past year, every man on the department took part on some phase of the Public Information program, so you all share in the success of this program thus far.

Totals for the 313 programs are as follows:

	<u>Programs</u>	<u>Hours</u>	<u>Audience</u>
Baby Sitters	78	246	1800
Chemistry of Fire	9	54	614
First Aid	52	145	755
Hospital Evacuation	26	190	827
House of Hazards	28	101	2099
Mouth to Mouth	100	464	5512
Special	<u>20</u>	<u>218</u>	<u>82,825</u>
Total	313	1,421	94,432

Fire Prevention Week again showed an increase in turnout and interest at the fire stations, and again your department won the blue ribbon for booth display at the Fall Festival, making it two years in a row. Our thanks to Capt. Geier for all his interest and work.

It is our desire to reach every citizen in Madison with some phase of the department's activities, excluding the extinguishment of fires, and we believe this should be realized in 1965.

I want to express my appreciation to all who have helped and encouraged this program to develop. We are reaching our objectives.

Respectfully Submitted,

Henry W Anderson

Henry W. Anderson, Deputy Chief

Chief Ralph A. McGraw

Dear Sir:

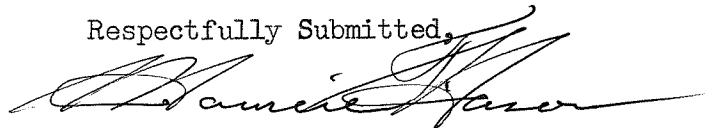
The training program of the Madison Fire Department during 1964 covered vast areas of educational review, skills, practices, research and development of subsequent new methods which were incorporated into our over-all function as a protective service.

The Bureau of Training and Instruction is proud of the department personnel for the manner in which they cooperated in accepting the daily training program and, also, for their specific interest and cooperative participation in all training activity. Such devotion to duty responsibility is unquestionably the major factor which accounts for the Madison fire service maintaining its top priority rating of value to Madison taxpayers.

Apart from the extensive routine training the specialized education included:

1. Procedures with pre-connected hose.
2. Review and digest of actual techniques - fire slides.
3. Simulated evolutions in various old buildings which were donated for our use.
4. Performance of equipment and personnel skills test established by the National Board of Fire Underwriters.
5. Resuscitation and heart massage techniques.
6. New Training Films -
National Board of Fire Underwriters Procedures
The Nozzleman
Hospital Evacuation Carries
Kansas City Fire Disaster - Commentary
7. Professional Instruction - Ambulance service training.
8. Demonstrations - High Expansion Foam.

Respectfully Submitted,



Maurice T. Nason, Captain
Bureau of Training and Instruction

Chief Ralph A. McGraw

Dear Sir:

Subject: Yearly report of the Bureau of Maintenance for the year of 1964, involving 22 pieces of fire apparatus, 8 cars and 10 stations.

Service calls for fire apparatus and cars.....	437
Apparatus brought to shop for repair.....	235
Apparatus repaired at respective stations.....	202
Service calls to stations.....	171
Miscellaneous duties not charged to any one group of apparatus or station such as records, supplies, planning, instruction, shop work, and other duties as prescribed by the Chief of the Fire Department.....	1251 Hrs.

Some of the high lights throughout 1964, listed chronologically, are as follows:

1. Enough Beacon Ray lights were purchased and installed to complete our apparatus with this type of warning light 100%.
2. The new style relief valves installed on Engines 5 and 7 completed this change over completely on all Pirsch Engines.
3. A beginning of the program of preconnected $1\frac{1}{2}$ " hose lines was started on Engine 4.
4. Service tests were made on all pumpers. All apparatus were taken into the shop every six months for a major check up.
5. All oxygen masks were checked and oxygen tanks that were due for testing were tested. Many minor defects were corrected.
6. A complete change over from the expansion type booster hose coupling to the Bar-way type hose eliminated booster hose failure completely.
7. The Engineers for the insurance underwriters checked some of our pumpers- No. 3,5,6,7,8,40,41,42. Aerials were also operated. Our shop was checked for tools and equipment, preventive maintenance procedures, and our record system was also gone over.
8. Three rescue units were readied for service in our shop and put into service January 1, 1965.
9. The only major interruption of service occurred, when Engine 8 was involved in two accidents during the year.

The year 1964 has gone by very smoothly and I wish to take this opportunity to thank all personnel for their generous cooperation with the Bureau of Maintenance.

Respectfully Submitted,

James Olson

James Olson, Captain
Bureau of Maintenance

Chief Ralph A. McGraw

Dear Sir:

I am submitting to you the annual report of the activities of the Fire Prevention Bureau for the year ending December 31, 1964.

Captain George L. Stanek who headed this Bureau since August 1, 1952 is officially retiring on January 17, 1965 and I have been appointed to succeed him. This new position will be a challenging one and one that I shall endeavor to fill to the very best of my ability.

Both City Ordinances and State Statutes require that all buildings except the interior of private dwellings, and all premises and public thoroughfares must be inspected for the purpose of ascertaining and causing to be corrected any condition liable to cause fire; or any violation of any law or ordinance relating to fire hazards or to the prevention of fires. The frequency of these inspections in both the fire limits and all areas outside of the fire limits is also clearly stated in these regulations.

With the City of Madison now covering approximately 44 square miles it has been impossible to meet these requirements by the regularly assigned Bureau personnel, but the inauguration of in-service inspections in which all stations and all personnel will participate, these requirements will be met and possibly even exceeded in those certain areas where more inspections are deemed feasible.

During the year two of the regularly assigned Fire Prevention Bureau Lieutenants were temporarily detailed to the fire fighting forces for a period of several months. Even with this temporary shortage in Bureau personnel, over 1,000 more inspections were made in 1964 than were made in 1963.

Our charted statistical information for 1964 indicates that a total of 12,054 inspections were made during the year with 5,859 defects found and ordered corrected. In addition a total of 471 re-inspections were made to determine compliance or progress with previously issued orders.

I want to express my appreciation to you, the Assistant Chiefs and the Deputy Chiefs for the cooperation, assistance and guidance so willingly given to both my predecessor and myself.

Respectfully Submitted,

Carroll J. Paltz

Captain Carroll J. Paltz
Fire Prevention Bureau