

State of Iowa 1918

REPORT OF THE

STATE FIRE MARSHAL

FOR THE YEAR 1918

OLE O. ROE

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STATE FIRE MARSHAL.

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

Office	Name	Legal Residence	Birthplace
Assistant	Ole O. Roe. J. A. Tracy. E. J. Frowick. H. G. Zimmerman. Laura M. Pedersen.	Des Moines	Iowa Iowa Iowa

LETTER OF TRANSMITTAL.

Des Moines, February 1, 1919.

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

Six: In compliance with the provisions of Section 2468-n, Supplement to the Code, 1913, I have the honor to submit herewith my eighth annual report of my official acts and of the affairs of this office, covering the period beginning January 1, 1918, and ending December 31, 1918, both dates included.

Oh O. Rac State Fire Marshal.

EIGHTH ANNUAL REPORT STATE FIRE MARSHAL

For the year 1918, 4,393 fires were reported to this office, involving a loss of \$6,440,771. The property involved in these fires was valued at \$27,015,791. Of the total loss thus reported, property to the value of \$4,189,034 was covered by insurance, leaving an excess of loss over insurance amounting to \$2,251,737. Included in this excess are 640 properties involving a loss of \$354,405 upon which no insurance was carried.

THE TOTAL NUMBER OF FIRES REPORTED FOR 1918 WAS 560 LESS THAN THAT REPORTED FOR 1917.

THE FIRE LOSS OF 1918 WAS LESS BY \$775,474 THAN THAT OF 1917.

The average daily fire loss of the year amounted to \$17,645 and the average loss in each fire was \$1,466.

The per capita fire loss in the state of Iowa during the year 1918 was \$2.73.

During the year six (6) fires occurred in each of which the loss exceeded \$100,000, as follows:

May 16, Webster county, near Fort Dodge	125,000
July 2, Woodbury county, near Sergeants Bluff	113,784
Aug. 6, Independence	135,000
Sept. 28, Des Moines	274,147
Oct. 18, Des Moines	110,000

The number of dwellings burned was 2,089 and the loss on buildings was \$1,025,334, and on contents \$363,789.

The sound value of these dwellings was reported at \$4,914,608 and that of their contents at \$1,114,044.

The number of barns burned was 605 and the loss on buildings was \$626,179 and on contents \$490,975.

The sound value of the barns was reported at \$674,685 and their contents at \$563,666.

The number of stores burned was 253 and the loss on buildings was \$356,736 and on contents \$917,811.

The sound value of the store buildings was reported at \$1,853,700 and that of the contents at \$2,710,911.

The number of factories burned was 61 and the loss on buildings was \$143,738 and on contents \$284,131.

The sound value of the factory buildings damage was reported at \$741,518 and that of their contents at \$1,495,621.

Ninety-six (96) deaths were reported as the direct result of fire. Of this number 42 were women and 34 were children. In 49 cases fatal to life, gasoline or coal oil was involved.

Inspections of buildings and premises by myself and regular deputies to the number of 684 were made in 124 different cities and towns in the state, upon the basis of which there were issued 174 orders to remove buildings, 54 to repair buildings, 77 to change, 55 to clean up and repair, and 159 to clean up inflammable rubbish.

In addition to the foregoing, 1,946 inspections of grain elevators, mills and food storage plants were made by 69 inspectors who were duly appointed by me with the approval of the executive council of the state. These inspections were made in 951 different cities and towns in 93 different counties of the state.

Upon the basis of these inspections, reports of which were made to us, 433 orders were issued by this department.

One hundred sixty-five (165) suspicious fires were investigated in 113 different places in 63 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, eighteen (18) arrests and prosecutions were had during the year 1918. Of the cases that were tried or in which pleas of guilty were entered, thirteen (13) resulted in convictions, six (6) of which were sentenced to the penitentiary or reformatory, two (2) were committed to the industrial school at Eldora, four (4) to hospitals for the insane, one (1) to the institution for feeble-minded, and two (2) were paroled by the court after sentence.

Of the other prosecutions, one person indicted died before his case came to trial, one was tried and acquitted and one indictment is still pending. Appended hereto as a part of this report are five tables which set out in detail not only the reports of fires, but the work of inspection and investigation done by this office.

GENERAL REVIEW.

In making this, my eighth and last annual report of my official acts and of the affairs of my office, I trust I may be pardoned if I speak at length concerning the creation and history of the office of state fire marshal as well as of the various lines of activity pursued during these years that I have been charged with the duty of directing the work.

The state fire marshal law was enacted by the Thirty-fourth General Assembly and was known as Chapter 128.

The bill for the act was originally introduced in the house by Hon. W. L. Harding, our present governor, who was then a member from Woodbury county.

After passing the house, it was, in some respects, amended in the senate, the main changes being in cutting the annual appropriation in two and in reducing the salary of the state fire marshal.

This law was not the result of any hasty impulse, but its enactment had frequently been urged by persons who were acquainted with the enormous fire waste of our country and state, which at the present time exceeds \$2.50 per capita per annum as against an annual per capita fire loss in the civilized nations of Europe ranging from 19 cents to 35 cents.

The present Iowa law is fashioned very largely, if not entirely, after that of Ohio, where an independent fire marshal's department similar to ours has been in operation for over eighteen years.

At the present time there are thirty-three (33) states in which there is a fire marshal's office or department. There is a fire marshal's department in the island of Hawaii as well as in the District of Columbia, also similar departments in four of the provinces of Canada.

immediately upon my appointment to the present office, of which I took charge on July 4, 1911, it became my duty to outline the various activities along which the law intended that I should operate; to formulate blanks both for reports and for inspection work; to prepare an educational bulletin for use in the public schools of the state, containing outlines of instruction in the

STATE FIRE MARSHAL

causes and dangers of fire, as well as giving general directions for the conducting of fire drills; to prepare blank books for the records required by law to be kept in the office; to formulate and direct the methods to be pursued in the investigation of suspicious fires and in the securing of evidence relating to their origin.

A fourfold duty is placed by law upon the fire marshal and the work growing out of this duty may be briefly designated under the following heads:

THE STATISTICAL WORK.

Until the establishment of the state fire marshal's office and the provision for the collection and publication by that department of certain data pertaining to fire losses there had been no office or other agency in this state concerned in securing this information except the companies and associations doing a fire insurance business, 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 must at once conclude that the only approximately 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 inspects the fire and makes the report. The other reports as to losses and damage come from the insurance companies or associations entirely.

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 their 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 REMEDIED 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.

INSPECTION WORK.

Section 2468-j, Supplement to the Code, is one of the most important as well as one of the most sweeping of all of the many provisions contained therein.

From a careful reading of this section it will be seen that in the matter of making inspections of buildings and premises and issuing orders based thereon, the state fire marshal has both original and appellate jurisdiction, but that chiefs of local fire departments and township clerks of the territory outside the incorporated cities and towns have as much power as is possessed by this office in the premises.

Under this provision of the law this office has, during a period of seven and one-half (7½) years made 4,203 inspections, based upon which it has issued 971 orders to remove buildings, 504 orders to repair buildings, 617 orders to change, 315 orders to clean up and repair, and 1,154 orders to clean up inflammable conditions. In addition to these, 3,605 inspections were made by special conservation inspectors during 1917 and 1918.

In the discharge of this duty, the department has aimed to be diligent and still just, having due regard for the property interests and rights of the people, and at the same time keeping in mind the danger to adjoining property which a special fire hazard or fire trap presents.

STATE FIRE MARSHAL

As a rule the office has secured excellent co-operation in this work upon the part of most of the fire chiefs. Ready compliances have been made in perhaps ninety per cent of the cases where orders have been issued. In a few cases it has become necessary to institute proceedings or threaten to do so, but up to the present time there is no record that in any cases have our orders been set aside by the courts.

This is largely due to the fact that the office has had the hearty co-operation of many of the city officials as well as of the better lawyers in the cities and towns where removal or clean-up orders have been rendered necessary.

However, the work of issuing orders direct only represents a small fraction of the work that the department has actually set in motion, for in many of our larger cities they have local fire marshals or fire inspectors working in harmony with this office, who make it their duty to inspect buildings and building conditions.

When especially difficult problems have presented themselves, particularly in the smaller cities and towns, such as the removal of buildings or a material change in conditions, the local fire department has usually called upon the state fire marshal for assistance, and to this call we have invariably responded.

Under the provisions of the section cited, we have held, and I believe rightly, that we as well as the fire chief are authorized to remedy all especially fire hazardous conditions. In this we have included.

The storing and handling of gasoline and other inflammable and explosive oils in business buildings and residences;

The improper placing of furnaces, stoves or other heating plants;

The permitting of smoke stacks, chimneys or flues to become out of order so as to cause a fire;

The improper installation of electric and other lighting systems, and the improper or incorrect wiring of buildings;

The maintenance of uncleanliness in basements, back rooms attics and near buildings such as would easily start a fire;

Improperly constructed booths, inadequate exits, and other fre hazardous conditions in motion picture shows and other places of amusement. Attention to these matters are of the utmost importance, not only to the safety of property, but to life.

In addition, our inspections have covered fire departments and fire apparatus wherever we have gone, 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.

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

INVESTIGATIONS AND PROSECUTIONS

The law makes it the duty of the state fire marshal when in his opinion further investigation than that made by the officer reporting the fire to him is necessary

"to take or cause to be taken the testimony under oath of all persons supposed to have knowledge of any facts, or to have means of knowledge in relation to the matter in which an examination is herein require to be made, and shall cause the same to be reduced to writing. If the state fire marshal shall be of the opinion that there is evidence sufficient to charge any person with the crime of arson, or with the attempt to commit the crime of arson, or of conspiracy to defraud, or criminal conduct in connection with such fire, he shall cause such persons to be arrested and charged with the offense, or either of them, and shall furnish to the proper prosecuting attorney all such evidence, together with the names of witnesses and all of the information obtained by same, including a copy of all matter and testimony taken in the case."

It is unnecessary for me to emphasize the importance and indeed the difficulty of the duty with which the office is here charged.

During the seven and one-half years ending January 1, 1919, 1,282 fires were investigated by representatives of this office. These investigations were made either at the request of the chiefs of fire departments, mayors, township clerks or interested property holders.

As a result of these investigations, 176 prosecutions were instituted resulting in 110 convictions and 44 acquittals.

While we have succeeded in apprehending and securing the punishment of a number of the criminals of this class, we confess that many guilty have escaped. Some of this is due to a lack of men and means to obtain evidence, but much of it, indeed the greater portion of it, to helpless law enforcement which exists in too many localities of our state, and the cumbersome method of criminal procedure which is still a part of our jurisprudence.

After a case has been investigated and evidence of guilt which is almost overwhelming has been secured, the case is placed before the county attorney. Here our first skirmish begins. Too often this official is inexperienced; sometimes he is timid, and it is frequently quite a task to convince him that it is his duty under the evidence to have the matter investigated by the grand jury of his county.

Granting, however, that we successfully pass the first barrier, we next come to the grand jury. This body invariably listens with patience and interest to cases of this kind, but too often are loathe to indict where the charge is "burning to injure the insurer." Sometimes the men on the grand jury want somebody to guarantee a conviction, otherwise they say that the prosecution will incur a needlessly heavy expense to the county and therefore they fail to indict.

Suppose the second stage is passed and the indictment is returned in due form, the accused is apprehended, secures a lawyer, and if he has money or means, he usually gets the best lawyer in the county or in the adjoining county and prepares for battle. Usually his first move is for a continuance, for delay in going to trial invariably inures to the benefit of the accused.

In the meantime he and his friends are busy interviewing the witnesses for the state and if possible creating a sentiment in his favor. Finally, after a long delay, the case comes to trial; some of the witnesses have gone away, others have been seen and as a result the state is unable to present as strong a case as it would if it were tried immediately after the indictment was returned.

In the matter of instituting prosecutions, we have exercised the greatest care to the end that no innocent person should suffer, but where we have become satisfied of the guilt of the party we have done everything we could to bring him to justice without fear or favor.

In not a few cases investigated by this department we have found that there was no evidence whatever of incendiarism, and when we have so found, we have invariably set matters right so far as we were able. But in a number of other cases investigated, while we were morally certain of the guilt of the party, the legal evidence obtainable was not sufficient to warrant a prosecution because such prosecution would undoubtedly result in acquittal.

Nevertheless, we have felt and been assured by people in a great many localities that these investigations did good, for in many cases they got so close to the guilty party that they not only stopped him from having further fires but also created a sentiment in the locality that there is an agency in the state looking especially after such matters.

EDUCATIONAL WORK

In the scheme of fire prevention I mention last but by no means as the least, the educational work required by law to be carried on by the state fire marshal's office.

Not only the children, but the adults need to be reached by education. To this end I have made it my business to get in close touch with chiefs of fire departments, mayors, township clerks, and others especially charged with looking after fires to see to it that greater fire preventive measures are taken and enforced in their various localities.

I have also delivered a great many addresses on fire prevention in various parts of the state before conventions of business men and others, also before commercial clubs, teachers' institutes, and other gatherings.

I have made use of fire prevention day and the proclamations issued by the governor to stir up and keep alive fire prevention sentiment.

In the line of school work I have endeavored to faithfully carry out the provision of law requiring fire drills and the teaching of the causes and dangers of fires by having prepared and issued a bulletin which has just passed through the fourth revised edition and been forwarded to the various teachers and superintendents of the public schools of the state.

At least once a year I have made it a business to circularize the superintendents and principals and urge upon them the duty and indeed the necessity of giving strict attention to the carrying out of this law.

The instruction given in the bulletin which I have prepared is,

in my opinion as well as in the opinion of prominent school men to whom it has been submitted, of an eminently practical nature

I have great faith in the effectiveness of our public schools and in the enduring effects of sound common sense thoroughly inculcated in the minds of the children who attend the same.

Not a few school buildings burn during each year. Some of these fires started while the children were in the building. I have had reports from several such cases and they were invariably to the effect that when smoke, indicating fire, was first discovered, the fire drill bell was sounded and the children marched out to safety in an orderly manner.

Not only are fire drills valuable because they enable the pupils to save their lives from impending fire, but are if possible of more vame because they have a tendency to fix a habit of coolness and orderly conduct in the face of danger.

As a part of the educational scheme of the office, both with respect to children and adults, I have invariably placed the safety of life above that of property and the state is to be congratulated that during recent years there have been no holocausts or great destruction of life by fire.

FIRE PROTECTION AND FIRE PREVENTION

FIRE PROTECTION.

In the popular mind these two terms are either considered synonymous or else confused with each other. As a matter of fact they are as separate and distinct as the maintenance of a disciplined army and the education of our people in the principles of true patriotism.

Fire protection finds its tangible expression in an organized and well equipped and well disciplined fire department with ample water supply, prompt and efficient alarm service, and sufficient pressure to apply the extinguishing stream with effect to any fire great or small.

As fires are bound to occur even with the exercise of the greatest care, such a department is made absolutely necessary and is usually provided for in every city, town and even in some of the villages.

While only in the larger cities are there the so-called paid fire departments whose organization and equipment are usually of a superior character, many of the smaller towns and even villages have volunteer organizations whose effectiveness deserve the highest praise

Eight years ago, before the organization of this department, it is safe to say that there was not a motor truck in use in a single department in the state. Now, these are in general use in all of the larger cities and even in some of the smaller towns, having supplanted not only the horse but have also taken the place of the men who in former days used to pull the hose cart and other fire-fighting apparatus.

During these past eight years there have also been numerous smaller towns and villages that have established fire departments by first securing ample water supply, mains, and afterwards hose and other necessary accourrements.

As the efficiency of an army depends very much upon its general, so the efficiency of a fire department is largely dependent upon its chief. If he is a clear-headed and courageous leader, one who has not only the confidence but the goodwill of his men, the department will be efficient. If, on the other hand, he is timid or hesitating—especially if he is fearful of giving offense in the discharge of his duties to politicians or property owners, his service to the people of his city will be of an inferior quality.

It has been my pleasure to meet personally many, and by correspondence many others of the fire chiefs of this state during my term of office, and in most instances I have found them to be men who not only knew what to do in fighting fires, but persons who were or did become actively interested in fire prevention, and I desire here and now to acknowledge the uniform courtesy and support of the chiefs of the fire departments of this state which have been accorded to this office, and without which support and co-operation much of the good that we have been able to do would have failed of accomplishment.

FIRE PREVENTION.

Important and necessary as is fire protection, fire prevention is of equal importance. Someone has aptly said that a child's education should begin a hundred years before he is born. Paradoxically it might be stated that the best time to put out a fire is a year before it starts.

The basic principle underlying fire prevention is better buildings. Iowa has passed out of the pioneer stage and its days of building wooden shacks and shanties ought to be forever past.

The problem of sheltering comfortably the future generations must in my opinion be solved by getting building material out of the ground and light and heat out of the air.

Under the laws of Iowa as at present constituted, cities and incorporated towns have ample power to provide a building code. They also have power to provide by general ordinance for a fire limit district and also to prescribe of what material the buildings in that district should be erected, not only as regards external construction but also as regards internal arrangement.

The inspection of old dilapidated buildings made by this office has been referred to in another part of this report. Inasmuch as a picture tells much better than words can describe the appearance of some of the buildings and building conditions with which we have had to deal, I deem it proper to submit several cuts of some of the old and dilapidated buildings against which removal orders have been issued.

This department has been diligent in impressing upon municipal authorities their duties in respect to providing better building ordinances, and especially in enforcing rigidly those already in existence, but I confess it has been a very tedious task to secure general attention to this important subject.

In connection with the erection of buildings there should be the most rigid inspection by a duly constituted municipal officer of the construction of all chimneys, the installation of the heating plant, and also of the electric wiring where electricity is installed.

Next in importance to properly constructed buildings is the question of care and cleanliness. Experience has demonstrated that the average business man or housekeeper is quite generally careful as to the condition of his show window and his front room, but exceedingly careless and indifferent as to the condition of his basement, attic or storeroom.

When we consider that from seventy-five to eighty per cent of the fires originate on the inside of a building and usually in the basement—sometimes in the attic, it becomes of the utmost importance that regular periodical and rigid inspections of every place of business should be made by one having authority to do so, and where inflammable conditions are found to exist, the same should be ordered removed or remedied.

In addition to the matter of properly installing electric wires and making such wires of sufficient size to carry a current with safety, the question of the proper storage and handling of gasoline and other highly inflammable oils which are used to a greater or less extent in nearly every family, becomes a most vital one.

These two hazards, the unsafe installation of electricity for light and power, and the careless handling and storage of gasoline and other inflammable substances, have greatly increased the fire hazard, not only in our cities and towns, but also upon the farms.

Elevators, mills and farm barns are especially subject to the lightning hazard which hazard may be very largely reduced, if not entirely prevented, by the installation of a properly constructed lightning rod. Every well equipped elevator, mill and barn should have water barrels and buckets and chemical extinguishers for use on gasoline and electric fires, a fire axe and ladder, an electric lantern, a number of good brooms, a small fireproof room for storing odds and ends, extra fuses where electricity is used for light or power, and above all, a careful manager who keeps everything clean.

The automobile should not be stored in the barn, nor should the gasoline supply be placed therein.



Fire Hazard, Vail.



Page Eighteen Store Building, Cedar Rapids.



Store Building, Anamosa.



Store Building, Lucas.

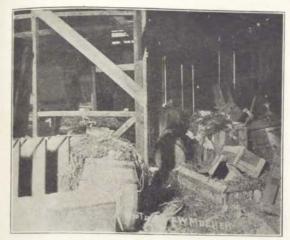
Page Nineteen



Barn, Centerville.



Page Twenty - Fire Hazard, Olin.

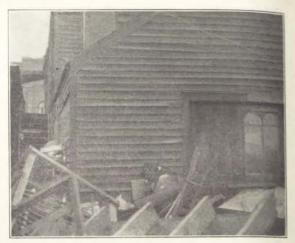


Fire Hazard, Waverly.



Livery Barn, Delta.

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Fire Hazard, Estherville.



Page Twenty-two Old Store Building, Mason City.



Fire Hazard, Coin.



Warehouse, Anthon.

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FIRE PREVENTION AND INSURANCE.

That fire insurance has become an economic necessity to every property holder is so self-evident that it needs no argument.

The business of fire insurance is simply that of collecting money from the many policy holders and distributing the same among the few who may have sustained losses.

In addition to the loss paid, the cost of insurance includes the commission to the agent who solicits the business, the expense of placing and keeping the risk on the books, the charges incident to adjustments, and the taxes of various kinds.

Gwing to the excessive fire loss in the United States, exceeding in some years \$2.75 per capita, the insurance cost in this country is exceedingly high.

The only way to reduce this excessive cost is to reduce the losses, and this is the purpose of the fire prevention movement. At the present time the state fire marshal's office is the only agency in the state which is devoted wholly and solely to fire prevention.

While in a sense there is a close relationship between the business of fire insurance and the work of the fire marshal's office, and that insofar as the office may have been successful in reducing our fire losses or in stemming their increase, its work has been beneficial to the business of insurance, but IT HAS ALSO BEEN BENEFICIAL TO EVERY PROPERTY HOLDER, as the ultimate result will and must be a reduction in the insurance premiums or assessments paid, for, in the end, the cost of insurance must be based upon the liability to loss, and as this liability decreases the cost of insurance must necessarily decrease.

In our complex civilization and as a necessary part of our rapid social progress, the agencies which cause fire are continually multiplying. Each of the more than 300,000 automobiles in this state, with their attendant gasoline supply, is a fire producing agency which was wholly unknown a few years ago.

The general introduction and use of electricity, not only as a mode of lighting, but of power and heat, is another agency which has largely increased the fire hazard.

The state has delegated the work of regulating these and other special fire hazards which threaten the property and lives of our people, to the fire marshal who is and should be the servant of all the people whether insured or not, for this office must continue to be, as it has been, one of broad, social and economic service and not one designed to promote the financial gain of some particular line of business.

BETTER HOUSING.

I am pleased to note that the idea of better housing has gained such headway that a movement for legislation along this line is now on foot in our state.

In my report to the governor under date of February 1, 1915, 1 made, among others, the following recommendation:

"A law prohibiting the leasing of a building as a human habitation unless it measures up to a certain standard both as respects sanitation and safety from fire."

Again, my report to the governor dated February 1, 1917, contains the following recommendation:

"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 compet 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."

I sincerely hope that comprehensive and effective legislation may be enacted relative to this important matter.

THE WAR FIRE HAZARDS.

To every officer engaged in law enforcement, the entry of the United States into the world war became a period of added responsibility and duty. This was especially true of the fire marshai's office.

The moment war was declared I foresaw the probability of increasing fire dangers, and I immediately set about to counteract them by putting fire chiefs, city officials and others on their guard, first against possible alien enemy activities, and secondly, against increasing carelessness.

While in some states there were undoubtedly many fires started by paid agents of the German government and their sympathizers or by others who were opposed to any and all forms of organize1 government; and while undoubtedly a few of the fires occurring in this state during this period were the result of design upon the part of alien enemies, these were, thanks to the loyalty of our splendid citizenship, so few that they made but a small part of the total.

In a few localities buildings were also undoubtedly burned or their destruction attempted because of ill feelings engendered by reason of differences concerning our entry into the war, or because of disloyal conduct or rank pro-German sympathies expressed by certain persons.

Fortunately, however, these cases were isolated, and now that the great conflict is over, it is to be hoped that neighborhoods will again settle down to dwell in peaceful harmony. For, if the war settled any one thing it is that in America all must be Americans with no divided allegiance or sympathy.

In addition to the war hazards just alluded to, there was a third which served perhaps more than the other two to increase the fire danger.

The needs of our country called to the colors more than 100,000 of our best and most competent young men. These came from the farm, the factory, the store, the shop and the office. Many of them left businesses requiring special care and skill. These positions had to be filled by inexperienced and less skillful workers which undoubtedly increased the carelessness which was already too great.

But even as war produced its peculiar and difficult questions, so does peace. In and as a result of the reconstruction following the war prices and values which have been and are abnormally high, wil! in many cases be lower. This will involve losses to some businesses and as business losses are always a temptation to fires upon the part of some, the greatest watchfulness and care should continue to be exercised by both insurers and others against fire

Conceal it as we may the fact remains that too many buildings or contents or both are annually sold to insurance companies through the agency of a fire, the origin of which is sometimes ascertained, but more frequently "UNKNOWN." This whole business of burning to injure the insurer is always a contemptible fraud, but when it results in the destruction of the building and

contents of a neighbor who has perhaps little or no insurance, or injures or destroys life as is sometimes the case, it becomes a crime that cannot be dealt with too severely

ARRESTS AND PROSECUTIONS

KINGSLEY, PLYMOUTH COUNTY.

On May 22, 1917, about two a. m., a fire destroyed the pool hall of Darrel Kindig.

During an investigation by this department an alarm clock and wires were found in the ruins. Other evidence was also secured showing the fire was set by Kindig for the purpose of collecting heavy insurance.

Kindig was confronted with the evidence and made a written confession to setting the fire by means of an electrical device which he had made in connection with an alarm clock and electric light wires.

Kindig was indicted and the case continued from time to time up to April 4, 1918, when he entered a plea of gullty to a charge of arson. He was sentenced to five years at the Anamosa reformatory but paroled to Sheriff Maxwell during good behavior.

ALGONA, KOSSUTH COUNTY.

On the afterroom of July 23, 1917, several fires occurred in the residence occupied by Andrew Benson. After an investigation by this department, Howard Kanouff, eleven years old, confessed to the setting of the fires.

The boy was taken into custody and the case continued from time to time up to December 16, 1918, at which time the evidence was presented to the court and the boy was adjudged guilty as charged. The boy being a minor was paroled to his father pending further action by the court.

COUNCIL BLUFFS, POTTAWATTAMIE COUNTY.

On the morning of February 3, 1918, a vacant dwelling belonging to Jone Halle was destroyed by fire. During the investigation by this deparament, Mary Haile, a daughter of John Halle, made a confession that she set the fire at her father's request.

Both Halle and his daughter, Mary, were indicted and plead guiltylialle was committed to the insane ward of the Anamosa reformatory for the criminal insane. Mary Halle was committed to the reformatory for women at Rockwell City.

The motive for the burning was to collect heavy insurance. Since commitment to the reformatory for the criminal insane, Halle has died.

NEAR KNOXVILLE, MARION COUNTY.

About midnight, February 21, 1918, a fire destroyed a barn and its contents belonging to A. R. Rowland. During the investigation, one Bob Davidson was suspected of setting the fire. Later Davidson was arrested

at Des Moines, taken back to Knoxville, and after having been examined by the commissioners of insanity, was committed to the hospital for the insane at Mt. Pleasant.

KEOKUK, LEE COUNTY,

On the morning of March 17, 1918, a fire destroyed a shed belonging to Cora Holt (colored). One Ed South was arrested and waived to the grand jury. South was indicted and tried on May 6, 1918, at which time a verdict of "not guilty" was returned.

NEOLA, POTTAWATTAMIE COUNTY.

On the night of March 19, 1918, a fire occurred in a barn belonging to the Hunter estate. During the investigation by this department, Carl Hummel twelve years ago, confessed to setting the fire. In April, 1918, Hummel was committed to the Industrial School for Boys at Eldora.

SIGOURNEY, KEOKUK COUNTY.

About 11:30 p. m., June 16, 1918, a fire broke out in the furniture store of Sam S. Schatz. Schatz was indicted at a special session of the grand jury and charged with setting the fire for the purpose of injuring the insurance company. Schatz died before final action was taken.

OTTUMWA, WAPELLO COUNTY.

On the evening of June 18, 1918, three fires occurred in the alleys in the business district of Ottumwa.

On June 19, 1918, a business house was broken into and one Richard Montgomery, a colored boy thirteen years old, was accused of "breaking and entering," and during the interview with the officers he confessed to setting the three fires referred to. The boy was sent to the Industrial School for Boys at Eldora.

DES MOINES, POLK COUNTY.

On July 18, 1918, Mrs. Mildred Harvey shot and killed her husband and then with the use of kerosene set the body and house on fire. Mrs. Harvey was sentenced to the Women's Reformatory at Rockwell City on November 19, 1918, for a term of eight years on a charge of "manslaughter."

SHELBY COUNTY.

About two a. m., August 1, 1918, two barns, a granary, crib, hog house and machinery house, together with machinery, hay, grain and stock were destroyed by fire which had been set out by the use of oily rags by Henry Bueck, the demented son of the owner and occupant, Adolph Bueck.

The son after setting the fires took his leave but was later apprehended and returned to the Clarinda State Hospital where he (Bueck) had previously been confined and discharged on August 14, 1916. Beuck began to show signs of insanity sometime previous to setting his father's property on fire.

RED ROCK TOWNSHIP, MARION COUNTY

On the night of August 7, 1918, a dwelling house belonging to Laban Hodgson and some sawnill equipment belonging to Andy French were destroyed by fire. During the investigation by this department, the evidence disclosed the fact that one Harve McNeeley had set fire to the sawnill equipment for revenge and this fire communicated to the dwelling.

McNeeley was indicted October 4, 1918, and on December 10, 1918, entered a plea of guilty and was sentenced to the penitentiary at Fort Madison for a period of five years.

UNION TOWNSHIP, FAYETTE COUNTY.

About 10:00 p. m., August 19, 1918, some grain stacks belonging to A. R. Crain were destroyed by fire. The investigation disclosed the fact that Mrs. Mary J. Crain, mother of A. R. Crain, and Mrs. Anna Lockwood, a sister of A. R. Crain, set the fire.

On August 21, 1918, both of the women were taken before the commissioners of insanity at West Union where they were adjudged insane and committed to the insane ward of the county farm.

BARNEY, MADISON COUNTY.

On the night of August 26, 1918, a fire destroyed a blacksmith shop owned and occupied by Corvin Vandewater. After an investigation by this department Vandewater was indicted on October 3, 1918, charged with burning the shop for the purpose of collecting heavy over-insurance. The case has not yet come to trial.

COUNCIL BLUFFS, POTTAWATTAMIE COUNTY,

About 12:30 a. m., October 9, 1918, a dwelling house and store building belonging to Mrs. Nancy Graves were destroyed by fire.

After an invectigation by this department, one Charles Robinson made a confession to setting the fires which was done for revenge. On October 16, 1918, Robinson was arraigned in superior court and waived to the grand jury Robinson was indicted on October 19, 1918, entered a plea of guilty and was sentenced to the penuentiary at Fort Madison for a period of twenty years.

DAVENPORT, SCOTT COUNTY.

During the fall of 1918, a series of fires occurred in the same vicinity in the city of Davenport. On October 10, 1918, one Vernon Henderson, a mentally deficient youth of twenty years, was taken into custody and admitted to setting nine fires. The only reason the boy would give for setting the fires was that he wanted to see the big red motor tracks go to the fire.

On October 11, 1918, the boy was taken before Judge Letts and was by him committed to the Institution for Feeble Minded at Glenwood.

VERNON TOWNSHIP, PALO ALTO COUNTY.

On October 25, 1918, a dwelling house owned by John Jackman, and occupied by Fred Miller, was destroyed by fire. Miller is a drinking man and

while under the influence of liquor is mean and quarrelsome. On the day of this fire Miller drove his family out of the house and then set fire to the building. Miller was arrested on November 2, 1918, and sentenced to fifteen days in jail for drunkenness. Later he was indicted and on November 20, 1918, entered a plea of guilty and was sentenced to the pententiary at Fort Madison for a period of fifteen years.

RECORD OF ARRESTS AND PROSECUTIONS FOR ARSON SINCE THE STATE FIRE MARSHAL'S LAW WENT INTO EFFECT.

July 4, 1911.

	Last six months of 1911	1912	1013	1514	1915	1916	1101	1918	Totals
Confessions on which grand jury failed to indict			2	-		5			7
Industrial School, Eldora		1		2	6	2	1	7	H
Hospital for Inebriates. Hospitals for the Insane. Institution for Feeble Minded.	1		9	+	2	1	1	4	13
Deported Pined			1			1	****		
Paroled by court after sentence			1		4	. 3	1	2	12
Jail Penitentiary Women's Reformatory	1	1	5	2.0	1	4	1	4 2	or May
Totals	6	9	19	16	17	24	n	15	110
Acquitted, defective indictment. Arrested, held to grand jury, no indictment. Died in jail before final action.			3	1	3 1	a			7
Dismissed by county attorney after indictment. Indicted, tried and acquitted. Indicted, cases still pending.	1	1	- 11	1 2	:9:	3 5	Y	8-1	10
Totals	ä.	1	8	10	21	12	5	D	72

STATISTICAL INFORMATION.

TABLE I.

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 fir's reported to this office for the year 1918 were as follows:

Months- N	o. Fires.	Loss.
January	688	3 617,324
February		394,959
March	621	750,341
April		572,676
May		671,250
June	229	309,413
July		509,858
August		690,976
September		607,645
October		491,641
Novemberi		476,664
December	241	348,624
		-
Totals	4,393	\$6,440,771

While the loss represented by the above figures is large, entirely too large for much of it could have been prevented, there is some encouragement in the observation that while the total fire loss of the United States for the year 1918 exceeded that of the year 1917 by nearly fifty million (\$50,000,000) dollars, the Iowa fire loss during the same period shows a decrease of more than \$775,000.

Prior to 1917, the highest fire loss experienced in this state since the creation of the fire marshal's office was that of 1913, during which year we had a loss of \$6,292,645. When, however, it is borne in mind that the prices and values of property subject to destruction by fire were, in 1917 and 1918, at least double what they were in 1913, it is a logical deduction that had there not been a decided stemming of the destructive fire tide which rose to its height in 1913, the fire losses of 1917 and 1918, measured by the same vardstick, would have been at least twelve million dollars annually instead of the figures given.

TABLE II.

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:

				FAIL	

Kind of Structure. N	umber.	Loss.
Dwellings	2,089	\$1,389,115
Barns	605	1,117,154
Stores	253	1,274,547
Garages	120	176,718
Sheds	104	8,073
Shops		91,036
Automobiles	78	10,520
Restaurants and cafes	62	77,939
Factories	61	427,869
Offices and office buildings	58	35,337
Totals	3,527	\$4,608,306

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 1917, we observe the following:

There was a decrease of 499 in the number of dwellings destroyed or damaged and the aggregate loss was \$174,732 less than in 1917.

The number of barns destroyed or damaged was 140 greater and the damage thereto \$230,993 greater than in 1917. Of the barns destroyed, 395 were farm barns resulting in a loss to buildings and contents of \$993,000, and 210 were city or town barns wherein the loss to buildings and contents was only \$124,154.

The number of stores destroyed or damaged was 132 less and the loss to buildings and contents was \$375,426 less than in 1917.

Fourteen (14) more automobile garages burned in 1918 than in 1917, but the aggregate loss was \$18,263 less.

There were 19 fewer schoolhouses burned and the loss or damage resulting was \$50,852 less than in the previous year.

There were ten (10) more factories damaged in 1918 than during 1917, but the resultant loss was \$45,368 less.

The same number of grain elevators, to wit, nineteen (19), were destroyed in each of the last two years, but the loss on buildings and contents was less by \$35,368 in 1918.

TABLE III.

This table contains a summary of the causes of some 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	924	\$2,712,588
Sparks from flue	850	278,910
Adjoining fires		820,194
Defective flues	309	408,722
Lightning	214	405,077
Spontaneous combustion	144	367,285
Smoker's carelessness		42,620
Children and matches		35,637
Incendiary and probably incendiary		162,254
Defective electric wiring	78	176,223
Totals	3,091	\$5,409,510

The fires due to defective flues were 147 less and the resultant damage \$163,480 less than in 1917. These fires are wholly preventable and ought to be greatly reduced.

Sparks from flues produced 244 less fires and \$113,709 less damage than in the previous year.

Fires caused by defective electric wiring were five (5) less and the damage \$85,784 less than in 1917.

The number of lightning fires were increased by 42 and the damage by \$124,144.

The fires resulting from spontaneous combustion were 14 more and the damage \$197,033 more than in 1917.

All of these last named fires are to say the least partially preventable.

The fires reported as incendiary or probably incendiary were nine (9) less and the loss therefrom \$4,917 less in 1918 than in 1917. It is an encouraging fact that the number of fires concerning the origin of which there has been any substantial evidence that they were the result of design has been materially lessened during the past two years. Some of this is undoubtedly due to the investigation of many fires, and the annual conviction of a number of persons of setting fires.

RECOMMENDATIONS.

I renew the recommendations heretofore made for legislation along the following lines:

 Provision for 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.

Because its uses are relatively in their infancy the general public has not learned the danger of electricity. When it shall realize that it is fully as dangerous to over-fuse an electrical current as it is to tie down the safety valve on a boiler, or to fry eggs on a gasoline stove set in a hay pile, more attention and care will be given to this matter.

- 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 a law providing that no shingle roofs be permitted hereafter upon buildings in cities of a certain class.
- A law regulating theaters and moving picture shows, specifying the construction of the booth, the number of exits, width of aisles, mode of seating, etc.
- Provision for the inspection of gasoline and carbide lighting systems.
- 6. Inasmuch as fully ninety per cent of the fire alarms in our 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. This office has been conducted with the most rigid economy. The employees are underpaid and the traveling and other expenses to which each one is subject have materially increased during the past year. Under these circumstances the small force that we have now employed cannot be maintained on the present appropriation, which should at least be increased to fifteen thousand (\$15,000,00) annually, and I would most earnestly urge that this be done by the present general assembly.

CONCLUSION.

On July 1st, next, my services as state fire marshal will end. While all of the work has been interesting, many of the duties discharged have been arduous. The war, with its many fire dangers, has added new responsibilities and new duties, but in and through it all I have enjoyed the good will and support of the neople of Iowa.

It has been my privilege to serve under three different chief executives and I desire here and now to express my heartfelt appreciation of the many courtesies and the generous support extended to me by Governors Carroll, Clarke and Harding.

To my deputy, Mr. J. A. Tracy, and assistants, Messrs. E. J. Frowick and H. G. Zimmerman, and to my chief clerk and stenographer. Miss Laura M. Pedersen, whose loyal and faithful services to me and to the state have been rendered without stint, I desire to make this public acknowledgment of appreciation.

The state fire marshal's office is no longer an experiment. If supported by the state as it deserves to be, its usefulness and influence for good will be more manifest in the future than it has been in the past.

The office came to me unsolicited and unsought. In my conception, public office is neither a "plum" nor a "snap," but a call to high patriotic service. To such service my best endeavors have been dedicated. I shall lay aside my official duties at the end of my present term with confidence in the future efficiency of the office and the kindliest personal feeling toward all.

TABLE NO. L.

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 for the Year 1918.

Counties and Cities of 10,000 and Over	No. of fires	Value of buildings and contents.	Dannage to buildings and contents	Total tositrance embaildings and con-	No. of fices partially covered by insurance	Excess of loss over insurance	No. of fires without	
Adair	26 15	\$ 119,500	8 47,175	5 70,790	13	20,575	4	F 2:200
Allamakee	15	33,125 73,255	27,668 36,510	18,450 49,050	11	10,975	I	300
Appanoose	-12	160,159	46,653	99,810	10	24,580	2	12,425
Audubon	21	109,815	72,265	38,145	12	16,784 41,845	10	3,150
Benton	1.6	:54,650	12,464	51,500	6.	4,080	5 3	1,680
Black Hawk Waterloo	77	625,555	EN 100		1000	20,000	100	14 7 (100)
Dat. Diack Hawk		623,082	92,102	579,290	13	19,300	7	1,730
	31	108,172	15,659	60,958	10	5,143	14	358
Bal. Boone Co	51 25	306,845	49,489	159,650	7	19,206	14	17,549
Bremer	15	119,785	83,431	72,400	14	29,660	4	760
Buchanan.	21	27,165 185,775	10,020	17,780 120,779	- 4	2,990	1	15
Buena Vista	42	157,810	82,192	79.185	15 17	60,201	3	873
Butler	20	40,022	17,907	19,527	12	39,925 8,755	7	8,275
Calhoun	20	57,145	18,020	23,779	4	14.881	3	1,200
Carroll	22	119,773 152,792	49,710	49,205	13	22,211	1	5,000
Cass Cedar	24	33,925	53,688	07,132	16	15,325	0.	4,625
	44	100,1720	15,680	21,150	0.	6.225	-1	825
Mason City_ Bal. Cerro Gordo Co	28	1,090,725	91,418	1,870,260	:10	1,740	4	276
Co	13	27,895	3,883	17,050	2	1,480	5	703
Cherokee	51	232,105	139,805	127 325	26	52,385	9	7,600
Clarks	18	40,250	18,750	26,545	9	6,300	2	30
Clay	8	27,612	19,637 7,625	12,050	18	12,887	3	2,075
Clarke. Clay Clayton.	43	130,050	67,202	18,355 62,340	4	3.185	1	190
	514	437,100	20,984	354,050	26	31,665	4	2,210
Bal. Clinton Co.	-19	29,510	10,777	19,278	6	2,485		1,110
Crawford	32	120,605	29,657	39,950	10	12,325	6	1.520
Dallas	42 26	185,399	108,515	74,064	17	49.325	12	1.840
Davis	20	59,835	36,176	23,660	71	17,745	11:	6,195
Delaware	n	150,725 44,145	23,266 24,500	63,350 27,540	.14	8,975	1	30
Delaware Des Moines	-	24,1440	24,000	24,090	4	4,480	3	598
Bal. Des Moines	37	353,700	30,734	204,794	-4	790	1.	50
Co	.8	22,475	16,905	9,700	4	9.825	1	4.000
Dickinson Dubuque Dubuque	75	12,418 535,664	6,390 86,716	8,403	6	2,779		235
				312,154	15	14,440	12	5,005
Bal. Dubuque Co.	10 26	37,850	51,529	29,625	.14	28,985	1	1,560
Emmet	56	202,070 148,070	83,520	131,650	13	21,300	1	330
Floyd	23	137,650	57,247 7,881	73,540 101,860	22	29,830	8	2.075
Franklin	21	85,100	41,425	49,700	1 0	13,500	1	1,425
Fremont	18	69,895	52,585	38,650	11	27,145	3	2,770
Greene. Grundy. Guthrie	29	61,401	29,858	28,201	12	14,992	6	585
Gurbal	31	110,005	60,448	62:300	.12	27,826		
Hamilton	25	215,477	116,368	90,750	20	54,007	6	8,235.
Hancock	9	35,877	49,122 31,802	56,842	13	24,330	3	6,906
Hardin	20	87,220	43,917	11,577 47,410	14	20,225	1	23
Harrison	49	140,962	51,504	70,237	17	15,934 20,807	11	1 1,400
Henry	18	65,737	12,273	30,450	7	4,639	i	200

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 con- tents	No. of fires partially covered by insurance	Excess of ions over lossrance	No. of fires without insurance	Loss
Howard Humboldt Ida Iowa Jackson Jasper Jefferson	15 17 13 18 50 52 17	27, 955 98, 053 61, 010 70, 303 74, 610 190, 052 110, 350	13,743 30,969 13,662 43,553 35,954 70,851 47,415	7,700 49,675 19,000 29,450 28,600 91,541 30,920	5 7 8 8 11 27	7,848 12,627 6,775 20,486 20,258 31,986 15,780		1,108 1,427 1,000 1,440 9,785 952 230
Johnson Iowa City Bal Johnson Co Jones Keokuk Kossuth Lee—Ft. Madison Kokuk Bal Lee Co	43 20 12 17 27 20 60 8	724,830 57,775 18,630 73,095 136,985 185,830 342,295 14,360	29,724 29,100 20,530 30,792 62,042 45,023 18,262 13,625	346,450 27,015 17,080 40,315 62,010 148,700 203,340 7,785	12 6 3 10 4 12 7	4,390 19,067 11,020 18,430 02,631 1,307 2,812 5,475	54 550	1,290 980 50 2,761 430 1,949
Linn— Cedar Rapids Bal, Linn Co Louisa Lucas Lucas Lyon Madison	120 23 24 29 15 22	1,372,610 56,350 96,726 69,777 26,095 37,965	103,322 24,735 60,637 37,487 19,510 23,408	1,012,600 18,263 26,755 43,450 12,115 21,805	18 15 13 11 11	4,640 12,380 37,824 14,432 8,985 9,395	6 3 4 3 12	805 17,995 1,480 375 85
Mahaska— Oskaloosa Bal. Mahaska Co Marion	15 26 42	112,800 80,220 88,332	42,667 63,980 52,156	58,600 12,130 38,915	4 15 25	10,500 37,465 26,487	4 7	500 4,505 4,585
Marshall— Marshall Co. Mills Mitchell Monona Monroe Montgomery	53 10 22 20 24 47 45	303,322 26,350 53,355 120,337 79,015 102,227 125,970	36,757 10,747 23,907 36,219 57,780 54,656 39,344	179,973 16,799 27,990 37,485 49,920 58,015 71,745	5 4 14 10 13 23 12	5,278 2,751 11,155 12,787 20,827 21,171 14,091	11 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,829 200 3,675 802 8,810 860 5,305
Muscatine Muscatine Co O'Brien Osceola Page Palo Alto Plymouth Pocahontas Polk Des Molnes	52 6 21 8 31 19 45 21 506	209 280 0 175 108 140 18 482 16 720 53 A50 194 209 54 900 5 309 314	89,385 8,575 72,179 10,507 29,038 21,550 60,975 43,558 761,604	152,543 4,370 58,453 6,425 53,250 30,155 107,565 20,865 1,733,879	10 4 11 3 14 9 17 18 40	12,390 4,605 28,353 6,175 12,706 79,420 21,976 20,385 52,026	2 2 2 6 11	1,372 875 7,000 400 3,630 3,700 3,920 7,725
Pottawattamie— Council Bluffs	121	169,689 713,325	128,486	69,625 626,651	10	19,925	12	3,455
Bal. Pottawat- tamie Co- Poweshiek Rimgold Sac. Sac. Bal. Scott Co- Shelby Sloux Story Tama Tama Tama Tama Tama Tama Hal. Wapello Co. Warren Wapello —Ottunwa Hal. Wapello Co. Warren Waren Waren Bal. Webster—Pt. Dodge. Bal. Webster Co. Bal. Webster Co.	17 19 31 42	111,906 87,455 69,872 81,505 1,449,255 69,409 27,419 100,035 19,740 101,908 60,815 296,230 131,908 60,815 296,230 131,908 60,815 296,230 131,908 60,815 296,230 131,908 60,815 144,943 144	XI 510 32 (0.0) 31 (0.0) 31 (0.0) 47 7545 47 7545 43 (1.1) 43 (1.1) 44 (0.1) 45 762 46 (0.0) 47 725 36 (0.0) 77 7065 54 (0.1) 48 427 65 650 287 423	64 417 47 096 29 855 32 852 980 675 19 355 12 985 64 164 59 990 40 895 11 475 111 623 29 735 22 175 90 367 60 690 11 55 11 65 29 735 20	25 16 11 14 6 7 10 13 9 0 14 13 17 11 11 17 11 17 17 17 17 17	32,251 11,477 16,102 17,843 5,641 14,303 7,250 25,891 10,685 7,800 21,826 11,670 2,750 2,7	6514513355461455514758	4,130 860 2,100 1,409 2,210 1,860 1,860 1,625 3,73 1,425 3,520 1,729 2,825 500 2,825 506 2,825 506 6,646 2,40 6,646 2,40 6,646

TABLE NO. 1-Continued

Counties and Cities of 10,000 and Over	No. of fires	Value of budidings and contents	Damage to buildings and contents	Total insurance on buildings and con- tents	No. of fires partially covered by insurance	Excess of loss over instrance	No. of fires without	
Winnebago Winneshiek Woodbury	17 16	70,758 55,670	33,631 23,293	37,376 29,440	8 10	14,188 7,555	5.1	F.175
Sioux City	272 32 10 20	2,305,730 194,129 24,070 97,140	281,407 160,346 14,225 30,625	1,402,166 82,895 10,255 46,825	24 13 5 8	21,784 98,784 7,105 14,725	30 4 1 6	65,550 3,125 700 7,250
Totals	4,393	827,015,791	\$ 6,440,771	\$16,801,213	1,407	82,251,787	540	\$354,405

TABLE NO. II.

Showing the Nature and Character of the Buildings or Properties Destroyed or Damaged, the Value of Each, the Damage Thereto, the Yalue of the Contents of Each and the Damage Thereto, the Kind of Naterial of Which Each was Constructed and Whichter the Loss was Tolal or Partial, for the year 1918.

	400	Build	Buildings	Con	Contents		Clba	racter of	Character of Buildings Affected	an Affec	per	
	14 30	0	ciatro	10	029	poo	201	2 grounds mass	Loss on Buildings	on	Loss on Contents	on
	*0N	mpA	Dam	трид	mad	M	211	40	Total	Partial	Tota l	Partial
Armories		15,000	\$ 10,000	1	00	3,	1			-9		*
Bakeries	O. C.	100,700	4,007		4,436	90	10	1	-	12.7	-	0.10
Barns Farm Barns Town	395	560,435	354,946	458,746	438,154	393	-	1	381	nte	22.5	609
Boats. Boat houses	+10	3,206	1,415		5,325	W 10				PETY	94	FR 64
Bottling works Brickyards, kilns and the factories Bridges	79 F + 12	184,935	170,925	248,516	134,904	(0.0)	71.00		*	nnv		*
Bridge construction building Cars—Box cars.	-52	25,00	1,307	9,350	*1.450	-119			1	-24	-	71
Coal cars. Dining cars.		22,000	3,500		300	nes				71 1		24
Flat cars Freight cars	P4 05 1	6,900	4,700			n st s			74 -	9-1		1
Passengert cars, Refrigerator cars, Street cars and interurbans		900 27	5,100	1,340	305	170			1	n p		· in
Way cars Churches	- 51	289,350	ELIN STATE	29,100	3,671	-=		-01	The	- 12	e	
City and township halfs Cleaning and dyeing establishment Coal bins and storage	-111	18,713	1,701		1,385	10	-1	61-	n	400	74 15	11
Coal mines Colleges and college dormitories Convents.	FN 10 11	30,000	10,135	8,000	0,130 8,130 82,230	24	-0		A4, 644	-	79.74	
Court houses. Creamery Dafries or milk houses.	-1-6	18,730	200	9,300	1,813	inmy	- 11 11 1		***	-11 -2	25 0	0.00
Depots	44		24,747		21/0/10	1 64	2 8	Accession in	4/1	9.00		

TABLE NO, II-Continued

	900.0	Buildings	ngs	Contents	ents		Ü	arnetse.	of Build	Character of Buildings Affected	potos	
	14 10	0	02(4)	a	0200	p	9	qua	Loss on Bulldings	on Ings	Low	Loke on Contents
	'0N	пред	mwQ	прид	maG	no.W	pag	18 20 ma _{.)}	Total	Partial	Total	Partial
Sittliery—Unused		1,000	1,000		-				-	Thomas .	-	
Flectric battery service station		200	200	7,300	311		1			-		
Electric meter box	19	173,300	80,312	116,013	65.217	18	1		10	- 50	+	12
Engine and boller rooms		8,830	2,960	11, 225	1 203	9 -	-	-	-	9	and 24	
Express office	7 77	6,000	1,000	3,600	800		-			I	-	
Factories—Button factory	90 P	30,750	95,832	31,000	26,000	40	7	1		-21		
Codar chest factory	-	4,000	300	12,000	.3,730	*******	1					-
Cement block plant.	pre	0,200	200	25,300	450	I	· ·	1			1	
Clay products factory	14.	10,000	8,500	20,000	17,000	-				-		
Coffee and peanut roaster fac-	-	15,000	1,968	19,205	8,438	-	-		Carles and Control	200		
Coffin factory	-	14,000	1,500	10,000	7,000		- Common	-			-	
Egg case and chicken coop	1	1,500	30	300	30					-	-	
Ford assembling plant	-	72 000	1,770	17,520	1,780		7.77	1		1		
Furniture factory	1	-		225,000	430		7					-
Gato factory	-	20,000	10				-					
	1		and the same of the	5,000	7.0	-		-	+11-(12)	-		94.
Hog tank factory		4,300	000,7	15,000	0,000		-				J	
Los cream lactory		2.300	252	2,500	125	1				1		
Mattress factory	71	10,000	30	8,500	230	1	100					24
Muning tools factory	-	2,000	000	20.000	20		-			-		1
Oatmeal factory.	*		150	275,000	275		7		******	ca.		24.4
Oll rodnery	and its	4 000	2,309	0.000	000,01		10					
Paper box factory		9,500	726	25,000	19		-					100
Paste factory Pickle and vinegar factory		25,000	25,700	54,061	48,867		1		1	100000		-
Pop factory Reguler factory		3,000	1,000	25,000	23,000	-	1000	ŀ	-	6		
Rendering plant.		1.000	3350	7,000	4,000							

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2,730 2,730 2,845 2,165 6,065 7,700		37 888 800 20 322 4 780 4 780 1,965	10,042 10,042 10,042 187,542 176,267 1,120 3,827 3,827 1,100	1, 252 17, 018 10, 739 10, 739 11, 000 11, 000 11, 000 11, 000
225,000 100,000 8,000 8,200 19,000 447	26,000 14,000 6,700 51,960 329,725	60 845 200 200 200 200 200 200 200 200 200 20	11 180 11 180 11 180 11 180 12 180 12 180 12 180 13 180 13 180 13 180 13 180 13 180 13 180 13 180 13 180 18 180 18 180 18 180 18 180 18 180 18 180 18 180 18 18 18 18 18 18 18 18 18 18 18 18 18 1	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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20,000 20	8,000 8,000 75,730 24,025 29,000 2,000 7,000	18 865 12,700 10,650 7,045 8,0000 8,0000	246 800 652 200 653 200 653 200 653 200 7, 000 140 200 140 200 140 200 140 200 140 200 140 200 140 200	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
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Relative Factory Studies and Control The Cantory The Cantory The Cantory The Cantory	Wason factory Wason factory Well driller factory Well driller factory Flagman's or operator's station Countries Grande Private Grande Private Grande Private Grande Private Grande Frivate Grande Grande Grande Station Frivate Grande Frivate Grande Grande Grande Station Frivate Grande Grande Grande Station Frivate Grande Gran	Transitives and corn or list. Trensitives and corn or list. Trensitives and the miss. The stands of the miss of the miss. The stands of the miss. The stands of the miss. The process.	Cooglals, Coogla	to bourse and the bourse and bourse and bourse and bourse bourse and bourse and bourse bourse and bourse bourse and bourse a

	RO1	Buildings	guige	Con	Contents		Cha	cracter c	r Buildi	Character of Buildings Affected	pata	
	1d Jo		0.271	-	029	-1	3	ius	Los	Loss on Buildings	Con	Loss on Contents
	on	onta'V	mwG	Value	mud	000M	doint	Cerne	Total	Partial	Total	Partial
Flour Planting and saw Planting and saw Planting and saw Modelin pleture theaters	-8-2	7,500 100,000 145,600	2,500 100,000 14,541	8,500 9,700 45,200	8,850 25,000 15,079		1 12			21		
Motordome Music conservatories	f 27) +	25,000	138	31,600	3,600	-	R				24	Ī
Nurse s nomes Offices and office buildings Off filling stations Off houses	8"=	1,016,050	840 840 5,531	95,900 7,200 6,965	23,586 1,865 5,570	-1200	45	ey.	e-0	Hann	¥ 10	204
M warehouse.		1,000	90	1,075	1,073	-				-	1	
Authorisms Acking plants Acking for memory areas	£1	672,750	12,120	980,500	23,575	0.04	*	-	9	tie:		2
hotograph galleries ool halls and bowling alleys	40	91,900	12,820	13,200	1,690	- ×	H1.		.5	-0-	m	***
op corn wagon ostoffices rinting and publishing plants.	-ME	4,400	2,500	218,764	1,000	Metal	01-30		01:21		-	11
Pumping stations Restaurants and cafes Round honors	the bar or	472,900	36,550	135,070	1,576 41,058	90-	- 51 **		72	*2*	- = -	ngo
Salvation Army home.		10,000	1,500	2,000	900	-	-					-
School houses.	87	2,000	128,006	6,000	19,949	N-	12		10	8-1	n 1	£ 1
Shods Shops Auto repair Barber	20 20	11,300	5,456	4,300	1,075	12.42	10.0		2-14	2000	17	277.2
Blacksmith	400	7,300	3,812	6,050	7,327	22.40.4			0	79.5	12 m	P.H.
Designation Harmest	E (5 m e)	0.000	1285	1000 1000 1000 1000 1000 1000 1000 100	1200		r to ni m				Ha	Fina

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4,260	6.510	0,175	2009	2,000	21,084	17,290	38,678	0,000	27 172	6 086	26,504	28,470	3,173	2,275	523	12,940	510,010	178 146	200	46,557	1900 000	3,513	1,450	400	12,208		8,373	3,000	1,170	120,023	73,266	to test	4 582	2002	4,168	2000	1 615	
198 360	22,200	27,000	0,000	3,000	P69'09	73,000	113,300	4,000	1965 864	22, 100	140.500	275 225	20,800	16,000	1,000	905,070	991, 897	296,000	2,300	171,000	10,000	18,500	9,450	2,000	72,000		239,400	142,500	2 500	122,300	246,780	4,100	20 000	1,500	12,500	2 0000	1 700	1,780
3.412	3,065	2,278	12 000	1,000	17,720	14,470	30,721	2,000	2,000	9.370	14,712	1.644	365	200	1,000	00.00	248-811	310,500		27,139	S. Oak	2,985	30	400	10,123	763	3,000	1,138	47.0	15,000	13,538		404		200	2,255	2,000	
57,100	38,200	15,700	14,000	1.500	100'66	34,500	112,500	3,300	000,000	28,000	100,800	200,000	41,500	4,000	With GOLD.	10,000	400,000	73,000		158,300	- APR 85.	11.900	10,000		000,000	4.800	8,600	5,800	3,500	21,000	26,600	-	12,000		27,000	33,300	42,000	
- is	11	*	57	-	43	*			111	4.0	17	10	9	00	-	ey	200	3	-	16	-	1 10	ri	7	114	24	G	251	2.0	101	10			-	01	0.0	ni fi	100
Paint	Tallor		Smoke houses.	Stone crusher	Storage houses.	pres-Auto accessories	Auto salescours	Book	Charles	Confectioners	Deng	Dry goods	Electrical supply	Flour and feed	Pruit	Furniture	Conserva merchandise	Grocery—Wholesale	Oun.	Hardware	Hab	Jawelre	Ladies' furnishing	Marble and monument.	Meat markets	Music	Notions	Paint and glass	Founty and produce	Seed saint	Shoe	Stationery	Tea and confee	Trensmittee axios	Wallpaper	Vacant	fudent barracky	Telephone and telegraph poles

TABLE NO. II-Continued

	53	Buff	Buildings	Con	Contents		Ch	aracter o	f Buildir	Character of Buildings Affected	ped	
	ид 10	ənp	олен	ong	ožen	poe	. Mo	ou tent	Los	Loss on Buildings	Los	Loss on Contents
	'0N	пД	Dan	ΨΛ.	naG	ik.e	Brio	Cem Ston Ston	Total	Partial	Total	Partial
up bar, see an artities, see and a artities, see and a artities, see and a see		1,000 138,500 2,100 1,000 41,000 10,100 1,510 1,510 1,510 85,000	1,000 2,100 2,000 2,000 2,000 2,000 3,000	1,800 1,600 1,900 1,900 29,000 237,273 19,000 15,000 25,000	1,030 1,030 1,730 1,730 1,030	Canvas -	Carryan 2 2 1 1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Canvas	- 0.8	NE 6-86-6 6-	0	H 181-19 1010 191-
Totals	4,393	\$16,973,014	\$ 3,344,433	4,383 \$16,973,044 \$ 3,344,433 \$10,062,747 \$ 3,056,338	\$ 3,006,338	3,674	200	34	1,339	2,708	929	1,822

TABLE NO. III.

Containing 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, for the Year 1918.

Causes	No. Fires	Loss
Adjoining fires Alcohol Jamp. Alcohol Jamp. Albes in basement Ashes in basement Ashes in wooden receptacle Ashes near old house Astembolie or motorcycle backfire Automobile wreck	319 1 33 5 1 1 27 2	\$ 820,104 1,149 4,944 1,073 500 82,838 4,819 1,764
Red too near stove How torch Bothe explosion Bothes Bourines Burning brish and leaves Burning brish and seaves Burning meadows or grass Burning meadows or grass Burning nucarbon in auto cylinders Burning rubbish Burning rubbish	2 10 2 40 6 6 1 28 1 55 2	405 10,040 70 16,462 6,844 3,068 75 9,030 25 22,478 1,280
Candle carelessness. Canvas under bood of engine. Charcoal fire. Charcoal fire. Children playing with fire. Clothing riese and decorations. Clothing near gas or gasoline stove. Clothing riese or bedding near stove or stovepipe. Coffee urn in restaurant. Collapse of building. Current left on electric auto. Currain blowing into flame.	4 1 1 80 5 1 1 2 26 6 14 1 8	1,643 20 880 35,637 3,100 908 146 160 5,419 4,184 24,695 1,700 1,704
Defective electric wiring Defective detertie wiring in street car. Defective freplace Defective flustor Defective not air pipes Defective not air pipes Defective oil or gasoline atove Defective oil or gasoline atove Defective store Defective	78 6 10 309 1 5 1 5 25 6 3	176,223 115 10,700 408,722 187 1,727 041 667 666 9,935 2,382 445 7,450
Electric fan carelessness Electric heater carelessness Electric iron carelessness Electric iron carelessness Electric washer carelessness Explosion of clothes dryer Explosion of dust in mill Explosion of gas heater Explosion of gas heater Explosion of gas slove. Explosion of gas slove. Explosion of gasoline slove Explosion of gasoline slove Explosion of gasoline slove Explosion of gasoline slove Explosion of oil heater	1 22 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	500 314 41,317 20 1.500 75 180 237 130 5.386 2,737 8,241
Feed cooker Filling auto gasoline tank by lantern light. Filling auto gasoline tank with motor running. Filling auto gasoline tank with motor running. Fireworks. Forest fire Friedrin of machinery. Filling autor gasoline tank with motor running. Filling autor filling fil	5 4 13 12 2 8 1 10	7,350 4,485 292 1,764 8,395 590 1,225 65 7,332

2,712,588

4,393 8 6,440,771

No.

TABLE NO. III-Continued

Causes	No. Fires	Losis
ias or gasoline iron carelessness	100	
as leak as stove carelessness as stove carelessness	1	3
as stove careleseness	i	- 3
asoline carelessness	3	2,
Asoline chains with	9.	-
assorte carresseems assortee carresseems assortee eriosating with assortee eriosating with assortee eriosating the eriosating with	- 6	13,
asoline lamp explosion	7	8,
asoline leak asoline or oil stove carelessness	1	
asoline or oil stove carelessness.	42	2.0
rease in ventilator	1	55
rease in ventilator rease on stove.	2	-
leating coal oil on stove	1	
eating linseed oil on fire	2	
leating paint on stove	2	3
esting paint on stove	2	- 8
	1	
ncendiary and probably incendiary	79	162 10
ack-o'-lantern	1	
Sindling or wood near stove or furnace	- 22	
A STATE OF THE PARTY OF THE PAR	11	-4
amp or lantern carelessness	7	- 6
amp or lantern court	11	- 5
eaky gas tank in auto	4	3
eaky gas tank in auto	14	35
lethtnine	214	400
Aghtning running in on wiring	6	-
ive coal carelessness	1	
Ive coals dropping from grate or stove	7	2
ive wireooking for gas leak with matches or torch	3 4	9
		57
fatch carelessness fotion picture films.	12	10
Il heating stove carelessness	23	. 3
ally rag or mop carelessness	9	- 5
olly rag or mop carelessness. Il stove near wall or woodwork	4	
Verheated cupola Verheated dryer verheated dryer pyerheated electric motor or dynamo verheated electric motor or dynamo	2	14
twentend dry cffs	1	1
iverheated electric motor or dynamic	9	
verheated exhaust	4	54
verheated flue	21	11
Everheated Furnace	26	7.5
rverbeated hot air pipes verbeated machine bearings verbeated oven in foundry	9	23
verheated machine bearings	1.1	
verheated oven in foundry	1 2	26
tverheated radiator and stoom place	2	.,
rverheated pullers rverheated radiator and steam pipes rverheated sterilizer	1	
Pyerbeated stove.	45	37
werheated stovepipe	12	- 2
Perheated stovepipe Perheated tabbing compound in press room	1	
aper covered flue hole	3 2	
apers on or near stove	3	
	1.	
	5	1.5
tubber covering over auto engine	3	- 3
tubber covering over auto enginetubbish in basement		- 19
tubbish in basement. tubbish in or near building. tubbish near stove or furnace.	2	
tubbish in basement tubbish in or near building tubbish near stove or furnace.	1	
tubbish in basement tubbish in on enar building . inbbish near stove or furnace, caffold near smoke stack thort circuit in auto wiring.	1 17	1
tubbish in basement tubbish in on enar building tubbish ner stove or furnace tubbish near stove or furnace tudfeli near stove or furnace tudfeli near sunde stack thort circuit in auto wring tunder's carelessuess	1 17 94	45
tubbish in basement tubbish in on enar building . tubbish near stove or furnace, teaffold near smoke stack thort circuit in auto wiring tunker's carelesaness tunker's carelesaness	1 17	45
tubbish in basement tubbish in on ear building tubbish in or near building tubbish near stove or furnace tubbish near smoke stack. Carfold near smoke stack. Carfold near smoke stack.	1 17 94 32 1	45
tubbish in basement tubbish in on ear building tubbish in or near building tubbish near stove or furnace tubbish near stove or furnace tubbish near smoke stack there is the stack the trivial of the stack to the st	1 17 94 32 1 2	45 31
tubbish in basement tubbish in on ear building tubbish in or near building tubbish near stove or furnace tubbish near smoke stack. Carfold near smoke stack. Carfold near smoke stack.	1 17 94 32 1	45

Causes	No. Fires	Lon
parks from flur	850	278,91
parks from flue hole	4	31
parks from gasoline engine	4	5.13
parks from locomotive parks from nail in shoe when boy jumped on steel tank containing	68	43,93
gasoline	1	2,60
parks from pipe igniting gasoline	1	63
parks from storage battery	10.1	- 1
parks from stove or furnace	9	30,21
parks from traction engine	23	21.47
parrow's nest near chimney	1.	-
Cobs on damp sawdust	1	5.50
Coal	53	69,67
Corn fodder	2	4.41
Clothes chute	3	75.00
Dust		1
Excelsion around water pipe	1	N
Hay	25	60.7
Kindling in damp basement	1	31
Lame in hog house	1	1
Manure	2	2.6
Oil and paint	2	3
Oily rags and clothing	27	43.5
Retarder factory	1	2
Rabbish and rags	19	14.7
Sawdust in ice bouse	2	2.5
Seed house	1	135.0
Ntarch works	1	
Sweeping compound	2	11.5
tarting fire with coal oil	10	4.8
tarting fire with gasoline instead of coal oil	3-	3
tatic electricity		1.1
tove explosion of blow out	7	22.0
tore too near unprotected wood or wall	46	9.1
tove in barn	1	5.0
love upset	3	0.0
tovenine through wall or roof	45	28.3
overlipe too near unprotected wood	9	1.2
in's rays through window	3	4
apposed mice and matches.,,	10	7.0
should miss mist americal to the state of th	4.00	4740
ank heater	2	7.0
ar kettle beiling over	1	
hawing frozen barrel	1	
hawing frozen water pipes	24	2.7
hieves stealing brass fixtures	1	2
orch carelessness	4	7
ornado	1	1.5
rain wreck	2	9.2
Tamps	1	41
X	(2)	100

Vulcanizing machine....

Warming auto engine with fire....

TABLE NO. IV.

Giving the Cities and Towns in Which Inspections of Dilapidated Buildings and Inflammable Conditions Have Been Made During the Year 1918, the Number of Places Inspected at Each Point and the Number and Kind of Orders Issued in Connection Therewith.

Adel	repal repal
Ames	.1
Anamosa July 18 1 1 1 Anathon March 27 2 2 1 1 Anathon March 27 2 2 2 2 1 1 1 Anathon March 27 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
Anthon. March 27 2 2 2 2 3 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	******
Aurella. Oct. 3 1 1 Barnes City Peb. 14 1 1 Bartele Creek Dec. 20 1 1 1 Bornes City Peb. 14 1 1 1 Bartele Creek Dec. 20 1 1 1 Bornes City Peb. 14 1 1 1 Bornes City Peb. 14 1 1 1 1 Bornes City Peb. 14 1 1 1 1 Bornes City Peb. 14 1 1 1 1 1 Bornes City Peb. 14 1 1 1 1 1 Bornes City Peb. 14 1 1 1 1 1 1 Bornes City Peb. 14 1 1 1 1 1 1 1 Bornes City Peb. 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	******
Static Creek Dec. 20	
Static Creek Dec. 20	Discussion of the last
Serkley Jan. 20	The state of the last of
Internal March 21	*
Identifield	
Iristore	57.50
Iristore	10000
Surface Surf	
Surfington March 19	2
Surfington Oct. 17	2331233
Asson March 2	200
Asson March 2	
Arson Oct. 24	
Sept. Sept	1
Telegraphic March 21	A
celar Rapids	
centerville	
Content Cont	
Tharlison	1
Description May S 9 7	
Parker City	1
Durdan Aug. 14	
Incinnat	
Marence Nov. 12 10 6 10 Harinda Oct. 29 15 5 Harinda Oct. 29 15 5 Heghorn Dec. 20 8 1 1 Loon Rapids Jan. 16 3 3 Loon Rapids Jan. 16 3 3 Loon Rapids March 7 2 1 Loon Label Loon Loon Loon Loon Loon Loon Loon Loon Loon Loon Loon Loon Loon Loon Loon Loon Loon Loon	
Starinds	ACCUPATION AND ADDRESS.
Door Rapids Jan 16 3	
Noon Rapids	E 14222
Oursectionville March 26 2 1 1 Oursectionville July 3 2 1 Ouncell Bluffs March 5 4 1 1 Ouncell Bluffs March 8 2 1 Ouncell Bluffs March 8 2 1 Ouncell Bluffs April 12 3 3 1 Ouncell Bluffs Aug. 9 4 4 Ouncell Bluffs Oct 16 2 Out Ouncell Bluffs Oct 16 Out Out Out Out Out Out Out Out Out Out Out Out	2000
Occession	
Souncell Bluffs March 5 4 1 1	
	10000
Year	
Jounel Bluffs	
Oct. 16 2	
Preston	
President Oct 29	
Des Motines Jan. 25 1 1 1 1 1 1 1 1 1	477744
Jes Moines Jan. 25	
Des Moines Peb 5	
Des Mottes Marc 13 1 1 1 1 1 1 1 1	
Des Moines April 2 1 1	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Des Moines. April 5. 1	
Des Moines April 24 1	1
	arrange Villa
	24444
Day Moines June 7	1
Des Moines. June 11 4 1	1
Des Moines June 11 1	
NE ALDERS	
Des Moines June 14 14	
Des Moines July 3 1	
Des Moines July 3 21 1 a	
Des Moines July Ir	STREET, STREET, STREET,
Des Moines July 23 1	
Der Molnes Aug. 19 1	100
Des Moines Aug. 20 7 1	2

TABLE NO. IV-Continued

			toms					
City	D	tas Cer-	Number	Bemove	Repair	Change	Cleanup and repair	Cleansp
Des Moines	Nov.	8	11	5			2	
Then Moltres	Dec.	12	- 1	1				
Des Moines	Dec.	26	2					
Des Moines Dodge City	Feb.	19		*****				*****
Drakeville	Sept.	12	15	1224000	*******	9.	1	3
Dubuque	April	2	î			1		*****
Dabuque	Oct	29	1				1	
Dunkerton	April June	24	3	3				
Dyeraville	anne	ñ	1	1		*******	*******	
Eagle Grove	July	15	4	-		2	1	
Eldon	April	did a constal	1	1				1
Eldon Estherville	Aug.	Warner of	2			1		- 1
Estherville	Oct.	21	1	1				
Fairfield	March	10	5	1	1	1		
Fairfield	Nov.	22	3	i				- 1
Farley	Oct.	28	1	1				and the
Forest City	July	16	15					5
Fort Madison	Oct.	12	9	vica i inca		1	2	- 6
Gladbrook	Jan.	22	7	La resident		2		
Grand Junction	Feb.	27	9	3				4
Grand Mound	Nov.	Advenue.	- 6	1 2			1	1
Granger	March	25	2	*****				
Gravity	May Aug.	9	1	*****	******	******	10111111	
Guttenberg	July	31	1 2	2	*******	*******	*******	
Commence of the second		0.00				13,000,000		
Harper	March	9	1	1				
Harper	July Sept.	2	3	distance)	2		1	
Hartley	Oct.	23	1	-100000			1	- 1
Hastings	Oct.	29	5					
Humboldt	June	19	2	2				
Ida Grove	May	-0	12	1 2	-140,000	20000	0.2700.	
Ida Grove	Oct.	9		i	The state of	-2412540	200200	
Indianola	Feb.		2 3		1	1	1	
Irwin	Oct.	17	1		anni.	1		
Jefferson	Jan.		1					
Jefferson	Oct.	10	8	1		6		
Kiron	March Sept.	13	1	*******	*******	1	*****	************
Kiron	Dept.	30	1			******		
Lanesboro	March	13	1.	1				
Lawler	Nov.	13	- 6	2	2	******		
Leon	May	23	8		2	1417414	2	
Livermore	Sept.	19	10	1		4	2	
Logan	May	. Vacanta	1			1000	Section .	
Luserne.	Feb.	26	2	2				
Lyons	Nov.	13	- 6	2		*****	2	
Manchester	April	3	11	2				1
Marengo	Dec.	3	1					
Marton	Sept.	28	1	1		*******	····i	*****
Marshalltown	Nov.	14	- 3	2	*******	*****	1	
Mason City	March	17	1 3	2	******	******		
Makin City	Sept.	18	- 1	1				
Attnio	April	3	- 8	2		1		
	Aug	23	2	*******	******	******	1	1
Missouri Valley	Jan.	7	1 5	******	******		1	1
Monteguma	May Feb.	15	20	3	1	1		3
Montexuma	Nov.	20	6		2			
Monticello	Feb.	20	2			******	*******	3
Mount Vernon	Nov.	13	3	******	,,,,,	1		2
Murray	Jan.	9	1	1	1	*******	TERRITOR	PPAREER
Muscatine	March	20		3			1	

TABLE NO. IV-Continued

		ate	Number Inspect	Remov	Repair	Change	Cleanu and ropair	Свеминр
Neola	March	29	12	4	2		1	
Oakland	June	20	2		1	1		
Ocheyedan	Nov.	*****	1	*******	******		1	
Delwein	Ang. Sept.	22	6.1	1	*****	*******		
Delwein	Feb.	28	1	*******	******	1	*******	
Psage	Dec.	11,	3	****	THUTTERN	1	Secreta	
Dsage	Dec.	13	2	î		******	*******	
Diccola	Jan.	18	2	Internal	********		*******	******
Dsceola	July	8	11	- 5		2		
Dalcaloosa	Sept.	23	1				1	
Ottunwa	Oct.	12	1	******	1			
Packwood	Nov.	42	2					
Parnell	April	23	- 5	1 3		******		
aton	July	18	1	1	*******	*******	****	-
ella	Jan.	29	5	5			*****	
"crata	May	13	1		*******			
omeroy	Feb.	18	1	1				
'ortsmouth	June	19	. 2	1			1	
Prescutt	July	10	- 3	1.				
Ryan	Nov.	20	1	******		1		
lac City	Eeb.	28	1		ary store		1	
helby	June	20	. 3		12000		1000	
heldon	July	1,	16	1	3.	1	1	
hellsburg	July	Linera	- 1	******			1	
hipiey	Oct.	17	- 1					1000
doux City	March	26	1 3				*******	
loux City	Sept.	7	1	1	******	******	+21/20110	
later	Oct.	5	1		X	*******		*****
Smithland	March	27	3	3	*******			
ioldier	May	14	1		1			
oldier	June	27	1			******		
pencer	Aug.	17	1	1	*******			
tate Center	Aug.	Secreta	6	2	1		2	
torm Dake	Nov.	4	16	5	*******	******	4	
itory City	July	16	4		>>+60>>	*******		
tory City	Oct. Dec.	15 28	1		*******	1		
Superior	APOC.	20	2.0%					
Cennant	Oct.	30	-1			1		
Titonka	Jan.	16	1					
Proy Mills	Aug.	20	10			1	1	
Inion	Jan.	28	1		1			2016
Tte	June	12	1	*****		*******		
Valley Junction	Feb.	21	1			1		
Valley Junction	Aug.	7	1					-
Van Wert	May	6	1					
van Wert	May	9	2	5		1		
Vinton	Oct.	8	9	5	2			
Walker	May	28	3	9			1 1	
Washington	Nov.	21	5	- 5				
West Liberty	April	24	17	6	4	*******		100
West Liberty	Aug.	2	- 8			1		1
West Liberty	Sept.	28	1.		*******	1		******
Wyoming	Feb.	26	- 4	*******	1	1	04344341	
			684	174	54	77	55	1

TABLE NO. V.

Giving Places at Which Investigations of Fires of Suspicious Origin Have Been Made During the Year 1918, and the Date When Such Investigation Began.

County	Place	Date Commencing Investigation
Adale	Greenfield Greenfield (near)	August 14. September 17.
Appanoose		The state of the s
Audubon		
Boone		November 8
Buena Vista	Sioux Rapids	January 29
Calhoun	Lavinia (near)	January 4. February 8.
Case	Anita (2 fires)	
Cedar	Iowa Township	January 25
Cerro Gordo	Mason City	January 18. September 17
Cherokee	Washta	March 27
Chickasaw	Nashua	August 8
Clarke	Osceola Woodburn (near)	August 15. July 9.
Clayton	Mederville. Volga Township	October 29, March 30.
Crawford	Charter Oak Township	April 4.
Dallas	Adel Township. Des Moines Township. Linden (near) (2 Bres) Minburn (near) Perry Yan Meter.	November 20. March 15. September 25. October 4. July 16. December 11.
Davis	Carbon (near)	July 25
Secutur	Lamoni	January 8.
One Moines	Oakville (near)	June 13.
Subsque	Dubuque	April 2. October 28.
Immet	Huntington	August 8.
ayette	West Union (near)	August 22.
remont	Thurman	August 8.
reene	Grand Junction	February 26. April 3.
rundy	Conrad Grundy Center	January 23. April 24.

TABLE NO. V-Continued

County	Place	Date Commencing Investigation
Guthrie	Guthrie Center	August 22. August 22.
Hancock	Goodell (near)	November 26.
Hardin	Union (near)	September 30.
Harrison	Logan (near) (2 fires)	May 6. May 6. February 14. May 7.
lowa	Conroy Conroy Marengo Marengo	July 15. December 2. July 24. December 9.
Jasper	Sully	October 17.
Johnson	Iowa City	January 22.
Keokuk	Sigourney	June 10.
Kossuth	Bancroft	January 15.
Lee	Keokuk (2 fires)	March 28. July 23.
Linn	Toddville (near)	May 28.
Louisa	Morning Sun Township	March 21.
Lucas	Chariton Chariton Chariton Chariton Chariton Gunwald Olmitz	January 15. January 18. July 9. July 22. January 17. January 16.
Madison	Barney	September 9.
Mahaska	Peoria (2 fires)	June 17.
Marion	Knoxville Knoxville Township Pella Red Rock Township	March 20. October 14. January 28. September 17.
Marshall	Marshalltown (6 fires)	August 27.
Mitchell	Osage (2 fires)	December 11. April 22.
Monona	Mapleton	May 8.
Montgomery	Red Oak	July 8. June 17. August 15.
Muscatine	Muscatine	November 21
O'Brien	Paullina Sheldon Sutherland Sutherland (near)	November 6. July 1. August 16. August 16.
Page	Clarinda	April 23. September 5.
Palo Alto	Vernon Township	November 1,
Plymouth	Hungerford Township	May 23.
Polk	Allen Township	July's.

TABLE NO. V-Continued

County	Place	Date Commencing Investigation
	Des Moines	*
		January S.
	Des Moines	January 24.
	Des Moines	Pebruary 13.
	Dox Moines	March 25.
	Des Moines	April 11
	Des Molnes	April 18.
	Des Moines	July 5.
		July 6
		August 12.
		August 29.
		October 7.
		October 16.
	Des Moines (near)	December 3.
	Des Moines (near)	December 13.
	Herrold	December 13.
	Valley Junction	January 18.
	Valley Impaire	April 20.
	Valley Junction	October 28.
Polikaztiamie	Council Bluffs	March 6.
		May 27.
		August 7.
		October 14:
	Council Bluffs	October 16.
	Hotele Credit	
	Honey Crock McClelland (near) (2 ffree)	March 13.
	Secondary (near) (2 pros)	September 6.
	Neola	March 28.
	Nesla (4 fires)	March 20.
magedt	Kellerton (near)	September 4.
eett	Davenport (6 firm)	October 10.
helby	Theffanon (moss)	E
MINOR THE PROPERTY OF	Defiance (near)	June 19, October 17.
*imux	Granville (near)	January 29.
		February 26.
	Holland Township	A COURSELY MO.
	Laren Township	May 22.
	Lynn Township	May 22.
	Grange City	January 29
wylor	Gravity	February 8.
ulon	Afton	March 26.
Manager and Control of the Control o	Lorimor	October 2.
	Lorimor (near)	
	Aprimor (near)	April 30,
Capello	Eldon	December 20.
Varren	Norwalk (near) (2 fires)	February 4.
Cebater	Elkhorn Township	440.00
	Yell Township	May 24. August 13.
Tunebago	Forest City	July 16.
Conditions		
Woodlinry	Sloux City	January 31.
	Sloux City	February 21.
	Sloux City	March 25.
	Sioux City	April 5.
Torth	The second secon	
	Grafton (near)	July 17.