

powder is united with water it solidifies' becoming quite as hard as when in the form of gypsum.

If the mill be kept running night and day at its full capacity the yield of manufactured plaster would be ninety tons per day. At the present time, however, the Company is shipping, on an average, only fifteen car loads per month.

The markets are Utah, Idaho, Montana, Washington, Oregon and California.

The uses of plaster-of-Paris are manifold. In white washing it is frequently used as a substitute for lime. Dentists use it to aid in making artificial teeth. Builders utilize it largely for various purposes of ornamentation. Its value in modeling figures and busts can not be estimated.

To the beauty-loving eye the contemplation of statuary produces a most pleasurable emotion. The figures made of plaster-of-Paris are considered by some to be nearly as beautiful as marble, and it has the advantage of being much less expensive.

ESTELLA NEFF.

NEPHI, Utah.

## CHIEF STANTON'S ANNUAL REPORT

Chief Stanton of the fire department will, early in the coming year, submit his third annual report to the Mayor and the members of the City Council. As the report will be full of very valuable statistics and information of more than ordinary interest, as reports go, it is herewith given.

It will read as follows, so far as service during the last ten days of the present month will not interfere:

In accordance with the requirements of the city ordinance governing the fire department I herewith submit my third annual report, the same being the tenth of the paid fire department of Salt Lake City for the fiscal year ending December 31st, 1892.

The report will give a complete record of the operations of the department, with statements in detail embracing the amount of expenditures, a roster of all fires and alarms, location and causes thereof having occurred during the past year, with the loss and insurance as far as the same could be ascertained; a complete inventory of all the property under my charge; also a general statement of the engines, hook and ladder trucks, hose wagons, hose carriages, horses, fire alarm telegraph, and such other information as may be found of interest to your honorable body.

### GENERAL SERVICE.

The department responded to a total of 131 alarms up to December 20th, an increase of 23 over that of last year for the same time. The department traveled 142½ miles in responding to the alarms; was in actual service 58 hours and 30 minutes extinguishing the fires; stretched 39,500 feet of hose and consumed 2691 gallons of chemical. The alarms for the fiscal year are classed as follows:

Box alarms.....	65
Telephone alarms.....	41
Still alarms.....	19
Police alarms.....	2
False alarms.....	11
Total.....	131

The amount of insurance involved up to December 1st was \$412,244.50; the total loss by fire amounted to

\$110,516.30; the amount of insurance loss was \$108,951.30; net loss over and above insurance paid, \$18,610.

### APPARATUS.

The apparatus in the department in service and fully equipped consists of one second-class Silsby steam fire engine, one third-class Silsby steam fire engine, one horse wagon, capacity 1200 feet cotton hose, one hose reel, capacity 1000 feet, cotton hose, one hose reel, capacity 800 feet cotton hose, one hose reel, capacity 600 feet cotton hose, one hose reel, capacity 500 feet cotton hose, one 75 feet Preston aerial hook and ladder truck, one village hook and ladder truck, one Holloway chemical engine, two 60-gallon tanks, one supply wagon, one chief's buggy, one huckboard used for line work.

### THE FORCE.

Thirty officers and men constitute the permanent force of the department as follows:

Chief engineer.....	1
Assistant chief.....	1
Secretary and operator.....	1
Superintendent fire alarm telegraph.....	1
Captains.....	4
Engineers.....	2
Stokers.....	2
Drivers.....	7
Pipemen.....	5
Laddermen.....	6
Total.....	30

In addition to this number there are twenty callmen and twenty volunteers who do not receive any compensation whatever except when ordered into service by the chief or his assistant. The pay of the callmen was abolished in February, and for that particular reason two permanent men were added to the force. During the past year four members of the department were promoted; two resigned, two were dismissed and six suspended for cause. With the two last named exceptions the discipline of the department has been commendably good.

### HORSES.

The horses of the department are among its most important factors. There are now seventeen in the service. Of this number it requires fifteen to move the apparatus, leaving but two in reserve to provide against accident, lameness or sickness. During the year two were purchased and three exchanged. Hereto appended will be found our veterinary surgeon's report, giving in detail the health and condition of the horses and of his services during the year, to which your attention is respectfully called.

Generally speaking the animals in use have been in excellent condition. They are well trained, tractable and in every way adapted for their work.

### HOSE.

There is in the department at the present time 6000 feet of first class, 2000 feet of second class, and about 400 feet of unreliable hose.

### HYDRANTS.

At present there are 711 fire-hydrants throughout the city, an increase of 208 over that of last year.

### FIRE ALARM TELEGRAPH.

This branch of the department is in first-class working order. Considerable work in the way of extensions has been done during the past year.

Hereto appended will be found a complete report of all the work done under the supervision of Capt. Charles T. Vail, to which I would respectfully call your attention.

Captain Vail's report will not be submitted until about January 1st, but will show that twenty-five new fire alarm boxes were placed in position and fourteen miles of over-head wire stretched during the present year. All of the work, amounting to several hundred dollars in value, was done by the department and thus a big saving made for the city.

### BUILDINGS.

As to buildings will say that the old silk factory was removed from the mouth of City Creek canyon and the material used in constructing a granary and hospital for sick horses at the rear of Engine House No. 1; also one small hose house built on Burlington addition at corner of Indiana avenue and Pueblo street; also small hose house at Warm Springs, at corner of Eighth North and Second West streets.

### THE DEPARTMENT'S FINANCES.

A recapitulation of the finances of the department up to December 1st was as follows:

Salary account.....	\$28,172 40
Houses and repair account.....	1,679 83
Horse and veterinary surgeon account.....	478 75
Apparatus and wagon account.....	1,443 84
Light and fuel account.....	896 95
Harness and stable account.....	2-0 66
Horse feed account.....	2,339 53
Horse shoeing account.....	203 48
Printing and office account.....	244 05
Fire alarm telegraph account.....	4,469 69
Miscellaneous account.....	1,400 64
Total.....	\$41,890 05

### OFFICERS.

The officers of the department are as follows:

W. A. Stanton, chief engineer and fire inspector. Headquarters, 130 east First South.

M. M. Donovan, assistant chief. Quarters, 87 and 89 north Second West.

Chas. T. Vail, supt. fire alarm telegraph and captain house No. 1. Quarters, 132 and 134 east First South.

W. E. Henton, captain house No. 2. Quarters, engine house No. 2.

Wm. Gilbert, captain aerial truck and house No. 3. Quarters, house No. 3.

Chas. Foley, captain chemical engine company, No. 1. Quarters, house No. 3.

R. S. Connor, secretary, headquarters.

### PERMANENT FIREMEN.

The permanent firemen exclusive of officers are as follows: W. B. Bates, John T. Barry, H. H. Brough, F. H. Burt, T. F. Chapman, J. J. Clark, Byron Crosby, Ed Fitzgerald, M. P. Hooker, John Manin, J. C. Masden, Amos Moreton, H. L. Meyers, C. H. Montague, John McMullaa E. J. Randolph, John Regan, J. H. Schwartz, J. J. Sullivan, P. J. Sullivan, D. A. Sullivan, Thomas Welsh, W. G. Workman.

### NUMBER AND LOCATION OF FIRE ALARM BOXES.

- 12 Commercial and First South.
- 13 First South and Main.
- 14 Second South and Main.
- 15 Third South and Main.
- 16 Sixth South and Main.
- 17 Second North and Center.
- 18 Eighth South and Main.
- 21 First East and Second South.