



FIRE ONLY — PHONE 442-5241 OR 442-5242

CITY OF HELENA * STATE OF MONTANA

BUSINESS PHONE 442-8751

FIRE DEPARTMENT

JOHN W. BROCKWAY
CHIEF

ROBERT D. KILLEEN
ASS'T. FIRE CHIEF
AND FIRE MARSHAL

HELENA FIRE DEPARTMENT ANNUAL REPORT

1970

TO

THE CITY MANAGER

&

MEMBERS OF CITY COUNCIL

BY

JOHN W. BROCKWAY, CHIEF



During the year just ended there was much activity at the Fire Station.

The Apparatus Room, Chief's Office and the Basement were cleaned and had a complete coat of new paint applied throughout. The members of the department remodeled their Day Room, paneling the walls and ceiling and substituting drapes for the venetian blinds on the windows.

We received the new International 750 GPM Pumper Truck in July and the men spent many manhours practicing with it. This truck carries six hundred gallons of water in the tank.

The motors in the FWD #1 and the Ladder Trucks were completely overhauled and the men state the motor in FWD #1 performs better now than at any time since it was purchased in 1962, with much more power.

Cab on FWD #1 was badly scorched at a fire at 110 Cutler St. on July 30th and as it had to be repainted, the men sanded the complete truck and Superior Fire Apparatus Company painted it. We now have the equivalent of TWO new trucks.

At this same fire, (110 Cutler), Captain Bob Pare assisted by Fireman Dennis Sorrels, Police Patrolman Bob Janes and Police Sgt. Grant Johnson rescued five year old April Baker and her seven year old sister JoAnne from certain death in the burning house and rushed them to the hospital where both recovered from severe burns. These men are to be commended for the fine actions they took.

We are planning to have the motor in FWD #2 overhauled and the body and cab painted to match the other two pumpers during 1971. This will give us excellent pumping apparatus and we will not have to order new ones for at least five years. We can now concentrate on the purchase of a new Ladder Truck in the near future. Our Pirsch Ladder is a 1952.

A hose drying tower was built on the east side of the station with entrance from basement. This is the one thing we have needed for years and it works very efficiently.

We hosted the State Firemen's and Chief's Convention here in July and it was declared a huge success by all the attending delegates, this pleased us greatly.

The young men in the Department are a new breed, not only being top bracket Firefighters, they take much interest in the looks of the Station House and trucks, for this I am justifiably proud. They study and practice continually to make themselves better firefighters and this pleases me also. I am very happy to be Chief of such a crew.

The Fire Prevention Program under the very able supervision of Bob Killeen is progressing exceptionally well and he is getting better cooperation from the public as time goes on. The lower fire loss reflects this trend.

We are looking forward to another good year in Nineteen Seventy One.

John Brockway, Chief.

CONSOLIDATED MONTHLY REPORT

FIRE DEPARTMENT

For the month of December 19 70

A CLASSIFICATION OF ALARMS	This Month	Last Month	This Month Last Year	This Year to Date	Last Year to Date
How Alarms Were Received:					
Red Phone Alarm	5	7	4	86	85
Telephone	16	23	31	295	326
Auxiliary and Miscellaneous	1	1	2	17	16
Total Alarms	22	31	37	398	427
FIRES					
In Buildings	2	7	3	58	57
Brush or Grass	-	3	1	61	58
Rubbish near Buildings	1	-	4	16	12
Rubbish in Vacant Lots	3	1	1	15	12
Dumps	-	1	-	6	7
Miscellaneous Fires Outdoors	2	3	-	23	10
Vehicles in Street	5	4	3	39	56
Total Fires	13	19	12	218	212
CALLS OTHER THAN FIRES					
Public Service	-	-	7	21	30
Rescue or Emergency	2	5	4	36	40
Needless Calls and Nonmalicious False	2	1	1	14	18
Accidental Alarms	-	-	-	3	11
False Alarms	1	1	3	11	9
Leaking Gasoline	1	2	5	52	59
Total Calls Other Than Fires	6	9	20	137	167
Total Alarms in City					
Fire District	-	-	1	9	11
Mutual Aid Calls	-	1	1	2	2
Total Out-of-City Calls					
Spoke Scares and fluorescent lights	2	2	4	32	46
Total Alarms	22	31	37	398	427

B DIRECT FIRE LOSS	This Month	Same Month Last Year	This Year to Date	Last Year to Date
Fire Loss (Best Figures to Date)	\$25.00	\$744.16	\$51,762.62	\$176,177.05
Persons Killed by Fire	-	-	2	1
Persons Injured	-	-	6	1

C INDEX FIGURES	This Year to Date	Last Year to Date
Fires per 1000 population	2.07	2.04
Fires per \$1,000,000 valuation		
Fires per 1000 buildings		
Fire loss per capita	\$1.74	\$6.09
Fire loss per \$1,000,000 valuation		
Average Fire loss per building fire	\$839.60	\$2989.80

D LOSS BY SIZE OF FIRE	This Month		This Year to Date				Last Year to Date	
	Fires	Losses	Fires	Losses	% of Fires	% of Loss	% of Fires	% of Loss
Over \$15,000	-		-				5.26	71.15
\$5,000 to \$15,000	-		3	\$26461.06	5.17+	54.33+	5.26	11.85
\$1,000 to \$5,000	-		8	\$14,687.09	13.79	30.16+	17.55	14.42
\$100 to \$1,000	-		20	\$6,881.19	34.48	14.13+	28.08	2.75
Less than \$100	-	\$25.00	13	\$667.28	22.4	1.37	17.55	.002
No Loss	1		14		24.13		26.31	
Total	2	\$25.00	58	\$48,696.62	100	100	100	100

Additional data used in C above: Population 28,000
 value \$..... Buildings in city.
 in C and D.

Valuation of Real Estate, corrected to true
 Note: Building fires and losses only are used

ANALYSIS OF LOSS FIGURES		This Year to Date	Last Year to Date
FIRES IN BUILDINGS			
Insurance Carried on Property Involved in Fires			
Preliminary Estimates of Insurance Losses			
Insurance Losses Adjusted		\$44,641.62	\$167,486.56
Insurance Losses Pending (Preliminary Estimates)		-	-
Estimated Uninsured Losses		\$4,055.00	\$2,932.09
Best Figures to Date		\$48,696.62	\$170,418.65
OUTDOOR FIRES (Automobiles, Grass, Misc.)			
Best Figures to Date		\$3,066.00	\$5,758.40
Totals		\$51,762.62	\$176,177.05

CAUSES OF FIRES IN BUILDINGS	No. of Fires This Month	This Year to Date			Last Year to Date		
		No. of Fires	Loss (Best Figure)	% of Total Loss	No. of Fires	Loss (Best Figure)	% of Total Loss
1. Chimneys, Soot Burning	-	1	None		-		
2. Defective or Overheated Chimneys, Flues	-				1	None	
3. Sparks on Wooden Shingle Roofs	-				1	None	
4. Sparks on Other Roofing	-						
5. Defective Heaters	-	1	\$351.11	.72+	2	\$337.37	.19
6. Rubbish Near Heaters	-	-			1	None	
7. Combustibles Near Heaters	-	5	\$9,737.15	19.99+	2	\$9,319.24	5.47
8. Open Lights, Flames	-	1	\$221.95	.45+	-		
9. Hot Ashes	-	1	None		1	\$100.00	.06
10. Oil Burners	-	-			1	\$1,317.00	.8
11. Florescent Light Transformers	-	12	\$50.00	.01	-		
12. Careless Smoking	-	8	\$1,684.80	3.46	3	None	
13. Children with Matches	-	8	\$3,015.00	6.19	4	\$2,033.96	1.19
14. Other Careless Use of Matches	-	1	\$1,625.00	3.45	-		
15. Defective Electric Wiring	-	5	\$935.00	1.9	8	\$15,481.43	9.08
16. Electric Appliances and Motors	1	8	\$10,249.72	21.04	8	\$366.75	2.15
17. Home Dry Cleaning	-	-			-		
18. Other Use of Flammable Liquids	-	1	\$10,996.95	22.58	1	\$35,245.00	2.07
19. Lamps and Stoves	-	1	None		1	None	
20. Gas and Appliances	-	2	\$50.00	.01+	2	\$200.00	.11
21. Grease on Stoves	-	2	\$50.00	.01+	6	\$1,650.72	.97
22. Spontaneous Ignition	-	-			-		
23. Fireworks	-	-			-		
24. Lightning—Rodded Buildings	-	-			-		
25. Lightning—Not Rodded	-	1	None		-		
26. Thawing Pipes & Soldering	-	2	\$1,463.61	3.0	3	\$220.00	.12
27. Sparks from Machinery	-	-			-		
28. Incendiary	-	-			-		
29. Miscellaneous Known Causes	1	5	\$3,960.17	8.13	6	\$90,474.89	53.06
30. Suspicious	-	2	\$669.11	1.37+	-		
31. Unknown	-	4	\$3,637.05	7.47	6	\$4,202.20	2.47
Total Building Fires	2	58	\$48,696.62	100	57	\$170,418.65	100

INSPECTIONS, FIRES, AND LOSSES BY OCCUPANCIES

Occupancy of Building	This Year to Date			Last Year to Date		
	Inspections	Fires	Losses	Inspections	Fires	Losses
I. PUBLIC BUILDINGS						
a. Government Buildings	6	1	\$150.00		1	None
b. Hospitals and Institutions	14	-			-	
c. Schools	35	2	None		-	
d. Churches	-	-			1	\$25.00
e. Amusement Buildings	20	1	\$100.00		2	\$7,658.48
II. DWELLING OCCUPANCIES						
a. Hotels & Motels	22	1	None		1	None
b. Lodging Houses & Dorms.	2	1	\$825.00		2	\$245.40
c. Apartments	14	9	\$5,904.57		4	\$4,931.75
d. Dwellings & Mobile Homes	20	21	\$34,186.95		30	\$67,500.72
e. Stores and Dwellings	1	-			-	
III. MERCANTILES						
a. Office Buildings	54	4	\$316.91		1	\$61.85
b. Small Retail Stores	77	-			1	\$3070.84
c. Restaurants	11	1	\$50.00		-	
d. Large Single Occupancy Mercantiles	19	-			1	\$74,048.35
e. Multiple Occupancy Mercantiles	-	-			-	
f. Wholesale Houses	5	-			-	
g. Storage Warehouses	6	1	\$200.00		-	
IV. MANUFACTURING						
a. Textile, Fabric Workers	-	-			-	
b. Metal Workers	4	-			-	
c. Wood Workers	3	-			-	
d. Food Products	2	-			-	
e. Chemical Works	-	-			-	
f. Flammable Liquids and Gases	1	1	None		-	
g. Multiple Occupancy Manufacturing	-	-			-	
h. Miscellaneous Manufacturing	7	-			1	None
V. MISCELLANEOUS BLDGS.						
a. Lumber Yards	1	-			-	
b. Railroad, Wharf Property	-	-			1	None
c. Bulk Oil Storage	4	-			-	
d. Public Garages and Filling Stations	30	1	\$50.00		-	
e. Private Garages	-	8	\$4,551.46		6	\$12,376.25
f. Miscellaneous Structures	49	6	\$2,361.73		5	\$500.00
Vacant Lots	10					
Total in Buildings	417	58	\$48,696.62		57	\$170,418.55

H FIRES AND LOSSES BY TYPE OF BUILDING

Type of Building	Fires to Date		Losses to Date	
	This Year	Last Year	This Year	Last Year
BUILDING IN WHICH FIRE STARTED				
Fire-Resistive:				
Reinforced Concrete	2	2	\$500.00	None
Protected Steel Frame				
Not Fire-Resistive*:				
Brick or Stone Walls	13	9	\$7,271.85	\$77,548.69
Iron-Clad				
Concrete Block or Tile Walls		4		\$61.85
Wood Frame	39	37	\$39,299.61	\$92,658.11
Not Classified	4	5	\$1,625.16	\$150.00
Totals in Buildings Where Started	58	57	\$48,696.62	\$170,418.65
Exposure Losses (Number of the above fires which spread to other buildings, and losses in these other buildings):	-	-	-	-
Total Losses				

* Interior construction mostly wood or with unprotected steel members

I FOLLOW-UP ON INSPECTIONS AND OTHER FIRE PREVENTION WORK

Number of Cases in Which the Following Work Was Done	This Month	Last Month	This Year to Date	Last Year to Date
Inspections by company personnel				
Inspections by fire prevention bureau	99	24	435	571
Complaints received	1	3	45	65
Total reinspections	7	8	293	204
Violations found	37	25	952	264
Extensions of time granted	2	3	117	
Notices of violations issued	63	10	271	117
Notices of Orders issued	6	0	23	92
Violations corrected	42	35	840	145
Conditions referred to other departments	4	2	73	
Court actions instituted	-	-	3	5
Arrests made	-	-	3	
Convictions	-	-	3	
Fire drills supervised	-	1	32	24
Radio talks	-	-	1	
Other talks and lectures: Number	2	4	47	
Total audience	57	68	1,498	
Photographs taken	-	26	170	
Tank Inspections	-	-	17	

Remarks on inspection and other fire prevention work:

The Inspection details were not as good last year so the column at right is incomplete. The inspections themselves in 1970 were much more thorough so there were not as many made but this will change now as a Deputy Fire Marshal has been added to the Bureau.

J INVESTIGATION OF FIRES	This Month	Last Month	This Year to Date	Last Year to Date
Total Fires Investigated	4	10	152	120
Determined Accidental	4	10	76	71
Determined Suspicious	-	-	3	7
Undetermined Origin	-	-	23	18
Incendiary (grass or rubbish)	-	-	50	24
Incendiary Fires:				
Fires for which Arrests were Made	-	-	-	-
Number of Arrests				
Cases in which Convictions were Secured				
Number of Convictions				
False Alarms:				
Alarms for which Arrests were Made	-	-	-	-
Cases in which Convictions were Secured				
Misdemeanors (in connection with fires):				
Convictions	-	-	-	-

Remarks on Investigation Work:

Fires at: 1800 block on Lyndale. Old abandoned building. No loss as it was going to be razed. Hobos had a warming fire in it.

1028 Stuart St. Furnace motor burned out, creating smoke in house.

Buttery parking lot. Car fire. Extensive damage to motor.

635 N. Warren St. Fire in Corvair Van. Caused by propane heater sitting on front seat. Interior damaged.

K PERSONNEL DATA

Manpower	This Month	Last Month	Same Month Last Year	Changes	This Month	This Year to Date	Last Year to Date
Total Personnel at End of Month	21	21	21	Appointments	-	1	4
Total Days Lost for Sickness	3	-		Resignations	-	1	1
Total Days Lost for Injury	-	-		Retirements	-	-	3
Average Daily Absences				Dismissals	-	-	-
Smallest Fighting Force on Duty	4	4	4	Deaths	-	-	-
Largest Fighting Force on Duty	6	6	6	Promotions	-	-	10
Vacancies Unfilled End of Month	-	-	-	Demotions	-	-	-
				Transfers	-	-	4

L HOW ALL FIRES WERE CONTROLLED	This Month	This Year to Date	Last Year to Date
Out before arrival of apparatus	2	37	25
By occupants (with extinguishers, hose lines, etc.)	-	10	2
Automatic sprinklers controlled fire	-	2	-
Automatic sprinklers held fire in check	-	-	-
By Fire Department, using:			
Brooms and shovels	-	3	2
Water solution extinguishers			
Pump cans	-	9	19
Foam extinguishers	-	-	1
XXXXXXXXXXXXXXXXXXXX			
CO ₂ or dry-chemical-gas units	1	14	9
Other type extinguishers	1	1	
By Fire Department, using:			
1-inch chemical or booster line	7	135	115
One 1½-inch hose line	-	-	7
Two or more 1½-inch hose lines	1*	6	5
One 2½-inch hose line	1*	4	3
Two or more 2½-inch hose lines			
Other equipment			
One 3-inch hose line	1*	8	7
Total Fires	12	219	195

M USE OF EQUIPMENT	At FIRES & Gasoline-Wash Down		At Drills	
	This Year to Date	Last Year to Date	This Year to Date	Last Year to Date
Feet of 1-inch hose used	8,384	6,542	950	
Feet of 1½-inch hose used	2,700	4,550	3,100	
Feet of 2½-inch hose used	850	2,500	1,700	
Feet of ladders used	367	106	794	
Number of salvage covers spread	-	-	7	
Gallons of water used (estimate) Booster Tank	31,869	15,500	8,260	
3-inch hose used	2,250	1,100	340	
All Three inch Hose is used to carry water to Pumps and is therefore not counted individually.				

N MISCELLANEOUS WORK	This Month	This Year to Date	Last Year to Date
Pieces of apparatus repaired	-	5	6
Cost of repairing apparatus		\$4,636.95	\$578.32
Pieces of equipment repaired	-	17	
Cost of repairing equipment		\$41.90	
FWD #1		\$2,753.34	
FWD #2		\$82.36	
Ladder Truck		\$1,801.25	

O MAN HOURS MAINTAINANCE & UPKEEP	BUILDING		EQUIPMENT		TRUCKS	
	THIS MONTH	THIS YEAR TO DATE	THIS MONTH	THIS YEAR TO DATE	THIS MONTH	THIS YEAR TO DATE
Shift number One	69	928	13	292	25	350
Shift number Two	55	750	20	387	24	328
Shift number Three	59	708	23	226	22	439
TOTAL	183	2,386	56	905	71	1,117

P MAN HOURS TRAINING	BUILDING INSPECTIONS		CLASS ROOM		FIELD	
	THIS MONTH	THIS YEAR TO DATE	THIS MONTH	THIS YEAR TO DATE	THIS MONTH	THIS YEAR TO DATE
Shift number One	27	74	145	810	4	375
Shift number Two	25	54	115	678	8	250
Shift number Three	12	35	102	791	6	354
TOTAL	64	163	362	2,279	18	979

REMARKS: Explanation or comments of importance or unusual items in sections A to P above.

Page one-B-Persons killed by fire:

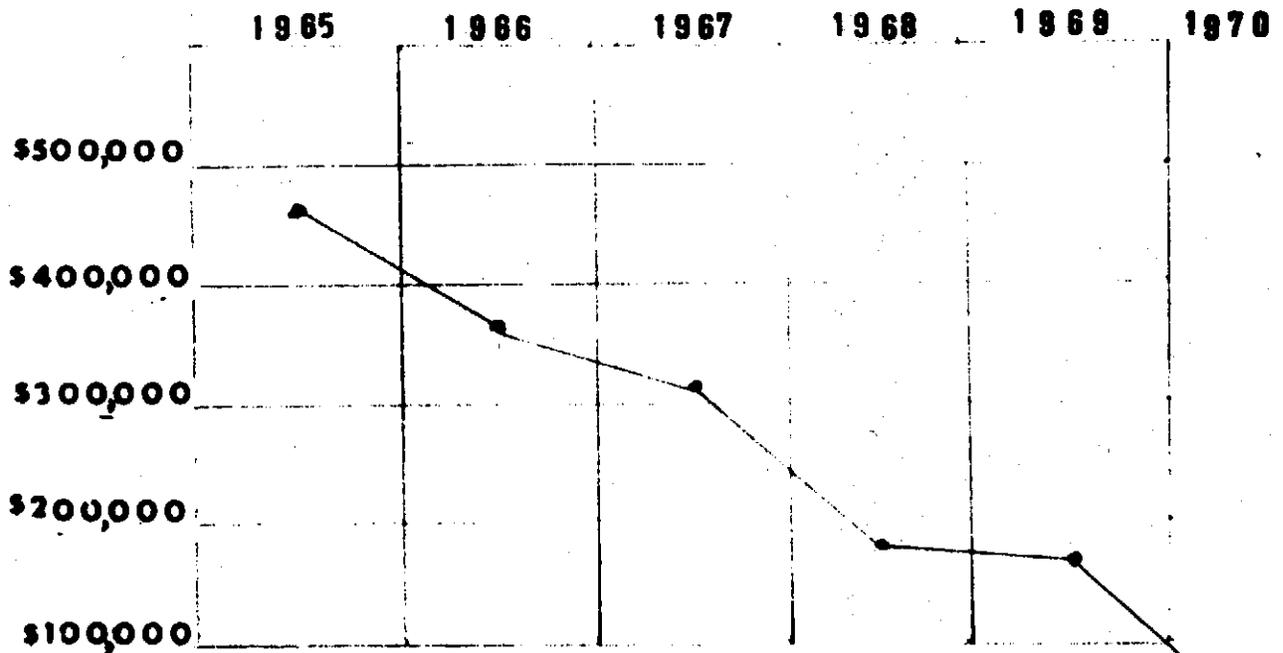
Mrs. Nancy Nolan Kain, age 64.
Mr. Ray William Foss, age 45.

Persons injured:

Keith Hodges, Fireman. Lacerated hand. No time lost.
April Baker, age 5. Third degree burns & smoke inhalation.
Joanne Baker, age 7. Third degree burns and smoke inhalation.
Clarence Kellogg, age 16. third degree burns on Arm and smoke inhalation.
Pat Ernst, age 15. second and third degree burns on legs.

Page six-L† * notes hose used on same fire. This makes a difference in total fires shown.

ANNUAL FIRE LOSS FIVE YEAR PERIOD



1965----\$459,435.00
 1966----\$374,605.00
 1967----\$317,687.00
 1968----\$186,769.00
 1969----\$176,655.00
 1970----\$ 51,762.62

LARGE LOSS FIRES DURING FIVE YEAR PERIOD

Knapp Service Station--1965--\$206,000.00
 Martha Hotel & Stoner Jewelry--\$176,037.00

Anaconda Lumber Co.--1966--\$263,395.00
 Parrot Confectionary--1966--\$46,863.00

Bank Club & Lounge--1967--\$136,950.00
 110 Edwards Apartment-----\$24,000.00

Grandon Hotel-----1968-----\$90,097.00

Claflin Furniture--1969--\$74,048.00

HELENA FIRE DEPARTMENT

MONTH Totals for 1970

FIRE SERVICE TRAINING RECORD

YEAR _____

SIGNED _____

NAME	MAIN PUMPS	BOOSTER PUMPS	AERIAL LADDER	HAND LADDER	TRUCKS (GENERAL) <i>Special Study</i>	RESUSITATOR	MASKS	EXTINGUISHER	HOSE REPAIR	HOSE EVOLUTIONS	ROPE AND KNOTS	OTHER EQUIPMENT	TRAINING FILMS	FIRE PLUGS	STREETS AND ADDRESS	PREPLANNING (SKETCHS)	FORCIBLE ENTRY	SALVAGE AND OVERHAUL	FIRE STREAMS	VENTILATION	RESCUE	FIRST AID	PUBLIC RELATIONS	Inspection class	Talks	TOTAL HOURS
	43	2	1		8	5	5	33	8			5		8	27	7			12			311	7	19	4	3
	123	4	1			4	4	22	19	23	6	23			15							68	67			
	22	10	2		52	4	13	14	4			5		4	30			4								
	3	1	4	72	66	4	4	1	32				4	6	32	4		4								
	10						30		10																	
	78	22	4	4	7	6	7	22	1	22	2	22	12	17	67				27							
	13	8	6	25	6	10	15	14	6			10		13	70	6			4		5					
	5	12	3			5	21	14	5	4	25	6		20	17	8			16		16					
	6	6	21		56	4	24	47	23	87		4		20	63	12			4		20					
	16	14	8		128	8	13	5	12	12			5		19				2		2					
	10	7			914	7	10	10			2		12	1	35	3	2	2	2	2	5					
	28	7			10								12	1	27				108	45	35	105				
	37	31	15	68	5	5	16	18	12	80	22		3	7	41			41	15		58					
	38	22	12	64	68	42	162	24	132	231	67	80	46	79	74	40	2	47	187	47	81	557	102	19	4	8

Total Hours: