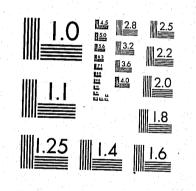
National Criminal Justice Reference Service



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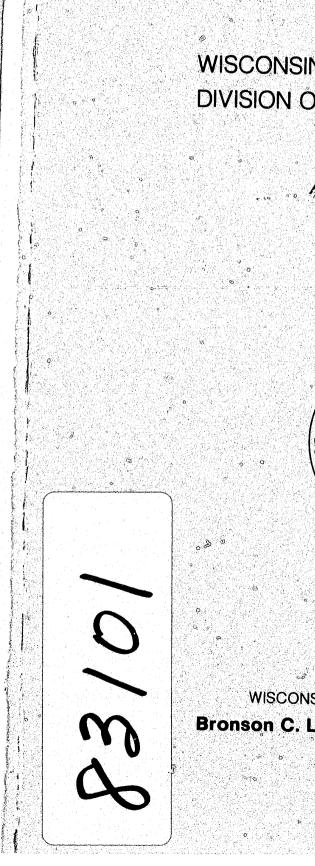
MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A

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National Institute of Justice United States Department of Justice Washington, D. C. 20531





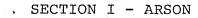
1978 WISCONSIN DEPARTMENT OF JUSTICE

DIVISION OF CRIMINAL INVESTIGATION ARSON BUREAU CR Snot 8-20-8

ANNUAL REPORT



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



Organization Functions- -Responsibili Requests for Investigatic Incendiary L Case Disposi Motives - -Fatal Fires Geographical Training- -

SECTION II - TABLES

SECTION III - 1978

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

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Wisconsin Fire Loss Statistics -	9 9		16

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SECTION I - ARSON BUREAU REPORT

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:

Philip C. Culp, Director

Henry C. Fiege Eldon L. Fremming Gerald Haffner Kermit R. Krupka William Lundy Leslie A. Meyer Joseph P. Murray James Olsen Paul R. Sainsbury

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:

- incendiary origin;
- suspected criminal origin;
- d. Training in fire and arson investigation.

Madison

Eau Claire Park Falls Milwaukee Milwaukee Madison Weyauwega Appleton Milwaukee Madison

a. Investigative assistance on fires of known or suspected

b. Investigative assistance on bombings and explosions of

c. Investigative assistance on fatal fires of undetermined origin;

-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 investigated by the Arson Bureau 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.

- n. . . .

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 ... 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.

-4-

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.

	SEC
Fire Expl TOTA	s osion/Bombing L
Ince Acci Juve	ndiary dental niles(no mali
Unde	termined r/unfounded ing
	<u>IN</u>
<u>1974</u>	<u>1975</u>
\$4,200,000 \$3	,400,000 <u>CA</u>
Negl: Homic Othe: Comm Othe:	inal Damage igent Handlin cide/Attempte r crimes itted to ment r disposition rred to juven
TOTA	5

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ECTION II - TABLES

TABLE 1 INVESTIGATIONS		
	<u>1977</u>	<u>1978</u>
ing	338 $\frac{11}{349}$	516 9 525
TABLE 2 CAUSES		
alicious intent) 1	163 131 2 35 0 18 349	$276 \\ 113 \\ 7 \\ 106 \\ 13 \\ 10 \\ 525 \\$
TABLE 3 INCENDIARY LOSSES		
<u>1976</u>	<u>1977</u>	<u>1978</u>
\$5,900,000	\$4,300,000	\$8,200,000
TABLE 4 CASE DISPOSITIONS		

و موسود او به بود ما دود میسه ورسی دروی بازیاری میشد. در مارسه از مساور برای و ماه استور می دروی بازیار در از ا

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ing of burning materials ted Homicide	4 1 3 2
ental institutions .ons	$\begin{array}{ccc}11&&6\\&4&&7\\&1&&0\end{array}$
venile authority	18
	<u>135</u> <u>91</u>

-6-

TABLE 5 SENTENCING

	1977	1978		
Cases Adjudicated:	48	54		
Dismissed-defendant committed	5	7		COUNTY
Dismissed-lack of evidence	4	11	6	Adams
	3	1		Ashland
Defendant found not guilty	J	-	1	Barron
Convicted:	1.5	13	II.	Bayfield
Sentenced to prison	21	22		Brown
Suspended sentence & probation	<u>د</u> ۲	36		Biown Buffalo
Pending 12/31/78		20		Burnett
				Calumet
TABLE 6		general de la serie		Chippewa
MOTIVES				Clark Columbia
	20	19		Crawford
Fraud	20	0		Dane
Political	V	V .		
Mental:	11	3		Dodge
Pyromania	16	19		Door
Psychopathic	27	20		Douglas Dunn
Vandalism	18	33		Eau Claire
Spite	12	6		Florence
Crime cover-up	0	2		Fond du Lac
Vanity	59	77		Forest
Unknown	$\frac{33}{163}$	179		Grant
TOTAL	<u> </u>			Green
				Green Lake
				Iowa
TABLE 7	and a second			Iron
FATAL FIRES BY CAUSE				Jackson
	10	01		Jefferson
Accidental - various causes	18	21		Juneau
Incendiary - Homicide	6 1	2 4		Kenosha
Unknown - undetermined	고			Kewaunee
TOTAL	25	<u>27</u>		LaCrosse
				Lafayette
				Langlade
				Lincoln
			4.	Manitowoc
그렇게 그 것으로 그 것 그 것을 물었어야?				Marathon

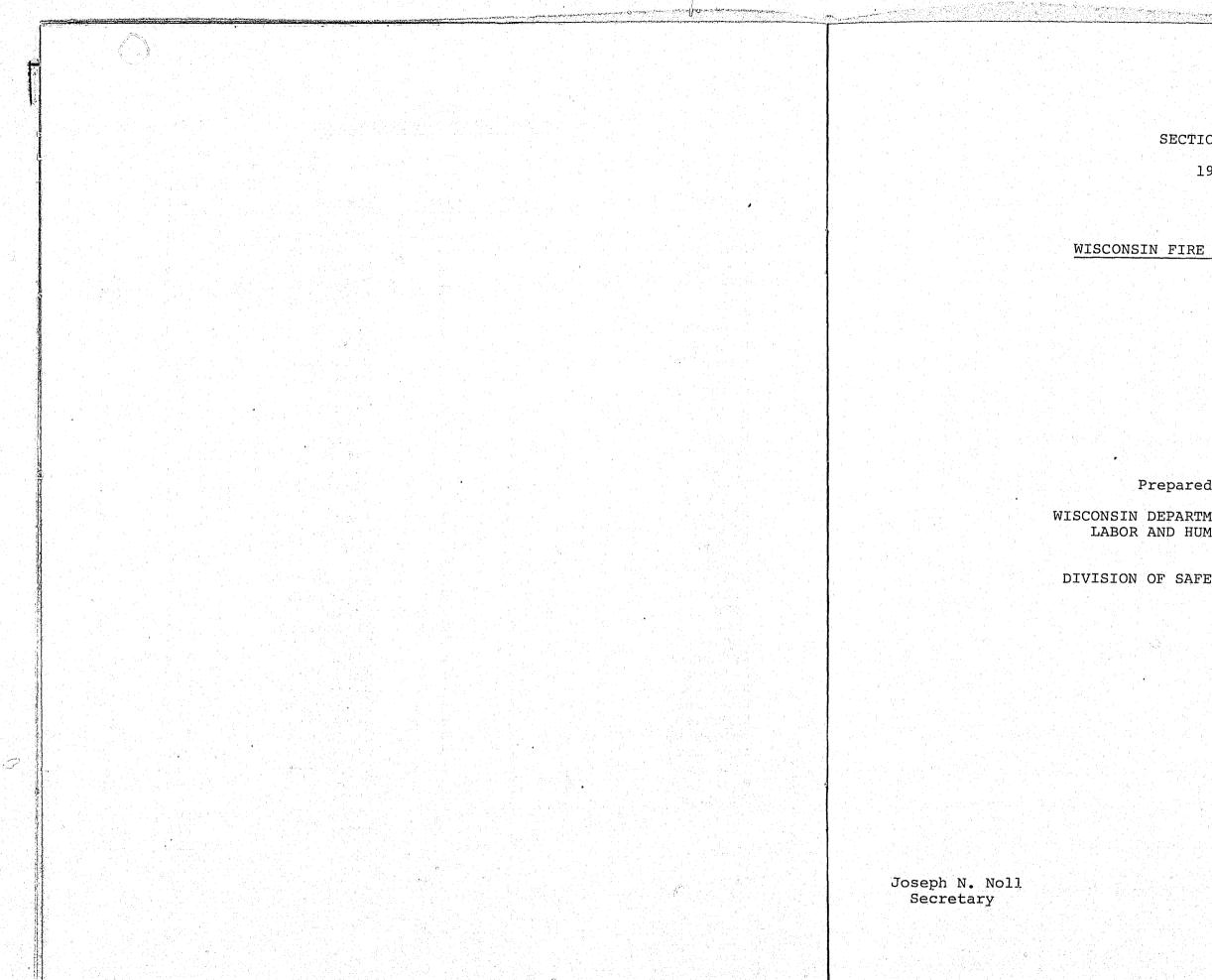
TABLE 8 GEOGRAPHICAL DISTRIBUTION

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1977	1978	COUNTY	1977	1978
$ \begin{array}{c} 3\\5\\2\\3\\21\\0\\4\\2\\5\\1\\0\\4\\2\\5\\1\\0\\3\\21\\4\\0\\4\\14\\6\\3\\7\\3\\9\\2\\1\\3\\1\\3\\4\\6\\12\\0\\2\\4\\6\\0\\2\\4\\6\\0\end{array} $	1978 1 0 2 2 8 2 4 3 6 1 9 4 26 5 0 2 5 6 1 6 4 9 1 2 5 4 1 2 5 4 1 0 2 5 6 1 9 4 26 5 0 2 5 6 1 9 4 26 5 0 2 5 6 1 9 4 26 5 0 2 5 6 1 9 4 26 5 0 2 5 6 1 9 4 26 5 0 2 5 6 1 9 4 26 5 0 2 5 6 1 9 1 2 5 6 1 9 1 2 5 6 1 9 1 2 5 6 1 6 1 9 1 2 5 6 1 6 1 9 1 2 5 6 1 6 1 9 1 2 5 6 1 6 1 9 1 2 5 6 1 6 1 9 1 2 5 6 1 6 1 9 1 2 5 6 1 6 4 9 1 2 5 4 1 0 5 5 4 1 1 2 5 4 1 1 2 5 4 1 1 2 5 4 1 1 2 5 4 1 1 2 5 4 1 1 2 5 4 1 1 2 5 4 1 1 2 5 4 1 1 2 5 4 1 1 2 5 4 1 1 2 5 4 1 1 2 5 7 7 7 7 7 7 7 7 7 7 7 7 7	COUNTY Marinette Marquette Menominee Milwaukee County Milwaukee City Monroe Oconto Oneida Outagamie Ozaukee Pepin Pierce Polk Portage Price Racine Richland Rock Rusk St. Croix Sauk St. Croix Sauk St. Croix Sauk Stawyer Shawano Sheboygan Taylor Trempealeau Vernon Vilas Walworth Washington Waukesha Waupaca Waushara Winnebago Wood	12 1 0	1978 6 4 6 22 31.5 1 6 2 9 5 1 3 10 9 5 8 4 5 8 7 3 1 6 2 9 5 8 4 5 8 7 3 1 6 2 9 5 1 6 2 9 5 1 3 10 9 5 8 4 5 8 7 3 1 6 2 9 5 1 3 10 9 5 8 4 5 8 7 3 1 6 2 9 5 1 3 10 9 5 8 4 5 8 7 3 1 6 2 9 5 8 4 5 8 7 3 1 6 2 9 5 8 4 5 8 7 3 1 6 2 9 5 8 4 5 8 7 3 1 6 2 9 5 8 4 5 8 7 3 1 6 2 9 5 8 4 5 8 7 3 1 6 2 3 1 6 2 3 1 6 2 3 1 6 2 3 1 6 2 3 1 6 2 3 1 6 2 3 1 6 2 3 1 6 2 3 1 6 2 3 1 6 2 3 1 6 2 3 1 6 2 3 1 6 2 3 1 6 2 3 1 6 2 3 1 9 5 8 7 3 1 6 2 3 1 9 5 8 7 3 1 6 2 3 1 9 5 8 7 3 1 6 2 3 1 9 5 8 7 3 1 9 1 1 6 2 3 1 9 1 1 1 6 2 1 9 1 1 1 6 2 1 1 9 1 1 1 1 1 1 1 9 1 1 1 1 1 1 1 1 1 1 1 1 1
3 5	7	TOTAL	459	688
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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

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.

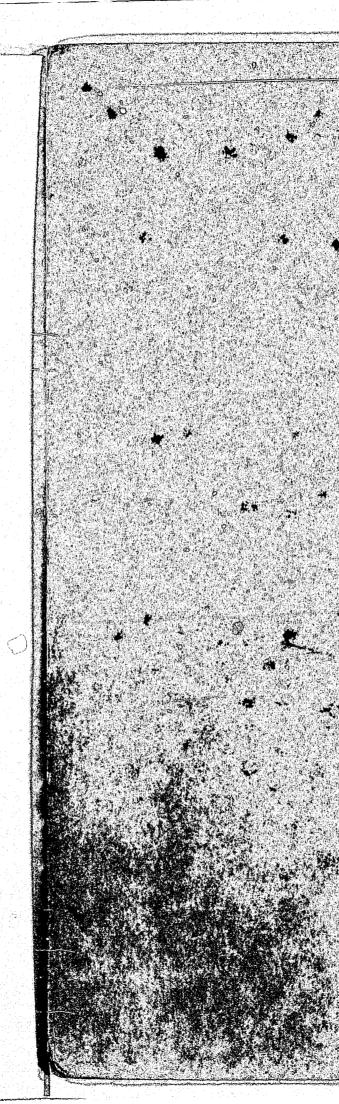
1978 STATISTICAL HIGHLIGHTS:

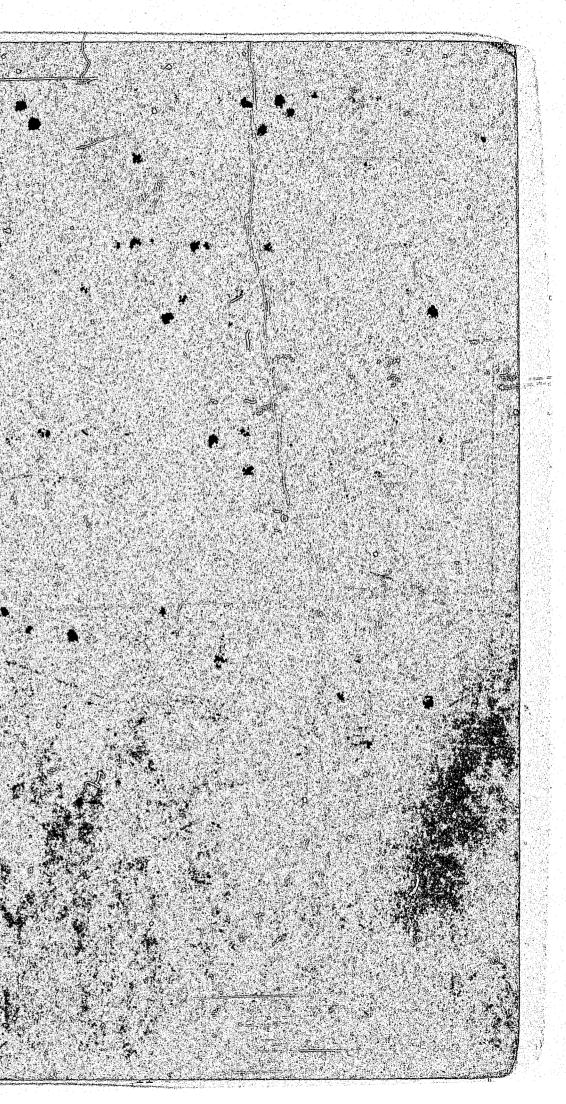
- --14,287 fire losses were reported resulting in damage of \$59.7 million. 88.7% of this loss was covered by insurance.
- --The 14,287 fire losses reported represents an increase of 63.8% from 1977.
- --The total dollar loss attributed to fire increased 11.4% from 1977.
- ---The percent of incendiary 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 losses 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.

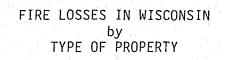
--Barn fires increased 68.9% from 1977.

--Vehicle fires increased 3.4% and the dollar loss from such fires increased 40.5%.

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TYPE OF PROPERTY	Number of Fires			ount of mage
	1977	1978	1977	1978
Apartments	223	257	\$ 2,170,813	
Amusement Arcades,Billiard Parlors	1	-0-	320	-0-
Boats	13	17	17,994	19,961
Boat Houses, Docks, Marina	2	4	1,751	100,554
Bowling Lanes	13	11	177,434	302,092
Broadcasting: Radio, Television	5	11	2,858	32,729
Business Establishments, Other	86	156	881,491	2,484,112
Churches, Church Properties	18	21	293,577	489,400
Club Houses, Lodges, YMCA	9	13	118,084	177,358
Coal Yards, Lumber Yards	10	10	99,601	392,648
Construction Company & Equipment	7	9	23,757	86,732
Dairy Products Mfg.	4	7	3,877	6,105
Dry Cleaning, Laundries; Commercial	2	8	11,053	41,527
Dry Cleaning, Laundries; Self-Service	7	11	17,907	20,469
Dwellings-Urban (1-4 family)	2,545	3,043	11,785,246	14,748,158
Educational Institutions	20	31	1,258,355	2,969,748
Elevators, Grain Storage, Feeds Mills	17	14	974,796	191,361
Factories	78	63	4,075,649	2,177,710
Filling Stations, Fuel Depots	20	15	176,053	72,775
FARM:				C 074 107
Barns	477	806	6,062,878	6,874,187
Brooders, Poultry Houses	9	15	130,950	103,178
Dwellings - Rural	2,305	4,964	10,128,541	10,499,137
Graneries, Silos	75	79	209,160	137,582
Hay, Straw, Grain, etc.	32	65	25,627	249,480
Hog Houses	12	21	30,113	142,084
Milk Houses	72	344	34,751	113,079
Livestock	169	982	149,648	763,212
Machinery, etc.	371	1,207	334,848	510,589
Outbuildings, etc.	55	39	355,377	241,996
Tractors, Trucks	402	389	362,005	313,312
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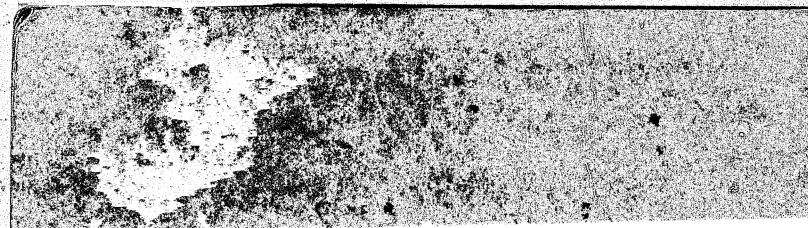
- <u>1</u> 1 -

Insurance Paid

\$

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

		TYPE OF PROPERTY					
	TYPE OF PROPERTY		mber of ires		Anount of Damage		
		1977	1978	1977	1978		
	Garages - Private Garages - Commercial Halls, Meeting Houses Hospitals, Sanitariums Hotels	316 11 2 5 13	276 11 1 6 13	1,137,765 200,531 2,829 57,481 139,798	990,177 38,104 2,000 19,818 772,660		
	INSTITUTIONS: PUBLIC BUILDINGS: City County Federal State	4 0 0 7	18 3 3 0	49,450 -0- -0- 183,933	77,311 4,731 15,142 -0-		
=12-	Other Meat Packing, Food Processing Mills - Lumber Mills - Paper	3 6 4 0	8 16 4 1	19,330 220,213 227,772 -0-	2,559 860,943 107,187 110,471		
	Motels Nursing, Convalescent Homes Off Premises Personal Property Offices, Commercial Buildings	15 4 15 47	23 6 43 29	348,289 806 5,504 844,013	462,039 22,575 37,488 357,140		
	Parks, Campsites Power Plants Restaurants, Supper Clubs, etc. Rooming Houses, Fraternities, etc.	3 0 83 6	3 3 99 3	13,817 -0- 1,436,517	3,987 21,916 2,055,043		
	Seasonal Dwelling - Private Seasonal Dwelling - Commercial Sheds, Shacks, etc.	69 15 78	77 10 54	47,307 548,539 113,314 427,319	2,865 623,812 70,861 241,483		
	Storage, Warehouses Stores, Shops Supermarkets	69 99 2	54 97 11	1,510,462 2,870,914 1,994	1,966,400 1,072,733 332,937		



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

			99 - 199 - 199 - 199 - 199 199 199 - 199 - 199 199 - 199	<u></u>		•
	TYPE OF	PROPERTY				
TYPE OF PROPERTY	Nu	mber of ires	ti e stati stati (ount of mage	Insuran Paid	nce I
	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		\$ 52,964,397

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CAUSE OF FIRE	FIRE LOSSES IN WISCONSIN by CAUSE OF FIRE CAUSE OF FIRE Amount of of Fires Damage						
	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 70,340 680 420,057 428,611 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			



Insurance Paid	
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

			a			8 6 10 10	
CAUSE OF FIRE	CAUSE OF FIRE CAUSE OF FIRE of Fires			E Amount of Damage		Insurance Paid	
	1977	1978	1977	1978	1977	1978	
EXPLOSIONS: Boilers, Heaters Dust Dynamite, etc. Flammable Liquids Gas-Natural, LP Exposure Fire Places Fireworks Flammable Liquid Accidents, Fumes Gas Leak Gas Stove, Heaters Gasoline Engines, etc. Grease, Tar, etc. Heating Plants (Defective) Heating Plants (Explosions) Incendiary, Suspicious, Vandalism Incinerators Industrial Accidents Lawnmowers Lightning Matches(Carelessness) Material in Contact Open Flame Smokers Carelessness Sparks Sparks-Locomotives Spontaneous Ignition Steam Pipes	$\begin{array}{c} 21\\ 3\\ 3\\ 11\\ 48\\ 98\\ 99\\ 2\\ 72\\ 44\\ 22\\ 7\\ 55\\ 185\\ 71\\ 354\\ 4\\ 16\\ 13\\ 1,574\\ 28\\ 36\\ 6\\ 315\\ 121\\ 2\\ 100\\ 6\end{array}$	$\begin{array}{c} 3\\ -0-\\ -0-\\ 15\\ 16\\ 72\\ 111\\ 5\\ 67\\ 45\\ 40\\ 13\\ 14\\ 171\\ 50\\ 357\\ 4\\ 14\\ 3\\ 7,869\\ 19\\ 14\\ 4\\ 289\\ 94\\ 1\\ 137\\ 6\end{array}$	$129,543 \\ 4,676 \\ 97,430 \\ 105,070 \\ 537,972 \\ 645,649 \\ 436,112 \\ 34,856 \\ 2,148,898 \\ 375,670 \\ 216,445 \\ 39,454 \\ 109,028 \\ 1,104,949 \\ 294,431 \\ 4,236,241 \\ 762,299 \\ 94,463 \\ 3,449 \\ 1,055,870 \\ 98,312 \\ 177,660 \\ 41,195 \\ 1,481,699 \\ 973,424 \\ 44,654 \\ 1,054,559 \\ 5,112 \\ \end{array}$	7,472 -0- 135,095 186,695 437,619 550,810 49,729 1,019,972 311,918 148,135 21,699 34,904 1,371,271 142,843 4,651,745 62,047 259,716 2,704 4,865,540 26,927 100,763 12,791 1,757,908 761,308 17,235 1,650,833 25,920	104,745 4,212 96,436 86,462 486,329 729,420 462,047 34,706 2,513,552 326,412 198,629 38,124 105,995 978,093 252,047 3,978,065 567,695 87,741 3,171 977,005 93,478 153,645 40,592 1,437,997 748,666 27,162 937,790 4,847	7,272 -0- -0- 120,115 142,092 408,869 505,838 49,464 824,303 241,541 131,207 20,986 33,889 1,202,283 114,063 4,064,182 54,631 230,854 2,604 4,463,576 26,677 99,858 12,691 1,600,089 725,170 7,443 1,348,215 25,770	

Number Amount CAUSE OF FIRE of of Fires Damage 1977 1978 1977 1978 197 Stoves, Space Heaters, etc. Thawing Pipes Torches - Blow, Welding, etc. <u>VEHICLES:</u> 183 32 47 1,186,618 264,311 192,443 167 1,234,727 90,731 792,931 1,1(2(10 43 19 Exhaust-Backfire Fuel System-Carburator Wiring, Ignition Other-Miscellaneous Snowmobiles 33 125 416 74,699 151,789 356,990 184,222 324 37 126 52,182 156,312 451,080 466 35 106 98 221,065 7,098 17 5 Unknown or Undetermined 1,216 1,407 15,063,205 16,802,705 13,38 TOTAL 8,720 14,287 \$53,583,899 \$59,712,232 \$48,42

CAUSE OF FIRE

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