TABLE NO. V-CONTINUED.

| D D D D D | alnut Township | February 2 February 17 April 19 |
|---|---|---------------------------------------|
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| D D D | es Molnes | |
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| D | es Moines | -May o |
| | es Molnes | _May 11 |
| | | |
| | es Moines | |
| | es Molnes | May 18 |
| | es Molnes | |
| | es Moines | July 20 |
| | es Moines | |
| D | es Molnes | September 25 |
| | es Molnes | |
| | es Molnes | December 10 |
| | es Molnes | |
| Pottawattamie C | ouncil Bluffs | April 7 |
| 0 | ouncil Bluffs | August 15 |
| C | ouncil Bluffs | September 7 |
| E | loomer Township | November 33 |
| | ouncil Bluffs | |
| Kee S | challer | September 15 |
| 8 | ac City | September 18 |
| P | eavenport-2 fires | April 12 |
| Scott | Pavenport | April 12 |
| 4 | avenport | July 7 |
| i i | Settendorf | September 1 |
| | ireeley Township | April 1 |
| Shelby | Portsmouth | November 12 & II |
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| TamaT | 'ama | December 29 |
| Wanter Y | Blockton | November 1 |
| Taylor | Fravity-2 fires | December 8 |
| | | |
| , | daloy | December 10 |
| Water (| Creston | March 30 |
| | | |
| Van Buren | Bentonsport | June v |
| West and the Control of the Control | Ottumwa | January 11 |
| | | |
| | Vany Ottomwa | October 6 |
| i | Cirkville | December 8 |
| | der Western | April 14 |
| Washington | Near Washington | November 5 |
| | Riverside | |
| Wayne | Rumeston | September 14 |
| | Porest City | December #1 |
| | | |
| Woodbury | Sloux City | January 15 |
| state inter | Sloux City-2 fires | August |
| | Sloux City—2 fires | October II |
| | Sloux City | October 20 |

STATE OF IOWA

1916

REPORT OF THE

STATE FIRE MARSHAL

FOR THE YEAR 1916

OLE O. ROE State Fire Marshal

THE STATE OF IOWA
DES MOINES

STATE FIRE MARSHAL

Appointed by the Governor. Term, Four Years. Expires July 1, 1919.

| Office | Name | Legal Residence | Birthplace |
|--|--|--------------------|----------------------|
| Pire Marshal Deputy Assistant Assistant Chief Clerk and Stenog- rapher | J. A. Tracy E. J. Frowick H. G. Zimtzerman | Dows | towa Iowa Iowa |

LETTER OF TRANSMITTAL

Des Moines, February 1, 1917.

Hon. W. L. Harding, Governor of Iowa.

Sir:—In compliance with the provisions of Section 2468-n, Supplement to the Code, 1913, I have the honor to submit herewith my sixth annual report of my official acts and of the affairs of this office, covering the period beginning January 1, 1916, and ending December 31, 1916, both dates included.

Oh O. Rac

State Fire Marshal.

ROBERT HENDERSON, STATE PRINTER J. M. JAMIESON, STATE BINDER ISSUED MARCH, 1917

SIXTH ANNUAL REPORT STATE FIRE MARSHAL

For the year 1916, 4,471 fires were reported to this office involving a loss of \$5,991,242. The property involved in these fires was valued at \$22,916,172. Of the loss thus reported, property to the value of 4,241,546 was covered by insurance, leaving an excess of loss over insurance amounting to \$1,749,696, and involving 1,487 properties. Included in this excess are 554 properties involving a loss of \$296,568 upon which no insurance was carried.

The total fire loss of 1916 was less than that of 1915 by \$15,672, and less by \$301,403 than that of 1913 which year experienced the largest loss since the establishment of the office.

The average daily fire loss of the year amounted to \$16,369 and the average loss in each fire was \$1,340.

The per capita fire loss in the state of Iowa during 1916 was \$2.54. During the year six fires occurred in each of which the loss exceeded \$100,000 and two in each of which the loss was more than \$90,000 as follows:

| January | 11, Ottumwa | | 200 | 20 | * | 48 | | ¥G2 | | | | 10 | 19/ | N. | | | | | | | | | | | \$ | 246,977 |
|-----------|----------------|------|---------|-----|----|------|------|-----|---|-------|-----|----|-----|-------|-----|---|----|-----|------|-----|---|----|----|-----|----|---------|
| January | 15, Muscatin | e | | 136 | | (2) | (4) | 20 | 8 | | 90 | 74 | -63 | 10 | 13 | 8 | | | | | | 7 | | +) | | 98,050 |
| February | 10, Dubuqu | 0 | ** | 14 | 90 | 09.9 | (4) | | 5 | | 4.4 | | 069 | ŧ (a) | 40 | ò | 04 | 6.5 | | 6.6 | ų | | | 6 | | 349,561 |
| April 21, | Iowa City | | *)* | | | e(6) | 100 | 838 | ٠ | | | 80 | | í, | 69 | | | 90 | . 16 | 0 | × | 60 | | 0.) | | 103,345 |
| July 15, | Newhall | | | | ., | | | | | ø | | * | 001 | , , | 8.8 | | | ., | | | | | | | 6 | 90,050 |
| December | 8, Cedar Ra | pids | | c. | | | e se | ×× | A | e (c) | | | - | | | | | | | | | | -4 | | | 160,345 |
| December | r 15, Creston. | | A (6) | | ., | - 10 | | 8.4 | | b. 0 | | | | | | | | | e e | | | | | | | 146,900 |
| December | 15, Oskaloor | a | ** | | | | | | | | 5.0 | | | | | | | | | | | | | | | 105,495 |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Tinted. | | | | | | | | | | | | | | | | | | | | | | | | | | 200 799 |

The loss sustained in these eight fires exceeds 21.7 per cent of the total fire loss of the state.

The number of dwellings burned was 2,222, and the loss on buildings was \$859,892 and on contents \$348,243.

The sound value of these dwellings was reported at \$4,670,640 and that of their contents at \$1,115,964.

The number of barns burned was 578, and the loss on buildings was \$478,380, and on the contents \$324,142.

The sound value of the barns was reported at \$543,358, and that of their contents at \$363,839.

The number of stores burned was 367, and the loss on buildings was \$374,584, and on the contents \$1,118,566.

The sound value of the store buildings was reported at \$2,212,145, and that of their contents at \$2,859.565.

The number of factories burned was 48, and the loss on buildings was \$115,661, and on the contents \$419,672.

The sound value of the factory buildings damaged was reported at \$711,700, and that of their contents at \$1,475,750.

Ninety-five (95) deaths were reported as the direct result of fire; this number was 11 less than that reported for 1915. Of this number 43 were women and 23 children. In 47 cases fatal to life gasline or coal oil was involved. Twelve (12) children were fatally burned as the result of playing with matches or fire or being in close proximity to a bonfire.

Inspections of buildings and premises to the number of 612 were made in 137 different cities and towns in the state, upon the basis of which there were issued 113 orders to remove buildings, 62 to repair buildings, 126 to change, 53 to clean-up and repair, and 157 to clean up inflammable conditions.

Two hundred twenty-three (223) suspicious fires were investigated in 120 different places in 65 different counties of the state.

In addition to the number of indictments pending from previous years, mention of which was made in my last report, 35 arrests and prosecutions were had during 1916. Of the eases that came to trial 4 resulted in convictions and sentences to the pententiary or reformatory, 1 was paroled by the court after a pla of guilty, 2 sentenced to the industrial school for boys, 2 sentenced to the hospitals for the insane, 1 sentenced to the hospital for insbriates, 1 to the institution for feeble minded children at Glenwood, 2 were tried and acquitted, 7 were fined and given jail sentences, three of which were paroled after paying fines, 5 who had made written confessions to setting fire were paroled by the court, 7 indictments are still pending, and 3 are under arrest awaiting final action by the grand jury.

Appended hereto as a part of this report are five tables which set out in detail the reports of the fires and the work of inspection and investigation done by this office.

Table I shows the number of fires reported by counties, the value of the buildings and contents involved, the damage to buildings and contents, the total insurance on buildings and contents, the amber of fires partially covered by insurance, the amount of excess of loss over insurance, the number of fires affecting property without any insurance and the total loss upon property not covered by insurance.

Table II shows the nature and character of the buildings destroyed or damaged, the value of each, the amount of damage thereto, the value of the contents of each and the damage thereto, the kind of material of which each was constructed and whether the loss was total or partial.

Table 111 contains a summary of the origin and cause of the various fires reported, the number of each and the damage to the buildings and contents, specified by causes.

Table IV contains a list of the cities and towns in which inspections of dilapidated buildings and inflammable conditions were made, the number of places inspected at each point and the number and kind of orders issued, based upon such inspections.

Table V gives a list of the places at which investigations of fires of suspicious origin were made and the date when such investigations were commenced.

STATISTICAL WORK

The present report contains statistical information more nearly complete than any of its predecessors. It is no small task to keep in touch with and secure reports of fires from more than 2,500 different reporting officials. While some fires which occurred still remain unreported, this number is so small and the fires of such comparative insignificance that they would not materially change the total.

Until the establishment of the state fire marshal's office and the provision for the collection and publication of certain data pertaining to fire losses by that department, there had been no office or other agency in this state concerned in securing this information except the insurance companies and associations, and the fire data reported by them to the various departments consisted only of three items, to wit: risks written and carried, premiums received, and losses incurred and paid.

No account was or could be taken by them of the losses which were either partially or wholly without insurance.

When we consider that about twenty-five (25%) per cent of the total annual fire loss in this state is not covered by insurance, we at once conclude that the only complete and accurate statistical information relative to these matters is obtained by the fire marshal.

Furthermore, the reports received by the fire marshal as to values and loss or damage are invariably the result of the combined judgment of the owner and the local fire chief, mayor, or township clerk who investigates the fire and makes the report to the fire marshal.

In addition to the loss and damage reported, our reports cover the material of which the destroyed or damaged buildings are made, the damage to buildings and contents set out separately, also the nature of the occupancies of the various buildings destroyed or damaged. Furthermore, the cause of each fire so far as the same is ascertainable according to the best judgment of the inspector and the owner is set out.

While old line level premium life insurance has been reduced to an exact science, because premiums are based upon certain mortality tables formulated as the result of observation and experience covering many years, fire insurance has been largely a game of chance.

This condition ought to be remedied, but it never will be until the various hazards are more fully understood and more accurately and scientifically calculated than they are at the present time, and the very basis of this calculation is the gathering of the fire data which the law places upon this department. This is new and original research and one that no other department in the state is charged with pursuing.

EDUCATIONAL WORK.

The law requires teachers in all schools occupying buildings of more than one story in height to have fire drills at least once a month, and the teachers in all public schools are also required to give instruction to their pupils in the causes and dangers of fires as often as once each term.

The duty of preparing and furnishing a bulletin outlining lessons upon fire causes and fire dangers for the use of the teachers has been discharged by me to the best of my ability. Three editions of this bulletin have been prepared and published in sufficient numbers to supply every teacher.

During the past year as well as during previous years I have urged upon county and eity superintendents the importance of this subject. I have, however, no means of definitely ascertaining how faithfully and well the law is carried out in this respect. Complaints have not infrequently reached me during the year that fire

drills are neglected and that the giving of instruction in fire causes and fire dangers in our public schools are wholly ignored.

While I have reason to believe that the provision for fire drills is fairly well carried out, I fear that in too many schools there is little or no attention paid to the subjects outlined in the bulletin and required by the law.

In a previous report I recommended that provision be made in the reports of school officers to county superintendents, and by those officials to the superintendent of public instruction, for a statement as to whether or not this as well as every other legal requirement is complied with.

The requirement for the giving of instruction in fire causes and fire dangers is not burdensome. It is in line with the "Greater Care" or "Safety First" movement now sweeping the country. It is instruction of an eminently practical nature and should not be neglected. I have faith in the efficiency of our public schools and in the enduring effects of sound common sense lessons early inculeated in the minds of the children and youth who attend the same, and it is my purpose to continue to urge this work upon the attention of superintendents and teachers; and, when I find willful or persistent neglect in complying with the legal requirements, to invoke the statutory penalty.

FARM FIRE PROTECTION.

By far the larger part of the wealth of our state is found upon our farms. Not only are the farm buildings annually improving in appearance but their contents now possess a value that seemed fabulous a few years ago. The destruction of a modern farm barn with its precious contents is no longer a matter involving hundreds but thousand of dollars.

From the very nature of his location, the farmer cannot enjoy the fire protection either to his home or to his out buildings that is afforded to his neighbor in the city or town where they have an organized fire department, and for these reasons a rigid observance of the principles and rules of Fire Prevention is his only safety. Many of these principles are well known but will nevertheless bear repetition:

- Extra care in the building of the chimneys as well as in the placing of the furnace or other heating plants and the frequent inspection of both.
- (2) Avoid patent lighting systems unless the generator and supply tank are located outside the house.

- (3) Never keep gasoline in the house or barn, and keep the automobile in a building by itself.
- (4) A good lightning rod well grounded is a reasonably safe device against lightning, and if possible every barn should be supplied with one.
- (5) Hanging lanterns, smoking or scattering matches in barns have caused many fires. Such practices should be absolutely prohibited.
- (6) Hay should not be packed into barns until well cured and then ventilation should always be provided.
- (7) NEVER under any circumstances should fire be kindled with the aid of kerosene or gasoline.
- (8) If possible, provide your house and barn with chemical fire extinguishers.
- (9) Impress upon your renter and hired help the importance of observing these safety rules.
- (10) Insurance associations, granges, rural community congresses, women's clubs, commercial clubs, and the teachers in our public schools should advocate and inculcate these principles.

SPECIAL LIGHTING SYSTEMS.

In my third annual report to the Governor, I called attention to some special devices for generating illuminating gases which were being placed upon the market in many portions of our state.

As a rule they are sold by agents or solicitors who are either ignorant of their possible danger or purposely conceal the same

I suggested then to all who might contemplate the installation of special lighting systems that they thoroughly investigate the safety a swell as the serviceability of the proposed system. I urged that the generator as well as the material of which the gas is made be kept outside the buildings lighted.

In my fourth and fifth annual reports I recommended a law for the inspection of gasoline and carbide lighting systems. Since then and during the latter portion of the year 1916, two tragedies have occurred in one neighborhood in Audubon County as the result of the explosion of carbide lighting systems:

In the first explosion, one death resulted and another party injured. In the second explosion, five deaths resulted and twelve others were seriously injured.

An explosion in a similar plant occurred in Des Moines County resulting in the death of one person, and another in Hardin County of a carbide gas tank resulting in the death of one.

An explosion also occurred in a like plant near Glidden, Carroll County, about the same time the Audubon County explosions occurred, but fortunately no lives were lost.

It is high time some legislation was enacted providing for the safety of life by designating some supervisory power over such devices.

FIRE PROTECTION.

As a rule there has been the most cordial cooperation between this department and the various Fire Protection agencies of the state. Much improvement has been made along the line of securing better apparatus, especially in motorizing many of the fire departments. Many of the smaller towns have also voted bonds to install water works and equip fire departments.

In all of the matters which go toward making for efficiency in the fire-fighting force, we have endeavored to be helpful but not to supersede the fire chief in the work of Fire Protection which is properly his.

There is still needed, especially in the smaller cities and towns where volunteer departments are maintained, a better system of giving fire alarms, more frequent drills of the men who constitute the various departments, and the frequent testing of hydrants.

The modern fire chief realizes as never before that he must be an advocate of Fire Prevention as well as the leader in Fire Protection, and to this end he favors the most thorough inspection possible, especially of the business portion of his city or town, and the removal or remedying of those conditions which constitute special fire hazards.

FIRE PREVENTION.

At the present time the state fire marshal's office is the only agency in the state which is devoted wholly and solely to the work of Fire Prevention.

In our complex civilization and as a necessary part of our social progress, the agencies which cause fires are continually multiplying. Each of the more than 200,000 licensed automobiles in this state with their attendant gasoline supply is a fire producing factor which was unknown a few years ago. The general introduction and use of electricity not only as a mode of lighting but of heat and power is another agency which has largely increased the fire hazard.

Notwithstanding this and notwithstanding the fact that the per cent of increase in property values subject to destruction by fire from 1913 to 1917 amounts to at least 20 per cent, there has been no increase in fire destruction, but rather an actual decrease from 1913 to 1916, inclusive, of \$301.000 or a reduction of 4.7 per cent.

During the same period the average cost of insurance, according to the report of the commissioner of insurance of the state, has been reduced from \$11.67 a thousand in 1912 to \$9.87 a thousand in 1915

However, the work of Fire Prevention education has only begun. The actuarial bureau of the National Board of Fire Underwriten has made a careful analysis of the fire causes in Iowa and their relative loss for the year 1915. As their figures are not only valuable but highly instructive they are submitted herewith:

| | r Cent |
|------------------------|--------|
| Chimneys and flues | 5.4 |
| Fireworks | 0,1 |
| Gas | 3.8 |
| Ashes and coals | 0.2 |
| Matches | 1.5 |
| Open fires | 0.1 |
| Open lights | 0,5 |
| Petroleum, etc | 1.7 |
| Rubbiah, etc | 0.9 |
| Smoking | 1,2 |
| Steam pipes, etc | 1.0 |
| Stoves, etc | 8,2 |
| Total | 6.5 |
| Electricity | 8.1. |
| Explosions | LI |
| Exposure | 1.5 |
| Incendiarism | 1.2 |
| Lightning | 7.8 |
| Miscellaneous | 4.3 |
| Charles From fires | 4.1 |
| Casels From machinery | 157.00 |
| Spontaneous combustion | 140 |
| Total | 15.2 |
| Unknown | 10/8 |

From the foregoing it will be seen that 26.5% of the fire loss is strictly preventable, and that 45-2% is partially preventable, making a total of 71.7% which is wholly or partially preventable by the exercise of proper care.

The inspection of buildings and fire hazardous conditions therein and the resultant orders issued by this department (set out in the beginning of this report) represent only a small fraction of the work that the department has set in motion.

In many of the larger cities they have local fire marshals or fire inspectors working in harmony with this office whose duty it is to inspect buildings and building conditions. Not only this, but in an increasing number of the smaller cities and towns, acting upon the suggestion or recommendation from this office local inspections have been started either under the direction of the fire department or by some thereunto specially designated individual.

In addition to our inspection of buildings, we frequently inspect fire departments and fire apparatus, and we have tried to be helpful in securing better fire protection and more efficient attention to the care of the fire apparatus and in many places better water pressure. In all of these matters we have invariably had the cooperation of fire chiefs and others interested in Fire Protection.

I have also given much attention to the securing of better building ordinances in cities and incorporated towns and to the better enforcement of the ordinances already in effect. This is the first step and the most important step in reducing the fire waste.

ARRESTS AND PROSECUTIONS

WEBSTER TOWNSHIP, HAMILTON COUNTY,

On July 3, 1915, a fire took place which destroyed a dwelling and contents belonging to John T. Baker. After a thorough investigation by this department one Ol Bricker was indicted at the February term, 1916, on a charge of arson and for breaking and entering for the purpose of committing larceny. At the May term, 1916, Bricker was tried and convicted on the charge of breaking and entering. The case was appealed to the supreme court who reversed the judgment on the ground of insufficient evidence.

FLORIS, DAVIS COUNTY.

On November 27, 1915, about 3:30 A. M., a fire occurred which destroyed the residence occupied by R. L. Wilson. After an investigation by this department, Wilson was indicted by the grand jury on a charge of setting fire to injure the insurer. Wilson was tried at the May term, 1916, which resulted in a verdict for the defendant.

DES MOINES, POLK COUNTY.

On December 16, 1915, about 7 P. M., a fire broke out in the generators of Harry Mitchnick. After an investigation by this department of the first high properties of the properties of the first highest term, 1916, charged with trial hasting several day. The jury was out twenty-four hours and disagreed. The case was accepted for trial at the December term, 1916, at which time the defendance withdrew his plea of not guilty and entered a plea of guilty of setting the fire with intent to burn and was fined \$200.00 and sentenced to six months in jail. On the payment of the fine the defendant was paroled to Ma. Weinstock.

JEFFERSON, GREENE COUNTY.

On December 28, 1915, about 2 A. M., a fire broke out which destroys a furniture store belonging to Ross Potter. After a thorough investigation made by this department, Potter made a confession on February 1916, that he set the fire himself for the purpose of collecting the mance money. On April 3, 1916, Potter entered a plea of guilty and we sentenced to the Anamosa Reformatory for a period of not to exceed to years.

UNION TOWNSHIP, BLACK HAWK COUNTY.

On January 14, 1916, about 10 A. M., a fire occurred which destroys the house occupied by W. H. Angell. After an investigation by this a partment Angell made a written confession on January 18, 1916, that is set the fire himself for the purpose of collecting the insurance money to May 25, 1916, Angell entered a plea of guilty in open court and was settenced to thirty years in the penitentiary, after which an order of cau was made withholding commitment for thirty days in order that an application could be made to the board of parole for elemency. Os the showing made, the defendant was paroled under certain conditions.

LENOX, TAYLOR COUNTY.

On Pebruary 6, 1916, about 8 P. M., a fire broke out destroying a lare barn and contents owned and occupied by A. L. Page. A thorough a vestigation disclosed the fact that Mrs. A. L. Page had hired one Pe Hewitt to burn the barn for a consideration of \$100.00. Hewitt then burn one Hal Johnson to help set the fire. At the March term, 1916, indiments were returned against all three of the parties and on March 1916, Mrs. A. L. Page entered a plea of guilty to the charge of proceries the burning and was fixed \$1000 and sentenced to one year in jail, its jail sentence being suspended during good behavior. At the same the Dee Hewitt entered a plea of guilty to the charge of setting the fire is was fixed \$750 and sentenced to one year in jail, the jail sentence being suspended during good behavior. Hal Johnson also entered a plea of guilty and was paroled during good behavior.

NEW HAMPTON, CHICKASAW COUNTY.

On February 20, 1916, a fire broke out in an opera house building. After an investigation by this department and the local officers Mrs. Catherine Nugent, aged 65 years, and her grandson, Al. Winters, aged 15 years, made confessions to the local officers that they set the fire to cover up the larcenty of certain goods that were in storage in the building, and on March 13, 1916, both Mrs. Nugent and Al. Winters entered a plea of guilty and were each sentenced to the reformatory at Anamosa for a period of five years. Later the sentence was changed and Mrs. Nugent was sent to jail for six months and Winters was sent to the reformatory until he should attain his majority.

CENTER TOWNSHIP, WAPELLO COUNTY,

On the night of March 30, 1916, a fire occurred which destroyed the house and contents owned and occupied by Abraham Hatchett. After an investigation by this department Hatchett was indicted at the April term, 1916, and tried May 19, 1916, which trial resulted in a verdict for the defendant.

SPRING VALLEY TOWNSHIP, DALLAS COUNTY.

On the night of April 26, 1915, a fire occurred which destroyed a barn and contents owned and occupied by Thomas Scott. An early investigation by this department disclosed the fact that of the nine head of horses in the barn at the time of the fire only the carcasses of seven remained and two were missing. During the investigation by this department and the local officers one Lee Lair was arrested on a charge of having stolen the two missing horses and setting the fire to cover up his crime. Lair entered a plea of guilty to stealing the horses and was sentenced to the Anamosa reformatory for a term of ten years.

CLINTON TOWNSHIP, WAYNE COUNTY.

One of the most far reaching cases of conspiracy to defraud brought to the attention of the department since its creation was unearthed in the above named location. The investigation disclosed the fact that persons under various aliases and operating in various locations since 1969 up to June, 1916, had frequently secured from insurance companies large sums of money by means of fraudulent claims on alleged livestock losses.

Their plan of operation was to locate in some out-of-the-way place and let it be known that they expected to buy a ranch and engage in the horse business. Soon after locating, they would purchase some good horses, take out insurance on several head with a \$150 clause on each; a few days after the first electrical storm in the neighborhood several horses were reported to have been killed by lightning; the horses would be found under a tree to which had been nailed a wire fence; the tree would have a quantity of bark scratched therefrom making it have the appearance of baving been struck by lightning. After the animals had lain a few days, neighbors would be called in to appraise their value. By that time

the horses were bloated and otherwise in such a condition that it impossible to make a close examination but upon representation by the assured, appraisement notices were prepared and readily signed, abs which they were sent to the insurance company who paid the losses.

The dead horses were usually old, discarded plugs that had been by to the slaughter and killed in the place of the good horses that were he sured.

After the money had been collected, the parties would change location as well as name, go through the same process in the new locality until they were closed in on by this department. This occurred after they had filed a claim for \$600 on account of four horses that were supposed in have been killed by lightning in June, 1916.

During the investigation, photographs were taken of the tree supposed to have been struck by lightning, the jaws and feet of the horses were removed, the services of an expert veterinary surgeon were called in who testified that the horses ranged from 15 to 30 years, or past the guessian age, instead of being horses 5 or 6 years of age as claimed by the same.

At the close of the investigation which extended over weeks, we called the attention of Hon. Claude R. Porter. U. S. district attorney for the Southern district of Iowa, to the evidence and an information was filed in the Federal court for conspiracy to use the mails for the purpose of defrauding an insurance company.

As a result of this action Grant Napier alias J. D. Lewis, Mrs. Grat Napier alias Lilly Lewis, Anna Napier alias Ann Morgan and Osca Napier alias O. K. Wilson were indicted by the federal grand jury,

Mrs. Lilly Napier alias Lilly Lewis was apprehended by the goverment officials, entered a plea of guilty and was sentenced to the Federa penitentiary in Kansas for a term of two years. The others mentions are fugitives from justice and have not as yet been apprehended.

In this particular case we feel that the department has been instrmental in breaking up the operations of one of the most dangerous gang in the Middle West.

HEDRICK, KEOKUK COUNTY.

On June 5, 1916, about one A. M., a fire broke out in the garage of E. O. Thorne. Investigation was made by this department and the lost officers which resulted in the arrest of one John Shaffer. At the priminary hearing Shaffer was held to the grand jury. Shaffer was held to the grand jury. Shaffer was helded on a charge of breaking and entering, also for arson. Previous to this fire Shaffer had been arrested and charged with breaking and entering the same garage. On this charge he was tried at the Octobe term, 1916, and was convicted and sentenced to Anamosa for a period of ten years. The two indictments for the alleged crime committed on Jose 5, 1916, are still pending.

DES MOINES, POLK COUNTY.

On June 9, 1916, a fire occurred in a residence at 31st and Center Strett Soon after the fire George Jackson, 15 years old, made a confession b City Detective McDonald that he, Jackson, set the fire. On June 24, 1916, young Jackson was sent to the industrial school for boys at Eldora.

SIOUX CITY, WOODBURY COUNTY

On the night of July 3, 1916, a fire broke out in the grocery store of Sam Manfito. After an investigation, Manfito was arrested charged with setting the fire and was held to the grand jury. This case is still pending.

SANBORN, O'BRIEN COUNTY

During the months of July, August and September, 1916, a series of 16 fires occurred in Sanborn which aroused great concern, so that this department was appealed to for help. After a thorough investigation Ralph Benham, Donald Irving, Dick Hoffman, Louis Bernier and John Falkenkamp, boys ranging in ages from 7 to 13 years, made written confessions to a representative of this office to the effect that they set the fires in question, information was filed against the boys and they were held to appear before the judge of the juvenile court at the November term at which time they were paroled. No suspicious fires have since been reported from that locality.

EAGLE GROVE, WRIGHT COUNTY

In July and August. 1916, a series of fires occurred in the business district of Eagle Grove. An investigation was being made by a representative of this office in connection with the local officers which resulted in a written confession being made by Rue Codner to the chief of police at Eagle Grove to the effect that he, Codner, set the fires. On October 2, 1916, Codner was indicted and entered a plea of guilty and was fined \$300 and sentenced to four months in Jail. One of the peculiar circumstances in connection with this case is that Codner was a member of the fire company at the time the fires were set.

VILLISCA, MONTGOMERY COUNTY.

On August 13, 1916, about 9:15 P. M., a fire occurred which destroyed a dwelling house and contents owned and occupied by Alva Patton. After an investigation by this department. Patton made a written confession that he set the fire for the purpose of collecting the insurance. Patton was indicted and entered a plea of guilty and was fined \$150 and sentenced to jall for a period of six months.

CEDAR RAPIDS, LINN COUNTY.

During the month of August, 1916, a series of 15 fires occurred at Cedar Rapids which proved to be the work of a boy named Clarence Wiese, who in 1914 was sent to Eldora on a charge of arson and who at the time these fires occurred was out on parole. After the fires of August, 1916, Wiese was sent to the institution for feeble minded children at Glenwood.

MAHASKA COUNTY.

During the months of August and September, 1916, a series of barn fires occurred in Mahaska, Keokuk and Washington counties. A thorough investigation was being made by this department and on October 14, 1914 one Jesse Montgomery of White Oak township, Mahaska county, was a raigned before the commissioners of insanity of Mahaska county, who a October 16, 1916, committed him to the insane hospital at Mr. Piesses Montgomery had been mentally deranged for several years and there we some very strong circumstances which tended to show that Montgomery was responsible for some of these fires. In any event no suspicions has have been reported from that neighborhood since his detention.

KEOKUK, LEE COUNTY,

On September 6, 1916, about 12:39 A. M., a fire occurred which paradestroyed the dwelling house and contents occupied by H. DeWayse Smith. After an investigation by a representative of this office Smith wa arrested and arraigned before the Superior Court but was released on the ground of insufficient evidence.

SIOUX CITY, WOODBURY COUNTY.

On the night of October 2, 1916, a fire occurred in a motion picture shest operated by J. Waters and George Ammerman which resulted in the area of both Waters and Ammerman for setting the fire. Both Waters and Ammerman are under indictment.

PERRY, DALLAS COUNTY.

On October 13, 1916, about one A. M., a fire destroyed a bara occupied by Mrs. A. Woodard. An investigation was made by a representative of this department, who took the statement of one Athert Little, who admitted that he had been prowling around these premises in the middle of usinght and was also under the influence of liquor. Previously Little had been committed to the hospital for inebriates at Knoxville on a please guilty of having set fires to barns in Perry, and at the time of the form in question Little was out on parole. At the close of this investigate Little was returned to the hospital for inebriates for the remainder of in term, which will expire July 23, 1917.

CASS TOWNSHIP, HARRISON COUNTY.

During the fall of 1916 a series of barn fires occurred in the vicinity of Persia. The farmers organized and guarded their property and their vicinities are resulted in the arrest of John Coffman, 23 years old, who confess to the local officers to the setting of part of the fires in question. Of man was adjudged insane and committed to the insane hospital at On rinda November 1, 1916.

DIAMOND LAKE TOWNSHIP, DICKINSON COUNTY.

On December 18, 1916, about one A. M., a fire occurred in the resident of one Ld. Dierks which entirely destroyed the building and contents. It first Dierks claimed that when he arrived home that night someone she him in the arm. Dierks then went to the neighbors and called the date. claiming that previous to the fire he had received blackhand letters demanding money. The sheriff of Dickinson county became suspicious and very active as a result of which a confession was made by Dierks on January 1, 1917, that he had shot himself in the arm after having set the house on fire by the use of herosene which he had poured over some old clothes. On January 2, 1917, Dierks pleaded guilty to a charge of setting fire with intent to burn and was fined \$500 and sentenced to one day in jall. Dierks also signed a wafver on \$5,000 insurance on building and contents.

Not only were more convictions secured in 1916 than in any previous year, but the percentage of such convictions, based upon the prosecutions instituted, was much greater than during any similar period since the creation of the department.

Much of this result was due to the experience and skill of my deputy and assistants in gathering evidence and securing confessions from many of the guilty parties.

STATISTICAL INFORMATION-TABLE 1

The footings of this table have been briefly set out in the introductory portion of this report. By months the fire losses and the number of fires reported to this office for the year 1916 were as follows:

| Month, | No. of Fires. | Loss |
|-----------|---------------|-------------|
| January | 435 | \$ 918,269 |
| February | 463 | 852,341 |
| March | | 403,458 |
| April | | 375,954 |
| May | 268 | 276,580 |
| June | . 182 | 238,221 |
| July | . 326 | 383,105 |
| August | . 345 | 384,171 |
| September | 255 | 540,282 |
| October | . 209 | 267,503 |
| November | 228 | |
| December | 622 | 368,030 |
| | . 0.00 | 983,328 |
| Total | 4,471 | \$5,991,242 |

The large fire loss for the month of January is accounted for by the two fires which occurred at Ottumwa and Muscatine involving losses aggregating \$345,027.

The large fire loss during the month of February is accounted for by a fire at Dubuque which destroyed property to the value of \$349,561.

STATE FIRE MARSHAL

The excessive fire loss during the month of December is accounted for by three fires occurring in Cedar Rapids, Creston and Oskaloosa in which there was an aggregate loss of \$412,740.

The total loss sustained during the months of January, February and December amounted to almost 46% of the entire fire loss of the state.

TABLE IL

This table contains a list of the kinds of structures destroyed or damaged, the value of the buildings, the damage thereto, the value of the contents, the damage thereto, and the character of the buildings destroyed or damaged.

Classified by use, the ten highest classes of property affected by fires come in the following order:

| Kind of Structure. Number. | Loss. |
|------------------------------|-------------|
| Dwellings | \$1,208,135 |
| Barns 578 | 802,522 |
| Stores 367 | 1,493,150 |
| Shops 101 | 100,038 |
| Sheds 93 | 9,821 |
| Garages | 128,082 |
| Offices and office buildings | 207,300 |
| Restaurants and cafes 67 | 73,184 |
| Automobiles | 15,551 |
| Schoolhouses 52 | 85,095 |
| Total | \$4,122,878 |

Comparing some of the figures in the above table with those pertaining to the same classes of property set out in the report for the year 1915, we note the following:

There was an increase of 411 in the number of dwellings destroyed or damaged and the aggregate loss is \$184,733 greater than in 1915.

The number of barns destroyed or damaged was 83 greater, and the damage thereto \$222,732 greater than 1915.

The increase in the number of fires affecting dwellings and barns and also in the increased damage thereto is largely accounted for by the fact that while the summer of 1915 was quite wet that of a great portion of 1916 was dry.

There was a most encouraging reduction in the damage resulting from store fires as compared with that of 1915. While there was an increase of 9 in the number of store fires reported, the damage to buildings and contents during the last year was \$495,-604 less than in 1915.

While there was an increase of 9 in the number of schoolhouses destroyed or damaged, there was a decrease of \$12,754 in the amount of damage to buildings and contents.

There was also an increase of 21 in the number of churches destroyed or damaged, and an increase in the damage to buildings and contents of this character amounting to \$63,774.

One of the causes which contributes to church and schoolhouse fires is the indifferent and sometimes poor janitor service which too often prevails in these buildings. An added danger to the larger school buildings is the general introduction of domestic science and industrial training. These added dangers should be earefully safeguarded against.

TABLE III.

This table contains a summary of the causes of the fires reported, the number of properties destroyed or damaged from each cause, and the amount of damage to the buildings and contents. Classified in their order by number, the ten highest classes are as follows:

| Cause. | Number. | Loss. |
|------------------------------------|---------|-------------|
| Unknown | 901 | \$2,456,260 |
| Sparks from flue | 824 | 233,696 |
| Adjoining fires | 435 | 913,869 |
| Defective flues | . 348 | 345,801 |
| Lightning | 177 | 290,294 |
| Spontaneous combustion | . 153 | 209,153 |
| Incendiary and probably incendiary | 132 | 247,263 |
| Children and matches | 97 | 24,156 |
| Smoker's carelessness | 75 | 34,718 |
| Match carelessness | . 71 | 21,853 |
| Total | 2.014 | \$4,777,063 |

RECOMMENDATIONS.

Based upon experience during my incumbency of the present office in dealing with fire hazardons conditions, I would most respectfully urge the need of legislation along the following lines:

 Provision for the inspection both state and local of electric wiring. This is made necessary by reason of the constantly increasing use of electricity not only for light but for heat and power and the increasing losses resulting from defective electric wiring.

- 2. The almost universal use of gasoline and the consequent menace both to property and to life resulting from such use necessitates the enactment of a gasoline storage law, or a law making it mandatory upon municipalities to make provision by ordinance for such storage.
- Standardization of chimneys, flues and roofs in cities and towns, and providing that no shingle roofs be permitted hereafter upon buildings in cities of a certain class.

The old fashioned shingle roof is not only a constant fire mensee but experience has shown that it is a most potent force in promoting conflagrations of which there were several in the United States during the past year.

- A law regulating moving picture shows, specifying the construction of the booth, the number of exits, width of aisles, seating, etc.
- Provision for the inspection of gasoline and carbide lighting systems.
- 6. Inasmuch as fully 90% of the fire alarms in all cities and towns are given by telephone, there is need of a law prescribing the duties and responsibility of telephone companies and operators in the matter of receiving and promptly turning in fire alarms.
- 7. I renew the recommendation made in my Fourth Annual Report that there is need of a law prohibiting the leasing of a building for human occupancy unless it measures up to a certain standard both as respects sanitation and safety from fire.

Our inspection work has afforded us opportunities to see much of the life of the poor in our cities and towns. While it might be a hardship to compel a man who owns the modest cabin or shack he occupies to give up its use, there is no excuse for permitting the well-to-do landlord to lease a building to others unless the same is reasonably fit for human habitation.

CONCLUSION.

The problems that press for solution in our state and nation are social and economic rather than political.

The need of the administrative arm of our government is efficiency, and the highest efficiency is attained only through specialization.

We are spending hundreds of millions in preparing for a possible foe three thousand miles away. Should we begrudge a few thousand to fight the "Red Plague" which by day and by night is threatening the property and the lives of our people?

I desire to acknowledge the hearty co-operation and support accorded the office by chiefs of fire departments and others with whom we have come into official relationship.

The fire marshal law is not a failure. The fact that notwithstanding the introduction of many fire producing agencies into our mode of living, there has been an actual reduction in Iowa's fire loss during the past four years while during the same period the aggregate fire loss of the country has increased gives me encouragement and hope for the future.

TABLE NO. I.

Showing Number of Fires Reported by Counties and Cities of More Than 10,000, Value of Buildings and Contents Involved. Damage to Buildings and Contents, Total Insurance on Buildings and Contents, Number of Fires Partially Covered by Insurance, Amount of Excess of Loss Over Insurance, Number of Fires Affecting Property Without Any Insurance and Total Loss Upon Property Not Covered by Insurance.

| Counties and Cities of 10,000 and Over | No. of thes | Value of buildings and contents | Damage to buildings and contents | | Total insurance on buildings and contents | No. of fires partially covered by insurance | Excess of loss over insurance | No. of fire nithout | Line |
|--|-------------|------------------------------------|-------------------------------------|-----|--|--|----------------------------------|---------------------|-----------|
| | | | | 1. | | | | 1 | - |
| Adair | | \$ 125,020 | \$ 26,511 | * | 89,700 | | 8 9,80 | | \$ 1,00 |
| Adams | 21 | 30,630 | 18,367 | 111 | 39,000 | 10 | 4,05 | | 25 |
| Allamakee | 17 | 33,985 | 17,473 | | 18,025 | 7 | 8,76 | | 1,100 |
| Appanoose | 95 | 264,811 | 78,782 | | 170,544 | 33 | 16,84 | | 7,70 |
| Audubon | 11 | 21,630 | 10,413 | | 18,175 | . 4 | 2,60 | | 75 |
| Benton | 60 | 195,625 | 102,764 | | 90,944 | .31 | 563,236 | 3.0 | 171,900 |
| Black Hawk- | | 100 | | | - | 4.00 | 200 | A G | |
| Waterioo | 80 | 335,981 | 47,500 | | 354,928 | .16 | 7,00 | 8 | 167 |
| Bal. Black Hawk | - | | | | - | | 1000 1000 | | |
| Co. comments | 39 | 120,120 | 60,791 | | 81,308 | 20 | 11,61 | | 1,00 |
| Boone Boone | 34 | 138,795 | 11,605 | | 85,850 | 2 | 1,74 | | 1,401 |
| Bal. Boone Co. | .23 | 40,780 | 15,222 | | 21,574 | 11 | 6,84 | | 35 |
| Bremer | 26 | 226,631 | 36,479 | | 140,050 | 10 | 10,10 | | Service . |
| Buchanan | 16 | 29,063 | 18,993 | | 15,860 | .8 | 7,51 | \$0 H | 35 |
| Buena Vista | 24 | 77,380 | 35,478 | | 37,510 | 12 | 17,589 | | 5,50 |
| Butler | 20 | 45,260 | 25,303 | | 29,008 | 13 | 10,02 | 7 2 | (3)2 |
| Calhoun | 31 | 144,900 | 57,740 | | 84,200 | 14 | 18,07 | | |
| Carroll | 26 | 172,190 | 69,916 | | 103,802 | 14 | 17,96 | 1 | 1,40 |
| Cass | 295 | 108,985 | 54,321 | | 47,306 | 18 | 31,96 | | .10 |
| Cedar | 19 | 49,618 | 29,100 | | 20,770 | 10 | 10,34 | 2 2 | 200 |
| Cerro Gordo- | | | - | | | | - | | |
| Mason Oity | 47 | 265,210 | 37,018 | | 168,823 | 7 | 25,04 | 11 | F13 |
| Bal. Cerro Gordo | | 20020 | 277,775 | | 120000 | 150 | 7.000 | 14 73 | |
| Co | 16 | 41,990 | 96,538 | | ALEE, IN | 11 | 6.18 | 1 3 | 200 |
| Cherokee | 254 | 90,890 | 66,320 | | 50,600 | 36 | 26,74 | | 3,900 |
| Chickneaw | 14 | 75,590 | 17,120 | | 55,831 | 7 | 6,66 | | 95) |
| Clarke | 19 | 80,237 | 46,300 | | 35,787 | 79 | 18,43 | | 35 |
| Clay | 20 | 214,457 | 70,616 | | 39,656 | 11 | 20,50 | | 2.20 |
| Clayton | 134 | 335,564 | 86,967 | | 80,187 | 18. | 04,97 | | 2,96 |
| Clinton Clinton | 255 | 123,450 | 28,154 | | 87,500 | | 5,47 | | 1,405 |
| Bal. Clinton Co. | 10 | 34,175 | 29,015 | | 25,600 | 7 8 | 6,50 | | T-1400 |
| Chartery | 298 | | 80,620 | | | | 123,331 | | 9,20 |
| Crawford | 228 | 112,350 | 23,355 | | 69,190 | 17 | | | 30 |
| | | 171,175 | | | 105,080 | | 6,95 | | 365 |
| Davis | 30 | 00,876 | 33,007 | | 41,068 | 19 | 12,10 | | 5,705 |
| Decatur | 45 | 116,254 | 90,218 | | 60,005 | 381 | 35,90 | | 410 |
| Delaware | 19 | 73,280 | 92,430 | 1 | 34,145 | 14 | .08,01 | 2 | 370 |
| Des Moines | | AND THE | and the last | | sink took | 1 | | | |
| Bal. Des Moines | 54 | 470,725 | 59,834 | | 333,439 | 8 | 1,35 | 1 | 2-140755 |
| Dat. Des Moines | | | 24 200 | | | | | | 15 |
| Co | 11 | 25,240 | 11,250 | | 14,875 | 8 | 4,98 | | |
| Diekinson | 15 | 190,395 | 13,519 | - | 51,000 | 8 | 4.77 | | 115 |
| Dubuque Dubuque | 70 | 796,865 | 202,815 | | 395,775 | 12 | 15,38 | | 30 |
| Bal. Dubuque Co. | 10. | 110,715 | 87,685 | | 23,850 | - 6 | 79,06 | | H-999777 |
| Emmet | 30 | 35,999 | 11,479 | | 22,008 | - 9 | 4,80 | | 155 |
| Payette | 61 | 305,705 | 99,248 | | 207,815 | 25 | 20,48 | | 4,007 |
| Flord | 29 | 100,710 | 24,078 | | 57,080 | - 18 | 9,59 | 2 6 | A.1903 |
| Franklin | 14 | 46,880 | 31.023 | - | 25,114 | 8 | 11,70 | 1 | 15 |
| Fremont | 127 | 61,316 | 40,198 | | 41,400 | 15 | 15,90 | 1 3. | 1,005 |
| Greene | 99 | 74,900 | 23,305 | 5 | 23,715 | 11 | 8,96 | 3 | 1,720 |
| Grundy | 90 | 56,675 | | 1 | 47,240 | 8 | 2,15 | | 255 |

TABLE No. 1-Continued

| | T | 1 | | | 7 | | 7 | - |
|--|-------------|------------------------------------|------------------------------------|---|--|------------------------------------|--------------------|--------------|
| Cities of Ottes of 10,000 and Over | No. of thes | Value of buildings and contents | Damuge to lendings and contents | Total insurance on buildings and content | No. of fires partially covered by insurance | Exess of lose over lostrance | No. of Hrs without | Loss |
| Guthrie | -21 27 | 37,140 | 44,220 | 21,840 | 94 | 70 000 | 1. | |
| Hamilton Hancock | 27 | 37,140 139,3% 13,925 | 33,300 | 00,00 | 10 | 13,000 | 1 | 240 |
| Hardin | 78 | | 10,170 63,930 | | 0 | 1,140 20,400 25,172 2,206 | lan. | |
| Harrison - | 44 | | 49,907 | | - 290 | 100, 400 | 0 | 8,37 |
| Henry Howard | 2.3 | 39,985 | 10,098 | 97,005 17,900 | 15 | 39,172 | 1 | 11,91 |
| Humboidt | 12 | | 10.682 | (91.:6070) | - 4 | 4,910 | | 571 30 |
| da | 7 | 12,925 17,850 | 5,975 | 10,000 | 10.00 | 7,160 | 8 | 1950 |
| lowa | 20 | 90,119 | 5,386 47,679 | 7,500 07,735 | 78 | 1,500 | 1 | 20 |
| Jarkson | 287 | 88,190 | 28,334 | 41,450 | 12 | 22,064 | - 6 | 9,370 |
| Insper | 100 | 202,730 | 76,433 | 119,030 | 27 | 10,807 | 4 5 | 2,475 |
| Johnson | 26 | 160,324 | 39,107 | 35,780 | 20 | 22,530 | 5 | 15,1900 |
| Iowa City | 54 | 379,800 | 147,970 | - | 7.00 | | | , wer person |
| Bal. Johnson Co. | 90 | 49,185 | 25,332 | 217,180 23,405 | .5 | 23,700 | | |
| fones | 22 | 111,315 | 22,845 | 196, 1850 | 146 | 10,00% 8,415 | 2 | 650 |
| Seokuk Sossuth | 38- | 90,481 | 36,238 | 35,641 | 14 | 19,825 | 7 | 3,090 |
| re-Ft. Madison | 21 | 42,987 179,221 | 28,961 32,645 | | | 27,947 | 1 5 | 8,870 |
| re Ft. Madison Keokuk | 64 | 184,076 | 16,718 | 54,950 | 5 11 2 | 17,734 | 3 | 16,655 |
| Diff. Lee Co. | 7 | 32,400 | 28,830 | 121,040 8,225 | 4 | 1,175 | 0 | 2005 |
| Cedar Rapids | | W. Sanction . | | Manne | | 21,425 | 2 | 18,650 |
| Bal. Linn Co | 191 | 1,150,403 | 264,661 | 729,200 | 28 | 67,910 | 45 | 16,900 |
| ouisa | 18 | 86,380 94,607 | 47,538 20,872 | 55,093 | 36 | 17,332 | 3 | 710 |
| OCR# minerous | 30 | 118,204 | 55,577 | 14,461 76,638 | 11 | 8,000 | -31 | 1,800 |
| FOIL | 11 | 50,500 | 24,654 | 20,510 | 15 | 13,256 | 2 | 90 |
| fadlsop | 25 | 77,425 | 14,825 | 40,325 | 10 | 5,470 | 1 | 900 |
| Oekaloosa | 39 | 300,750 | *** | 10000 | | m/ates | 1 | 20.67 |
| Bal. Mahaska Co. | 528 | 50,190 | 161,496 39,175 | 206,350 | 0 | 18,175 | 1 | 2,000 |
| larion | 389 | 125,575 | 45,025 | 29,321 75,830 | 19 | 15,534 | 1 | 4,000 |
| Marshalltown | 36 | - | | 100000 | 400 | 38,005 | 21 | 605 |
| Bul, Marshall Co. | 16 | 91,725 | 14,560 | 395,500 | 8 | 0.100 | 0 | 1,917 |
| Ille management | 23 | 31,775 | 37,160 | 46,500 | 10 | 16,718 | 1 | .90 |
| | 1.8 | 36,130 | 35,036 11,731 | 32,300 15,203 | 13 | 7,001 | 9 | 7707 |
| onena | 31 | 27,770 | 25,375 | 29,950 | 7 | 5,007 10,150 | 8 | 55 |
| | 35 | 106,750 | 87,500 | 97,870 | 20 | 24,000 | 6 | 3,910 |
| necatine | 369 | 104,406 | 24,833 | 70,830 | 15 | 7,405 | 5 | 560 |
| nscatine Muscatine | -05 | 450,060 | 197,985 | 2005,222.0 | 144 | | 204 | |
| | | No. Owner | 1441000 | 1885,2230 | 33 | 21,091 | 4 | 400 - |
| Co | 13 | 22,800 | 21,635 | 17,780 | 0 | 10,065 | 2 | 160 |
| Brien | 10. | 46,800 | 8,378 | 297,425 | 6 | 3,400 | 4 | 1.078 |
| | 36 | 280,600 | 9,305 | 5,000 | - 4 | 4,0% | 1 | 70 |
| | 31 | 75,225 | 61,437 7,580 | 151,725 | 24 | 23,180 | 2 | 105 |
| rmouth beahoptas olk Des Moines | Bt | 80,535 | 49,860 | 18,300 | 20 | 1,750 | # | 150 |
| Ok-Des Moines | 23 | 71,045 | 45,278 | 40,442 | 34 | 17,803 | 2 | 3,000 |
| Bal, Polk Co | 62 | 4,027,510 | 148,957 | 2,024,775 | 63 | 24,243 | 79 | 2,461 |
| ttawattamie | 1956 | 99,390 | 53,700 | 00,000 | 90 | 19,100 | 8 | 3,440. |
| stawattamie Comeil Bloffs Ral. Pottawat- | 398 | 1928, 228 | 64,334 | 7017 4700 | - | To a second | - | |
| fumls Cottawat- | | 1000000 | N-805795 | 311,430 | 18 | 30,238 | 10 | 1,770 |
| Westlehole | 28 | 65,120 | 49,431 | 41,000 | 14 | 14,000 | 1 | 45 4000 |
| ntrold | 40 | 119,100 | | | 6 | 5,015 | 4 | 2,800 |
| ott-Davenport | 92 | 45,800 72,610 1,252,980 | 30,626 33,373 71,776 | 28,125 | 16 | 30,010 | 2 | 100 |
| | | | | | 8 | 17,200 | 4 | (68) |

TABLE No. 1-Continued

| Counties and Cities of 10,000 and Over | No. of fires | Value of buildings and contents | Damage to buildings and contents | Total insurance on buildings and contents | No. of fires partfally covered by insurance | of loss | No, of fires without insurance | Loss |
|--|--------------|------------------------------------|-------------------------------------|--|--|------------------|--------------------------------|----------|
| Bal. Scott Co | 20 | 46,500 | 35,746 | 24,145 | 9 | 18,230 | 3 2 | 7,900 |
| Shelby | 21 | 56,440 | 29,470 | 32,652 | 8 | 12,463 | 2 | 1,085 |
| Sloux | 21 | 82,584 | 40,644 | 25,740 | 13 | 20,047 | 14 | 4,880 |
| Story | 55 | 173,281 | 43,258 | 94,845 | 18 13 | 15,179 16,410 | 0 | 4,610 |
| Tama | 28 | 134,430 | 44,573 | 50,020 | 10 | 7,475 | 3 | 100 |
| Taylor | 17 | 35,700 | 17,700 | 168,250 | 20 | 61,560 | 4 | 2,800 |
| Union | 36 | 268,737 | 197,141 | 10,775 | 8 | 3,863 | | 4-700 |
| Van Buren | 11 | 16,875 | 11,213 | 605,952 | 4 | 1,830 | 1 | 580 |
| Wapello-Ottumwa. | 96 | 880,664 | 323,063 | 21,071 | 13 | 7,909 | 2 | 2,550 |
| Bal. Wapello Co. | 21 | 37,880 | 19,657 | 09,230 | 26 | 18,421 | 4 | 2,330 |
| Warren | 48 | 118,201 | 60,522 21,873 | 21,640 | 10 | 8,450 | 3 | 1,700 |
| Washington | 18 | 36,700 | 6,730 | 29,390 | 3 | 2,885 | 4 | 1,005 |
| Wayne | 17 | 39,720 | 0,100 | 20,000 | | - | | |
| Webster- | 37 | 286,304 | 78,077 | 177,100 | 17 | 21,154 | 1 | 1,990 |
| Ft. Dodge | 24 | 90,602 | 76,963 | 48,119 | 18 | 34,424 | 3 | 3,30 |
| Bal. Webster Co. | 15 | 36,065 | 25,390 | 19,280 | 8 | 11,485 | 3 | 6,130 |
| Winnebago | 13 | 42,100 | 19,514 | 24,020 | 8 | 7,550 | | |
| | 10 | 300,000 | ****** | 100000 | | | 1300 | |
| Woodbury— Sloux City | 223 | 1,308,905 | 134,395 | 878,425 | 23 | 27,812 | 27 | 1,000 |
| Bal. Woodbury | 13 | 23,820 | 8,300 | 15,800 | 5 | 2,670 | 3 | 100 |
| Co | 18 | 28,830 | 10,956 | 13,800 | 3 | 3,760 | - | ******** |
| Worth | 27 | 45,423 | 18,846 | 90,008 | 10 | 7,309 | 7 | 1,90 |
| Walter State of the State of the | 1,471 | 922,916,172 | 8 5,991,242 | \$13,750,381 | 1,487 | \$ 1,749,696 | 554 | 9256,50 |

Showing the Nature and Character of the Buildings or Properties Destroyed or Damaged, the Value of Each, the Damage Thomas the Value of the Contonie of Each, the Damage Thomas the Kind of Material of Which Each, was Con-TABLE NO. II.

| | - 80 | * Buffdings | ings | Cont | Contents | | Open | racter o | Obsracter of Buildings Affected | ogs Affe | peter | |
|--|-------------|------------------|----------------|---------|----------|---------|-------|-----------|---------------------------------|-------------------------------------|--------------|-------------------------------------|
| | No. of fire | outaV | Damage | outaV | Damage | DooW. | Brick | Oement or | Loss Bulld Total | Loss on Bulldings tal Partial | Con Total | Loss on Contents otal Partial |
| mphitheaters utomobiks | es B | 8 3,300 8 | 35,350 | 8 2,000 | 9 300 | 618 | | | 107 | - 28 | | 1 |
| Sakerless | | 17,560 | 3,880 | A. | 8,138 | 01 01 8 | 0100 | 1 | 110 | 909 | 628 | |
| South Persons | 0 10 4 | 3,960 | 126 | | 1,485 | 0 10 4 | 1 | | | + 00 | e e | |
| | 10 01 | 19,000 | 9,0gr 4,786 | | 24,000 | - 40 | 1 | 1 | - | 8 11 | 1 | |
| Oars-Box ears | ngo | 26,900 | 12,405 | 11,640 | 11,150 | n m o | | | re 51 65 | 100 | + 51 | - |
| Express cars | - | 1,900 | 900 | 000'9 | 1,500 | - | | | | | | |
| Kinding cars | | 300 | 100 | 90 | 007 | | | | | | - | |
| Passenger cars Refrigerator cars | | 13,000 | 1,300 | 5,375 | 1,86 | | | | | | | |
| Way cars | en.e | 800 | 100 | 11 648 | A 698 | | | | - | . 64 | | |
| funent houses thurther the transfer that the tra | 1012- | 600,000 | 140,101 | 300 | 16,385 | - 8" | 13 | m | 0 | 00 B | 0 | - 12 |
| Cleaning and dyeing establishments | 7 | 68,550 38,160 | 2,544 | 28,675 | 11,006 | 1-1 | 10 | 81 | D1 01 | 100 10 | 80 mm | 100 |
| Colleges and college dormitories. | 1-1- | 13,900 | 10,130 | 10,200 | 8,196 | 0 | 9 11 | | 0 | 10 OI | , | |

TABLE No. II-Continue

| Particular statement Particular Partic | | - 10 | Buildings | ings. | Cont | Contents | | Char | acter of | Bullidin | Character of Bulldings Affected | ctel | |
|--|---------------------------|--------|-----------|--------|-----------|----------|----------|------------|----------------|----------|---------------------------------|-------|------------|
| Second | | nit 10 | | 4274 | | 42% | | , | 10.100 | Loss | the same | Loss | on ente |
| Second | | No. | utaV | Dam | mie V | Dam | 00M | foliată: | Come | | Partial | Total | Partial |
| Section Sect | Supplies | 9 | 17,307 | 7,880 | 1,80 | 961 | 10 | 1 | | 99 | * | 21 | |
| Second | 20 | 11.0 | 8,000 | 8,000 | 6,000 | 6,000 | er- | Ì | | 174 | | - | - |
| Section Sect | A 16 | 7 12 | 18.80 | 47,000 | 26.984 | 47,190 | 10 | - | | 6. | | | * |
| Partial Restory 1 | Engine and boiler rooms | ah | 9,875 | 1,185 | 17,230 | 909 | 9 | ** | I | 9 | | | 101 |
| Revent R | - parete | * . | 6,300 | 4,100 | 9,000 | 2,000 | 25 - | F.F. | | | 11. | | 19- |
| 1,000 1,00 | Brown paper | | 20,000 | 60 | 30,000 | Diam'r. | - | | | | | | |
| Delicoy 2 | factor | * | 4,400 | 1,100 | 2,800 | 1.703 | - | | Ì | - | - 61 | 1 | 71 |
| 1,000 1,00 | 700 | 91 + | 9,300 | 200 | 13,590 | 1.133 | *** | | | | * | Ī | |
| 1 | - 6 | 1 | 19,000 | 000 | 15,000 | 1,000 | * | | | | | | 1 |
| 1 | | | 1000 | 10 | 1.900 | - | 1 | | | | - | | - |
| Transference Tran | Clear factory | - | 42,000 | 5,008 | 14,130 | 4,570 | -0 | 10 | | | * | | ** |
| 1 | hox facto | - | 7,000 | 190 | 4,500 | 104 | - | 1 | | | - | | |
| 10 10 10 10 10 10 10 10 | ac. | | 8,000 | 0,000 | 000 000 | 2,000 | | | Ī | | -, | | |
| 10 10 10 10 10 10 10 10 | | - | 20,000 | | 130,000 | 389 | | 1 | | | | | |
| 110,000 2,010 118,000 1,020 | Pertilleer plants | #1 | 10,500 | 7,150 | 000,000 | 900,000 | 63 | December 1 | | 1 | 1 | | - |
| 1 | Furniture factories | 27 | 000,000 | 2,010 | 128,000 | 4,200 | Spanner. | 61 | | | 291 | | 99.5 |
| 1,000 1,00 | Glove Inclories | 21 - | 7,000 | 3,900 | 61,000 | 30,000 | - | - | 1 | - | - | - | |
| | Hav rack factories | - 3 | 1.000 | 1,000 | 1.000 | 000 | l | | | - | | | |
| 1 | | | 8,000 | 10 | 9,000 | 12 | | 1 | | - | 1 | | - |
| 1 | Implement factories | 21 | 8,500 | 1,005 | 22,000 | 1,836 | - | 1 | Total State of | | 91 | - | *** |
| 1 | a. | 20 1 | 19,000 | 180 | 7,200 | 000 | - | - | 1 | - | n- | - | 0.1 |
| 15 com 1 | | | . 20 000 | A S | 7,800 | 100 | | 0- | | | | l | |
| | 13 | | 18,000 | 2,002 | 85.000 | 000 | | | | | - 01 | | |
| | Pickle factory | 100 | 000'00 | 8 | - | No. | - | | | | - | | |
| 10,000 at 10,000 | Sash and door factories | (11) | 112,000 | 340 | 125,000 | 3,008 | ** | | Ì | 1 | 20. | - | St. |
| Hig Tartory 1 15,000 200 25,000 27 15,000 27 15,000 25,000 | Starth factors inclory | - | 10,000 | 300 | 100,000 | 1000 | | | Î | I | - | Ì | - |
| The same of the sa | That and awaling factory. | - | 15,000 | 3100 | 25,000 | 300 | | 17 | | 1 | | 1000 | - |
| | | 1 | 000 04 | Reca | day casts | 130 100 | - | | t | ľ | 60 | Ĭ | - |

| THE STREET TO STREET THE STREET THE STREET |
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| |
| (中央 数 |
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| - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 |
| |
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| 8,000 8,000 1, |
| 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| 1,500 1, |
| ## ## ## ## ## ## ## ## ## ## ## ## ## |
| Present Present Control Contro |

TABLE No. 11-Continued

| | | Bulk | Bulldings | Contents | ents | | Chat | racter of | Bullillin | Character of Hullilings Affected | ted | |
|------------------------------------|-------|----------|-----------|---|--------|-------|--------|---------------|-----------|----------------------------------|-------|---------------------|
| | nii 1 | | 23 | | offe | | 3 | 30 35 | Los | Loss on Bull-lings | Cor | Loss on Contents |
| | у -ок | vofaV | nmad | Value | Dame | Moon | Buch | Osmero eto | Total | Partial | Total | Partia |
| Photograph galleries | n | 0,400 | 2,900 | 8,900 | 3,300 | 101 | | | * | | - 89 | |
| Planting and saw mills. | " # | 10,000 | 10,000 | 66,400 | 8,436 | 21 | - 16 - | | Fa 4 | 2. | 9 | |
| Post offices and publishing plants | 11 | 91,900 | 2,580 | 342,500 | III'II | 9101 | | | - | (M.) | 24 | |
| Produce houses | 410 | 1,125 | 235 | 1,465 | 1,80 | | | | 1 | 10 | | |
| Pumping station | | 1,000 | 100 | 5,000 | 200 | - | | 1 | | | n | |
| Reformatory (cooper shop) | - 48 | 990,700 | 34,166 | 10,675 | 30,040 | 17 | * | - | 21 | - 1 | 16 | |
| . 1 | | 1,000 | 300 | 0.00 | 180 | | | 1 | | ** | | |
| Salvation Army half | - 10 | 000 | 90 | 2 | | \$11. | 1 | | 1 | 49 | | - |
| Sand hottee | 4 | 8 9 | 88 | *************************************** | | - | | | | | | |
| Seale house | - 12 | 866,038 | 13,687 | 87.915 | 11,446 | 8 | 15 | H | n | 61 | 24 | |
| Saction house | 200 | 12,120 | 6,468 | 8,728 | 8,808 | 8 | 1 | | 18 | = | 27 | |
| 18 | - 5 | 1.600 | 19 | 4,300 | 1,800 | 40 | - | 1 | | 1 | | |
| shops | H. | 98,300 | 7,400 | 27,625 | 4,000 | EL . | 0. | | • | 24 | 84 | |
| Bicycle and motorcycle aboys | * 81 | 14,000 | 8,997 | 16,000 | 0.480 | 30. | - 81 | | #1 | * | * | |
| i Bi | 10 | 4,950 | 8,936 | 5,975 | 4,275 | 10 | - | İ | 0 - | +1 | 0.0 | |
| Cobbler shops | | 000 | 150 | 7,000 | 8 | - | 1 | | 1 | - | | - |
| Harness shops | 0 | 6,000 | 00872 | 16,000 | 14,875 | | | Ì | * | 21.5 | * | |
| Junk shops | m - | 2,500 | 880 | 10,500 | | ne do | | | - | in | | |
| Paint ahon | *** | 1,500 | 100 | 008 | 扇 | - | 100 | | - | **1 | | |
| 윺 | 0.0 | 9,000 | 800 | 8 8 8 | 7,280 | | | | - | i in | | |
| Shue shining shops | | 250 | 100 | 1.900 | 000 | 3 | | | | - | | |
| | | The same | | - | - | | | | | | | |

| | *21 | | | et | 1 | 309 | - | 7 | Consession of the last | | 36 | - | - | | 14 | | 680 | 118 | 40 | 9. | | | 36 | 36 | 100 | - | | 0 | , | | | - | | 202 | 91 | 2- | 340 | 17 | - | *** | 64 | Section 1 | 21 |
|-------------|-------|------------------|-----|-------|-------|---|------------|-------------------|------------------------|--------------------|---------|---------------|-----------|----------|-----------------|---------------|---------|--------------|-------------------------|----------------|--------------|----------|------------------|--------------------|----------------|--------|----------------|------------------|---------|--------------------|-------------------|--------|----------------------|--------|--------------------|---------|--------|------------------|-----------|-----------------|------------------|---------------------|-----------------|
| The same of | 7 | ľ | - | | - | 1- | - | | * | | - | - | 1000 | - | | | | | - | | | | - | | | | | 54 | | | 1 | | - | 9 | | | ** | . 3 | - | | | Personal Principles | |
| | e Mi | - | | | * | 128 | 1 | | | | (8) | - | Section 2 | * | 1.6 | | 18 | - | 0 | 10 | 1 | - | 10 | 19 | 202 | - | 1 | * | * | ¥ | * | | | 16 | 24 | 00 | | 10 | - | | - | - | - |
| | | - | n | - 21 | 1 | 11 | - | | | | 1 | | | | - | | 10 | .01 | 1 | - | - | | ** | R | 80 | * | - | 0 | 7 | | | | | - | - | 7 | | | | | | - | |
| | | | | | | 7 | | | | | 1 | | | | - | - | 1 | 1 | 1 | | | | | | - | | | | | | - | | | | - | | | April 1 | - | | - | - | |
| - | - | - | | - | | | | - | ** | | M | - | 1 | - | 16 | - | - | 174 | * | * | | | * | 10 | 100 | - | | es | 0 | | * | | 1 | 11 | * | • | 1 | | ** | - | - | | - |
| | 80 | *** | | | 0 | n | - | | | | 8- | | | | - | | 36 | - | | 10 | | | - | 19 | 465 | 9- | | 10 | 80 | 7 | - | 1 | ** | 116 | - | * | | Symptomic Street | - | - | 1 | | |
| 969 | 8 | 0000 | 200 | 1,286 | 272 | 22,000 | 8,303 | 250 | 36,000 | 1,000 | 113,017 | 000 | 10 | S.87a | 80.123 | 12,000 | 104,388 | 207,481 | 5,606 | 19, 587 | 1,193 | 8,000 | 22,887 | 271.818 | 88.977 | 28,710 | 1,165 | 38,383 | 28,687 | ************ | 30,378 | - | Section of the last | 12,100 | 275 | 9.338 | 760 | 12,875 | 2,000 | 8 | 5,917 | - | 704 |
| 1.500 | 8,100 | 2,000 | 100 | 1,613 | 212 | 86,380 | 12,000 | 13,500 | 26,000 | 000'06 | 33,900 | 800 | 20,000 | 9,100 | 216,130 | 14,000 | 210,108 | 055.380 | 27,880 | 18,900 | 2,300 | 30,000 | 78,700 | 503.798 | 238,965 | 55,280 | 4,000 | 64,100 | 00,00 | of Constitution of | 99,400 | - | of the party and the | 90,475 | 38,000 | 28, 600 | 15,240 | 22,000 | 2,500 | 3,230 | 000'00 | or bearings as | 6,750 |
| 060 | 8 | 9 000 | 175 | 190 | 963 | 15,699 | 9,000 | - | | | 13,545 | 900 | - | 405 | 12,960 | | 27,409 | 70.933 | 1,730 | 3,007 | 006 | 800 | 19,179 | 85,162 | 90,000 | 10,114 | 000 | 15,196 | 2,642 | 10 | 3,044 | - 99 | 10 | 11,230 | 160 | 1,980 | 300 | 1,435 | 8 | 83 | 1,004 | 1,100 | 1.980 |
| 900 | 1,000 | 4,000 | 175 | 2,310 | 8,100 | 125,750 | 10,000 | | - | | 35,175 | 8,000 | | 25.055 | 304,300 | | 907,700 | 289,500 | 50,430 | 0.900 | 3,000 | 15,000 | 138,600 | 000,000 | 318,000 | 54,450 | 2,500 | 29,600 | 58,200 | 1,000 | 41,000 | 30,000 | 1,000 | 90,000 | 30,000 | 32,600 | 12,700 | 25,800 | 12,000 | 3,000 | 12,000 | 25,000 | 2,776 |
| - | . 00 | en 1 | 1- | 10 | * | 90 | 1 | 1 | - 10 | 100 | 3.5 | 1 | 7 | in | 30 | 1 | 90 | 114 | | 4 | 01 | - | 38 | 90 | 70 | 139 | 91 | - 13 | 8 | - | 9 | ** | 1 | 55 | | 9 | 24 | es. | - | 1 | 1 | 21 | , |
| ahon ahon | Dis | Woodworking ship | | | | Parket by and an address of the same of the same of | salesrooms | Rarbers' supplies | stores | butchers' sumplies | stores | and magarout. | stores | The same | Clothing stores | supply house. | | goods stores | Chetrical supply stores | od ford stores | Fruit stores | nolesale | Purniture stores | merchandlee stores | Groeery stores | | create parlors | implement stores | tores - | | furnishing stores | | and monument stores | - 80 | furnishing stores. | stores | riotes | Stores | wholesale | and paper store | "honograph store | 1018 | butter and eggs |

TABLE No. II--Continued

William na

TABLE NO. III.

| TABLE NO. III. | | |
|---|--------------------|------------------|
| Origin | Number of fires | Loss |
| Antylene explosion Antylene pipe leak Altoning fires Alconi store | | F (6) |
| Aretylene pipe lenk | 435 | 5,000 903,800 |
| Alponing lives | - 4 | 93 |
| | 18 | 7,690 |
| Ashes in baselimit Ashes in woods receptacle Asteminist or motorcycle backfire | 8 | 1,010 |
| Automobile or motorcycle backfire | 353 | 8,170 |
| Automobile alack | 1. | 800 |
| Bed too pear stove | 1 | 300 |
| Blackmith force Black torth | | 970 |
| Ballet too pear wood | 11 | 6,007 45,000 |
| Bedec too bear some books and leaves Burning broads and leaves Burning insects in hen house Burning incedence or grass. | 107 | 9.907 |
| Burning broad and leaves | 4 | 403 |
| Burning meadows or grass. | 0 | |
| | | 15,872 |
| Cardie Carelesanesa Charcoal fire | - 15 | 1,960 |
| Charcoal fire | 2 | 1,740 |
| | | 879 |
| Chenical explosion Children and matches | 07 | 24,176 |
| Children playing with tire Christmas trees and decorations Christmas trees and decorations | 6 | 7.400 |
| Clothing near gas of gasoline stove | | 274 |
| Clothing on steam radiator | 1 1 | 50 |
| Cotton or learning near stove or pipe | 29 | 12,499 |
| Cothing on steat radiator Cothing, rags or bedding near stove or pipe. Cotte um in restaurant. Curtains blowing into flame | n | 1,615 |
| | | |
| Defective boiler Defective electric wiring Indevitive electric wiring in atreet car Defective freplace Defective freplace Defective from | 70 | 27,834 |
| Defective electric wiring in street car | 3 | 99) |
| Defective flues | 25 | 4,606 |
| Defective furnace | 348 | 19,100 |
| Defective furnace Defective gas heater | 9 | 115 |
| Defective gas stove Defective gasoline engine | 2 | 1.00- |
| property furnition of order wherein | 3 | 1,200 |
| Defective gasoline soldering pot | 1 | 55 |
| Defective gasoline soldering pot Defective hot air place Defective oil or gasoline stoves Defective oil or gasoline stoves Defective oil or gasoline stoves Defective principal place Defective poil place Defective radiator in auto Defective radiator in auto Defective stove Defective radiator in auto Defective stove Defective stove | 12 | 1,709 |
| Defective oven in bakery | 1 | 409 |
| Defective radiator in auto | 1 | 1.085 |
| Defective stove | 19 | 7,615 |
| Defective stovepipe Drunkard's carelessness | 11. | 5,760 |
| Photo Company | 2 | 200 |
| Electric heater carelessness Dectric iron carelessness Eradicating kerosene spot on floor by hurning. Eraphoton of heating | 3 | 700 |
| Eradicating kerosene spot on floor by burning. | 12 | 47,800 10 |
| Explosion of benzine | 1 | 10 |
| Explosion of dust in shredding machine | 1 | 27,000 |
| Explosion of engine in light plant | 1 | 2,000 |
| Explosion of gas generator. | 1 | 30 |
| Explosion of gasoline engine | - 2 | 5,200 |
| Explosion of gasoline peanut roaster | 1 | 2,406 |
| Traincating zerosene spot on floor by burning. Explosion of dust in paint factory Explosion of dust in paint factory Explosion of dust in shredding machine Explosion of gas generator. Explosion of gas generator. Explosion of gas solve Explosion of gasoline engine Explosion of gasoline peanut ronster Explosion of gasoline solvetring plot Explosion of gasoline solvetring but Explosion of gasoline solvetring but Explosion of gasoline solvetring but | 1 | 6,000 |
| Explosion of gasoline stove | 27 | 12,000 |

TABLE No. III-Continued

| | 30 | |
|--|--------------|--------------------|
| Origin | Number | Loss |
| | | _ |
| Explosion of hot water soils in raises. Explosion of herosem oil beater Explosion of herosem oil store. | 30 2 2 | 367 276 7.98 |
| Filling auto gasoline tank by lantern light | 3 | 1.60 |
| Fire smoldering in wall from previous day | 10 | 1.73 |
| Priction of unachinery | 4 | 17,00 |
| Purpage explosion | 6 | 16,980 |
| Purnace or pines too near wood | 16 | 12,940 |
| Fuse plug blow out | | 96 |
| Gus explosion | 1 9 | 2,000 |
| Gas or electric heater near woodwork | - 6 | 1,68 |
| Gas fron carelesaness | 2 | 7,18 |
| Gas leak Gasoline earelessness | 6. | 1,45 |
| Gasoline cleaning with | 5 | 204 |
| Sasoline engine backfire Gasoline explosion | A 271 | 14,680 |
| Gasoline into explosion Gasoline lamp explosion | 1 | 300 |
| Sasoline lamp explosion | 2 | 1,800 |
| Jasoline leak Jasoline or oll stove carelessness | 201 | 11,561 |
| Grease on stove | D- | 3,580 |
| Heating beeswax and turpentine on store | Y | 30 |
| Heating linseed oil on stove | 1 | 8 |
| Heating paint on stove | 1 2 | 1,425 |
| Heating varpish on stove | 12 | 2291 |
| Hot Iron against wood Hot pulley in hay loader | 29 | 1,420 |
| Incendiary and probably incendiary | 189 | 947,967 908 |
| | - 51 | |
| Jack-o'-lantern | 2. | 65 |
| Kerosepe in auto radiator | 1 | 12,615 |
| Kindling or wood near stove or furnace. | 32 | 12,60 |
| Lamp or lantern earelessness | . 9 | 3,179 |
| Lamp or lantern explosion | 7 | 27,784 |
| Lamp or lantern upset Leaky Joint in automobile | 3 | 515 |
| Lighted match or torch near gasoline. Lightning Lightning running in on wiring Live roal carelessness | 127 | 9,390 |
| Lightning running in on wiring | 4 | 200 |
| Live coal carelessness | | 2.98 |
| Live coals dropping from grate or store | 20 | 5,430 |
| Live wire | 1 | 1,300 |
| Looking for gas leak with light | 2. | = |
| Match carlesaness | 71 | 21,83 |
| Matches ignited by sun's rays through window | 1 5 | 1,50 |
| Marion burner runs Transmission Commission C | | |
| Oil beating stove carelessness | 16 | 3,400 |
| Oily rag carelesspess Oil spilled near stove or furnace | 12 | 18,116 |
| On store near wall or woodwork | 113 | 91 |
| Overheated boiler Overheated capola | 1 2 | 107 |
| Overheated electric motor | 4 | 197 |

TABLE No. III -Continued

| | to | |
|--|--------|----------------|
| Origin | Number | Loss |
| Corrhested cogine in muto | 1 | 80 |
| Overheated exhaust pipe in mito | 1 | 200 |
| Overheated fed cooker | - 6 | 7,16 |
| Ourheated Influee | 15 | |
| | | 91,541 |
| Overheated not air pipes | 12 | 4,98 |
| Overheated hot air pipes Overheated jupanning furnace Overheated kin | 1 | 100 |
| Chesebont at all aft banking to characters | - 3 | 9,895 |
| Overheated shaft in milking machine Overheated steam pipes and radiators Overheated store | 1 | 25 |
| Overheated steam pipes and radiators. | 3 | 6,200 |
| | .58 | 56,812 |
| Outheated storepipe Operheated sugar dryer | 33 | 13,115 |
| Overhested tire furnace in carriage works | 1 | 600 |
| | 1 | 1,000 |
| Paint vat boiling over in factory | 1 | 75 |
| Departs are afterno | â | 608 |
| Papers on afore Photographic flash light | 1 | - 510 |
| | 1 | 10 |
| Railway wreck Return stram pipe through coal bin Robbish in hasement | - | |
| Betarn steam pipe through coal bin | 2 | |
| Robbish to Dasement | 13 | 2,000 |
| Robbish mear stone | 3 | 1,008 |
| Rubbish in basement Eubbish in or near building Babbish near stove | 1 | - Cio |
| Short circuit in automobile Short circuit in electric motor Short circuit in gasoline engine Suoke house fires Suoke house fires Sunoking out bees Sparks from cupola | 1 | |
| Short circuit in electric motor | 17 | 3,547 |
| Short circuit in gasoline angine. | 1 | 1,687 2,500 |
| Schoke house lifes | | 3,701 |
| Smoking out here | 75 | 34,718 |
| contains out tees contained to the conta | 3 | 165 |
| Sparks from dust fan in laundry | 4 | 189 |
| Sparks from electric motor | 2 | 8,500 |
| Sparks from feed copies | 2 | 1,840 |
| Sparks from floe | 1 | 1,300 |
| Sharks from flue hole to chimnes | .500 | 287,600 |
| Sparks from furnace Sparks from gasoline engine Sparks from personale | B. | 3,905 |
| Sparks from guspline engine | 1 2 | 11,995 |
| thurbs from plans matel | 45 | BE-607 |
| Sparks from stove | - 1 | 7 |
| Sparks from traction engine | 5 | 536 |
| Sparks from press store Sparks from traction engine Sparks from traction engine Sparrow's pest near chinney Sparrow's post near chinney Sparrow's postaneous continuation | 11 | 5,800 |
| Spontaneous confinition Saring fire with coal oil Saring fire with exactly instead of coal oil | 258 | 209,170 |
| Starting fire with coal oil | 13 | 6,905 |
| Store blow nest | 2 | 190 |
| Stove too near unprotected wood Stovenies too near unprotected wood Stove used: | 4 | 4.905 |
| stoveplpe too near suprotected wood | 14 | 16,431 |
| tore ignet | 5 | 11,568 700 |
| Supposed rates and match. | 37 | 26,375 |
| torcolpe through wall or fool. Supposed rates and matches Sweeping compound in hot air pipe | 9 | 5,425 |
| on not an pipe | 1 | 11 |
| All Refile Buillian comme | 1 | 200 |
| | T | 10 |
| Chawing frozen water pipes | 23 | 3,710 |
| Training | - 6 | 5,458 |
| | 30 | 26,580 |
| aknown | 001 | |
| ulcantaing machine | 7 | 2,456,590 |
| Totals - | | NO HOUSE |

TABLE NO. IV.

Giving the Cities and Towns in Which Inspections of Dilapidated Buildings and Inflammable Conditions Have Been Made During the Year 1916, the Number of Places Inspected at Each Point and the Number and Kind of Orders Issued in Connection Therewith.

| CITY | | Date | Number Inspections | Remove | Repair | Change | Cleaning and repute | Cleanop |
|-------------------------|---------------|---------|-----------------------|---------|------------|-------------|------------------------|---------|
| ckley | March | 10 | 40 | 1 | 11 | 3 | | |
| ickley | Sov. | 90 | 1 | | ******* | ****** | | |
| kros | Aug. | .14 | | | | 1 | | - |
| libia | Jan. | 96 | 1 | 1 | **** | *** | - | |
| libia | April | 11 | 1 2 | | | 3 | 10000 | |
| Lines | April Aug. | 14 | | | | to the same | 1000 | - |
| ndrew | June | | | | | 1 | | |
| rispe | Feb. | B | 2 | | | 1 | | |
| tties | April | 6 | | | | 1 | ******* | - |
| edford | Peb. | 140 | - 2 | | | | | |
| ledford | Aug. | 18 | - 3 | | 1 | ****** | | |
| lloom field | March | 21 | 1 | | î | | - | |
| loone noon | May | 95 | | 1 | ***** | ****** | - vern | LL TO |
| loone | Sept. | 27 | 3 | | 1 | ******* | | 1 |
| rooklyn | July | 93 | 1 | 1 | **** | **** | | - |
| uffalo Center | June | 14 | 2 | 1 | ******* | Average | 27+10401 | |
| luriington | Jun. | Acres | 2 | 1000000 | ****** | | | ***** |
| almar | June | 49 | | | | | | |
| edar Rapids | Dec. | 19 | 19 | 11 | | | 1 | |
| enterville | Feb. | 18 | 2 | ******* | | 2 | - | |
| hariton | Jan. | 25 | 13 | 3 | | 4 | ******* | |
| hariton | May | 10 | 1 | 1 | ****** | - | | |
| hariton | Nov. | 17 | .9 | ******* | ******* | 1 | 4 | |
| hariton | Dec. | 91 | 1 | ****** | ******* | | | |
| incinuati | Ang. | 17 | 5 | 1 2 | - | 1 | 1 | ***** |
| larioda | April | 19 | | 1 | | | | |
| linton | June | 10 | 2 | 0000 | ********** | 5.000.000 | | 352.7 |
| olfux | Jan. | 12 | 1 | | ***** | | | 10000 |
| orning | Oct. | 13 | 12 | | 1 | 2 | 3 | 100 |
| ouncil Bluffs | June | 3 | -1 | 1 | **** | ****** | | |
| reston | June | 22 | 8 | | - | 6 | | |
| umberland | Sept. | 10 | 5 | 1 | 2 | 444000 | I | |
| ushing | May | 1 | | | | 1 | | |
| According to the second | 1200 | | | | | | | |
| symport | Fune | 9 | 16 | retries | 10000000 | 13 | description. | |
| avenport | Oct. Ang. | 18 | 1 | 300000 | | 1 | 1 | 1140 |
| eatur | Oct. | 6 | 7 | ****** | 6 | | | |
| ecorah | June | 99 | 1 | 1 | | | | |
| enver | May | 55 | - 3 | 2 | | Control of | | ***** |
| es Moines | Inn. | 4 | 1 | | | 1 | | **** |
| es Molnes | Feb. | Acres | 2 | | ******* | APPRARAD. | | |
| es Molnes | April | 24 | 2 | ******* | ***** | | | |
| es Moines | May | 9 | 9 | | | | | ******* |
| es Moines | May | 18 | - 2 | 2 | | ******* | | 15500 |
| hos Molnes | June | 9 | 1 | 1 | | | | |
| es Moines | June | 15 | 1 | | - | 10000 500 | 1 | |
| es Molnes | July | Townson | 1 | | | | 1 | ****** |
| es Moines | July | 14 | 4 | | | | 3 | - |
| es Moines | Attg. | Termoni | 1 | | | ******* | **** | |
| es Moines | Aug. | 15 | 1 | 1 | | | | |
| | | | | | | | | |

TABLE No. 1V-Continued

| | | | foot | | | | ag. | |
|--|--|--|--|---------|---------------|-----------|-----------|------------------|
| CITY | | Date | Number | Bemove | Benate | Change | Dicanop | Tepair Transp |
| 7.22 | Hone | 18 | | | | | | |
| Des Moines | | 29 | | 1 | - | 44 | in partic | |
| Des Moines | | 10 | | 1 | 1 | 77 175164 | 00000 | |
| Des Moines | | 14 | | 1 | * | 42 0000 | ** ***** | |
| Des Moines | Dec. | 7 | | 2 | | 1 | ** ***** | |
| Des Moldes | Duc. | | | 1 | | 1 | 4- | |
| rus Molnes | - Doe. | 9 | | 1 | | 40,040,00 | 1 | |
| The Wild. | a. Junio | 28 | | 9 | | | 2 100000 | |
| Dunder | - March | | | | 1 | | 1 | |
| Duniap | Jan. | 28 | | 1 | | - | | - |
| Eagle Grove | | 11 | 1 1 | 6 | | 1 | 1 | |
| Earlhatu | duly | 11 | . 12 | 5 | | 1 | | |
| Sarling | | 201 | | - | | | Ph. | 1 |
| Esira | April | L | - | | - | 4 | | |
| Porest City | April | 11 | 1 | | | | | |
| Pari Dodge | Jan. | 34, | - 1 | | | - lane | - | 7 |
| Fort Dodge | May | 10 | . 1 | | | 4 | | 1 |
| LOLI TOURS | Sept. | 27 | . 8 | | | - | | |
| Gladbrook | April | | . 0 | | | | | 4 |
| description of the second | Dec. | 4 | 9 | | 1 3 | | - 3 | |
| | 23300 | 7 | 1 . | 1 | 7777-00 | - 1 | | - |
| Iamptou | Nov. | 4 | - 4 | 2 | Total Control | . 1 | | |
| intley | Nov. | 20 | 2 | | | 1 | 1 | |
| lartwick | Det. | 21 | | | | . 1 | | |
| Hedrick | June | .7 | 9 | | 1 | | | 1575 |
| Tedrick | July Dec. | 11 | 2 | ****** | . 1 | - | - 1000 | - |
| fumboldt | Oet. | 14 | - 5 | | 1 | - | | |
| | curry. | freezes | 1 | ******* | | 1 | | |
| da Grove | Sept. | 7 | 9 | | 1 | | 1 | 1 |
| OWR CITY | May | A | 1 | 1 | 1 | 4 | | ***** |
| ova Palls | Peb. | 25 | 10 | 1 | ********* | ****** | ****** | ***** |
| etterson | Feb. | | | | 1 | | | - |
| efferson | March | Services | 65 | . 3 | 1 | 9 | 1 | 1 |
| | MINICELL | 58 | 3 | ******* | ******** | | | 1 0 |
| noxville | June | - | | | | | | |
| | | 21 | 12 | | | | | |
| arrive a | | | 2 | | | | | ****** |
| | Sept. | 22 | 20 | | | | | |
| ake City | Sept. April | 7 | | | 2 | | | |
| ake City | Sept. April Nov. | 7. 10. | 20 5 | | Lucia C. | 4 | | |
| ake City | Sept. April Nov. June | 7. 30. | 200 .5 | | 2 | | | |
| ake City | Sept. April Nov. June June | 7. 10. | 200 50 50 50 50 50 | 1 | Lucia C. | | | |
| ale City ale City ale City ale Mile aPorte City c Claire shrtile | Sept. April Nov. June June Oct. 1 | 7. 30. 15. 29. | 20 5 3 1 | | Lucia C. | | | |
| ake City ake City ake City ake Mile alPorte City c Claire abretile con Tree | Sept. April Nov. June June Oct. 1 Oct. | 7. 10. 15. | 200 50 50 50 50 50 | 1 | Lucia C. | | | |
| ake City ake Mille after City se Mille after City c Claire shrutle coe Tree | Sept. April Nov. June June Oct. July Feb. | 7 30 15 29 8 11 12 10 | 20 5 2 1 6 | 1 | Lucia C. | | | |
| Ale City the City Lie City Lie Mile sPorte City Claire shrutle soe Tree coax | Sept. April Nov. June June Oct. 1 Oct. 1 July Feb. Dre. | 7 7 10 15 29 8 11 15 18 11 18 | 20 5 5 2 1 6 | 1 | Lucia C. | | | |
| ake City ske City ske Mile aPorte City Claire shrelle son Tree coax coax mnville | Sept. April Nov. June June Oct. July Feb. | 7 30 15 29 8 11 12 10 | 20 5 2 1 6 | 1 | Lucia C. | | 1 | |
| ake City ake City ake City ake Mile alloute City builder city claire one Tree coas coas coas coas Gregor | Sept. April Nov. June June Oct. July Feb, Dec. March | 200 7 10 15 15 12 11 11 11 12 13 23 23 | 20 5 3 1 6 | 1 | Lucia C. | | 1 | |
| ake Chy ake Chy ake Mills ale Mills alvorte Chy Citaire on Trie cas cas cas cas | Sept. April Nov. June June Oct. July Feb, Dac, March | 77 10. 155 10. 155 10. 155 10. 11. 15 10. 11. 10. 113. 105 21. | 20 5 5 2 1 6 8 1 1 2 | 1 | Lucia C. | | | |
| ake City ake City ake City ake Mills alPorte City Citairs birtile coar Tree coas cas cas citair diffe diff diff | Sept. April Nov. June June Oct. July Feb, Dec. March June July Nov. | 77 30 16 29 11 12 10 11 12 10 11 13 20 21 | 20 5 3 1 6 3 | 1 | Lucia C. | 1 | | |
| ake City ake City ake City ale Mills all-Note City Citaire shrelie soo Tree soas soas soas soas soas soas soas so | Sept. April Nov. June June Cet. 1 Get. July Feb, Dec. March June Iuly Nov. Aug. | 77 10. 155 10. 155 10. 155 10. 11. 15 10. 11. 10. 113. 105 21. | 20 5 5 2 1 6 8 1 1 2 | 1 | Lucia C. | 1 | | |
| ake City ake City ale Mills ale Mill | Sept. April Nov. June June Get. 1 Oct. 1 Oct. 1 July Fleb, Dec. March June July Nov. Aug. Oct. | 77. 30. 155. 229. 11. 12. 221. 15. 4. 2. 2. 163. 163. | 20 5 3 1 6 3 | 1 | Lucia C. | * | 1 | |
| ake Clty ake Clty ale Mills ale Mills ale Mills ale Mills alever Clty Claire bertife soo Tree seas marilis firegor elefid alrid (near) alree diver monester diver monester diver monester diver monester diver monester diver | Sept. April Nov. June Oct. 1 July Feb, Dec. March July Nov. Aug. Oct. June June June Oct. June | 77. 10. 15. 229. 29. 11. 122. 13. 222. 21. 15. 2. 21. 15. 22. 167. 20. 20. 20. 20. 20. 20. 20. 20. 20. 20 | 200 5 5 2 1 6 3 1 2 2 2 1 | 1 | Lucia C. | 1 | 1 | |
| ake Chy ake Chy ale Mills | Sept. April Nov. June Oct. July Feb, Dec. March June July Nov. March June July Nov. May May | 7 10 15 11 11 11 11 11 11 11 11 11 11 11 11 | 200 5 3 1 6 3 1 2 2 2 1 | 1 | Lucia C. | * | , | |
| ake City ake City ale Mills ale Mills ale Mills ale Mills alever City Citaire alever City Citaire alever City con Tree cita citaire alever city citaire direct dire | Sept. April Nov. June Get. 1 Oct. July Feb, Dec. March June Huly Nov. Aim. June May March | 77 10 10 15 15 15 15 15 15 15 15 15 15 15 15 15 | 20 5 3 1 6 3 1 2 2 1 1 2 2 1 | 1 | Lucia C. | * | | |
| alvern alvern sochester milla milla mining | Sept. April Nov. June Oct. 1 Get. 1 Get. July Feb. Bareh June July Nov. Aing. Oct. June May March June May March June May March Jan. | 77 77 10 10 115 22 22 11 12 13 22 22 14 4 4 2 13 13 13 22 22 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16 | 20 5 3 1 6 3 1 2 2 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 | 1 | Lucia C. | * | 1 | 1 |
| ake City ake Mills ake Mills allowing Mills allowing City c Claire shortelle coar Tree coar coar coar coar coar coar coar coar | Sept. April Nov. June June Oct. 1 Oct. July Peb, Dec. March June March March June June June June June June June June | 77 10 10 15 15 15 15 15 15 15 15 15 15 15 15 15 | 20 5 3 4 8 3 1 2 2 1 1 2 2 1 | 1 1 | Lucia C. | * | | |
| ake City ake Mills allower of the Mills allower of | Sept. April Nov. June June Oct. 1 Oct. 1 July Feb, Dec. March June June May March June May March June May June March Jan. Marrh Jan. | 77 730 101 115 222 11 111 113 113 113 221 115 24 4 4 2 117 118 118 119 119 119 119 119 119 119 119 | 20 5 5 2 4 6 5 7 1 2 2 2 1 1 2 2 1 2 1 2 1 2 1 1 2 1 1 2 1 1 1 2 1 1 1 2 1 | 1 | 1 | * | | |
| ake Clty dee Clty dee Clty Are Mills Florte Clty Claire bretlie oor Tree oos Tree oos anoribe marribe drid (near) dree drid (near) dree | Sept. April Nov. June June Oct. 1 Oct. July Peb, Dec. March June March Ma | 77 10 10 15 15 15 15 15 15 15 15 15 15 15 15 15 | 20 5 3 4 8 3 1 2 2 1 1 2 2 1 | 1 | Lucia C. | * | | |

TABLE No. IV-Continued

| | | | House | | | | pun | |
|---|---|--|------------------|---------|----------|---------|---------|----------|
| CITY | D | late | Number | Remove | Repair | Change | Geanup | Cleaning |
| Mason City | Feb. | 24 | 5 | 2 | 1 | | | |
| Mason City | Nept. | 14 | 1 | ******* | ******* | ****** | - | - |
| Mingo Walley | Dec. | 97 | 1 | 1 | *>**** | 1 | | ******* |
| Mondamin | Sov. | 0 | 1 | 1 | ****** | ***** | | |
| Monroe | Jan. | 20 | . 5 | | ****** | 4 | 1 | |
| Moorhead | March | 10 | 1 | | ****** | 1 | | ******* |
| New Hampton | June | 23 | 3 | | | | | STREET. |
| New Hartford | May | 2 | | | | ****** | | |
| New Market | Feb. | 21 | | | ***** | 1 | | ******** |
| Newton | Jan. March | 5 | 2 | 1 | ***** | 1 | | |
| Northwood | April | 96 | 3 | 1 | | 1 | | **** |
| Odebolt | Sept. | - | 6 | | 1 | | | |
| Onawa | June | 7 | 4 | 3 | | ****** | ****** | - |
| Oskaloosa | Oct. | 12 | 2 | ****** | ******* | | | |
| Oskaloosa | Dec. | 99 | 9 | 6 | 1 | 1 | | 1 |
| OssianOttumwa | Aug. | 17 | 1 | 1 | 1 | ****** | - | ******* |
| Ottomwa | Jan. Jan. | 91 | 1 | | | 1 | | - |
| Ottumwa | April | 203 | 2 | 1 | | | | ****** |
| Ottumwa | May | 9 | 1 | 1 | ****** | | | |
| Ottosen | Oct. | 10 | 1 | | ***** | ****** | | ******* |
| Pella | March | 10 | 3 | | | 1 | | |
| Primghar | Sept. | 26 | 1 | | ******* | | 1 | |
| Randall | July | 18 | | | | | | 1 |
| Redfield | Dec. | 22 | | ******* | 1 | ***** | | |
| Red Oak | April | 13 | 13 | 3 | ******** | ****** | ******* | ****** |
| Renwick | April | 90 | 8 | ****** | 1 | 1 | | |
| Rock Rapids | Oct. | 10 | - 3 | | | | | |
| Rockwell | Feb. | 10 | | | ****** | ******* | -1 | |
| Sac City | Aug. | 15 | ******* | | | 10 | | |
| Sanborn | Sept. | 14 | 3 | ***** | ***** | | | 1 |
| Bearsboro | March Oct. | 10 | 5 | 2 | ****** | 1 | | |
| Sheldon | Oct. | 10 | 4 | | 2 | | | 3 |
| Sigourney | June | 29 | - 9 | | 2 | | ****** | |
| Sigourney | Oct. | 13 | 1 | | ****** | | ****** | |
| Sigourney | Dec. June | 14, | 1 5 | 1 2 | ****** | | 3 | |
| Sioux City | May | Barrens | 3 | 1 | 1 | | 3 | - |
| Spencer | Jan. | 19 | 1 | | î | ****** | | - |
| Spencer | April | 21 | 1 | ******* | ******* | | | - |
| St. Ansgar | Ang. | 199 | 5 5 | 1 | ******* | 1 | 1 | |
| | March | L | 7 | 3000 | 2 | 2 | 1 | 1 |
| State Center | | 1 | 1 | | - | | | 1 |
| State Center | March | | | | | | | STATE |
| State Center | Jin. | 95 | õ | | 3 | | ****** | |
| State Center | Jan. March | 23 | 5 2 | | 3 | ****** | 1 | |
| State Center | Jin. | 95 | õ | 4 | | | 1 | 1 |
| State Center Story City Stratford Sully Summer Storm Lake | Jan, March March June | 91. 22. 8. 14 | 5 2 1 | 4 | | | 1 | i |
| State Center Story City Stratford Sully Summer | Jan, March March June July | 196 232 | 5 2 1 8 | | | | | i |
| State Center Story City Stratford Sully Summer Storm Lake Tama Tiffin Toolsboro | Jan. March March June fuly fune April | 90. 22. 9. 14. 12. 30. 19. | 5 2 1 8 | 4 | | | | i |
| State Center Story City Stratford Sully Sumner Storm Lake Tama | Jan. March March June fuly fune | 90 | 5 2 1 8 | | 3 | | | |
| State Center Story City Stratford Sully Summer Storm Lake Tama Tiffin Toolsboro | Jan. March March June fuly fune April | 90. 22. 9. 14. 12. 30. 19. | 5 2 1 8 | | 3 | | | 1 |

TABLE No. IV--Continued

| CITY | Date | Number | Remove | Repair | Change | Cleanup and repair | Cleanup |
|--|---|-------------------|--------|----------|-------------|-----------------------|------------|
| Villsca | April 13 | 8 5 7 | | 2 | 2 | 1 | 1 |
| Walnut | Sept. 0 | 5 4 10 1 | | <u>i</u> | 5 3 2 | 1 | |
| Waterioo Waterioo Waterioo Waterioo Waterioo Waterioo Waterioo | March 21. April 18. June 29. June 22. Dec. 5. | 1 4 1 | 1 | | 1 | | ********** |
| Velster City Velster City Velster City Velster Velsting | Oct. 4 | 5 1 2 | 1 | 2 | 1 | 1 | |
| Totals | | 612 | 113 | 63 | 126 | 129 | 157 |

TABLE NO. V.

Giving Places at Which Investigations of Fires of Suspicious Origin Have Been Made During the Year 1916, and the Date When Such Investigation Eegan.

| County | Place | Date Continuencing Investigation |
|--|--|--|
| delr | Adair | February 14 |
| eriate | Near Orient | October 24 |
| dams | Prescott | February 9 |
| Appatroose | Centerville | February 17 |
| sppannion. | Centerville | February 18 |
| | Centerville | April h |
| | Near Centerville | December 8 |
| | Jerome | Pel-ruary 18 |
| | Moulton | April 4 |
| | Moulton | |
| | Near Unionville | November 15 March 29 |
| | Mystie | November 14 |
| | TO A THE STREET OF STREET OF STREET | |
| Neston | Blairstowp | Tanuary 25 |
| Black Hawk | LaPorte City | Pelmary 11 |
| mace stark | LaPorte City | August 30 |
| | Near Cedar Falls | Petermany 10 |
| | Waterloo-3 firev | April 17 |
| | Waterloo | August 28 |
| | Waterloo | August 39 |
| | Waterloo & fires | November 28 |
| Bremer | Summer | March 8 |
| M. Committee . | Waverly | |
| Buena Vista | Storm Lake | August 8 |
| Calhoun | Manson | March 20 |
| Carroll | Manning-2 fires | March 28 |
| WILLIAM THURSDAY | Manning—2 fires Near Templeton—2 fires | October 25 |
| Case | Griswold | |
| Cerro Gordo | Carterwille | February 28 |
| The state of the s | Mason City | January 31 |
| | Mason City | Peternary 22 |
| Cherokee | Cherokee | |
| | Chroke | November 25 |
| Chicksnaw | Predericksburg | October 3 |
| CONCRETE OF THE PARTY OF THE PA | New Hampton | |
| Olas | Spencer | January 18 |
| Clay | Spencer | |
| Clayton | MeGregor | July 18 |
| CHRYSTON | | |
| Crawford | Dow City | August 28 November 14 |
| | A STATE OF THE STA | |
| Dallas | Perry (near) | April 27 |
| | Perry | October 10 |
| | TAIL AMERICAN PROPERTY. | The state of the s |
| Davis | Paris (near) | August 17 |
| | Davie City | Control of the Contro |

TABLE No. V-Continued

| County | Place | Date Commensing Investigation |
|-------------|--|----------------------------------|
| pubuque | Avenarius | Describes 4 |
| Payette | Randalia | March 1 |
| Mond | Charles City | - March P |
| | Almost City | August 29 |
| Franklin | Alexander | - February 25 |
| Premotit | Thorman (near) | Soldenost 20 |
| Marrie . | Prince Land | |
| Athene | Ohurdan Jefferenn | - March B |
| | Jefferson | - February 1 |
| | Jetterson | February 1 |
| inusty | Washington Township of fires | Sentember 4 |
| Quatrie | Guthrie Center (near) | regressings g |
| | Guthrie Center (near)—2 fires | - May 11 Normalista at |
| d-million | Strate at | Provention 25 |
| | | - May 2 |
| Maria Maria | The state of the s | - Jacuary 75 |
| TOLOGR. | Hayfield | September 4 |
| bods | fowa Palis | Last or |
| | Iowa Falls | November 2 |
| | fowa Palls Wilke | October 6 |
| arrison | Missouri Valley (near) | Navardar to |
| | Missouri Vailey (near) Persia (near)—3 fires | October 18 |
| enty | Salom | and the second second |
| | Trenton | November 21 |
| | Wayland | May 1 |
| ackson | Zwingle | October 31 |
| rathet. | Keilogg Township Mingo Kewton Newton Newton | Contamber to |
| | Mingo | December 19 |
| | Newton | January 5 |
| | Newton - | April 24 |
| dans | Con Water Service | subsumplet to |
| | Tomo City | October 31 |
| obsk | | May 3 |
| | Harper (near) | September 19 |
| | Hedrick Hedrick Richland Township Sigoutney | June 7 |
| | Richland Township | Nectorities 12 |
| | Signifies | August 1st |
| | Sigourney Sigourney Tulleyrand (near) | September 30 |
| | The state of the s | September 19 |
| | Keokuk | January 27 |
| | Met/AUX | September 7 |
| M | Cedar Rapids | March 1 |
| | Codar Rapids (near) | October 30 |
| | Cedar Rapids | December 18 |
| | Cenwood Park | December 20 |
| | Cedar Rapids Cedar Rapids (cear) Cedar Rapids Cedar Rapids Cedar Rapids Cenwood Park Marion | December 21 |
| des | Columbus City | |
| THY | The second secon | May 18 |
| | - Chariton | August 24 |
| | Chariton | December in |

TABLE No. V-Continued

| County | Place | Date Communing Investigation |
|-----------------------|--|---------------------------------------|
| Lyon | George | - January 20 |
| Mahaska | Oskalotsa | March 9 September 21 |
| Marion | Hamilton | December 30 March 14 |
| Marshell | | |
| Monons | | March 9 Petruary 26 |
| Monroe | Albia (near) | April 8 |
| | Albia (Dear) Albia Buxton Buxton (near) Riserville | June 26 August 9 |
| Montgomery | Rizerville | August 8 |
| Montgomery O'Brien | And the same of th | Anril 6 |
| | Sanbern | November 22 |
| Piymouth | Cruig Liberty Township | January II Sovember 8 |
| Pocabontas | | |
| Polk | Altoons (near) | March 13 April 24 March 13 |
| | Carner Des Moines Des Moines Des Moines Des Moines Des Moines Des Moines | June 22 July 17 |
| | Des Molnes Des Molnes Des Molnes | August 9 September 21 October 3 |
| | Des Moines Des Moines Tres Moines | |
| | Tes Moines Les Moines Valley Junetion | |
| Pottawattamie | | |
| | Council Bluffs Council Bluffs Council Bluffs Council Bluffs Council Bluffs | March 17 |
| | Duttfries Hancock 2 fires Lewis Township | July 6 |
| Scott | | THE PERSON NAMED IN COLUMN |
| Sloux | | |
| Story | | April 11 |
| | Nevada Serada Slater | |
| Taylor | Blockton | Pebruary 12 |
| Union | Afton-# fires | Lentuary = |
| Wapello | Spaulding | August 10 |
| A sheng | Ottomwa—8 fires | January 11 |

TABLE No. V-Continued

| County | Piace | Date Commencing Investigation |
|------------|---|-----------------------------------|
| Washington | Kaiona Seventy-six Township Seventy-six Township- Riverside (near) Washington (near) | - August 10 November 1 |
| Webster | Fort Dodge | September 30 |
| Winnelogo | Forest City | April 12 |
| Woodbury | Sulfa Sloux City d fires | January 11 January 14 Petruary 22 |
| Worth | Grafton | May 16 |
| Fright | Engls Grove-5 fires | September 5 |