STATE OF IOWA
1917

Annual REPORT OF THE

lowa. STATE FIRE MARSHAL

FOR THE YEAR 1917

OLE O. ROE STATE FIRE MARSHAL

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STATE FIRE MARSHAL

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

Office	Name	Legal Residence	Birthplace
Assistant Chief Clerk and Stenog-	A. Tracy	Sioux City Des Moines Dows	lowa Iowa Iowa

LETTER OF TRANSMITTAL

Des Moines, February 1, 1918.

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 seventh annual report of my official acts and of the affairs of this office, covering the period beginning January 1, 1917, and ending December 31, 1917, both dates included. Oh O. Roe

State Fire Marshal.

ROBERT HENDERSON, STATE PRINTER J. M. JAMIESON, STATE BINDER 1918

Source unknown.

SEVENTH ANNUAL REPORT STATE FIRE MARSHAL

For the year 1917, 4,953 fires were reported to this office involving a loss of \$7,216,245. The property involved in these fires was valued at \$31,683,278. Of the loss thus reported, property to the value of \$5,008,371 was covered by insurance, leaving an excess of loss over insurance amounting to \$2,207,874 and involving 1,907 properties. Included in this excess are 613 properties involving a loss of \$343,962 upon which no insurance was carried.

The total fire loss of 1917 exceeded that of 1916 by \$1,225,003. The average daily fire loss of the year amounted to \$19,771. and the average loss in each fire was \$1,457.

The per capita fire loss in the State of Iowa during the year 1917 was \$3.06.

During the year six fires occurred in each of which the loss exceeded \$100,000 and one fire in which the loss was \$90,000, as follows:

January 8, Estherville\$	110,400
January 31, Mason City	90,000
July 12, Dubuque	109,162
August 11, Des Moines	393,186
October 9, Charles City	137,522
November 22, Osceola	159,951
November 29, Storm Lake	128,205
metal a	1 100 100

The number of dwellings burned was 2,588, and the loss on buildings was \$1,139,683 and on centents \$424,162.

The sound value of these dwellings was reported at \$5,770,871, and that of their contents at \$1,416,781.

The number of barns burned was 465 and the loss on buildings was \$400,611, and on the contents \$285,650.

The sound value of the barns was reported at \$445,450 and that of their contents at \$323,612.

The number of stores burned was 385, and the loss on buildings was \$487,718, and on the contents \$1,162,255.

The sound value of the store buildings was reported at \$2,754,-440, and that of their contents at \$4,383,650.

The number of factories burned was 51, and the loss on buildings was \$143,499, and on the contents \$330,197.

The sound value of the factory buildings damaged was reported at \$898,741, and that of their contents at \$1,985,771.

Forty-two (42) deaths were reported to this office as the direct result of fire. Of this number 19 were women and 10 were children. In 19 cases fatal to life, gasoline or coal oil was involved.

Inspections of buildings and premises by myself and regular deputies to the number of 835 were made in 143 different cities and towns in the state, upon the basis of which there were issued 176 orders to remove buildings, 71 to repair buildings, 81 to change, 57 to clean up and repair, and 200 to clean up inflammable conditions.

In addition to the foregoing, 1,659 inspections of grain elevators, mills, factories and food storage plants were made by 69 special conservation inspectors who were appointed by me with the approval of the Executive Council of the State.

These inspections were made in 767 different cities and towns in 94 different counties of the state.

Upon the basis of these inspections, reports of which were made to us, 1,146 orders were issued by this department.

One hundred sixty-six (166) suspicious fires were investigated in 108 different places in 57 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, 16 arrests and prosecutions were had during the year 1917.

Of the cases that were tried or pleas of guilty entered, seven (7) resulted in convictions, five of which were sentenced to the penitentiary or reformatory and two were granted new trials, one (1) was given a jail sentence, one (1) was sentenced to the industrial school for boys, one (1) was paroled by the court after conviction, one (1) was sent to a hospital for the insane, two (2) made confessions but their cases are still pending, one (1) is under indictment, and two (2) were acquitted.

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 building and contents, the number of fires partially covered by insurance, the amount of excess of loss over insurance, the number of fires amount of excess of loss over insurance, and the total loss upon 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 III contains a summary of the origin and cause of the varius 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 investigation was commenced.

EDUCATIONAL WORK.

The value and importance of the educational work in connection with Fire Prevention cannot be over-estimated. I am satisfied that already much good has been accomplished through the instruction in fire causes and fire dangers given in the elementary and graded schools.

I have given much attention to this matter and have again, during the past year, urged upon superintendents and teachers the necessity of giving this subject earnest and thorough attention. In these efforts I have been reinforced by the Department of Public Instruction which in a recent bulletin also urged upon the teachers the duty of complying with the law.

It is my purpose at an early date to issue a fourth revised edition of Bulletin No. 1 prepared by me for use in the public schools of the state in order that such schools wherein the Bulletins have been lost or destroyed, may be supplied with new ones.

I confess that I am not as well informed as I would like to be as to how general the compliance is both as to fire drills and the

giving of instruction in the causes and dangers of fires in our public schools. I have urged upon the Legislature from time to time and also upon the Department of Public Instruction the importance of requiring reports from teachers upon this subject in order that this office, which is charged with the duty of enforcing this law, might be fully informed as to where there is neglect in complying with the same.

I fear that in many places, owing perhaps to the various other subjects that are crowding for attention, this matter is not given the emphasis which its importance demands.

Were I to suggest a change in the courses of study of our grade schools, I would recommend the elimination of all the dead and some of the living languages in order that more time and attention might be given to the practical affairs of our every-day life. To my mind nothing is of more practical importance than the building of homes which are well lighted, well ventilated and reasonably safe from fire.

FIRE PREVENTION WORK.

Realizing that the inspection of buildings and building conditions and the ordering of changes, clean-ups or removals based upon such inspections form the very foundation for efficient Fire Prevention, this department has spent much time in inspection work, and wherever such inspections have been made, we have sought to impress upon the local fire chief and other municipal authorities that the fire marshal law grants to them ample power in this respect.

In many cities and towns we have succeeded in creating or stimulating activity along this line, and it has been our experience that in every city where there is efficient and well directed inspection work under the supervision preferably of the fire department of the city, such city or town has been able to materially reduce its annual fire waste, while in those cities and towns where no systematic effort is made along this line, have occurred our most disastrous fires.

I am pleased to be able to report that the efforts of this office along the line of Greater Care have been more noticeably appreciated among our farmers than in our towns, and in this matter our Farm Mutual Insurance Associations have been most helpful. While the increase in the fire losses during 1917 over those of the previous years is large (exceeding One Million Dollars), there has not been a corresponding increase in the fire losses upon the farm, but rather a decrease. This is noticeably true of barns, the number of which were destroyed during 1916 amounted to 578 and the damage to buildings and contents aggregated \$802,522, while during the year 1917 only 465 barns were destroyed with an aggregate loss to buildings and contents of \$686,261.

I attribute this encouraging decrease to the greater care exercised in and about barns, to the fact that they are more generally supplied with lightning rods, and also to the fact that greater precautions are taken against spontaneous combustion.

SPECIAL CONSERVATION WORK.

Immediately upon the entry of our country into the world war, it became evident that additional hazards threatened the safety not only of the lives but of the property of our people. This was especially true with regard to grain elevators, mills, factories, and food storage plants of various kinds.

To the end that I might be fully informed as to the conditions of these various industries and also in order that their owners and the people of our state might be placed on their guard, I availed myself of the offer of the National Board of Fire Underwriters of the services of a number of the insurance field men of the state.

With the approval of the Executive Council, I commissioned 77 of these men to do special inspection work. Of the number so commissioned, 69 have done work and reported their doings to this department. As stated elsewhere, this work involved 1,659 inspections, on the basis of which 1,146 orders were issued. These inspections were made in 767 cities and towns in 94 different counties of the state.

I am pleased to be able to report that in the main these inspections were thoroughly and intelligently made, the inspectors well received and with very few exceptions the work has been commended and the orders issued generally complied with.

As a part of this inspection work, we have been and are urging upon our people, especially those who are in charge of stores of grain or food that they exercise the most diligent care in the way of watchmen's service, and I have reason to believe the state as a whole is thoroughly aroused to the importance of this suggestion.

STATE FIRE MARSHAL

The old decrepit watchman, who for many years has been a joke and a by-word, has been or should be discarded for an active, vigorous and courageous man.

The mayors or others in cities charged with the enforcement of the peace and safety of the community should realize that this is a time when there should be no parsimony in providing such adequate and thorough police protection both to persons and property as will prevent the attempt of the enemy of our government, whether it be alien or native, to destroy the resources in which our splendid state is so rich.

THE WAR HAZARD.

It cannot be denied that the entry of our country into the war created additional fire hazards against which it became the immediate duty to adopt most thorough and stringent precautionary measures. Some of the measures taken by this department have already been referred to under another heading.

While it is true that the overwhelming majority of the citizenship of Iowa is loyal, it cannot be denied that here as well as elsewhere there are the exceptional few whose hearts and sympathies are secretly if not openly against the government, and who would even rejoice in the destruction of American lives and American property.

As "eternal vigilance is the price of liberty" so even more is it the price of safety. To the end that any and every attempt of the sympathizer with our enemies may be thwarted in his evil designs, it becomes the people of the State of Iowa as individuals, municipalities, and communities to redouble their watchfulness, especially in the protection of the property of our people from destruction by fire.

But not only is there danger from the alien sympathizers but there is also the further danger from that element of our population which believes that the world owes it a living without work, and whose natures have become embittered because at some time in their lives the law had placed its heavy though just hand upon them.

In times like these, when many of our homes, farms and business places have given up their best young men to the service of our country—thus reducing the natural home protection, these ghouls of society see an opportunity, which they readily

embrace, of preying upon our people and their property in this the hour of our nation's distress. Too stringent measures cannot be adopted to hold in check and suppress this tendency.

Again in times of strife and stress like these, some persons who, under normal conditions, would be reasonably safe, become unduly excited or unbalanced and do things, especially in the way of setting fires, that in normal times they would not do. This is an added danger which must also be guarded against.

At the same time that these special hazards to which I have briefly alluded have been introduced, we have with us as here-tofore the familiar face of the great fire producer, who needs no introduction—General Carelessness.

Ever since the establishment of this office, I have in season and out of season preached the doctrine of conservation of life and property, of the elimination of waste, and the exercising of greater care. For more than six years my voice has been "like one crying in the wilderness," and I am therefore exceedingly gratified that this doctrine has now been espoused and has become the gospel of our country, for it is preached today from platforms and pulpits from the President down to the humblest citizen. While the effect of this nation-wide effort may not be instantaneous, it will in time produce good results and results that will endure.

ARRESTS AND PROSECUTIONS

CLINTON TOWNSHIP, WAYNE COUNTY.

Oscar Napier, alias O. K. Wilson, indicted in the Federal Court at Creston September term, 1916, on a charge of conspiracy to defraud an insurance company in case of U. S. vs. Grant Napier, et al.

Oscar Napier was apprehended on Friday, May 11, 1917, entered a plea of guilty on May 12, 1917, and was sentenced by Judge Wade to serve four months in the Warren County jail.

Two others indicted on the same charge are still at large.

This is in connection with one of the most far-reaching cases of conspiracy to defraud brought to our attention. The case was brought by this department in the Federal Court, as the U. S. mails were used in transmitting the fraudulent claims for loss. For a full account of this case, reference should be had to pages 15 and 16 of my report for 1916.

WALNUT TOWNSHIP, DALLAS COUNTY.

On January 4, 1917, three A. M., a fire destroyed the residence property of I. N. Aldrich valued at \$10,000. Soon after the fire, John Michael Fink, eighty years old, was arrested charged with the setting of the fire. Fink was indicted in March, 1917, and tried at the December term 1917. The jury returned a verdict of "not guilty" on account of unsound mind.

Civil action was commenced for damages against Mr. Fink. A compromise was made by the Fink estate paying Aldrich the sum of \$6,250.

NEAR RUNNELLS, POLK COUNTY.

On January 24, 1917, about four A. M., a barn and contents was destroyed on the farm of R. A. Owen which was occupied by Frank J. Heller. After an investigation by this department, Frank J. Heller and C. A. Anson made confessions to the effect that they had removed nine valuable animals and substituted for them nine worthless animals, and by the use of coal oil burned the barn and contents. This was done for the purpose of collecting the insurance.

Heller and Anson were indicted and entered pleas of guilty on April 5, 1917, and each was sentenced to ten years in the penitentiary. Their attorney gave notice of appeal to the supreme court on the grounds of the severity of the sentence. Later both Heller and Anson were paroled by the State Board of Parole on the recommendation of the county attorney and the judge who took their pleas of guilty.

The parole was granted without the knowledge of the state fire marshal.

LODOMILLO TOWNSHIP, CLAYTON COUNTY.

On February 17, 1917, about five A. M., fire destroyed a dwelling and barn owned by Coleman Putnam and occupied by George Briggs. Later George Briggs and James Briggs were indicted on a charge of conspiracy to injure the insurance company. Both George and James Briggs were tried at the October term, 1917, and found guilty as charged. The defendants asked for a new trial, which was granted by the same judge at the January term, 1918.

The defendants are still under indictment on the charge of arson. Both cases are still pending.

NEAR AGENCY, WAPELLO COUNTY.

On March 10, 1917, several stacks of hay were burned on the farm of John Reno. After an investigation by this department, John Meyers was indicted charged with the burning of the hay and meadow. The case is still pending.

IOWA FALLS, HARDIN COUNTY.

On March 29, 1917, W. H. McClure of Iowa Falls confessed to a representative of this department to the setting of eight fires during the past two years which terrorized the citizens of that community. On the strength of the confession, McClure was arrested and arraigned on a

charge of arson and waived to the grand jury. On April 4, 1917, McClure entered a plea of guilty to the county attorney's information and Judge Wright sentenced McClure to serve forty years in the penitentiary on two counts, and on an additional plea of guilty to burn an inhabited building in the night time McClure was sentenced to the penitentiary for life.

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 secured showing the fire was set by Kindig for the purpose of collecting the insurance. Kindig was confronted with the evidence and made a written confession to setting the fire by electrical devices. Kindig was arrested and waived to the grand jury, which returned an indictment against him. The case is still pending.

SALIX, WOODBURY COUNTY.

On the night of May 22, 1917, fire destroyed the Salix Mercantile Company's store. On June 7, 1917, during an investigation by this department, Ed. Morris made a confession that he had set the store on fire. A county attorney's information was filed against Morris, to which he entered a plea of guilty and was sentenced to the penitentiary for a period of five years.

DUBUQUE, DUBUQUE COUNTY.

On the night of July 12, 1917, the Cooper Wagon Company's warehouse was destroyed by fire causing a loss of over \$100,000. Previous to the fire, Gus and William Cooper of the Cooper Wagon Company had received blackhand letters demanding large sums of money. Soon after the fire more threatening letters were received containing very vicious language along the line of what would happen if the Coopers did not drop the large sums of money demanded where the same could be found by the author of the letters.

A thorough investigation was made by this office and on September 19, 1917, H. A. Wedemaier was arrested and taken to the police station where he made a full confession to a representative of this department and the chief of police to sending the letters, but he stoutly denied that he had anything to do with the setting of the fire.

Wedemaier entered a plea of guilty to a county attorney's information and was sentenced to the penitentiary for a term of five years.

ALGONA, KOSSUTH COUNTY.

On July 27, 1917, Howard Kanouff, an eleven-year-old boy, confessed to a representative of this department to setting Andrew Benson's residence on fire in three different places on the afternoon of July 23, 1917. Information was filed against the boy, and the case is still pending.

NEVADA, STORY COUNTY.

On September 23, 1917, a fire was discovered in a vacant residence owned by C. C. Harris. After an investigation by this department, Ray Spurling, a fifteen-year-old boy, made a confession that he set the fire with the aid of coal oil. The boy was taken before the court for hearing. The court appointed an attorney to look after defendant's interests. The boy and the boy's father waived time, the evidence was introduced, after which he was sentenced to the reform school at Eldora until he becomes of age. Later the boy was paroled by the court during good behavior.

COON RAPIDS, CARROLL COUNTY.

On September 27, 1917, about twelve P. M., a fire occurred on the outside of the dwelling occupied by Walt Watrus. Suspicion pointed to a neighbor lady, Mrs. Theodore Corey, who had had trouble with Mrs. Watrus. The county attorney took the matter in hand and had Mrs. Corey before the commissioners of insanity, and she was by them adjudged insane and committed to the Clarinda State Hospital.

URBANA, BENTON COUNTY.

On July 18, 1917, a fire destroyed the building and contents of a Racket Store belonging to Harry and Addie Burton. After an investigation by this department, Harry Burton was indicted at the September term, 1917, by the grand jury, and tried at the October term, 1917, and

MILFORD, DICKINSON COUNTY.

On December 4, 1917, P. O. Bjornson lost a barn and contents by fire. This fire occurred about nine P. M. There had been a previous attempt made to burn this barn. After an investigation by this department, Leonard Ranney, an eleven-year-old boy, made a confession to setting the barn on fire. The case was reported to County Attorney H. E. Narey who filed information and presented the case to the juvenile judge, after which the boy was committed to the reform school at Eldora.

RECORD OF ARRESTS AND PROSECUTIONS FOR ARSON SINCE THE STATE FIRE MARSHAL'S LAW WENT INTO EFFECT, JULY 4, 1911.

ARREST CONTROL OF THE	Last 6 months of 1911	1912	1913	1914	1915	1916	1917	Total
Confessions on which grand jury failed to indict			2			5		7
Industrial School, Eldora Hospital for Inebriates				2	6	2	1	12
Hospitals for the InsaneInstitution for Feeble Minded	1		2	4	3	3 1	1	14
Deported Fined Paroled by Court after sentence	1				4	3 3		1 4 11
Sentenced to—			1	2	4		1	
Jail Penitentiary	1 3	1 3	5	6	4	2 4	7	32
Total	6	9	12	16	17	24	11	95
Acquitted, defective indictmentArrested, held to grand jury no indict-			1.	1	1			3
ment Died in jail before final action Dismissed by county attorney after indict-			3		3 1	3		9
ment	1	3	3	6	2	1		16
Indicted, tried and acquitted	2		1	1	9	3	2	18
Indicted, cases still pending		1/		2	5	/ 5	3	16
Total	3	4	8	10	21	12	5	63
Total prosecutions	9	13	20	26	38	36	16	158

It is unnecessary for me to emphasize the importance and difficulty of the duty with which this office is charged by the law, viz., the investigation of suspicious fires and the securing of sufficient evidence to indict and convict where we have reason to believe a person is guilty of the crime of incendiarism.

While we have succeeded in apprehending and securing the punishment of 96 criminals of this class during the past six years, we realize that a great many guilty have escaped. Some of this may be due to our own inefficiency and our lack of men and means to obtain evidence, but much of it, indeed the greater portion of it, is due to the generally slack law enforcement which prevails in our country. Grand juries are slow to indict, trial jurors are loath to convict especially when the criminal is defended by one of the ablest attorneys at the bar, and the prosecution is in charge of some young fellow just out of law school.

In some instances it has been almost impossible to interest the prosecuting attorney in a case even where the evidence of guilt was overwhelming. The same is also true of some of the ministerial officers such as sheriffs, local policemen and detectives. Unless the local official can secure some personal prestige out of the prosecution, he often is not disposed to give any aid or encouragement to the efforts of the state fire marshal.

In many instances the law relative to the punishment of arson and the various degrees of this crime, is inadequate. There is room for radical reform in our whole system of criminal jurisprudence to the end that it may be less difficult for the state to apprehend and convict the guilty.

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 fires reported to this office for the year 1917 were as follows:

Months	No. Fires		Loss
January	. 615	\$	827,665
February	. 752		716,718
March			622,302
April	. 330		607,604
May	. 333		366,637
June	. 205		261,022
July	. 275		470,211
August	. 271		804,387
September	. 238		342,300
October	. 426		624,693
November	. 385		673,678
December	. 586		899,028
Total	4.953	\$7	7,216,245

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:

by fires come in the following	Number	Loss
Kind of Structure Dwellings	2,588	\$1,563,845 686,261
Kind of Strass	465	1,649,973
		113,317
CI - mod		194,981
Gland		11,779
G-maggg		8,350
. temobiles		81,043
		120,462
- tourants and cares		198,809
Offices and office buildings School houses		\$4,628,820
School houses	4,032	
School houses	the above table	with those

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 1916, we observe the following:

There was an increase of 366 in the number of dwellings destroyed or damaged and the aggregate loss is \$355,710 greater

It will also be seen that more than fifty per cent of the total than in 1916. fires in the state affected the homes of our people.

The number of barns destroyed or damaged was 113 less and the damage thereto \$116,261 less than in 1916. This is an encouraging feature and is due to a large extent to the added precautionary measures taken by many of our farmers in safeguarding their barns against fires.

The number of stores damaged or destroyed by fire was 18 greater and the loss in said fires was \$156,823 greater than in 1916. When we take into consideration the increase in the value of almost every article of merchandise kept in the stores, this increase is not discouraging.

There were 20 more automobile garages affected by fire resulting in a greater destruction by \$66,899 in 1917 than in 1916.

Unless greater care is exercised in many of these garages in the matter of cleanliness, etc., we may well apprehend that fires in these business places will increase rather than diminish in

The number of offices and office buildings affected by fire was the future. 6 less and the damage thereto \$86,838 less in 1917 than in 1916.

While the number of school houses burned was only 1 greater, the total loss on account of same was \$113,714 greater in 1917

In my last annual report I referred to the added danger to the larger school buildings by reason of the general introduction of domestic science and should be carefully safeguarded against. I deem it my duty to emphasize this recommendation.

There was an increase of 4 in the number of factories destroyed or damaged by fire but a decrease of \$61,607 from that in 1916

Four (4) more grain elevators were destroyed or damaged by fire in 1917 than in 1916, and the resultant loss was \$89,206

During the same time 2 less flouring mills were damaged by fire but the loss was \$13,802 greater.

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		gnest classes
Sparks from flue Unknown Defective flue Adjoining fires Lightning Spontaneous combustion Children and matches Match carelessness Incendiary and probably incendiary Defective electric wiring Total.	Number 1,094 948 456 359 172 130 95 88	Loss \$ 392,619 3,061,163 572,202 744,397 280,933 170,252 58,755 34,072 167,171 262,007
More than twenty (20)	3,513	\$5,743,571

More than twenty (20) per cent of all the fires reported \$5,743,571 were caused by "sparks from flues" or chimneys. The number of fires from this cause was 270 greater during the year 1917 than the previous year and the resultant loss \$158,923 greater.

Fires from this cause are partially preventable, the principal preventive being the discarding of the old fashioned shingle roof for a roof of more fire resisting material.

In some of our cities (noticeably Davenport) ordinances to this effect have been adopted. Cities and incorporated towns should provide against this menace by adopting ordinances prohibiting a shingle roof in future erections of buildings.

The number of fires originating from defective flues was 108 greater and the resultant damage \$226,401 greater in 1917 than in the previous year.

Every fire from a defective flue is absolutely preventable, for it should be the duty of every house owner to inspect the chimneys and flues carefully and make needed repairs therein at least once a year, before the advent of cold weather. If this duty were enforced, there would be a material reduction in fires from this cause.

The number of adjoining fires reported was 76 less and the loss \$159,472 less in 1917 than during the previous year. These figures speak volumes for the increased efficiency of our various fire departments.

Fires in which spontaneous combustion is the reported cause were 23 less and the resultant loss \$38,901 less in 1917 than in 1916. I attribute this reduction to the greater care exercised by our farmers in the matter of the storage of hay in barns.

The lightning fires were 5 less and the damage therefrom \$9,361 less than during the previous year.

The fires reported as incendiary or probably incendiary were 45 less and the resultant damage \$80,092 less in 1917 than in 1916.

The number of fires of unknown origin still continues to head the list as to the amount of damage. Had they but a voice, what a story of carelessness and crime these fire could unfold!

The midnight incendiary, the cowardly sneak who sells out to some insurance company, the dirty basement and attic, the unsafe and sooty chimney, the improperly installed heating or lighting system, the inflammable oils carelessly stored and handled, the matches and match heads promiscuously scattered about, the smoker and his ubiquitous pipe, cigar or cigarette, each and all contribute to the great unknown cause of fires.

RECOMMENDATIONS.

I again deem it necessary to renew recommendations heretofore made for legislation along the following lines:

- 1. 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
- 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
- 3. 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.
- 4. A law regulating moving picture shows, specifying the construction of the booth, the number of exits, width of aisles, seating, etc.
- 5. Provision for the inspection of gasoline and carbide lighting systems.
- 6. Inasmuch as fully 90 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

I would strongly urge this recommendation for the reason that when fires are reported to this office it is not infrequent that this statement is made by the reporting officer:

"The owner went to the telephone to call the department but was unable to get 'Central' and as a result more damage was done than was necessary had the alarm promptly reached the fire

CONCLUSION.

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

In my conduct of the office I have aimed to make it one of broad, social and economic service rather than one designed to help or promote the financial gain of some particular line of business. To this service, my best endeavors have been dedicated. It is a service demanding intelligence, special skill and courage. I have been and am thoroughly devoted to the idea of the conservation of our resources. My appeal to the citizenship of Iowa is that they conserve from destruction by fire by exercising more care and by placing greater safeguards about their property.

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 for the Year 1917.

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 loss over insurance	No. of fiires without insurance	Loss
Adair	16	3 47,985	\$ 26,952	\$ 25,975	5	\$ 9,220	3	\$ 1,210
AdairAdams	13	40,493	12,787	11,593	7	7,370	2	1,920
Allamakee	13	26,150	11,382	15,370	7	3,935	2	505
Appanoose	57	169,674	39,624	92,975	21	14,450	7	6,087
Audubon	10	25,570	8,407	11,373	6	4,997	1	2,900
Benton	38	147,290	59,202	78,120	19	27,327	5	3,900
Black Hawk—					100			
Waterloo	131	846,725	63,681	542,635	33	9,928	13	1,074
Bal. Black Hawk								
Co	33	103,850	46,470	61,205	19	14,105	4	1,040
Boons-Boons Co	39	163,520	9,504	84,350 30,173	15 12	5,165 14,663	10	5,030
Bal. Boone Co Bremer	14 17	47,956 70,015	41,401 10,411	34,140	8	2,568	2	775
Buchanan	17	91,760	23,941	56,025	6	4,130	2	1,025
Buena Vista	45	257,429	141,782	123,865	24	54,474	9	3,690
Butler	18	60,225	30,353	35,475	14	12,240	3	565
Calhoun	20	48,782	27,957	25,600	10	15,282	4	6,200
Cerroll	35	124,880	25,637	61,034	16	12,001	5	2,950
Cass	35	181,595	123,431	101,355	23	49,170	3	1,025
Cedar Cerro Gordo—	26	78,850	42,989	37,167	21	17,343	4	3,125
Cerro Gordo—								
Mason City	48	371,650	101,458	291,250	9	835	7	625
Bal. Cerro Gordo				00.010		0.000	0	1 000
Co	19	37,490	20,203	20,240	10	8,300	3	1,935
Cherokee	15	70,290	6,900	52,570 25,925	5 11	2,220 8,065	1 2	170
Chickasaw	14 29	45,935 272,986	25,085 198,441	141,000	21	78,516	4	1,555
Clarke Clay	16	99,760	54,529	58,385	9	11,700	-	1,000
Clayton	35	156,010	80,960	104,080	23	25,780	1	10
Clinton-Clinton	80	372,560	28,072	258,530	11	1,610	7	335
Bal, Clinton Co.	23	49,020	28,681	31,555	14	13,415	3	2,090
Crawford	26	68,790	26,672	42,710	17	8,915	2	85
Trall q	44	150,896	73,231	95,066	19	31,245	4	985
Davis	34	95,811	53,554	50,590	19	21,689	8	4,003
Docatur	39	146,324	98,875	92,940	28	33,010	5	2,875
Delaware	24	59,390	21,486	33,270	11	11,030	1	10
Des Moines—		004 040	F0 000	387,708	6	10,153	2	625
Burlington	55	661,940	50,678	387,708	0	10,100	2	020
Bal. Des Moines	15	33,138	23,651	37,275	11	9,425	1	200
Co. Dickinson	14	72,140	43,301	34,865	12	9,900	1	75
D. p. and Dapitalio	84	2,022,497	342,950	1,347,072	18	111,566	6	4,185
Balance Dubuque	U.I.	2,022,701	012,000	2,-2.,-1.				1 The 1
Co	22	84,750	57,395	47,549	14	21,101	3	5,600
Fmmet	22	265,210	120,650	172,785	9	32,760	2	140
Fayette	59	315,920	62,636	171,982	25	27,175	3	1,700
Floyd	27	628,446	185,927	192,178	18	21,602	3	1,210
Franklin	22	127,335	74,777	66,170	16	31,380	3	815
Fremont	25	60,090	52,280	36,000	18	18,850	3	2,000
Greene	26	94,282	63,872	40,652	17	34,515	7	1,425

TABLE NO. 1—Continued

			880		o. of fires partially covered by insurance		t	
		80	Damage to buildings and contents	Total insurance on buildings and con- tents	No. of fires partially covered by insuran	over	without	
Counties and		Value of buildings and contents	s mile	eor	art	0	ith	
Cities of		ent	o p	ar	o b	SSO	*	
10,000 and Over	res	f b	to ut	e sar	del	of J	res	
10,000 and Over	f fi	000	age co	du	f f	ss c	f f	
	No. of fires	alue of buildi and contents	amage to bui and contents	otal in buildh tents	0.0	Excess of loss insurance	No. of fires insurance	88
CALL STATE OF THE PARTY OF THE	Z	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Dg	Hopa	No	Ex	N.E	Loss
G			5 (0. OF 142)				1.1	
Grundy	28 27	87,425 76,685	53,451	40,970 $36,459$	12 16	27,310	7	2,850 50
Hamilton	36	162,050	30,211 45,516	80,400	21	9,645 21,164	1 2	825
Hancock	13	60,935	15,791	18,532	8	5,103	1	210
Hardin	43	135,150	45,370	57,370	25	21,107	11	4,537
Harrison	31 36	87,180 117,812	37,057 34,606	52,000 83,721	15 21	10,672 10,385	6 3	3,877 170
Howard	19	57,805	45,355	37,908	14	13,772	1	300
Humboldt	8	57,425	39,725	38,300	6	7,325	1	125
Ida	16	80,929	21,042	45,825	9	10,771	3	285
Jackson	11 31	23,925 135,703	10,638	6,775	8	5,927	4	1,852
Jasper	67	258.090	65,803	85,166 123,493	33	16,937 43,595	4	4,110
Jefferson	39	136,262	107,241 32,822	61,819	26	12,165	10	2,600
J'ohnson—		100000000000000000000000000000000000000	1 54 3 1 1		1-81			
Iowa City	47	335,225	46,087	192,500	3	725	2	275
Bal, Johnson Co. Jones	11 19	29,157 61,650	26,990 40,003	16,312 29,300	9 14	11,440 20,543	2	3,183
Keokuk	44	262,411	54,542	120,140	25	22,796	8	6,756
Kossuth	43	133,187	33,601	74,164	18	11,895	4	1,750
Lee-Ft. Madison	33	97,673	9,644	58,082	9	1,999	5	323
Keokuk Bal. Lee Co	80	608,500 43,375	69,343 14,365	434,348 25,630	9	1,420 5,735	7 1	835 1,050
Linn—	12	40,010	14,505	20,000	9	0,100	1	1,000
Cedar Rapids	163	1,457,925	50,955	987,250	26	3,330 25,161	28	2,330
Bal. Linn Co	37	129,665	66,657	71,539	20	25,161	5	1,080
Lucas	24 53	61,385 182,018	31,003 68,723	28,799 $126,385$	13 22	15,000 19,210	8	1,455 2,095
Lyon	13	117,880	11,060	17,085	7	5,600	1	475
Madison	29	96,755	67,739	53,148	19	35,007	3	1,685
Mahaska—	24	07 100	45 500	FO. 000		0.000		000
Oskaloosa Bal. Mahaska Co.	21 30	95,120 98,544	17,722 40,530	53,600 37,785	2 17	2,630 15,500	2 3	230
Marion	50	131,345	51,514	60,687	21	31,803	5	1,970
Marshall—			, , , , , , ,					
Marshalltown	42	306,160	66,794	160,175	12	23,430	7	6,805
Bal, Marshall Co. Mills	22 19	41,400	23,934 63,435	25,330 65,275	10	8,545 22,400	2	650 100
Mills Mitchell	23	114,650 93,550	54,140	53,500	16	19,690	3	1,565
Monona	19	76,332	59,293	36,485 67,260	16	26,955	7	1,865
Monroe	37	109,087	38,855	67,260	17	16,288	3	775
Montgomery	35	110,450	23,829	61,015	13	4,235	1	40
Muscatine— Muscatine	69	379,481	130,552	235,740	21	16,231	9	1,410
Bal. Muscatine		0,0,101	200,002					
Co	22	90,377	74,861	28,905	15	55,210	5	42,465
O'Brien	21	125,560	38,531	55,506 $22,455$	8 4	21,146 $2,370$	1	1,272 450
Osceola Page	11 39	41,775 170,145	8,450 85,311	81,834	18	29,129	6	829
Palo Alto	13	40,610	4,407	16,150	4	2,245	2	95
Plymouth	30	133,456	35,630	52,674	12	15,292	6	10,762
Pocahontas	9	42,775 7,758,249	12,845	27,550	3	3,250		58,811
Polk—Des Moines Bal. Polk Co	624	7,758,249 $123,370$	1,015,618 69,269	4,685,257 85,870	112 25	132,833 26,130	5	495
Pottawattamie-	41	120,010	00,200	00,010	20			100
Council Bluffs	112	643,640	150,579	383,710	35	22,490	22	2,115
Bal. Pottawat-	T Bank	400.050		m. 000	00		0	04-
tamie Co	41 36	126,052 148,500	75,899 38,303	74,833 82,035	28	30,454 15,430	3 11	975 2,615
Poweshiek Ringgold	29	79,275	52.876	45,490	16	23,935	4	2,540
Sac	24	56,250	23,285	27,050	10	11,305	8	5,445
Scott—Davenport - Bal. Scott Co	240	1,332,720	105,244	943,376	26	2,794	19	1,471
Bal. Scott Co	23	36,795	25.120	19,943	12	14,565	,	7,025

TABLE NO. 1—Continued

			The second secon		0.1		1	
10,000	No. of fres	Value of buildings and contents	Damage to buildings and contents	Total insurance on buildings and con- tents	No. of fires partially covered by insurance		No. of fires without insurance	Loss
Shelby Sioux Story Tama Taylor Union Van Buren Wapello—Ottumwa Bal. Wapello Co. Warren Washington Wayne Webster—Ft. Dodge Bal. Webster Co. Winnebago Winnebago Winneshiek Woodbury— Sioux City Bal. Woodbury Co. Worth Wright	25 32 70 27 24 70 17 79 23 34 25 15 57 19 22 17	52,730 80,265 299,775 126,565 70,380 327,574 40,983 309,285 44,308 90,650 53,725 34,170 708,725 47,536 202,025 90,411 2,332,375 115,505 12,500 148,532	63,285	25,006 43,050 150,380 77,015 44,720 522,250 208,625 22,500 47,165 35,690 16,200 20,870 1,106,900 42,950 2,112,683 66,36 4,92 66,48	17 13 11 5 44 9 11 0 6 15	14,733 10,490 40,558 25,085 12,576 20,240 13,788 2,100 15,433 25,922 5,341 5,892 7,87 27,40 16,21 23,53 5,86 38,77 5,55 37,5	1 1 6 6 1 1 2 2 5 2 4 4 5 5 0 2 2 6 6 2 2 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,200

25

Showing the Nature and Character of the Buildings or Properties Destroyed or Damaged, the Value of Each, the 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, for the year 1917.

		Build	lings	Con	tents		Cha	aracter o	f Buildin	ngs Affec	ted	
	of fires	e e	amage	e	age	р	ч	ent or		s on dings	Los	s on tents
	No.	Value Damage Damage Wood Brick	Cement	Total	Partial	Total	Partia					
Armories	1 8	3,500	\$ 600					1		1		
Autorachiles	82	73,185	11,663	116	116	82			5	77	1	
Bakeries	17	63,990	6,459	26,850	5,384	8	9			16		18
Banks	12	730,850	25,091	66,100	4,284	1	10	1	1	10		1
Barns	465	445,450	400,611	323,612	285,650	459	5	1	358	106	312	8
Boats	1	175	175	325	325	1	J	1	1	100	312	0
Boat houses	2	225	60	575	500	2			1	2	1	
	1					Z				1	1	
Bottling works		7,000	1,744	5,500	1,600		1			-		
Brickyards, kilns and tile factories	7	267,000	99,057	249,000	77,144	3	4			6		
Bridges	2	5,500	85.			2				2		
Dars—Box cars	17	21,175	2,265	2,345	1,440	17			2	13	1	
Bunk cars	5	1,580	896	250	225	5			2	3		
Coal cars	2	4,000	30			2				2		
Freight cars	2	2,100	40	1,200	433	2				2		
Passenger cars	2	6,935	225			2				2		
Poultry cars	1	500	50	2,500	250	1				1		
Refrigerator cars	7	16.580	1,121	10,600	5,245	7				7		
Stock cars	2	6,000	350	125	125	2				2	1	118
Street cars	7	27,500	6.260	120	120	7				7		
Pable box	i	21,000	2			71			1			
Dement construction material	2 -	4	4	454	222	2			,		1	
	31	250 400	110 500			20	9	2	11	20	7	
		359,400	113,503	39,625	23,309	1	9	1	11	3	,	
Dity and township halls	3	125,800	935	18,000	750	-	Ī			0		
leaning and dyeing establishments	13	37,755	1,014	60,625	2,639	6	5	2		9		1
Coal bins and storage	12	9,340	3,550	19,150	6,095	6			2	4		
Coal mines	2	2,650	685	3,000	1,525	2			1	1		
Colleges and college dormitories	8	251,500	46,975	33,300	17,255	2	6		1	7	2	
Court houses	2	95,000	175	7,000	400		1	1		2		
Creameries	13	31,460	8,910	18,376	4.244	9	2	2	4	9	3	1

Dams Dairies or milk houses Depots Elevators Engines and boiler rooms Lxpress offices Factories—Asphalt plant Auto parts factory Bale and tie factory Bale and tie factory Bridge and iron products factory Broom factory Broom factory Broom factory Canning factory Canning factory Carriage and auto factory Chiropractic table factory Collar factory Furnace factory Furniture factory Galvanized iron products factory Gasoline engine and tractor factory Give factory Incubator factory Incubator factory Incubator factory Lock factory	19 8 8 3 1 2 1 1 1 1 1 1 1 2 1 1 1 1 2 1 1 1 1		1,000	1,100 6,440 140,003 400 5,000 1,500 12,300 20,000 10,000 4,600 150,000 9,500 340 10,000 45,354 16,800 1,500 3,000 9,500 24,000 215,000 16,000	1,000 4,439 95,972 400 125 10 900 3,690 50 4,372 4,539 7,000 32,000 129 50 34,262 10,804 7 2,500 1,000 2,300 2,024 1,062	1	2	1	10 67 8 11 2 2 1	2 4 4 1 1	1 4 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	STATE FIRE MARSHAL
Implement factory	1 2 1 1 1 1 1 1 1 3	10,000	25	39,828 500,000 156,099 75,000 4,750 10,000		1	2 1 1 1 1 1 1 2 2 1 1	1	1	1	1	1 1 1 1 1 2 2 2 1

Contents

Buildings

STATE FIRE MARSHAL

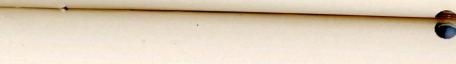
27

	fires		ildings	- Co	ontents		C	haracter	of Build	ings Affe	eted	
0 4.01 To a payora	No. of fi	Value	Damage	Value	Dgmage	Mood	Brick	Cement or stone	Lo	oss on ldings	Lo	oss on ntents
Typewriter factory	1		H		Dg		Bri	Cen	Total	Partial	Total	Partia
Fence posts	1 1			- ;00	50	1		1		1		
Fish nets Flagman's station	1			- 37	30			1				
		200		- 15	15	1						
Freight houses	. 9	300 114,000	235		19	3					1	
		2,445	12,345	108,000	12,903	1			1	2	1	
Garages Gas plants	106	345,950	456	250	250	4 3	5			9		
Gas plants	5		61,746	410,775	133,235				2	1		
Grain doors Granaries and corn oribs	1	21,500	6,432	51,000	8,902	74	26	6	34	67	2	
Granaries and corn cribs.	23	17 015		2,190	1,400		5			5	32	5
Greenhouses Hay, grain and strong steel	1	17,815	13,726	31,892	28,095	1				0		
Hay, grain and straw stacks	32	3,300	1,000	300	300	23			15	8		
Hen houses Hog houses	24	0		8,145	5,884	1				1	13	
Hog housesHome for blind	12	2,143	1,620	920	758					1	. 1	
Home for blindHospitals	1	5,250	4,950	1,580	1,580	24			14	10	25	7
	8	8,000	10		1,000	41	1		11	1	8	4
Houses—Apartment	53	77,000	1,565	35,300	27,095	1 .				1	4 .	
	35	2,102,600	63,266	281,425	29,501	7	1 .			1 -		
	6	435,700	18,585	94,100	29,392	22	31 .		7	36	1	3
	2	18,150	523	5,700	29.392	16	. 18	1	1	30	4	34
Dwenings	2,588	58	58	-,.00	221	6 -			-	6	1	17
	18	5,770,871	1,139,683	1,416,781	494 100	2 _			2	0 -		4
	29	170,500	4,666	18,300	424,162	2,480	92	16	471	2,049		
	29	171,950	13,212	29,750	2,810	7	11 _		411		219	1,244
Summer kitchens		1,500	1,500	525	5,046	17	12 _		1	15		13
	19	6,382	1,897	1,505	525	2			1 2	26		17
ails	8	28,180	9,170	29,000	1,275	19			14		2	
aundries	2	50	50	2,005	16,665	6	2 _		3	5	11	4
	17	55,200	6,002	87,700	15	1		1	1 -	5		2
ibraries	1	10	5	01,100	6,043	8	9	-	2		1	1
ight and power plants	3	37,500	241			1			2	12	1	11
ocomotive cab	12	42,200	19,565	85,100			1	1		1		
ocomotive cab	14	44,750	39,875		21,872	4	7	1		2		
odge halls and club houses	1	200	200	33,800	24,350	12	2	-	4	8	3	7
1100000	24	279,636	58,856	40,300		1			11	3	7	6
			20,000	40,300	20,317	9	15		1			
									4	16	9	10

Lumber—pile of	1			500	20	1 1			1			1
Lumber sheds	1	405	405	900	900	1			1		1	
Lumber yards	9	37,300	28,505	254,100	176,299	9			5	2	3	5
Machine sheds	7	2,400	2,075	7.550	6,750	7			6	ī	6	1
Meadows, grass and pastures	6	2,100	2,010	1.535	1,535	1			0		6	
Mills-Miscellaneous	5	28,670	21,500	41,700	12,900	5			4	1	4	1
Flour mills	4	68,500	52,680	88,000	21,322	1			1	2	1	0
Planing and saw mills	3	15,500	3,695	00,000	21,022	3			1	3	1	4
	1	3,000	100	5,000	25	1				1		п
Mill work plant	1	6,000	20 _	0,000	20	1				1		
Monastery Motion picture theaters	15	164,500	13,638	40,200	7,441	2	12	1		-		13
	1	8,000	20	40,200	7,741	1	12	1		14		13
Neal liquor cure	1	0,000	20 -	11,600	1,762	1	1			1		
News stands	1	2 200	105	11,000	1,702							1
Nurse's Home	63	3,800	105 -	169 000	ER 180		1 42			1	22	
Offices and office buildings	2	641,250	63,284	163,900	57,178	20		1	8	32	22	24
Oil filling stations		6,500	510	1,000	300		2			2		1
Oil houses	5	1,135	430	4,550	2,510	5			2	3	2	3
Oil warehouses	3	13,500	2,897	80,000	56,857	1	2		1	2	1	1
Outhouses	3	40	35 _			3			2	1		
Packing houses	2	28,000	110 _				2			2		
Pest house	1	15	15 _			1			1			
Photograph galleries	6	44,300	10,156	19,900	8,820	4	1	1	1	3	. 1	5
Platform	1	150	50 _			1				1		
Police station	1.	3,500	15				1			.1		
Pool halls and bowling alleys	28	183,800	21,906	62,925	18,210	18	10		11	13	9	12
Poor farms	2	20,800	20,800	3,100	3,100	1	1		2		2 -	
Pop corn and peanut stands	3	660	640	50	22	3			2	1	1	1
Post offices	5	1,800	1,800	31,250	810	3	2		3		1	3
Printing and publishing plants	12	129,300	7,133	284,500	13,119	4	7	1	2	7	- 1	8
Pumping stations	4	2,975	377	2,300	180	3	1			4		7.
Railroad ties-pile of	3 -		AL STREET	1,985	235	3					2	1
Restaurants and cafes	76	248,900	38,286	97,637	42,757	53	22	1	20	47	17	46
Round houses	7	42,125	30,698	19,830	14,415	6	1		3	4	2	3
Sand houses	1	100	50		179	1				1		
Scale houses	î	10	10			i			1	-		
School houses	53	556,540	177,191	51,015	21,618	30	22	1	24	27	18	10
Serum laboratories	4	67,000	27,535	32,500	27,500	2	2	1	1	3	1	1
Sheds	77	12,585	6,183	4,999	2,167	77	-		31	45	19	19
Shops—Auto repair	3	19,000	45	5,000	100	2	1		01	3	10 (1
	33	38,700	10,502	16,600	7,780	25	7	1	9	19	5	17
Bievele and motorcycle	2	700	50	3,600	423	1	4	1	9	19	0	2
	24		10,344	32,550	20,006	22	2		11	11	8	12
Blacksmith		21,700	80 -	32,000	20,000		2		11		0	12
· Boat building	1	5,000		10,000	4 004	1				1 5		
Carpenter	!	7,300	3,293	10,000	4,294	7			2	0	1	4
Carpet weaving	1	125	125 -	0 450		1			1			
Cobbler	8	4,675	677	3,450	960	6	2		1	5	1	9
Cooper	2	1,300	15 '-			2				2		

	8	Bui	ldings	Co	ntents	1	Gi					
	of fires	18 112	9.				Character of Buildings Affected					
	No. o	Value	Damage	Value	Damage	Wood	ck	Cement or stone	Lo Buil	ss on dings	Los	ss on tents
Dressmaker's Electrical repair Harness	1	25,000		1	Ä	A	Brick	Cen	Total	Partial	Total	Partia
	3	45,000	500 277		200							
Junk Machine	8	15,400	5,590	0,000	523	1	1			1		
Machine Paint	8	· 22,900	3,529	10,000	16,975	6	2 .			3		
PaintPlumbing	8	35,560	1,810	1,120	1,013	1	2 .		2	5		
Plumbing Shoe shining	3	400		59,300	2,520	6	4		2	6	2	
Shoe shining	8	63,150	25	500	25		2 -		2	0	1	4
Shoe shining Tailor Tin	1	6,000	4,410	11,699	6,516	3			4	4 -		7
Tin	9	22,300	72	500	26	5	3 _		2	2		1
Umbrella Woodworking	5	10,000	920	10,400	2,830		1 _		2	6		5
Woodworking	1	10,000	1,760	9,400	4,240	4	5			1		1
noke houses	1	5,000	469	1,100	368	4	1			8	1	6
ock chute	6		25	-,200	308		1		1	3	2	1
ock vards	1	365	135	434		1 -	-			1		1
One omissis	3	50	25	101	359	5	1			1		1
orage houses	1	500	116	300		1			3	3	3	
Pres—Art Auto salesrooms	45	1,000	50	300	300	3				1	0	1
Aut		115,910	17,829	162,300		1			1	2	1	
Auto salesroomsBook	1	1,200	10		28,081	40	5			1	1	
Book Butter and egg lowers	9	207,500	2,362	1,500	500	1	0		21	19	13	
Butter and egg louses	2	10,000	15	49,500	743	1				1	13	21
China Clothing	1	600	250	24,000	1,000	-1	8			7		1
Clothing Confectionery	1	38,700	21,460	150	30		2			1		5
Confectionery Drug	23	352,300	12,922	98,000	60,319	1				1		1
Drug Dry goods	10	74,000		364,000	28,444		1					1
Dry goods	33	230,665	9,629	48,000	11,275		21	2	2	1		1
Dry goods Electrical supply	16	60,500	90,501	276,770	114,677	2	8	1	4	15	1	19
Flour and food	3	6,500	8,287	1,132,600	102,602	7	25	1	11	6	2	7
Furniture	6	13,325	1,310	11,400	4,919	1	15		1	14	7	19
General merchandia	25	470,700	5,725	8,048		1	2			7	1	14
Grocorr		157,650	11,290	335,775	6,028	6			1	2		2
Grocery—Wholesale Hardware			59,566	295,306	53,591	3	19	3	3	3	3	3
Hardware	1	308,650	70,879	197,791	139,891	29	18	3	2	18	1	20
Hardware — wholesale		150 700		350,000	67,716	46	34	1	24	22	17	24
Hardware-wholesale	1	150,100	11,393	142,600	400		1	1	11	62	7	62
	1	96,000	65,000	001 00-	34,761	7	7					1
			- 1	001,000	311,000		1		4	9	3	10
							1	and the same of th	1	- 1	0	10

-	9
-	



Totals	4,953	319,576,141	\$ 3,665,447	\$12,107,137	\$ 3,550,798	4,103	740	65	1,301	3,332	921	2,237
Y. M. C. A. buildings	2	110,000	175	21,000	95		2			2		2
Wood-pile of	1			60	60	1					1	
Vater tanks	4	1,900	235			4				4		
Varehouses	26	133,627	24,813	110,931	54,599	20	6		8	16	6	15
Vagons	3	265	33	5,500	20	3				3		
Juleanizing plant	î	22,000	5	3,000	25	1				1		1
Voting house	1	800	10			1				1		
J. S. Biological Station	1	30,012	30,012	10,090	8,958	1			1			1
Fool houses	9	2,510	676	5,900	1,960	9			3	5	3	5
Threshing machines	1	600	600	940	940	1			1		1	
Theaters	12	226,000	67,579	71,500	50,125	1	7	4	2	9	3	3
Pents and awnings	4	275	145	300	90	*4			1	2		3
Temp bars	3	1,700	900	1,400	1,400	3			1	2	2	
l'elephone & telegraph poles	2	1,000	50	50	50	2				1	1	
l'annery	1			2,000	10		1					1
Street sprinklers	. 1	5,000	20			1				1		
Vacant	8	41,100	7,415			4	4		2	6		
Wallpaper	5	41,000	4,100	33,000	19,400		5			3	1	4
Ten cent	1	30,000	26,000	32,000	20,000		1			1		1
Tea, coffee and spices—wholesale_	1	43,000	3,390	151,871	13,796		1			1		1
Tea and coffee	1	600	150	1,500	692	1				1		1
Shoe	8	51,000	3,928	143,100	42,946	1	7			7		8
Sewing machine	1	3,000	3,000	3,000	1,200	1			1			1
Second hand	4	1,200	25	6,200	1,378	1	3			1		3
Poultry and produce	10	33,650	32,700	29,950	28,950	9	1		9	1	8	1
Piano	2	47,000	410	40,300	178	1	1			2		2
Notion	5	28,000	6,450	17,500	11,200	2	3		1	4	1	3
Music	1	60,000	0.450	8,000	2,400		1					1
Millinery	10	14,200	1,683	13,850	5,960	6	4		2	4	1	9
Men's furnishing	10	74.000	1 000	9,000	440		1					1
Mon's furnishing	24	93,400	9,080	32,489	7,385	11	12	1	3	21	3	18
Meat markets	24	1,500		900	150	1				1		1
Ladies' furnishing Marble and monument	1	44,000	842 300	49,000	17,764		3			3		3
Lodica' furnishing	3	29,700	2,740	37,050	9,745	3				b		7
Implement Jewelry	9		5,535	58,000		9 3	6		3	6	3	5
	11	43,700	9,365	20,500	9,680 31,095	0	2		0	-		=

^{*}Canvas.

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 1917.

Origin	Number of fires		Loss
Acetylene pipe leak	1	8	12
Acetylene welding machine	1		700
Adjoining fires	359		744,397
Alcohol explosion	2		55 25
Alcohol lampAshes against wood	27		7,043
Ashes in basement	4		2,385
Ashes in wooden receptacle	5		6,390
Asphalt tank overflowing	1	100	35
Automobile or motorcycle backfireAutomobile wreck	34		10,563
Automobile wreck	1		115
Baby carriage or crib against stove	2	100	199
Bed too near stove	7	+5	603
Blacksmith forge	10	1	95,746
Blow torch	10	- XI	11,548
Boiler explosion	2	134	5,600
Boring in gasoline tank with electric drill	35		26,750 $1,530$
Burning brush and leaves	11	18	2,592
Burning insects in hen house	3		60
Burning meadows or grass	11		3,102
Burning rubbish	26	WA.	11,215
Burning straw stacks	1	1	1,000
Candle earelessness	11		2,062
Canvas blown against salamander	1		150
Car heater carelessness	2	17	1,215
Charcoal fires	2		4,515
Chemical explosions	2		2,866
Children and matches	95		58,755
Children playing with fireChildren playing with powder	3	1	325
Children playing with shotgun	1		1,500 125
Christmas trees and decorations	2	1	40
Cleaning with benzine	ī		15
Clothing near gas or gasoline stove	3	i '	1,520
Clothes chute too near furnace pipe	1		25
Clothing on hot air register	1		552
Clothing on steam radiatorClothing, rags or bedding near stove or stove pipe	30	18.3	$\frac{200}{13,572}$
Coffee urn in restaurant	3	113	705
Curtains blowing into flame	8	13 1	728
	I MI		
Defective boiler	2	113	510
Defective electric wiring	83	19	262,007 45
Defective fireplace	31		11,199
Defective flues	456		572,202
Defective furnaces	12		13,328
Defective gasoline lighting system	4	1 7	14,535
Defective hot air pipes	9		26,393
Defective oil heater	7 25	NE.	785
Defective oil or gasoline stove	25		8,491 816
Defective oven in bakery	7	1	1,690
Defective stove	14	1 1	9,022
Defective tail light on auto	1		50
Defective valve in oil forge	1		50 10,675
Drawing gasoline by lamp or lantern light	.7		

TABLE NO. III—Continued

	1		
Origin	Number of fires	Loss	
The state of the s	4	4,693	
Electric heater carelessness	17	12,389	
Electric Iron carelessates	1	200	
Electric iron cartiessness Electric light in bed Explosion of auto engine Explosion of evide oil furnaces	2	21,750	
Explosion of add oil furnaces	2	53,042 252	
Explosion of dust in mill	2	10	
Explosion of crude on fundamental Explosion of dust in mill Explosion of gas stove Explosion of gas water heater explosion of gas water heater of gasoline stove	27	114,769	
Explosion of second stove	2		
Explosion of gasome sever Explosion of hot water coils in range	18		
Explosion a li booter	2		
Explosion of oil heater Explosion of soot in flue Explosion of soet in flue	1	840	
Explosion of steel converter	. 1	275	
Explosion of soft in flue Explosion of steel converter Explosion of turpentine and varnish	11	22,130	
t reaching tank by lantern light	10	4,634	
Filling auto gasoline tank by lantern light Fireworks Flame under water heater of steamer auto		1 20 10,400	
Fireworks Flame under water heater of steamer auto Friction of machinery		5 1,935	
Friction of machines	1,000	1 10	
		1 12,091 1 1,043	
Funzigation Furnace explosion or blow out Furnace or furnace pipes too near wood Furniture too close to fireplace	-		
Furniture too close to		3 2,121	
Gas explosion Gas or electric reater near woodwork	- 17.74	3 1,225 6 1,587	
Gas or electric heater near woodwork		6 1,587 1,091	
Gas explosion Gas or electric feater near woodwork Gas or gasoline jet flame Gas or gasoline iron carelessness Gas befor year nipe too near roof	T WAR	1 10	
Gas or gasoline iron carelessness Gas heater vent pipe too near roof. Gas leak	-	9 9,971 260	
Gas heater velle ppe Gas leak Gas stove carelessness		12 25,887	
Gas stove careteen		5 2,025	-
Gasolino Carelessa with		6 8,408 16 32,855	
Gasoline elgine backfire Gasoline explosion Gasoline explosion		16 32,855 25,010	,
Gasoline engine backing Gasoline explosion Gasoline lamp explosion		5 690)
Gasoline lamp exposition		51 19,821	
Gasoline leak Gasoline or oil stove carelessness Gasoline torch Gasoline in botel kitchen ventilator		2,150	
Gasoline torch Grease in hotel kitchen ventilator		3 280	
Grease in love		2 1,647	~
Grease on stove		$\begin{bmatrix} 2 \\ 1 \end{bmatrix}$ 1,647	
Heating tar on stove		2 525	5
Heating tar on scotte Hot box Hot iron against wood Hot iron is bed		2 56	6
		88 167,17	71
		10 9,75	58
Incendiary and probably incendiary Incubator		. 6	65
Incubator		-	
J'ack-o'-lantern			50
reine explosion		2 00	10
Kerosene engine explosion Kerosene in pan on stove Kindling or wood near stove or furnace			
Kinding of wood new		15 8,74	43
to the correlessness		14 19,96 8 15,50	585
Lamp or lantern carelessness Lamp or lantern explosion Lamp or lantern upset		1	50
Lamp of lattern described		1 5	550
Laro Kettra de lite tube		1	60 75
Leak in the least of the least		15 280,9	933
Leaky gas tank in automorphism and page gasoline			COF
Leak in Fresto he tube Leaky gas tank in auto Lighted match or torch near gasoline Lightning Lightning running in on wiring		1 2,5	200

TABLE NO. III-Continued

Origin	Number of fires	Loss
Lime carelessness	a	27
Live coal carelessness	1	8
Live coals dropping from grate or stove	9	6,49
Looking for gas leak with matches or torch-	1	25 1
Match carelessness	83	34,07
Motion picture films	7	2,08
Oil heating stove carelessness	17	11,29
Oily rag or mop carelessness Oil stove near wall or woodwork	6	3,06
Overheated bearings in auto	2	9 40
Overheated boiler	3	2,40
Overheated coffee roaster	1	40
Overheated electric motor or dynamo	8	65
Overheated exhaustOverheated feed cooker	1	4,00
Overheated flue	3 18	2,18 31,34
Overheated furnace	46	106,53
Overheated hot air pipes	12	15,14
Overheated kiln	1	1,50
Overheated oil heater	2	34
Overheated oven in lock factoryOverheated pulleys	1	5
Overheated steam pipes and radiators	1	40 64
Overheated stove	74	65,85
Overheated stovepipe	19	9,47
Paper box on exhaust pipe of auto	1	
Paper or rags in flue hole	5	2,71
Papers on or near stovePrairie fire	3 1	37
Pain on lime son		
Rain on lime carRendering lard	1	12
Rubbish in basement	7	1,90
Rubbish in or near building	. 4	1,44
Rubbish near stove or furnace	11	9,54
Seed tester	1	8,88
Short circuit in automobile wiring	17	84
Smoke house fires Smoker's carelessness	78	$\frac{3,12}{22,38}$
Smoking out bees	1	27
Sparks from boiler fire	1	1
Sparks from cupola	6	26
Sparks from exhaust pipeSparks from fire place	2	10,68
Sparks from flue	1,094	392,61
Sparks from flue hole in chimney	7	2,09
Sparks from gas heater	1	15
Sparks from gasoline engine	2	6,05
Sparks from locomotive	55	117,39 65
Sparks from stationary engineSparks from stove or furnace	18	6,62
Sparks from traction engine	11	21,11
Sparrows nest near chimney	1	1
Spontaneous combustion	130	170,25
Starting fire with coal oil	9	2,15
Starting fire with gasoline instead of coal oil	5 2	1,71
Steam pipes too near wood	1	3,17
Stove blow out or explosion	8	21,00
Stove too near unprotected wood or wall	39	19,20

TABLE NO. III—Continued

Origin	Number of fires	Loss
	_ 1	210
Stove in barn	_ 2	225
Stove upset	49	19,546
Stove upset Stove upset wall or roof.	2	990
	15	13,267
Sun's rays through window————————————————————————————————————	_ 1	900
Switch in electric car not turned	1	1,700
	1	15
Tar kettle boiling over	47	27,088
Tarring fish rets over included	4	1,325
Thawing frozen water pipes	9	25,267
Tramps	948	3,061,163
Unknown	6	16,928
Vulcanizing machine	2	3,106
Warming auto engine with fire	1	350
Warming auto engine with fire	4,953	\$ 7,216,24

TABLE NO. IV.

Giving the Cities and Towns in Which Inspections of Dilapidated Buildings and Inflammable Conditions Have Been Made During the Year 1917, 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	Cleanup and repair	Cleanup
ckley	July	9	40		2	3	1	
del	Jan.	8	2	1	1			
lbia	March	3	1					
Alden	March	30	1			1		
dta	Dec.	8	1			1		
imes	Oct.	9	23			1		2
namosa	Feb. March	9	6 10	6	2	2	2	
namosa	Dec.	17	10		1	2	2	
rlington	June	18	4	2		1		
tlantic	Feb.	10	36			1	4	1
tlantic	Sept.	1	3	1			2	
voca	March	26	1			1		
voca	Sept.	1	. 2					
Bayard	Dec.	20	15	1	1	790		
Sonaparte	July	16	2	1	1			
Boone	Feb.	28	1	1		1		
righton	April	11	î			1		
Surlington	Aug.	7	6			3		
arson	Oct.	13	2			1		
edar Rapids	March	19	3	3		-		
entral City	March	8	2					
hariton	March	6	1					
Chariton	July	9	1					
harles City	Aug.	28	5	1				
Ainton Soon Rapids	June	19	5	5				
orning	Dec.	20	4		1	1	1	
ouncil Bluffs	March	26	3	3		1		
reston	Jan.	18	4	1	1		1	
urlew	March	9	8			1		
urlew	Nov.	30	1			1		
ylinder	Nov.	27	2		1	1		
anbury	July	18	12		*			
avenport	Sept.	12	4	3				
ecorah	March	21	2		2			
elta	Sept.	11	14	4	1		3	
es Moines	March Feb.	15	1			1		
es Moines	Feb.	21	1		1			
es Moines	Feb.	23	2		1		2	
es Moines	Feb.	24	2		1			
es Moines	Feb.	28	1					2000
es Moines	March	1	1					
es Moines	March	2	1		1			
es Moines	March	16	1		1			
es Moines	April May	16 28	2	2				
es Moines	May	31	1		1			
es Moines	June	5	1	1				
es Moines	June	23	1	1				
es Moines	June	26	22		9	1	. 2	
es Moines	June	27	7			6	-	
es Moines								

TABLE NO. IV--Continued

Elkader May 15.	City	Date	Number inspections	Remove	Repair	Change	Cleanup and repair	Cleanup
Des Moines		Luly 21	3		1		1 -	
Des Moines Nov. 23.	Des Moines	o car						
Des Moines Nov 23	Des Moines		. 1					
Des Moines Dec 10	Des Moines	2101.	1					-
Des Moines Dec 17.		701.	_ 1		1			1
Des Moines Dec. 26.			_ 1					
Description Discription	Des Moines							
Dibuque June 19.	Des Moines	Dec.	_ 17		_ 5	1	1	
Dubuque Jaly 18.	Dike	- O CLL	_ 1					-
Dubuous Jan. 4. 1 1 1 1 1 1 1 1 1	Dubuque		_ 1		_ 1			
Dumont D	Dubuque	- 0 00.3	_ 1					
Eagle Grove		_ oun.	6	5		1		
Eagle Grove	Dunlap	- 1443		Same Street		1	1	
Eagle Grove Nov. 28.	The state of the s	June 25						2
Eldora March 9 30	Eagle Grove					1		
Elkader	Eldon						1	
Elikader May 15.	Eldora	Oct. 22				2	1	2
Entitle Sept 24	Elkader				1		-	
Septerville Sept. 24.					1		7	
Fairbank								
Fairfield Feb. 21. 5 5 2 2	Estherville		1		1			
Fairbank	FXIIIe			* -			the second	
Fairfield	Hairbank				0	2		
Fairfield						1		
Farmington	Fairfield							
Fenton	Farmington				4			
Fonda	Fonton							
Fond	Fonda			7		2		_ 5
Garden Grove	Fonda							
Garden Grove April 4	Fort Dodge	Aug. 20	-					200 man
Garden Grove March 9 1 1 2 2 1 2 2 1 2 2 1 2 2 1 2 2 1 1 2 3 3 2 2 1 1 2 3 3 2 2 1 1 2 4 2 3 3 2 2 1 1 3 3 2 2 1 1 3 3 3 2 3 3 3 3 3 3 3 3 4 3 3		Ammil 4		7	1	1	1	2
Gladbrook Glenwood Glenwood July 26 35 35 2 1 2 1 2 1 35 35 35 35 35 35 35	Garden Grove	Libin		1				2
Glenwood July 26.					1	1		
Glenwood Jan. 26.	Glenwood		8	5		2	- 2	14
Glidden June 4	Glenwood				2			1
Gowrie Grand River Aug. 4 1 1 1 1 1 1 1 1 1	Glidden							-
Grimes G	Gowrie							
Harlan								
Harlan		March 7		2		1		
Harlan	Grundy Center	THE RESERVE TO SERVE	1		1-11-			1
Hartford May Hartford Harvey March 14	Harlan	000.						
Harvey	Hartford						1	
Hawarden Nov. 1	Harvey						1	
Hayesville	Hawarden						1	
Henderson	Havesville							
Holy Cross	Henderson	ILDIII						1
Hopeville	Holy Cross	March 7			1			
Hopkinton	Hopeville	1			1			
Humboldt	Hopkinton				6		2	
Humboldt		1101.		1				
Indianola	Humboldt	Doc.			1			1 7
Jewell		Aug. 10		10	2			-
Jewell May 24	Indianola					9		1
Kalona Oct. 27. 1	z 11	May 24		8	1	2		
Kalona Oct. 27. Kamrar May 16. Kellogg Oct. 20. Kensett March 6. Keota June 20. Keota Juny 30. Juny 24. 1 1	Jewell			-			1	
Kamrar	Valona							1
Kellogg Oct. 20 6 1 1							1	
Kensett March 6 2 2 2		000.			1	1		
Keota July 30 1 1 1	Kongett.	Miller			9			
Keota July 24 1 1	Keota							
		(6) (4.2)		1				
	Kingsley			1	1			
Knoxville March 14		March 14			The state of the			

TABLE NO. IV-Continued

		AGO SE	Number inspections				Cleanup and repair	
	13/6		eti.	Φ		5.3	100	0.
City		Date	ped	Remove	ï	96	leanup, repair	Inc
			nsi	B	pa	an	ep	981
			N.T	Re	Repair	Change,	5,	Cleanup
						-		
	T	α .	0	19	2		2 12578	- 14 - 1
Lake Park	Jan. March	8	2		1			
Lake Park	July	10	2		-		1	
Lamoni	J'uly	30	ĩ	1			*	
Logan	Oct.	6	7			1		5
Lynnville	March	6	2		1	1		
						77.7	B	
Malvern	May	19	3					
Manilla	Nov.	9	1			1		
Manning	Jan.	27	15	2	1			6
Manning	March	22	3	1	1		1	1
Marcus	Oct. March	5 6	1 2	1				
Marengo	Sept.	27	25	10	1	1	5	7
Marshalltown	Oct.	18	6	4	20.	1		2
Marshalltown	Nov.	16	3	2				
Marshalltown	Dec.	5	1	1				
Martelle	March	14	1	1				
Mason City	March	6	1	1				
Mason City	May	14	4	2				1
Mason City	Oct.	9	4	1				
Mason City	Dec.	6	1 6	1	1	3		
Mason City	Dec. March	31	1		1	1		
Menlo	Feb.	9	2	1		1		
Mondamin Montezuma	July	5	1	1		1		
Monticello	Feb.	8	1	1		-		
Morrison	Nov.	9	1	1				
Muscatine	Sept.	12	7	4	1	1		1
A SECTION OF THE RESERVE OF THE PARTY OF THE								
New Sharon	Jan.	31	1	1				
Newton	March	5	3	2				1
Newton	July Nov.	5	1	1				1
Newton	Oct.	19	1		1			1
Nichols	Oct.	19	1		1			
Oelwein	June	18	4	1		2		1
Oelwein	Dec.	28	5	1				
Onawa	June	14	3	1			2	
Onawa	Aug.	21	4					4
Osceola	March	23	4		2		2	
Osceola	Oct.	12	2	1		1		
Cskaloosa	Jan.	31	$\frac{1}{2}$	2				
Oskaloosa	Feb. Sept.	23	4	2				
Oskaloosa	March	21	2	1			1	
Ottumwa	March	26	2	2			-	
Ottumwa	Sept.	13	3	1		1	1	
Ottumwa	Oct.	3	2	1				
		The little		-	10.19		- KI	ALL STATES
Paton	Aug.	6	11		1			
Pomeroy	Feb.	14	1		1			
Postville	Oct.	10	1			1		
Onimbe	Aug.	21	1		1	1		
Quimby	Aug.	21	1					
Red Oak	July	27	1				1	
Reinbeck	March	7	3			2		1
Rippey	July	13	5	4			1	
Riverton	Dec.	3	1	1				
Rockwell City	May	22	6					2
Rowan	Nov.	17	1	1				
G-1-4 1-4)	15		6		1 - 1	,		1
Saint Anthony	May March	6	6	1		1	1	3
Searsboro	Dec.	13	3	1		1		0
Sheldon	Sept.	10	1					1
Shenandoah	July	24	3	1				î
					A PROPERTY OF THE PARTY OF THE			

TABLE NO. IV-Continued

City	Date	Number inspections	Remove	Repair	Change	Cleanup and repair	Cleanup
Sidney Sioux Rapids Spirit Lake	July 25	3 1 16 3 4 7 6	1 3 1 2 6 5	2 1 1	1 1 -	1	9
Stratford	Aug. 13 Feb. 22 March 17 Nov. 27 June 23	1 8 1 5	52	1	1	2	3
Union Valley Junction Villisca	March 28 Aug. 25 March 24	3 4 7	8	2	1 1	2	1 4 3
Washington Waterloo Waterloo Waukee	Jan. 5 July 10 Oct. 11 Jan. 8 Nov. 17	5 1 1 5	1	1	1		5
Wellsburg West Union Williams Williamsburg Winterset	June 18 Sept. 10 Feb. 16 Aug. 10 March 7	3	3 1 7	2			1 1
Woden	- March	835	176	71	81	57	200

TABLE NO. V.

Giving Places at Which Investigations of Fires of Suspicious Origin Have Been Made During the Year 1917, and the Date When Such Investigation began.

County	Place	Date Commencing Investigation
Adams	Corning	August 10
Appanoose	Exline (near)	August 6
Benton	Urbana	July 25
Black Hawk	Waterloo	January 18
Buena Vista	Sioux Rapids Storm Lake	November 23 January 24
Calhoun	Rockwell City (3 fires)	February 13
Carroll	Coon Rapids (3 fires)	
Cass	Griswold (3 fires)	April 25
Jerro Gordo	Mason City Rockwell	
Cherokee	Washta	November 2
Ohickasaw	New Hampton	December 29
Clarke	Murray (near) (3 fires) Osceola Osceola	March 1
Clayton	Littleport (near) Marion Township	March 21 October 18
Dallas	Redfield Scandia Waukee (near)	April 18 March 9 January 8
Davis	Union Township	March 23
Decatur	Grand River Grand River Grand River Township	March 6
Des Moines		
Dickinson		January 3
Dubuque	Dubuque (2 fires) Dubuque (2 fires)	February 9 July 16
Floyd	Charles City	August 27
Fremont	Sidney (near)	July 25
Greene	Jefferson	March 29
Grundy	Washington Township	January 3
Guthrie	Guthrie Center	January 31
Hamilton	Liberty Township	June 21

TABLE NO. V-Continued

	Place	Date Commencing Investigation
County		
		March 30
	Alden (near)	March 30 March 29
Iardin	Alden (near)	March 29
	Iowa Falls	March 28
	Union Township	Outshow 98
	River Sioux	October 20
Harrison		October 9
Harrison	Chester	
Howard	Chester	October 13
Howard	Marengo	
Iowa		September 28
	Kellogg	July 5
Jasper	Newton (near)	November 6
	Newton (near) Newton	
		May 15
		Lanuary 10
Jefferson	Batavia (near)	April 26
	Glasgow (near)	February 24
	Batavia (near) Glasgow (near) Pleasant Plain	September 10
		September
Keokuk	Delta Keswick (3 fires)	
MUMUN	Keswick (o 1120)	July 27
	Algona	
Kossuth	Algona	November 26
Robbatt	Keokuk	
Les	Reorda	December 26
	Cedar Rapids	
Linn	gramahin	January 9
	Elm Grove Township	October 1
Louisa	Wapeno	
	Benton Township	March 5
	Benton Township	January 29
Lucas	Oskaloosa	
Mahaska	Oskaloosa Rose Hill (near)	
"Vlanaska	Rose IIII (IIII)	December 7
	Albion	Angust 23
Marshall	AlbionFerguson	May 28
Mula	Ferguson	
	Henderson	
Mills		June 13
	Onawa	August 21
Monona	Onawa	15 2
		March 3
Monroe	Albia	
Monroe	Albia	December 7
	Hocking	DOCO
	Hocking (near) Moravia (near)	Decomes
	Moravia (Mona)	July 27
	Red Oak (near)	January 24
Montgomery	Villisca	
		April 24
	Atalissa (2 fires)	
Muscatine		
	Shenandoah	· · · · · · · · · · · · · · · · ·
Page		Wohrliary o
Tlamouth	Elkhorn Township Hancock Township	May 16
Plymouth	Hancock Township	May 25
	Kingsley Le Mars	August 21
	I a Wars	
	Altoona (near) Bloomfield Township	November 12
Polk	Pleomfield Township	April 23
	Bloomfield Township Crocker	
	Des Moines (2 fires) Des Moines (2 fires)	April 2

TABLE NO. V-Continued

County	Place	Date Commencing Investigation
The second second	Des Moines	April 17
	Des Moines	May 5
	Des Moines	May 10
	Des Moines	May 22
	Des Moines	May 24
	Des Moines	May 29
	Des Moines	
	Des Moines	August 14 August 15
	Des Moines	October 30
	Des Moines	
	Des Moines	December 18
	Grimes	August 4
	Oralabor	January 20
	Runnells (near)	February 7
	Ryder	March 9
	Walnut Township	April 27
	Walnut Township	December
Pottawattamie	Council Bluffs (2 fires)	January 25
	Council Bluffs	June 7
	Council Bluffs	
	Neola	February 8
Poweshiek	Malcom Township	March 21
story	Ames	June 19
	Ames	October 9
	Kelley (near)	May 18
	Nevada	September 24
	Nevada	October 1
Taylor	Conway	July 23
Union	Afton	October 1
	Creston (2 fires)	Manuary 17
	Creston	January 23
	Creston	April 18
	Lorimor	September 5
	Shannon City	February 19
Wapello	Agency	November 6
		May 16
	Agency City (near) (2 fires)Ottumwa (2 fires)	October 3
Vahatan		
Webster	Fort Dodge (3 fires)	August 20
	Fort Dodge	August 27 September 4
The state of the s		
Vinneshiek	Decorah	March 20
Woodbury	Danbury	July 17
	Leeds	February 9
	Salix	June 4
	Sioux City (3 fires)	February 9
	Sioux City	March 21
	Sioux City (2 fires)	May 17 June 5
	Sioux City (2 fires)	October 25
- Table 5	A STATE OF THE PARTY OF THE PAR	
Wright	Clarion	April 16

