

# HELENA FIRE DEPARTMENT



## 1993 ANNUAL REPORT

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100



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In previous wars, back to the Middle Ages, fire beacons were used for military signals. In the American Revolutionary War such beacons were constructed of logs in a pile fourteen feet square, eighteen feet high. In the center was placed a 35-foot sapling, soaked in pitch or other flammable substance. If it was necessary to signal the approach of enemy troops, or merely to assemble local militia and professional troops for some emergency, the sapling was ignited. These fire beacons were constructed on the tops of hills from the Hudson Highlands in New York State down through New Jersey, to the Neversink Hills at Sandy Hook.

Pictorial Field Book of the Revolution,  
U. S. National Archives



## City of Helena

March 10, 1994

Mr. William Verwolf  
City Manager  
316 N. Park  
Helena, MT 59623

Dear Mr. Verwolf,

It is my pleasure to submit to you the Annual Report of the Helena Fire Department for the year ending December 31, 1993. This report is a presentation of the operations and undertakings made by the members of this department in an ever-changing emergency service environment.

This report is a reflection of the fire protection, hazardous condition mitigation and emergency medical services which were provided on a daily basis during 1993. The population of Helena is 25,719 people, but it is estimated that during a normal work day there are approximately 49,500 people who live, work or visit here. Considering the number of people served by our department it is not surprising that our call load increased by 8.4% to 1,671 calls this past year. During the past five years, the Department's call load has increased by over 60%.

The obvious, emergency medical services and firefighting, are only a portion of the services that we provide. There is also a remarkable amount of "behind the scenes activity" that takes place. As professionals, the members prevent fires, through building inspections; plan reviews; and provide public education. Last, but by no means least, are those who strive to keep our personnel, apparatus, and equipment in the best condition possible, through daily maintenance and training. Thus, it is with pride that I present to you this annual report.

Sincerely,

Don Hurni, Fire Chief  
Helena Fire Department

HELENA FIRE DEPARTMENT

FIRE CHIEF  
Don Hurni

ASSISTANT FIRE CHIEF  
Mike Foster

DEPUTY ASSISTANT CHIEF/TRAINING OFFICER  
Steve Larson

FIRE PREVENTION BUREAU  
FIRE MARSHAL - Bob Knudson  
INSPECTOR III - Fritz Zettel  
ENGINEER - Don Gage

ADMINISTRATIVE ASSISTANT  
Nanette Buffington

COMBAT

SHIFT #1

BATT.CHIEF----Jim Skinner  
CAPT.-----Mike Spotorno  
LT.-----Norb Roth  
ENG.EMT-I----Larry Ross  
FF III EMT-D--Ed Flies  
FF III EMT-D--Brad Hampton  
FF I EMT-D----Brian Roberts  
FF I EMT-D----Rick Justice  
PFF -----Kasey DeLaHunt

SHIFT #2

BATT.CHIEF-----Bob Olson  
CAPT.-----Ron Morris  
LT.EMT-I-----James Feucht  
ENG.EMT-D-----Warren Ziegler  
FF III-----Doug Duncan  
FF III EMT-I---Bob Fearon  
FF III EMT-D---Kevin Kelly  
CFF EMT-D-----Scott Bockman  
FF I EMT-D-----David Harvey

SHIFT #3

BATT.CHIEF/MECHANIC----Bob Pare  
CAPT.EMT-D-----Jay Moore  
LT.-----Dale Klugman  
ENG.-----Pat Clinch  
FF III EMT-D Med.Dir.--Joel King  
FF III EMT-I-----Roy Swanby  
FF III EMT-D-----Jim Mitchell  
FF I EMT-D-----Jim Vonada  
FI I EMT-D-----Craig Trapp

PROMOTED:

Jim Vonada-----FF I  
Brian Roberts----FF I  
Craig Trapp-----FI I  
David Harvey-----FF I  
Rick Justice-----FF I  
Brad Hampton-----FF III  
Jim Skinner-----Battalion Chief  
Mike Spotorno----Captain  
James Feucht-----Lieutenant  
Pat Clinch-----Engineer  
Fritz Zettel-----FI II  
Fritz Zettel-----FI III

NEW HIRE:

Kasey DeLaHunt

RETIRED:

Dennis Sorrels---July 31, 1993



In 1948 the United States Post Office issued a three cent stamp honoring the 300th Anniversary of volunteer firemen. Peter Stuyvesant, Governor of Nieuw Amsterdam (New York) was named organizer of the first volunteer firemen in America.

SELECTED STATISTICAL DATA - FIRE SUPPRESSION DIVISION

1.	TOTAL NUMBER OF ALARMS		1,671
2.	TYPE OF SITUATION FOUND		
	a. Fire/Explosion		99
	b. EMS		1,210
	c. Hazardous Condition		68
	d. Public Service		30
	e. Alarm Malfunction		155
	f. False Alarm		11
	g. Miscellaneous		98
	<b>TOTAL</b>		<b>1,671</b>
3.	ALARMS BY MONTH OF THE YEAR		
	a. January		135
	b. February		131
	c. March		137
	d. April		142
	e. May		134
	f. June		146
	g. July		147
	h. August		162
	i. September		155
	j. October		132
	k. November		111
	l. December		139
	<b>TOTAL</b>		<b>1,671</b>
4.	ALARMS BY DAY OF THE WEEK		
	a. Sunday		216
	b. Monday		228
	c. Tuesday		244
	d. Wednesday		252
	e. Thursday		231
	f. Friday		254
	g. Saturday		246
	<b>TOTAL</b>		<b>1,671</b>
5.	INJURIES/CASUALTIES		
		FF	Civ
	a. Injuries	0	3
	b. Casualties	0	1

6.	FIRE LOCATION AND DOLLAR LOSS		
a.	Structure	45	\$ 212,275
b.	Vehicle	21	19,860
c.	Other	33	1,170
	<b>TOTAL</b>	<b>99</b>	<b>\$ 233,305</b>
7.	FIRE BY MONTH OF THE YEAR		
a.	January	13	
b.	February	2	
c.	March	9	
d.	April	10	
e.	May	6	
f.	June	10	
g.	July	8	
h.	August	8	
i.	September	5	
j.	October	9	
k.	November	6	
l.	December	13	
	<b>TOTAL</b>	<b>99</b>	
8.	FIRE BY DAY OF THE WEEK		
a.	Sunday	18	
b.	Monday	15	
c.	Tuesday	15	
d.	Wednesday	14	
e.	Thursday	11	
f.	Friday	12	
g.	Saturday	14	
	<b>TOTAL</b>	<b>99</b>	
9.	FIRE CONTROL METHODS		
a.	Extinguish	59	
b.	Investigation	29	
c.	Remove Hazard	5	
d.	Other	6	
	<b>TOTAL</b>	<b>99</b>	
10.	STRUCTURE FIRE CAUSES		
a.	Incendiary	1	
b.	Misuse of Heat	10	
c.	Misuse of Material	6	
d.	Mechanical Failure	16	
e.	Design Deficiency	0	
f.	Operator Deficiency	8	
g.	Natural Condition	2	
h.	Other	2	
	<b>TOTAL</b>	<b>45</b>	



## City of Helena

**TO: DON HURNI, FIRE CHIEF**  
**FROM: ROBERT A. KNUDSON, FIRE MARSHAL**  
**DATE: MARCH 1, 1994**  
**SUBJECT: 1993 FIRE PREVENTION BUREAU ANNUAL REPORT**

Tragically, the State of Montana has the distinction of having the third highest fire death rate in the nation.

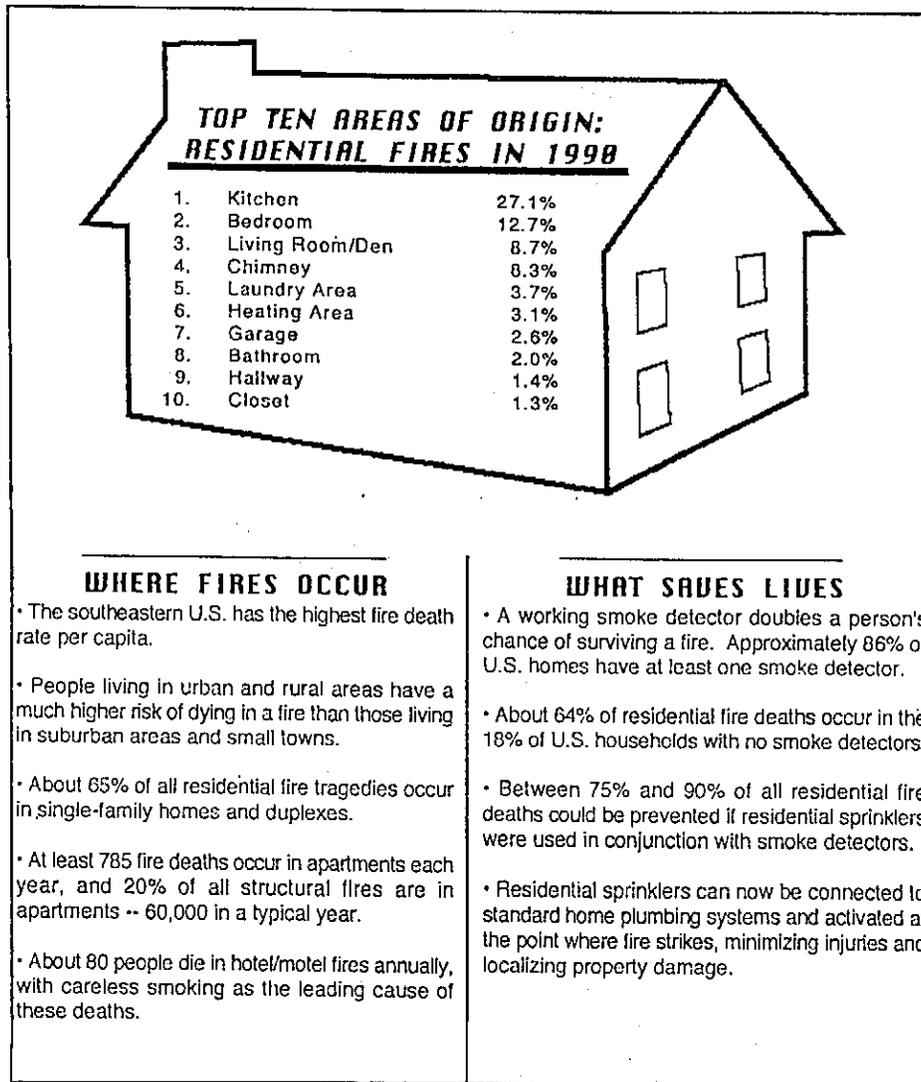
In an effort to reduce the number of lives lost to fire, the Helena Fire Department in cooperation with St. Peter's Community Hospital, and through the generous financial support of the three Helena Kiwanis Clubs, will be implementing a program to place smoke detectors in the homes of families with newborn infants.

While it will not be possible to give every family a smoke detector, it is our hope to reach those families that may not otherwise have the means to adequately protect their loved ones.

### FACTS ABOUT SMOKE DETECTORS

- \* In a recent survey, half of the respondents mistakenly believed that they would be awakened by the smell of smoke in time to escape. In reality, smoke often disorients people and dulls their senses. In addition, most people die of smoke inhalation in residential fires rather than of burns.
- \* A working smoke detector doubles a person's chance of surviving a fire.
- \* About 64% of residential fire deaths occur in households without smoke detectors.

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I respectfully submit the following activities for the Fire Prevention Bureau for the year 1993.

Inspections	587	Plan Review	56.25 hours
Reinspections	559	Code Review	7.5 hours
Complaints Inv	71	Order of Compl	14
Fire Inv	15	PSA	9
Arson Inv	4	Permits	11
Fuel Inv	1	Juvenile Counseling	9
Arson Arrests	4	Convictions	4
Station tours	53	Presentations	60
Adults	197	Adults	440
Children	1,207	Children	970



## City of Helena

**TO: DON HURNI, FIRE CHIEF**

**FROM: JOEL P. KING, MEDICAL DIRECTOR**

**DATE: MARCH 1, 1994**

**SUBJECT: MEDICAL DIRECTOR'S REPORT FOR 1993**

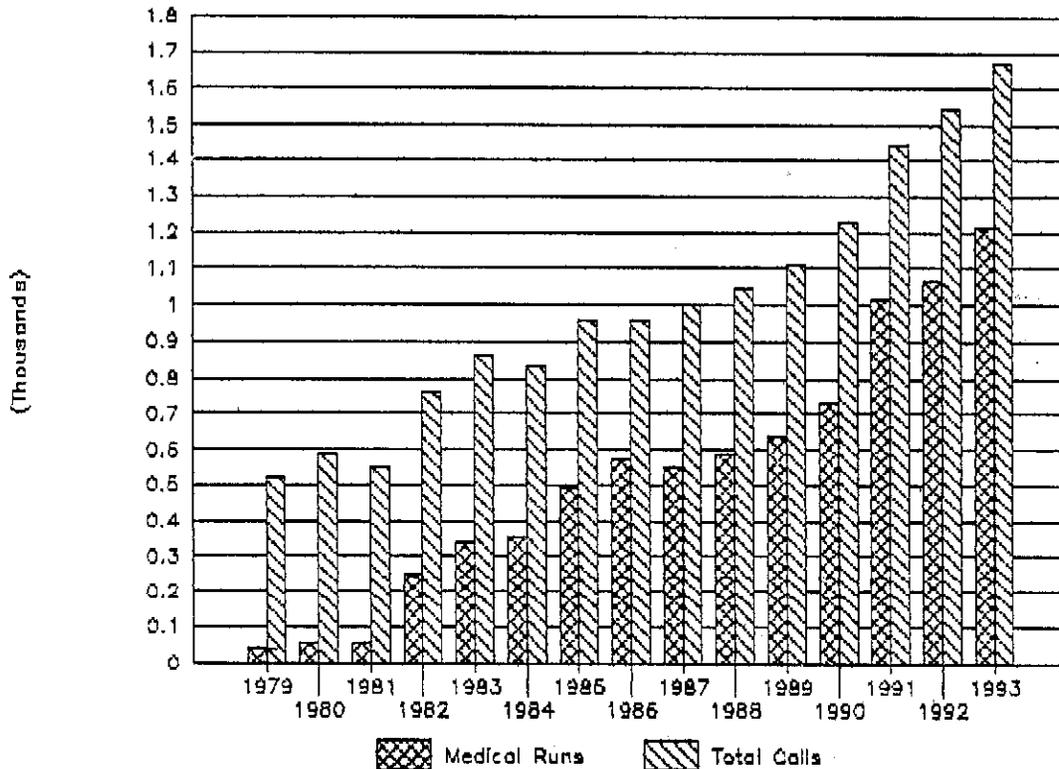
The Helena Fire Department continues to provide a very valuable service to the community through the Department's Emergency Medical Services Program. Having strategic assets in the form of manpower, equipment, skills and short response times, the Department is the logical mechanism to provide rapid intervention to not only threats to property but also to the lives of individuals in the community.

This capability of the Fire Service has long been recognized, however the exponential growth into pre-hospital care by the Fire Service has been a characteristic of recent decades. This expanding role was primarily brought about by advances in pre-hospital care research during the Vietnam War era. Treatment of shock, facilitating adequate circulatory perfusion and rapid transport to trauma care centers were accurately viewed as viable strategies that could be employed for peace-time treatment of rural and urban injuries.

Today, the need for and presence of community pre-hospital care is almost taken for granted. I am proud to report on the contribution this Department makes toward the emergency care for the Helena community.

Continuing a steady, upward trend, the Helena Fire Department responded to 13.7% more medical calls in 1993 than in the previous year. The number of requests for Emergency Medical Services in this community has been on a steady climb for a number of years. In 1992, we responded to 1064 EMS calls, whereas for 1993, the Department was called for 1210 medical related incidents. The following graph depicts the yearly total medical calls since 1979, together with the total of all runs per year.

Total Calls Compared to Medical Runs



In line with many Fire/Emergency Medical Service providers across this country, our Department continues to see requests for Emergency Medical Assistance making up roughly 72% of our total response activity.

For a typical medical call, this Department responds with two firefighters in a squad truck from the closest station to the incident scene. We are met at the scene with an ambulance from St. Peters Hospital, staffed by two ALS trained EMT's. On some occasions, Helena Police Officers are dispatched to provide scene security and law enforcement.

As in the previous two annual Department reports, a breakdown of the "nature of the emergency" is again provided in the following table. This information is further broken out by station and the total by category is compared with the previous year.

This data shows the majority of the medical run requests are responded to from the main station. This also shows that the westside of town is more often strained for immediate available manpower than is the eastside. On more and more occasions, two firefighters are committed to a medical call until relieved by the arriving ambulance crew.

MEDICAL CALLS HELENA FIRE DEPARTMENT 1993

TYPE OF CALL AND/OR PATIENT PROBLEM	STATION #1	STATION #2	1993 TOTAL	% OF TOTAL	1992 TOTALS
1. Abdominal	26	5	31	2.60%	27
2. Alcohol/Drug Abuse	69	19	88	7.38%	90
3. Assaults and Fights	31	5	36	3.02%	45
4. Attempted Suicides	13	4	17	1.42%	16
5. Back Injury/Pain	14	7	21	1.76%	17
6. Breathing Difficulty	83	36	119	9.97%	56
7. Burns	5	0	5	0.42%	2
8. Cancelled at Scene	26	13	39	3.27%	43
9. Cancelled in Route	8	3	11	0.92%	19
10. Cardiac Arrest	16	4	20	1.68%	29
11. Chest Pain	67	20	87	7.29%	54
12. COPD	1	0	1	0.08%	14
13. Deaths	17	6	23	1.93%	10
14. Diabetic	29	11	40	3.35%	30
15. Falls	127	56	183	15.34%	132
16. Fainting	22	8	30	2.51%	23
17. Head Injury	13	6	19	1.59%	0
18. Trauma	22	7	29	2.43%	33
19. Motor Vehicle Accident	97	53	150	12.57%	123
20. Other	65	29	94	7.88%	128
21. Seizures	45	22	67	5.62%	69
22. SIDS	2	0	2	0.17%	1
23. Sports Injury	11	2	13	1.09%	4
24. Stroke	11	6	17	1.42%	17
25. Unknown Problem	27	24	51	4.27%	67
<b>TOTAL CALLS</b>	<b>847</b>	<b>346</b>	<b>1193</b>	<b>100.00%</b>	<b>1049</b>
<b>PERCENT OF TOTAL</b>	<b>71.00%</b>	<b>29.00%</b>			

Several other statistics of interest that I have been tracking are the number of occasions "EMT-I" level skills were used, number of times Fire Department EMTs went with a patient to the hospital, and the number of simultaneous calls. In 1993, on 20 occasions "I skills" were used. There were 91 times in which an EMT was needed to go in the ambulance providing patient care in transit to the hospital, 64 of which utilized personnel from the main station. The total figure was 57 for such trips in 1992. For 1993, the number of simultaneous calls increased to 90, up from 57 the previous year. Additionally, this Department used our portable cardiac defibrilators on 16 occasions in 1993.

In view of the future, I would like to make the following recommendations concerning this Department's EMS program. I feel it is imperative to anticipate future needs and prepare to meet the future challenges. If we wish to provide an optimum pre-hospital care service, then we must be pro-active in our approach.

#### RECOMMENDATIONS

1. This Department should initiate a process whereby the users of this EMS system are encouraged to provide comment on the quality of the service that they receive. We need to actively solicit feedback from both the taxpayer and the recent recipient of our service to identify areas for improvement.
2. We should take steps to educate the general public as to the services that we presently provide.
3. Our Department should determine what the costs are for delivery of the current level of emergency medical services.
4. We should explore other avenues of service, such as periodic blood pressure clinics at fire stations for health care monitoring as a means toward early detection of preventable medical problems.
5. In terms of economy, we should explore the possibilities of sharing resources with our partner in EMS, the local area ambulance service. Is the present response arrangement the best that can be provided for the area user?

These are several issues that should be considered in view of improving our service in the future.



## City of Helena

**TO:** DON HURNI, FIRE CHIEF  
**FROM:** STEVE LARSON, DEPUTY ASST. CHIEF/TRAINING OFFICER  
**DATE:** MARCH 3, 1994  
**SUBJECT:** ANNUAL TRAINING REPORT FOR 1993

1993 has seen the Training Division continue to develop the training curriculum which began last year. Topics which received a major focus during 1993 were: Hazardous Materials, Structural Firefighting, Aircraft Firefighting and Emergency Medical Training.

### **Hazardous Materials Training**

Hazardous Materials Training occupied a major portion of the training schedule throughout the year. All combat firefighters as well as eleven Public Works personnel successfully completed the thirty hour "Operation Level" course. In addition to this training, the Training Division provided Hazardous Material Training to sixty-seven employees from Public Works and St. Peter's Ambulance Service.

Late last spring, we were able to apply our training with Hazardous Materials to the Propane Firefighting Course sponsored by Ranger Insurance, Montana Propane and the Helena Fire Department. This evening course reinforced our previous training and provided the firefighters with "hands on" training in extinguishing propane fires. This training was attended by our Department and eleven Fire Departments from around the state.

### **Structural Firefighting**

Structural Firefighting topics taught this year were: IFSTA Fire Streams Course, Fire Ground Tactics and Strategy, Multi-Story Highrise School and a Waterous Fire Pump School. The last two courses were opened up to neighboring Fire Departments. A total of 200 firefighters accepted our invitation to training. I plan to continue this invitation throughout 1994.

**HELENA FIRE DEPARTMENT**  
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## Aircraft Rescue and Firefighting Training

Aircraft Rescue and Firefighting is an area of firefighting we as a Department have never ventured into until this year. A note of appreciation is due to the Helena Regional Airport for their support and commitment to this training. Without their help, we would not have been able to complete this task. Topics included: Airport Familiarization, Airport/Aircraft Communications, Operation of Airport Firefighting Vehicles and Tactics for Responding to Aircraft Emergencies.

At the completion of this training, a "full scale" exercise was held with the Airport, St. Peter's Hospital, Helena Police Department and the local DES coordinator. By all accounts, this training was needed and successful.

## Emergency Medical Training

This past year, the Training Division assisted sixteen Emergency Medical Technicians recertify their state and national certification. Included in the recertification are: 48 hours of medical training, CPR certification and a 24 hour refresher course. EMT training requires a dedicated effort by all who participate. We are fortunate to have such a dedicated group of firefighters in our Department.

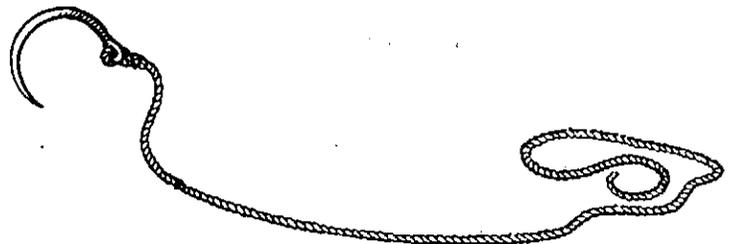
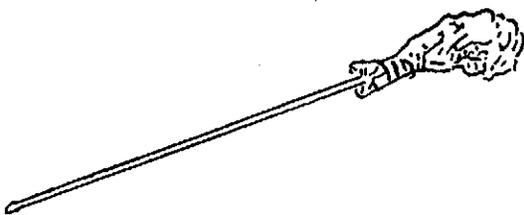
In addition to these training programs, the Training Division tested and evaluated firefighting equipment such as 1 1/2" nozzles, monitors, appliances and hand-held radios. This testing will help assure that the products we purchase will meet our needs.

Five firefighters attended the Advanced Drivers Education Workshop: Pat Clinch, Brian Roberts, Dave Harvey, Rick Justice and Jim Vonada.

With the assistance of Administrative Assistant Nan Buffington, the Training Division was able to develop a tracking and accountability system for compilation of training statistics. This program allows us to identify course completion information as well as how many hours of training each firefighter has completed. As a department, we accumulated a total of 4,112 hours of training in 1993.

With this, I submit the 1993 Training Division annual report.

Swab used by householders and fire wardens for smothering fires in thatched roofs.



Type of hook used for pulling down houses when fire was spreading in colonial settlements.



## City of Helena

**TO: DON HURNI, FIRE CHIEF**  
**FROM: BOB PARE, MECHANIC**  
**DATE: FEBRUARY 1, 1994**  
**SUBJECT: 1993 TRUCK AND EQUIPMENT MAINTENANCE**

Major work on apparatus and equipment is performed by the Fire Department mechanic, and most minor work and preventative maintenance is performed by shift members.

Following is a breakdown of costs of repair parts by vehicle:

Engine 1 (1986 Sutphen).....	\$ 1,138.35
Engine 2 (1980 Hahn).....	\$ 183.98
Engine 3 (1975 Seagrave).....	\$ 20.45
Truck 1 (1976 Sutphen).....	\$ 219.88
Truck 2 (1946 Pirsch).....	\$ 112.57
Squad 1 (1987 Ford).....	\$ 192.51
Squad 2 (1980 Chevrolet).....	\$ 416.76
#127 (1980 Sedan).....	\$ 65.41
#129 (1980 Ford Pickup).....	\$ 276.42
#130 (1985 Ford Pickup).....	\$ 35.35
#133 (1987 Ford Van).....	\$ 492.63
#136 (1989 Ford Bronco).....	\$ 328.10
<b>Total vehicle repair parts.....</b>	<b>\$ 3,482.41</b>
<b>City Shop Service Charge.....</b>	<b>\$ 2,057.10</b>
<b>Total equipment repairs.....</b>	<b>\$ 2,943.72</b>
<b>Total vehicle &amp; equipment repair.....</b>	<b>\$ 8,483.23</b>

HELENA FIRE DEPARTMENT

YEARLY FUEL REPORT

(January 1, 1993 to December 31, 1993)

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Vehicle	Fuel Type		YTD	Miles		MPG
	Diesel	Gasoline Non-Lead		ODO		
#135 Engine #1	644.4		2,353.0	20,548.0	3.65	
#137 Engine #2	379.7		1,914.0	28,178.0	5.04	
#132 Engine #3	136.9		282.0	16,756.0	2.06	
#134 Truck #1	390.8		1,157.0	16,153.0	2.96	
#138 Truck #2		40.4	39.0	2,291.0	0.97	
#139 Squad #1		704.5	3500.0	14018.0	4.97	
#131 Squad #2		774.3	2640.0	22292.0	3.41	
#127 Gray Ford		324.9	4,839.0	51,189.0	14.89	
#129 Ford Pickup		602.9	4,333.0	60,931.0	7.19	
#130 Ford Pickup		291.1	3,815.0	41,452.0	13.11	
#133 Ford Van		441.5	6,649.0	37,449.0	15.06	
#136 Ford Bronco		229.9	3,415.0	52,481.0	14.85	
misc.		36.8				
<b>TOTALS</b>	<b>1,551.8</b>	<b>1,519.2</b>	<b>1,927.1</b>	<b>34,936.0</b>	<b>363,738.0</b>	<b>6.99</b>

FIRE APPARATUS

<u>APPARATUS #</u>	<u>STATION</u>	<u>TYPE OF APPARATUS</u>	<u>DESCRIPTION</u>	<u>YEAR</u>
Engine 1	1	1250 Pumper	Sutphen	1986
Engine 2	2	1250 Pumper	Hahn	1980
Engine 3	1	1250 pumper	Seagrave	1975
Truck 1	1	85' Tower	Sutphen	1976
Truck 2	2	75' Ladder	Pirsch	1946
Squad 1	1	Mini/Rescue	Ford	1986
Squad 2	2	Mini/Rescue	Chevrolet	1979
#127	1	Staff	Ford 2 dr.	1980
#129	1	Staff Pickup	Ford Pickup	1981
#130	1	Staff Pickup	Ford Pickup	1985
#131	1	Staff Van	Ford Van	1986
#136	1	Staff Bronco	Ford Bronco	1989

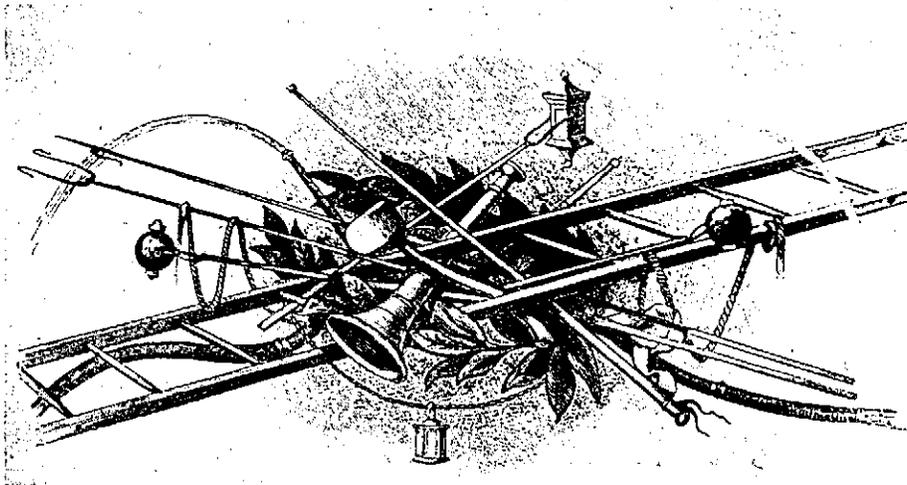
FIRE PROTECTION CONTRACTS

At the present time the City of Helena has several Fire Protection contracts with areas outside the city limits. These include the Fairgrounds, State Highway Shops, and the area west of the City which is Fire District #3. We cover these areas with one (1) pumper and three (3) men. The cost of the fire protection for these areas is computed by using the mill levy necessary for operating the Helena Fire Department. The cost for taxpayers in the fire district is computed on the same basis as for people who live in the city limits. The private protection contracts are re-negotiated each year after determining the operational budget for the Helena Fire Department.

Following is a breakdown of the money received by the City of Helena from these contracts:

FAIRGROUNDS.....	\$ 3,601.00
HIGHWAY SHOPS.....	\$ 2,024.00
WESTSIDE FIRE SERVICE AREA.....	<u>\$66,151.50</u>
TOTAL.....	\$71,776.50

The Helena Fire Department also has two (2) Mutual Aid contracts. These contracts are with the West Helena Valley Volunteer Fire Department and the East Helena Volunteer Fire Department. These contracts state that in the event of a large fire, the Helena Fire Department would receive one (1) pumper and ten (10) men from each fire department for a total of two (2) pumpers and twenty (20) men. If either of the volunteer fire departments should need our help, we are obligated to send one (1) pumper and two (2) men.



Equipment of the typical volunteer fire department in mid-nineteenth century including ladder, nozzles, hose, hooks, lamps, trumpet, axe and other necessities.



I have ten little toes  
That are all in place;  
I have one little nose  
That is on my face.  
My fingers are still  
Where they ought to be  
And there's nothing at all  
The matter with me.

My thumbs and ears  
Are as good as new  
So I'll give three cheers  
And a tiger, too!  
I can dance and sing,  
I can shout with glee,  
For there's not a thing  
The matter with me.  
- S.E. Kiser. -

J.S.  
Kiser  
1916

A JULY 5th INVENTORY

## Fireworks — A Dangerous Means of Celebration

Fireworks and human beings do not mix well. Thousands of victims of firework burns and injury can verify that statement. But each year when July 4 approaches, a kind of early summer madness begins all over the United States as adolescents and their older parents and friends hasten to buy or otherwise acquire fireworks to celebrate the anniversary of American Independence. On July 5 quite a few of these persons have changed from celebrants to patients in a medical clinic or hospital. Some die.

A reading of any summary of fireworks accidents is depressing, because the consequences of humans gambling with their personal safety shock our concepts of intelligent action. . . . A ten-year-old boy holding a large firecracker between his teeth when it explodes. . . . Hundreds of children with one or more eyes blinded by untimely explosions. . . . A man carrying a lapful of small

bombs in his lap when someone playfully lights one firecracker. . . . The record of such incidents is an incredible encyclopedia of human folly.

In 1937, the year before a model ordinance for the control of fireworks was developed, an estimated 2,300 fires were caused by fireworks, with an unknown toll of injuries. In 1969, when a major national survey was made, there were 2,009 reported incidents, with injuries to 1,330 people and 774 cases of property damage. Five of the injured victims died.

Twenty-four percent of the injuries were caused by Class B fireworks which include toy torpedoes, railway torpedoes, certain firecrackers, and other devices. Forty-two percent of the injuries were caused by Class C fireworks which are not regulated by Federal legislation.

(The cartoon and verse above were published in 1916.)<sup>11</sup>

