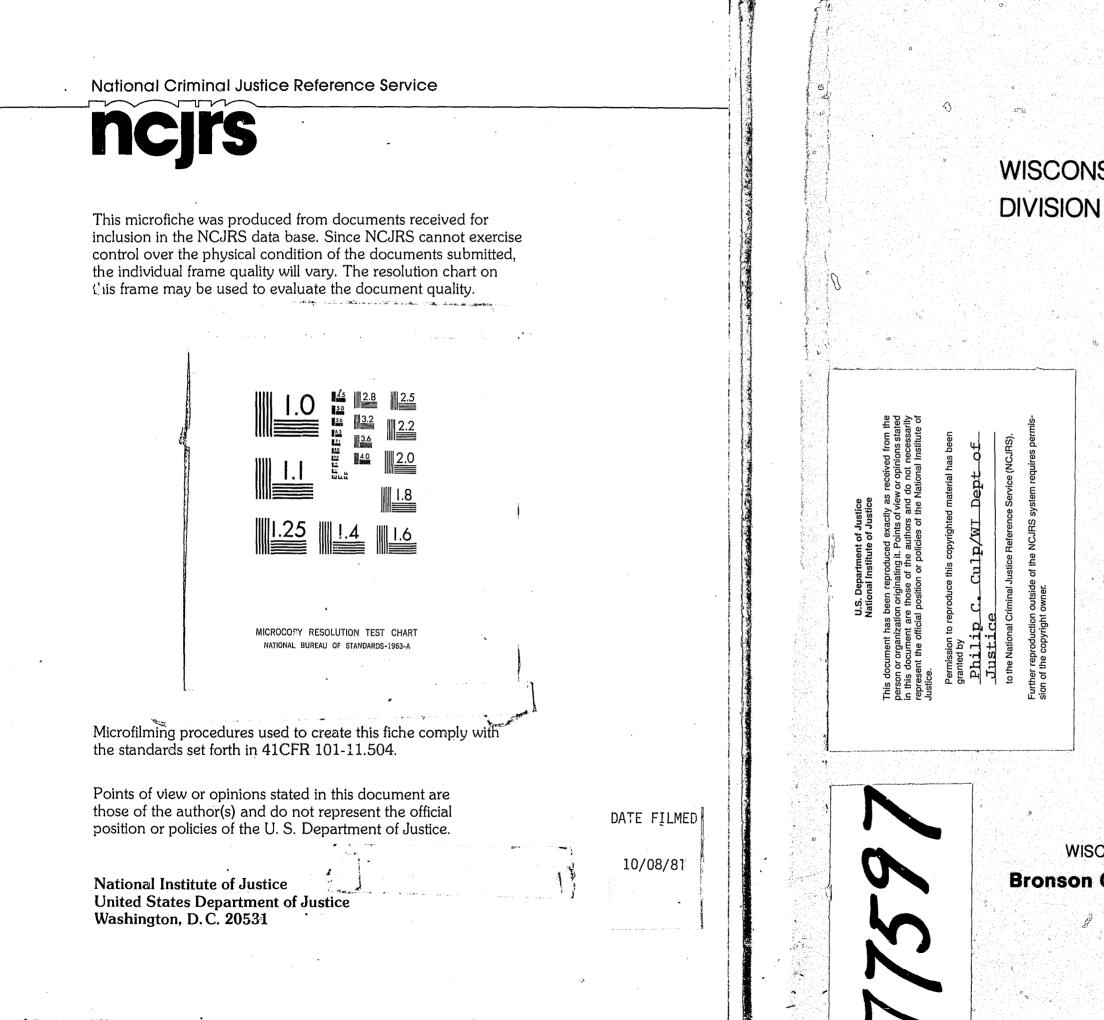
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1978

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WISCONSIN DEPARTMENT OF JUSTICE DIVISION OF CRIMINAL INVESTIGATION ARSON BUREAU

ANNUAL REPORT



Prepared by the WISCONSIN DEPARTMENT OF JUSTICE Bronson C. La Follette, Attorney General

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FRANK A. MEYERS, ADMINISTRATOR DIVISION OF CRIMINAL INVESTIGATION STATE FIRE MARSHAL

> NCJRS MAY 4 1981 ACQUISITIONS

Page

ORGANIZATION:

The Administrator of the Division of Criminal Investigation is the State Fire Marshal. Operational activities are assigned to the Arson Bureau which is one of the four bureaus of the Division. The Bureau consists of a director and nine deputies who are located throughout the state as follows:

Madison Philip C. Culp, Director Eau Claire Henry C. Fiege Eldon L. Fremming Park Falls Gerald Haffner Milwaukee Kermit R. Krupka Milwaukee William Lundy Madison Leslie A. Meyer Weyauwega Joseph P. Murray Appleton James Olsen Milwaukee Paul R. Sainsbury Madison

The headquarters office of the State Arson Bureau is located at 123 West Washington Avenue, Madison, Wisconsin 53702, 608-266-1671.

FUNCTIONS:

The Arson Bureau serves as a supplement to the fire service and local law enforcement. Services provided include:

a. Investigative assistance on fires of known or suspected incendiary origin;

b. Investigative assistance on bombings and explosions of suspected criminal origin;

c. Investigative assistance on fatal fires of undetermined origin;

d. Training in fire and arson investigation.

SECTION I - ARSON BUREAU REPORT

-1-

RESPONSIBILITY FOR FIRE AND ARSON INVESTIGATION:

Fire chiefs are responsible* for investigating every fire in which damage exceeds \$500 and where the investigation shows that the fire may be of incendiary origin, that fire must be reported to the State Fire Marshal. Accordingly, the responsibility for fire and arson investigation is as follows:

- a. Fire chiefs are solely responsible for fire investigation.
- b. Fire chiefs and the State Fire Marshal have joint responsibility for arson detection.
- c. The State Fire Marshal and local law enforcement have joint responsibility for arson investigation.

*Section 165.55, Wisconsin Statutes, reads:

"165.55(1). The chief of the fire department or company of every city, village and town in which a fire department or company exists, and where no fire department or company exists, the city mayor, village president or town clerk shall investigate or cause to be investigated the cause, origin, and circumstances of every fire occurring in his city, village or town by which property has been destroyed or damaged when the damage exceeds \$500, and on fires of unknown origin he shall especially investigate whether the fire was the result of negligence, accident or design. Where any investigation discloses that the fire may be of incendiary origin, he shall report the same to the state fire marshal."

SUMMARY AND ANALYSIS

REQUESTS FOR ASSISTANCE:

During 1978, the Arson Bureau received 688 requests for assistance from local units of government. These requests actually covered over 715 separate incidents since some requests covered a series of fires. This is a 52% increase over requests received in 1977. 44% of the requests were received from the City of Milwaukee. It requested assistance on 315 different occasions during 1978 which represents a 1,000% increase in requests from that city.

163 requests were declined for a variety of reasons including lack of access to the premises and excessive overhaul of the fire scene but the overriding reason was workload. This is double the number of requests which were declined in 1977. It should also be noted that 55% of the decline investigations were in the City of Milwaukee. If Milwaukee is excluded, then declined requests were comparable to previous years.

INVESTIGATION:

525 investigations were initiated by the nine(9) man Arson Bureau during 1978. The fact that an investigation was made does not necessarily indicate that the incident was of criminal origin. During the year, about 53% of the cases were found to be incendiary, 22% accidental, 20% undetermined and the remaining 5% were pending as of December 31, 1978.

The percentage of incidents found to be incendiary increased by 6% over 1977, accidental fires decreased by 15% and undetermined fires increased by 10%. Based on the percentage changes between accidental and incendiary incidents, it would appear that local fire departments are doing a better job of investigating fires before requesting Arson Bureau assistance. It may also be an indication that Arson Bureau training efforts are beginning to pay dividends.

The increase in undetermined fires can probably be attributed to two factors. First, there have been an unusually large number of fires in abandoned buildings in Milwaukee. Many of these buildings are inhabited by vagrants who start fires to keep warm. It is often impossible to differentiate between a warming fire which got out of control and an intentionally set fire. Second, the Arson Bureau has changed its operating procedure in regard to nonincendiary fires. In the past, an effort was made to determine the specific accidental cause of these fires. However, in view of excessive Bureau workload and increasing demands to involve fire marshals in civil litigation, little or no effort is now made to determine specific accidental causes. Therefore, fires which would previously have been listed as accidental are being listed as undetermined.

INCENDIARY LOSSES:

The damage caused by fires, explosions and bombings of known incendiary origin <u>investigated by the Arson Bureau</u> was about \$8.2 million. This is an 88% increase over 1977 and an 80% increase over the five year average. It should be stressed that these figures apply only to cases investigated by the Arson Bureau and that the statewide loss from arson is about \$10.6 million. It is believed that these substantial increases reflect three factors: first, there has undoubtedly been an increase in arson in the state; second, inflated building replacement costs are responsible for some of the increase; and third, reporting of incendiary fire losses was greatly improved during 1978.

-3-

CASE DISPOSITIONS:

During the year, the Arson Bureau completed 229 full scale investigations. 179 of these cases were determined to be arson and a suspect was apprehended in 48% of the arsons. A total of 73 adult charges were issued and 18 juveniles were referred to the juvenile court system.

54 Arson Bureau cases were finally adjudicated during 1978. 78% resulted in conviction or commitment to a mental institution. 37% of those convicted received prison sentences averaging about 4 years; 63% received probation with the average probationary period being about 3 1/2 years.

MOTIVES:

The Bureau attempts to establish and classify motive in each full scale investigation completed. While motive is not an element of the crime of arson, few prosecutors will accept an arson case without some evidence of motive. Motives are also of some value in spotting trends. 1978 followed a relatively normal pattern in regard to motive. Approximately 10% of the fires were attributed to arson for profit, 43% to various sociological motives, and in 47% of the cases no apparent motive could be determined.

FATAL FIRES:

During the year the Bureau investigated 27 fatal fires involving 48 fatalities. In most of these cases, an accidental cause for the fire was established. In 2 cases, the cause of the fire was definitely established to be arson. A suspect has been apprehended in one of these cases.

GEOGRAPHICAL DISTRIBUTION:

During 1978, the Bureau conducted investigations in 68 of the 72 counties in the state. There are 10 counties each having populations over 100,000. These 10 counties accounted for 55% of the total population and 63% of the requests for investigation. By contrast, there are 48 counties in the state having populations under 50,000. These counties have 13% of the population and they accounted for 23% of the requests for investigation.

In previous years, each of these categories accounted for approximately 40% of the requests and it is apparent that in 1978, the unusually large number of requests from the City of Milwaukee has distorted these figures. For example, if the City of Milwaukee requests are adjusted out of the computation, then 32% of the requests came from counties with populations of 100,000 or more and 42% came from counties with populations under 50,000.

TRAINING:

During 1978, the Arson Bureau conducted 32 separate training sessions for 1,238 students. Subjects covered included fire investigation, arson recognition, and basic arson investigation. In addition, the Bureau co-sponsored the Annual Wisconsin Arson Seminar which was attended by approximately 250 police and fire officials. The 1978 training effort was comparable to 1977 except that there was a 25% increase in attendance at the Arson Seminar.

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			q	SECTION II - TABLE	75	
				TABLE 1		
				INVESTIGATIONS		
					1977	1978
			Fires		338	516
	4		Explosion/Bombi TOTAL	ng	<u>11</u> <u>349</u>	9 525
				TABLE 2		
				CAUSES		
			Incendiary Accidental		163 131	276 113
	• •		Accidental Juveniles(no ma	licious intent)	131 2	7
			Undetermined Other/unfounded		35 0	106 13 10 525
			Pending TOTAL	L	18	10
			TOTAL		<u>18</u> <u>349</u>	525
	5					
·				TABLE 3		
				INCENDIARY LOSSES	5	
	э. (-х	<u>1974</u>	1.975	1976	1977	<u>1978</u>
		\$4,200,000	\$3,400,000	\$5,900,000	\$4,300,000	\$8,200,000
·		, _,,,,	, _ , _ , _ , _ , _ , _ ,		, , , , , , , , , , , , , , , , , , , ,	+ 0 / 2 0 0 / 0 0 0
				TABLE 4 CASE DISPOSITIONS	5	
	· 9				<u>-</u>	
\cdot			Arson		86	57
			Criminal Damage	ing of burning ma ted Comicide	2 aterials 4	0
			Homicide/Attemp	oted Comicide	3	2
			Other crimes Committed to me	ental institutions	11 5 4	6 7
			Other dispositi	ental institutions ons venile authority	1	0
			TOTAL	entie authority	<u>24</u> <u>135</u>	0 18 91
	•					
	•					
	•					
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TABLE 5 SENTENCING

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	1 <u>977</u>	1978
Cases Adjudicated:	48	54
Dismissed-defendant committed Dismissed-lack of evidence Defendant found not guilty Convicted:	5 4 3	7 11 1
Sentenced to prison Suspended sentence & probation Pending 12/31/78	15 21	13 22 36
TABLE 6 MOTIVES		
Fraud Political Mental:	20 0	19 0
Pyromania Psychopathic Vandalism Spite Crime cover-up Vanity Unknown TOTAL	11 16 27 18 12 0 59 163	3 19 20 33 6 2 77 179
TABLE 7 FATAL FIRES BY CAUSE	• •	
Accidental - various causes Incendiary - Homicide Unknown - undetermined TOTAL	18 6 <u>1</u> 25	21 2 4 27

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COUNTY

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Adams Ashland Barron Bayfield Brown Buffalo Burnett Calumet Chippewa Clark Columbia Crawford Dane Dodge Door Douglas Dunn Eau Claire Florence Fond du Lac Forest Grant Green Green Lake Iowa Iron Jackson Jefferson Juneau Kenosha Kewaunee LaCrosse Lafayette Langlade Lincoln Manitowoc Marathon

TABLE 8 GEOGRAPHICAL DISTRIBUTION

and a second second

1977	1978	COUNTY	1977	<u>/</u> 1978
3 5 2 3 2 1 0 4 2 5 1 3 2 2 1 3 2 2 1 3 2 2 1 3 2 2 1 3 2 2 1 3 2 2 1 3 2 2 1 3 2 2 1 3 2 2 1 3 2 2 2 1 3 2 2 2 1 3 2 2 2 1 3 2 2 2 2	1 0 2 2 8 2 4 3 6 1 9 4 6 5 0 2 5 6 1 6 4 9 1 2 1 2 5 4 1 1 0 5 3 2 1 2 7	Marinette Marquette Menominee Milwaukee Cou Milwaukee Cit Monroe Oconto Oneida Outagamie Ozaukee Pepin Pierce Polk Portage Price Racine Richland Rock Rusk St. Croix Sauk Sawyer Shawano Sheboygan Taylor Trempealeau Vernon Vilas Walworth Washburn Washington Waukesha Waupaca Waushara Winnebago Wood	12 1 0 1 2 2 2 1 4 22 10 1 2 3 1 7 11 1 5 4 7 10 5 6 4 7 10 5 6 4 7 10 5 6 4 7 10 5 5 6 4 3 7 11 1 3 7 11 1 3 7 11 1 3 7 11 1 3 7 11 1 3 7 11 1 3 7 11 1 3 7 11 1 3 7 11 1 3 7 11 1 3 7 11 1 3 7 11 1 3 7 11 1 3 7 11 1 3 7 11 1 3 7 11 1 3 7 18 5 11 13 7 18 11 13 7 18 5 11 13 7 18 5 11 13 7 18 11 13 7 18 11 13 7 18 11 13 7 18 11 13 7 18 11 13 7 18 11 13 7 18 11 13 7 18 11 13 7 18 11 13 7 11 13 7 11 13 7 18 11 13 7 18 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 7 11 13 13 11 13 11 13 11 11 11	6 4 6 22 315 1 6 2 9 5 1 3 10 9 5 8 4 5 5 8 7 3 1 6 2 3 3 2 21 0 3 14 10 8 9 11 6 88

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Joseph N. Noll Secretary

SECTION III

1978

WISCONSIN FIRE LOSS STATISTICS

Prepared by the

WISCONSIN DEPARTMENT OF INDUSTRY, LABOR AND HUMAN RELATIONS

DIVISION OF SAFETY AND BUILDINGS

John Wenning Division Administrator

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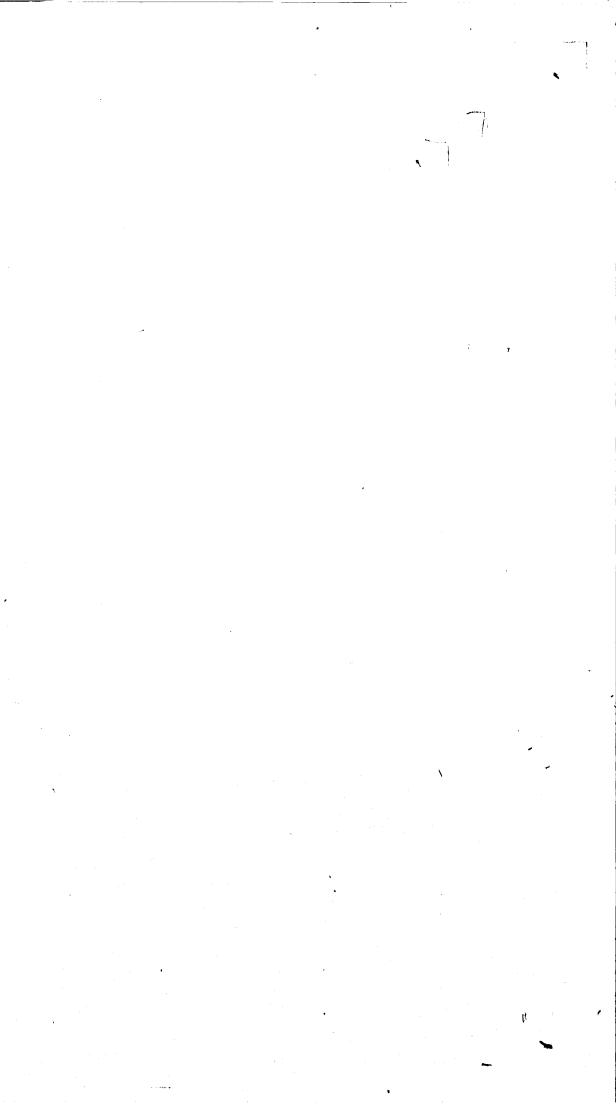
WISCONSIN FIRE LOSS STATISTICS

INTRODUCTION:

Pursuant to Section 101.141, Wisconsin Statutes, Wisconsin fire loss statistics are compiled by the Department of Industry, Labor and Human Relations from reports submitted by the insurance industry.

1978 STATISTICAL HIGHLIGHTS:

- --14,287 fire losses were reported resulting in damage of \$59.7 million. 88.7% of this loss was covered by insurance.
- ---The 14,287 fire losses reported represents an increase of 63.8% from 1977.
- --The total dollar loss attributed to fire increased 11.4% from 1977.
- ---The percent of incendiary and suspicious fires did not increase or decrease significantly during the year. The related dollar loss increased 9.8%.
- --- 55% of all fires were attributed to lightning.
- --5.2% of all fires were attributed to defective wiring.
- --8.5% of all fires involving 28.1% of the total fire Josses were listed as being of undetermined origin.
- --21.3% of all fires and 24.7% of the total fire loss involved 1 to 4 family dwellings.
- --Barn fires increased 68.9% from 1977.
- ---Vehicle fires increased 3.4% and the dollar loss from such fires increased 40.5%.



FIRE LOSS	SES	ΙN	WISCONSIN
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ТҮРЕ	0F	PR(OPERTY

TYPE OF PROPERTY		Number of Fires		ount of mage
	1977	1978	1977	1978
Apartments Amusement Arcades,Billiard Parlors Boats Boat Houses, Docks, Marina Bowling Lanes Broadcasting: Radio, Television Business Establishments, Other Churches, Church Properties Club Houses, Lodges, YMCA Coal Yards, Lumber Yards Construction Company & Equipment Dairy Products Mfg. Dry Cleaning, Laundries; Commercial Dry Cleaning, Laundries; Self-Service Dwellings-Urban (1-4 family) Educational Institutions Elevators, Grain Storage, Feeds Mills Factories Filling Stations, Fuel Depots FARM: Barns	223 1 13 2 13 5 86 18 9 10 7 4 2 7 2,545 20 17 78 20 477	257 -0- 17 4 11 156 21 13 10 9 7 8 11 3,043 31 14 63 15 806	\$ 2,170,813 320 17,994 1,751 177,434 2,858 881,491 293,577 118,084 99,601 23,757 3,877 11,053 17,907 11,785,246 1,258,355 974,796 4,075,649 176,053 6,062,878	-0- 19,961 100,554 302,092 32,729 2,484,112 489,400 177,358 392,648 86,732 6,105 41,527 20,469 14,748,158 2,969,748 191,361 2,177,710 72,775 6,874,187
Brooders, Poultry Houses Dwellings - Rural Graneries, Silos Hay, Straw, Grain, etc. Hog Houses Milk Houses Livestock Machinery, etc. Outbuildings, etc. Tractors, Trucks	9 2,305 75 32 12 72 169 371 55 402	15 4,964 79 65 21 344 982 1,207 39 389	130,950 10,128,541 209,160 25,627 30,113 34,751 149,648 334,848 355,377 362,005	103,178 10,499,137 137,582 249,480 142,084 113,079 763,212 510,589 241,996 313,312

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Insurance Paid

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1977	1978
2,182,415	<pre>\$ 1,776,206</pre>
272	-0-
16,859	17,535
1,601	72,841
102,424	281,493
2,708	32,029
789,769	2,093,965
281,743	446,853
42,703	150,019
99,401	325,822
21,561	81,774
3,877	5,791
11,123	40,921
17,240	19,649
10,767,606	14,565,484
1,742,944	2,227,463
800,356	151,475
3,814,311	1,913,428
111,586	50,105
5,237,042	5,876,466
92,507	91,402
8,703,750	9,179,778
177,206	126,191
25,387	183,767
24,940	117,460
32,452	108,209
143,106	792,187
325,658	489,956
304,571	178,959
344,030	289,727

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	1112 0	FRUPERIT		
TYPE OF PROPERTY	'PE OF PROPERTY Number of Fires		Amount of Damage	
	1977	1978	1977	1978
Garages - Private Garages - Commercial Halls, Meeting Houses Hospitals, Sanitariums Hotels <u>INSTITUTIONS: PUBLIC BUILDINGS:</u> City County Federal State Other Meat Packing, Food Processing Mills - Lumber Mills - Paper Motels Nursing, Convalescent Homes Off Premises Personal Property Offices, Commercial Buildings Parks, Campsites Power Plants Restaurants, Supper Clubs, etc. Rooming Houses, Fraternities, etc. Seasonal Dwelling - Private Seasonal Dwelling - Commercial Sheds, Shacks, etc. Storage, Warehouses Stores, Shops Supermarkets	316 11 2 5 13 4 0 7 3 6 4 0 15 4 0 15 4 7 3 0 83 6 9 15 78 69 99 2	276 11 1 6 13 18 3 0 8 16 4 1 23 6 43 29 3 6 43 29 3 3 99 3 77 10 54 54 97 11	1,137,765200,5312,82957,481139,79849,450-00-183,93319,330220,213227,772-0-348,2898065,504844,01313,817-0-1,436,51747,307548,539113,314427,3191,510,4622,870,9141,994	990,177 38,104 2,000 19,818 772,660 77,311 4,731 15,142 -0- 2,559 860,943 107,187 110,471 462,039 22,575 37,488 357,140 3,987 21,916 2,055,043 2,865 623,812 70,861 241,483 1,966,400 1,072,733 332,937
	Garages - Private Garages - Commercial Halls, Meeting Houses Hospitals, Sanitariums Hotels <u>INSTITUTIONS: PUBLIC BUILDINGS:</u> City County Federal State Other Meat Packing, Food Processing Mills - Lumber Mills - Paper Motels Nursing, Convalescent Homes Off Premises Personal Property Offices, Commercial Buildings Parks, Campsites Power Plants Restaurants, Supper Clubs, etc. Rooming Houses, Fraternities, etc. Seasonal Dwelling - Private Seasonal Dwelling - Commercial Sheds, Shacks, etc. Storage, Warehouses Stores, Shops	TYPE OF PROPERTY1977Garages - Private316Garages - Commercial11Halls, Meeting Houses2Hospitals, Sanitariums5Hotels13INSTITUTIONS: PUBLIC BUILDINGS:4City4County4Federal0State7Other3Meat Packing, Food Processing6Mills - Lumber4Mills - Paper0Motels15Nursing, Convalescent Homes47Parks, Campsites3Power Plants0Restaurants, Supper Clubs, etc.83Rooming Houses, Fraternities, etc.69Seasonal Dwelling - Private69Seasonal Dwelling - Private69Seasonal Dwelling - Commercial15Sheds, Shacks, etc.78Storage, Warehouses69Storage, Warehouses69Storage, Warehouses69Storage, Warehouses69Storage, Warehouses69Storage, Shops99	TYPE OF PROPERTYNumber of Fires19771978Garages - Private316Garages - Commercial111111Halls, Meeting Houses2111Hospitals, Sanitariums566Hotels131NSTITUTIONS: PUBLIC BUILDINGS:City4County0State7Other3State7Other3Meat Packing, Food Processing6Mills - Lumber444Mills - Lumber444Motels15Nursing, Convalescent Homes4616Off Premises Personal Property1597293Parks, Campsites333Power Plants033Restaurants, Supper Clubs, etc.839977Seasonal Dwelling - Private69775Seasonal Dwelling - Commercial1510543Sheds, Shacks, etc.7854545078545050999997	TYPE OF PROPERTY Number of Fires An Da 1977 1978 1977 Garages - Private Garages - Commercial 316 276 1,137,765 Garages - Commercial 11 11 200,531 Halls, Meeting Houses 2 1 2,829 Hospitals, Sanitariums 5 6 57,481 Hotels 13 13 139,798 INSTITUTIONS: PUBLIC BUILDINGS: 13 13 139,798 City 4 18 49,450 County 0 3 -0- State 0 3 -0- Other 3 8 19,330 Matt Packing, Food Processing 6 16 220,213 Mills - Lumber 4 4 227,772 Motels 15 23 348,289 Nursing, Convalescent Homes 4 6 806 Off Premises Personal Property 15 43 5,504 Offices, Commercial Buildings 47 <td< td=""></td<>

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TYPE OF PROPERTY

Insurance Paid

1977	1978
941,872	952,348
184,918	37,516
2,779	2,000
56,416	19,218
136,925	525,915
46,951	76,561
-0-	4,556
-0-	12,342
177,695	-0-
18,071	2,409
181,963	577,594
142,374	107,137
-0-	85,471
289,042	390,871
756	21,662
5,339	28,741
868,976	299,114
13,526	3,887
-0-	21,416
1,138,194	1,926,060
46,912	2,665
471,970	534,870
84,734	58,294
432,483	214,737
1,363,499	1,646,069
2,769,407	953,007
1,894	330,513

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TYPE OF PROPERTY	Number of Fires		of of		Insur Pa	
	1977	1978	1977	1978	1977	1978
Taverns Tents Theaters, Arenas, Auditoriums Trailers, House Trailers - Other Vehicles - Private Vehicles - Commercial Service & Repair Shops Snowmobiles Miscellaneous	84 3 2 167 9 463 3 25 4 24	100 1 4 182 6 472 10 23 1 3	1,169,000 1,427 22,871 953,598 15,725 494,443 18,141 544,347 2,630 39,306	1,159,135 331 34,632 998,974 7,582 689,004 31,518 285,628 85 1,408	1,010,507 1,254 13,508 840,926 15,525 475,634 17,791 414,521 2,163 37,459	650,141 281 34,379 820,009 7,029 668,916 24,397 235,696 85 1,189
TOTAL	8,720	14,287	\$ 53,583,899	\$59,712,232	\$ 48,427,132	\$ 52,964,397

TYPE OF PROPERTY

-13-

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	FIRE LOSSE	S IN WISCONSI	N	
	CAUS	by E OF FIRE		
CAUSE OF FIRE		umber of Fires		ount of mage
	1977	1978	1977	1978
Accidental,Miscellaneous Ashes, Embers, Rekindle Bonfires, Grass, Rubbish Candles, Lanterns Children at Play, Matches Chimney Fires Christmas Trees, Lights, Floods Clothes Dryers Collisions, Wrecks, Overturns Cooking Fires, Burner Carelessness ELECTRIC:	51 39 108 88 170 276 7 56 7 528	85 37 55 55 193 295 6 81 2 583	512,884 367,977 758,337 299,915 1,368,614 895,042 32,469 317,644 14,155 1,606,523	770,944 112,585 297,565 299,484 972,218 1,084,433 119,748 200,026 8,800 1,363,418
Fencers Heaters Heat Lamps Heating Pads, Blankets Irons, Mangles Light Bulbs, Lamps, Fixtures Motors - Defective Radios Refrigerators, Freezers Stoves Television Toasters Washing Machines Other Appliances - Heavy Other Appliances - Light Wiring - Defective Other - Surges, Accidents	56 65 22 28 2 75 56 11 29 117 109 26 12 30 52 967 66	2 72 20 33 11 77 31 9 28 54 40 30 7 19 76 746 39	2,632 486,586 192,177 70,340 420,057 428,611 3,023 91,741 699,242 406,521 34,240 5,072 88,231 106,739 10,365,892 224,834	12,928 428,072 151,917 93,712 5,849 1,632,091 288,824 59,332 347,912 445,658 165,763 36,899 9,862 328,325 494,581 11,440,722 118,134

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1977	1978
485,523	1,837,662
353,797	107,003
543,343	259,992
279,384	282,676
1,265,499	897,124
812,389	909,967
31,139	113,390
306,204	195,248
13,955	7,389
1,041,750	1,290,157
2,304	8,428
458,989	392,073
160,504	149,624
68,469	87,520
444	4,365
411,523	1,574,185
333,189	257,420
2,843	57,738
88,886	285,141
626,581	338,038
392,519	191,233
27,126	34,995
4,478	9,536
76,147	299,860
105,252	388,965
9,913,829	9,688,935
219,049	98,268

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Insurance Paid •

CAUSE OF FIRE	Number of Fires		Amount of Damage		Insurance Paid	
	1977	1978	1977	1978	1977	1978
EXPLOSIONS:						
Boilers, Heaters	21	3	129,543	7,472	104,745	7,272
Dust	3	-0-	4,676	-0-	4,212	-0-
Dynamite, etc.	3	-0-	97,430	-0-	96,436	-0-
Flammable Liquids	11	15	105,070	135,095	86,462	120,119
Gas-Natural, LP	48	16	537,972	186,695	486,329	142,09
Exposure	98	72	645,649	437,619	729,420	408,86
Fire Places	99	111	436,112	550,810	462,047	505,83
Fireworks	2	5	34,856	49,729	34,706	49,46
Flammable Liquid Accidents, Fumes	72	67	2,148,898	1,019,972	2,513,552	824,30
Gas Leak	44	45	375,670	311,918	326,412	241,54
Gas Stove, Heaters	22	40	216,445	148,135	198,629	131,20
Gasoline Engines, etc.	• 7	13	39,454	21,699	38,124	20,98
Grease, Tar, etc.	55	14	109,028	34,904	105,995	33,88
Heating Plants (Defective)	185	171	1,104,949	1,371,271	978,093	1,202,28
Heating Plants (Explosions)	71	50	294,431	142,843	252,047	114,06
Incendiary,Suspicious, Vandalism	354	357	4,236,241	4,651,745	3,978,065	4,064,18
Incinerators	4	4	762,299	62,047	567,695	54,63
Industrial Accidents	16	14	94,463	259,716	87,741	230,85
Lawnmowers	13	3	3,449	2,704	3,171	2,60
Lightning	1,574	7,869	1,055,870	4,865,540	977,005	4,463,57
Matches(Carelessness)	28	19	98,312	26,927	93,478	26,67
Material in Contact	36	14	177,660	100,763	153,645	99,85
Open Flame	6	4	41,195	12,791	40,592	12,69
Smokers Carelessness	315	289	1,481,699	1,757,908	1,437,997	1,600,08
Sparks	121	94	973,424	761,308	748,666	725,17
Sparks-Locomotives	2	1	44,654	17,235	27,162	7,44
Spontaneous Ignition	100	137	1,054,559	1,650,833	937,790	1,348,21
Steam Pipes	6	6	5,112	25,920	4,847	25,77

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CAUSE OF FIRE

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	CA	USE OF FIRE		
CAUSE OF FIRE		Number of Fires	Amount of Damage	
	1977	1978	1977	1978
Stoves, Space Heaters, etc. Thawing Pipes Torches - Blow, Welding, etc. <u>VEHICLES:</u>	183 32 47	167 10 43	1,186,618 264,311 192,443	1,234,727 90,731 792,931
Exhaust-Backfire Fuel System-Carburator Wiring, Ignition Other-Miscellaneous Snowmobiles Unknown or Undetermined TOTAL	33 125 416 106 1 <u>1,407</u>	37 126 466 98 5 1,216	74,699 151,789 356,990 184,222 324 15,063,205	52,182 156,312 451,080 221,065 7,098 16,802,705
TUTAL	8,720	14,287	\$53,583,899	\$59,712,232

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Insurance Paid				
1977	1978			
1,101,403 207,451 191,730	1,156,847 76,400 766,154			
67,365 147,154 351,319 175,144 324 13,385,056	51,267 150,723 419,116 196,121 6,596 13,910,559			
48,427,132	\$52,964,397			

END