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IOWA BUREAU OF LABOR

BIENNIAL REPORT
1971-1972



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IOWA BUREAU OF LABOR

BIENNIAL REPORT

1971 - 1972

Robert D. Ray, Governor

Jerry L. Addy, Labor Commissioner

Prepared by the

Research and Statistics Division

East 7th and Court Avenue
Des Moines, Iowa 50319

October 15, 1973

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INTRODUCTION

It is the policy of the State of Iowa that every employer shall furnish and maintain a safe place for employees to work. These places are to be constructed, equipped, arranged, operated and maintained so as to provide reasonable and adequate protection for the lives, health and safety of all persons working there.

Inherent in the goal of maintaining a safe place to work is the objective of accident prevention. Accident prevention consists of finding and correcting hazards which may lead to accidents. Injury and accident statistics play a large role in accident prevention because the ability to recognize hazards comes from a knowledge of the kinds of hazards or safety violations which have caused injuries in the past. In other words, the more we know about accidents which have already happened, the better able we will be to recognize health and safety hazards when we see them.

Injury and illness statistics indicate the areas in which safety activities need to be intensified. From them we can pinpoint problems which must be solved and identify so-called "target" industries or occupations in which to center our efforts. They also measure the success or failure of these efforts.

According to the Iowa Code, an employer must maintain record of recordable occupational injuries and illnesses. These records must be available without delay and at reasonable times for examination by representatives of the Bureau of Labor. The law further provides that all occupational injuries or occupational illnesses that result in 2 or more lost workdays must be reported to the Bureau of Labor no later than 6 working days after receiving information that such a case has occurred. The "Employers Work Injury Report", Iowa Form Number L-1/WC-1, is used for this purpose. In addition, employers must report to the Commissioner of Labor within 48 hours each accident or health hazard that results in one or more fatalities or hospitalization of five or more employees.

The quality and usefulness of any statistics analyzing injuries or accidents, or both, or any safety program based upon such statistics depends upon the quality of the original work injury reports. If these reports are incomplete, biased, or otherwise deficient, the analysis made from them will be equally deficient.

The most effective report form for analysis purposes is that in which an employer or his representative is asked to describe the incident in his own words as completely as possible and then supply certain details which are essential to the analysis. Iowa Form Number L-1/WC-1, "Employers Work Injury Report", meets these criteria.

Each report is always about a single injury or illness. Accidents that result in multiple injuries require a separate report for each individual injured. Basically, the report tells the whole story of the incident: what happened; where and when it happened; who was hurt and what kind of an injury he received; what materials or equipment were involved; what persons were involved; and what was being done when the accident happened. When properly prepared, a report tells what hazards caused a particular incident and therefore should be corrected in order to avoid similar incidents.

Because it is the employer who is obligated to prepare the work injury reports, it is to his benefit to recognize that the information supplied by him contributes to the stated objective of accident prevention--accident prevention not only on his own premises but in all places of employment generally.

Records, however, are no substitute for accident prevention. But, accident records are indispensable aids for accident prevention. It is the goal of the Bureau of Labor to strive to work together with employers to create a safe environment in which to work. The employers' continued cooperation in maintaining and supplying complete and accurate records will insure that we can continue to use the past as a guide to the future in accident prevention.

SECTION I

WORK INJURIES

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WORK INJURIES

During the 1971-1972 biennium, 21,650 disabling work injuries were reported to the Bureau of Labor. Of these, 8,967 were reported in 1971 and 12,683 in 1972. As a result of the publicity accompanying the passage of the William-Steiger Occupational Safety and Health Act of 1970 and the Iowa Occupational Safety and Health Act of 1972, increased awareness of safety and related regulations was generated among Iowa's employers. What may appear to be a substantial over-the-year increase in injuries is in all probability due to "increased reporting" by employers. The Bureau of Labor initiated an educational program in the summer of 1971 through seminars and the news media to better educate employers as to their reporting responsibilities. Employers, who in the past were unaware of the reporting regulations, learned of their obligation and began filing reports.

By far the most common type of injury sustained in both 1971 and 1972 was sprains and strains. This category accounted for about 32 percent of the total reported disabling injuries during the biennium. Cuts, lacerations or punctures were the next most common injuries, representing 16.8 percent of the total. Injuries characterized by contusion, crushing or bruise accounted for 14 percent of the injuries reported during the two-year period. Fractures were sustained in about 11 percent of all reported cases. For the past 6 years these four types of injuries have ranked as the most prevalent sustained by workers. As a percentage of the total they have remained relatively stable over the 6 year period.

The part of a person's body most frequently affected by injuries was the trunk, 32 percent of the cases reported. Over 20 percent of the injuries sustained, when distributed by the part of the body affected, were to the back. This is a direct result of the large number of strains suffered. The upper extremities, particularly the fingers, were the next most commonly affected body parts. Disabling injuries to the lower extremities were reported in 23.5 percent of the cases in 1971 and 1972.

Working surfaces, surfaces in use as support for people, were the most common agency associated with the reported injuries. These accounted for 19.6 percent of the injuries in 1971 and 19.5 percent in 1972. Metal items directly caused about 15 percent of the injuries reported during the biennium. Vehicles; boxes, barrels and other containers; machines; and unpowered hand tools also produced or inflicted a significant number of the reported injuries.

Overexertion was the most prevalent cause of lost-time injuries reported. The next most common type of injury was one caused by being struck by an object. Falls, either from an elevation or on the same level, accounted for 16 percent of the injuries in 1971 and 1972.

The time of day when most reported injuries occurred was between 10 a.m. and 11 a.m. Nearly one out of ten reported injuries was sustained during this time period. The next most dangerous times of the day, based on frequency of injuries sustained, were from 9 a.m. to 10 a.m. and from 2 p.m. to 3 p.m.

The average number of injuries reported per month in 1971 was 747. The number of reported cases ranged from a high of 928 in September, 1971, to a low of 643 in May, 1971. During 1972, the greatest number of reported injuries, 1,215, occurred in October, and the fewest, 940, in December. The average number of incidents reported per month was 1,057. However, there appears to be little significant variation in the number of cases reported for each month of the year.

Of the 21,650 injuries reported during the biennium, nearly 85 percent involved male employees. Cases involving female workers numbered only 3,294 compared with 18,356 involving males. Over 31 percent of the injuries involving male employees were suffered by men between the ages of 20 and 29. Women between the ages of 50 and 59 were injured in 23 percent of the cases involving female workers. The age group involving the greatest number of reported incidents for men and women combined was for employees between the ages of 20 and 29.

By far the greatest number of disabling work injuries reported during the biennium occurred in the manufacturing industries. Manufacturing workers suffered 12,691 reported injuries, 58.6 percent of the total, during the 1971-1972 period. However, manufacturing workers represented just under one-fourth of the total nonfarm employment in the state. The second largest number of disabling injuries, 2,386 or 11 percent of the total, was sustained by state and local government employees. Government employment represents nearly one-fifth of the nonfarm employment and includes school employees, employees in state and county institutions, local fire and police employees, highway and maintenance workers as well as general administrative workers. The contract construction industries, representing 4.5 percent of the employment, had 1,517 injuries, 7 percent of the total.

The greatest majority of the injuries, over 96 percent, were of a temporary nature. However, nearly one percent of the reported cases resulted in the death of the employee. (The following section on work related deaths provides a more detailed analysis of the fatalities sustained in Iowa during the 1971-1972 biennium.) In addition, 544 injuries, 3.5 percent of the total, resulted in permanent partial disability to the worker. A permanent partial disability is one which results in the loss, or complete loss of use, of any member or part of a member of the body, or in permanent impairment of function of the body or any of its parts.

Table I
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION AND NATURE OF INJURY
1971 - 1972

		1971														
Industry Division		Amputations	Burns- heat & chemical	Contagious or in- fectious disease	Contusion, crush- ing or bruise	Cut, laceration or puncture	Dermatitis	Dislocation	Electric shock, electrocution	Fracture	Hernia	Inflammation or irritation	Scratches or abrasions	Sprains or strains	Other	Total
Agric., Forestry & Fisheries....		6	0	0	7	8	0	0	0	7	0	0	0	8	2	38
Mining.....		0	1	0	4	2	0	0	1	6	0	0	0	2	5	21
Contract Construction.....		9	23	0	66	57	3	8	5	98	12	1	13	107	92	494
Manufacturing.....		134	290	27	813	1,119	99	65	7	579	130	68	165	1,774	400	5,670
Transp., Comm. & Pub. Utilities.		4	19	0	66	46	2	8	1	54	9	2	13	214	72	510
Wholesale & Retail Trade.....		24	26	0	76	104	1	19	1	81	18	0	16	208	88	662
Finance, Ins. & Real Estate.....		0	0	0	1	0	0	0	0	1	0	0	0	0	2	4
Services.....		5	31	2	71	59	1	9	0	83	13	1	12	181	97	565
Government.....		13	31	1	136	154	25	19	1	101	13	2	35	323	149	1,003
TOTAL.....		195	421	30	1,240	1,549	131	128	16	1,010	195	74	254	2,817	907	8,967

1972																
Agric., Forestry & Fisheries....	5	3	0	4	10	0	5	0	10	2	0	2	16	13	70	
Mining.....	1	3	0	1	8	0	0	0	7	0	0	0	4	12	36	
Contract Construction.....	13	56	1	105	139	8	40	4	180	26	1	21	255	174	1,023	
Manufacturing.....	180	327	29	1,003	1,372	81	66	6	632	159	90	176	2,215	685	7,021	
Transp., Comm. & Pub. Utilities.	8	24	0	108	64	6	15	3	96	18	0	7	302	103	754	
Wholesale & Retail Trade.....	28	72	2	166	206	3	48	0	175	41	6	24	399	211	1,381	
Finance, Ins. & Real Estate.....	1	1	0	4	3	0	1	0	7	1	0	2	9	10	39	
Services.....	10	34	7	138	116	4	16	1	108	11	2	21	340	162	970	
Government.....	6	56	2	161	164	21	32	1	147	33	2	27	468	263	1,383	
Unclassified.....	0	1	0	2	1	0	0	0	2	0	0	0	0	0	6	
TOTAL.....	252	577	41	1,692	2,083	123	223	15	1,364	291	101	280	4,008	1,633	12,683	

Table 2
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION AND PART OF BODY AFFECTED
1971 - 1972

1971

Industry Division	Head	(Eyes)	Neck	Upper extremities (Arms)	(Fingers)	Trunk	(Back)	Lower extremities	(Legs)	(Feet)	Multiple parts	Body system	Body parts n.e.c.	Unclassified	Total
Agric., Forestry & Fisheries....	2	0	0	14	1	9	9	4	12	9	2	1	0	0	38
Mining.....	1	0	1	3	0	1	4	2	3	1	1	7	2	0	21
Contract Construction.....	34	15	6	83	27	31	139	74	146	68	32	56	9	0	494
Manufacturing.....	310	169	35	1,964	312	1,074	1,703	1,105	1,298	492	375	217	67	0	5,670
Transp., Comm. & Pub. Utilities.	41	16	11	68	19	19	200	129	127	61	25	53	4	0	510
Wholesale & Retail Trade.....	52	23	8	154	29	73	224	153	147	63	36	42	7	0	662
Finance, Ins. & Real Estate.....	1	0	0	1	1	0	0	0	1	1	0	0	0	0	4
Services.....	36	12	7	140	34	51	182	117	118	54	26	52	6	0	565
Government.....	85	43	7	215	47	113	301	196	252	111	46	76	29	0	1,003
TOTAL.....	562	278	75	2,642	470	1,371	2,762	1,780	2,104	860	543	504	124	0	8,967

1972

Industry Division	Head	(Eyes)	Neck	Upper extremities (Arms)	(Fingers)	Trunk	(Back)	Lower extremities	(Legs)	(Feet)	Multiple parts	Body system	Body parts n.e.c.	Unclassified	Total
Agric., Forestry & Fisheries....	4	3	1	17	1	7	23	13	19	17	3	3	0	0	70
Mining.....	4	1	1	8	1	5	5	3	10	6	2	5	2	0	36
Contract Construction.....	88	41	9	208	42	84	291	190	291	133	64	93	18	0	1,023
Manufacturing.....	434	242	65	2,405	432	1,277	2,170	1,449	1,517	573	406	269	81	0	7,021
Transp., Comm. & Pub. Utilities.	43	14	8	124	38	44	272	185	216	95	44	64	11	0	754
Wholesale & Retail Trade.....	110	48	6	295	48	149	476	295	351	142	72	101	16	0	1,381
Finance, Ins. & Real Estate.....	2	0	0	6	2	4	13	8	7	1	3	7	1	0	39
Services.....	61	20	12	212	45	92	351	240	241	98	45	57	18	0	970
Government.....	111	56	24	243	70	91	485	317	332	152	55	123	30	0	1,383
Unclassified.....	0	0	0	3	2	1	0	0	3	2	0	0	0	0	6
TOTAL.....	857	425	126	3,521	681	1,754	4,086	2,700	2,987	1,214	694	722	177	0	12,683

Table 3
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION AND AGENCY ASSOCIATED WITH INJURY
1971 - 1972
1971

Industry Division	Bodily motion	Boxes, barrels & other containers	Chemicals	Hand tools-not powered	Hand tools-powered	Hoisting apparatus	Ladders	Machines	Metal items	Particles (unidentified)	Vehicles	Wood items	Working surfaces	Other	Total
Agric., Forestry & Fisheries....	1	2	0	3	1	1	0	2	5	0	3	2	7	11	38
Mining.....	0	0	0	0	0	2	0	1	2	0	7	1	3	5	21
Contract Construction.....	7	10	2	21	16	18	19	17	77	4	42	29	135	97	494
Manufacturing.....	172	461	117	509	199	116	86	509	842	91	357	157	937	1,117	5,670
Transp., Comm. & Pub. Utilities.	8	51	4	20	7	13	10	11	47	7	87	23	141	81	510
Wholesale & Retail Trade.....	11	87	13	33	24	7	20	27	57	6	75	16	142	144	662
Finance, Ins. & Real Estate....	0	0	0	0	2	0	0	0	0	0	0	0	1	1	4
Services.....	10	42	3	9	15	6	11	26	24	4	28	12	152	223	565
Government.....	18	55	26	55	48	11	11	34	80	13	140	42	241	229	1,003
TOTAL.....	227	708	165	650	312	174	157	627	1,134	125	739	282	1,759	1,908	8,967

1972

Agric., Forestry & Fisheries....	1	2	0	3	0	0	1	10	8	1	10	0	14	20	70
Mining.....	2	1	1	1	0	0	0	4	4	0	7	0	6	10	36
Contract Construction.....	26	36	12	37	41	22	50	26	170	4	89	51	261	198	1,023
Manufacturing.....	320	609	131	540	164	90	63	641	1,338	79	400	189	1,058	1,399	7,021
Transp., Comm. & Pub. Utilities.	18	68	4	28	9	14	15	13	103	6	125	26	190	135	754
Wholesale & Retail Trade.....	51	148	21	61	38	25	25	51	166	9	119	45	330	292	1,381
Finance, Ins. & Real Estate....	3	2	0	3	0	1	1	2	7	0	3	0	12	5	39
Services.....	48	65	13	20	13	11	12	36	76	0	50	23	250	353	970
Government.....	52	98	30	47	43	9	20	37	141	11	158	64	358	315	1,383
Unclassified.....	0	0	0	0	0	0	1	1	0	0	1	1	1	1	6
TOTAL.....	521	1,029	212	740	308	172	188	821	2,013	110	962	399	2,480	2,728	12,683

Table 4
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION AND KIND OF ACCIDENT
1971 - 1972

1971

Industry Division	Struck against	Struck by	Fall from elevation	Fall on same level	Caught in, under or between	Rubbed or abraded	Bodily reaction	Overexertion	Contact with electric current	Contact with temperature extremes	Contact-radiation caustics, etc.	Public transportation accidents	Motor-vehicle accidents	Other	Total
Agric., Forestry & Fisheries....	5	13	4	3	7	1	1	4	0	0	0	0	0	0	38
Mining.....	2	5	3	1	5	0	0	1	2	0	0	0	1	1	21
Contract Construction.....	44	95	100	30	57	12	29	65	10	14	9	0	14	15	494
Manufacturing.....	824	987	264	452	762	158	400	1,259	15	207	215	1	33	93	5,670
Transp., Comm. & Pub. Utilities.	44	69	62	50	33	7	50	123	3	12	11	0	39	7	510
Wholesale & Retail Trade.....	84	111	62	66	65	11	44	151	3	19	11	0	24	11	662
Finance, Ins. & Real Estate.....	1	1	0	1	0	0	0	1	0	0	0	0	0	0	4
Services.....	45	85	50	99	47	7	37	128	0	27	10	0	4	26	565
Government.....	112	184	68	113	90	25	89	178	4	24	56	0	45	15	1,003
TOTAL.....	1,161	1,550	613	815	1,066	221	650	1,910	37	303	312	1	160	168	8,967

1972

Agric., Forestry & Fisheries....	5	12	7	4	15	1	6	11	0	3	0	0	3	3	70
Mining.....	6	6	3	0	5	0	4	0	0	2	2	0	5	3	36
Contract Construction.....	79	218	184	67	77	19	99	127	10	46	28	0	42	27	1,023
Manufacturing.....	827	1,453	327	468	906	139	780	1,413	13	270	232	1	47	145	7,021
Transp., Comm. & Pub. Utilities.	70	123	76	72	56	4	88	149	11	15	12	0	63	15	754
Wholesale & Retail Trade.....	130	282	128	144	115	20	134	251	0	67	26	0	52	32	1,381
Finance, Ins. & Real Estate.....	3	8	4	6	1	0	6	6	0	1	0	0	2	2	39
Services.....	86	197	61	171	56	3	102	186	1	27	28	0	19	33	970
Government.....	112	264	105	176	82	21	152	256	2	41	66	0	77	29	1,383
Unclassified.....	0	3	1	1	0	0	0	0	0	0	0	0	1	0	6
TOTAL.....	1,318	2,566	896	1,109	1,313	207	1,371	2,399	37	472	394	1	311	289	12,683

Table 5
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION AND TIME OF DAY
1971 - 1972

1971

Industry Division	7 - 8 A.M.	8 - 9 A.M.	9 - 10 A.M.	10 - 11 A.M.	11 - 12 Noon	12 - 1 P.M.	1 - 2 P.M.	2 - 3 P.M.	3 - 4 P.M.	4 - 5 P.M.	5 - 6 P.M.	6 P.M.-7 A.M.	Not listed	Total
Agric., Forestry & Fisheries....	1	0	5	5	3	1	2	0	2	2	0	1	16	38
Mining.....	2	3	1	1	1	1	1	4	0	1	1	4	1	21
Contract Construction.....	14	34	34	51	58	13	24	41	58	42	17	17	91	494
Manufacturing.....	233	333	384	487	357	167	276	363	333	216	175	1,020	1,326	5,670
Transp., Comm. & Pub. Utilities.	15	38	40	73	54	11	43	46	49	23	13	74	31	510
Wholesale & Retail Trade.....	17	31	62	80	64	24	43	43	63	69	20	80	66	662
Finance, Ins. & Real Estate.....	0	1	0	0	1	0	0	0	0	0	0	1	1	4
Services.....	18	31	39	62	44	23	26	44	36	29	18	100	95	565
Government.....	31	52	86	140	89	37	62	105	95	51	17	97	141	1,003
TOTAL.....	331	523	651	899	671	277	477	646	636	433	261	1,394	1,768	8,967

1972

Agric., Forestry & Fisheries....	6	3	4	10	3	3	4	3	8	3	4	9	10	70
Mining.....	1	4	2	2	2	2	2	5	3	4	2	5	2	36
Contract Construction.....	31	59	111	104	79	27	81	103	107	84	22	53	162	1,023
Manufacturing.....	348	388	480	553	406	209	357	482	431	289	204	1,448	1,426	7,021
Transp., Comm. & Pub. Utilities.	36	57	79	73	64	32	45	65	49	31	20	133	70	754
Wholesale & Retail Trade.....	31	90	109	160	132	41	74	115	113	103	55	188	170	1,381
Finance, Ins. & Real Estate.....	4	2	3	5	1	2	3	0	5	5	0	3	6	39
Services.....	49	61	63	90	59	36	56	67	57	49	29	188	166	970
Government.....	62	110	123	161	124	51	98	131	119	72	20	131	181	1,383
Unclassified.....	0	0	0	2	0	0	2	0	0	0	0	0	2	6
TOTAL.....	568	774	974	1,160	870	403	722	971	892	640	356	2,158	2,195	12,683

Table 6
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION AND MONTH
1971 - 1972

1971

Industry Division	January	February	March	April	May	June	July	August	September	October	November	December	Total
Agric., Forestry & Fisheries....	1	1	3	4	4	1	0	1	4	11	7	1	38
Mining.....	0	0	3	0	2	5	1	2	1	4	1	2	21
Contract Construction.....	17	23	19	27	24	37	39	54	58	55	71	70	494
Manufacturing.....	464	422	457	432	394	463	476	526	591	518	476	451	5,670
Transp., Comm. & Pub. Utilities.	39	34	48	43	42	38	47	48	61	35	38	37	510
Wholesale & Retail Trade.....	41	40	44	49	41	64	54	56	62	53	70	88	662
Finance, Ins. & Real Estate.....	0	0	0	0	0	2	0	0	0	1	0	1	4
Services.....	63	52	44	34	35	46	45	45	46	46	58	51	565
Government.....	90	83	84	68	101	81	82	87	105	77	59	86	1,003
TOTAL.....	715	655	702	657	643	737	744	819	928	800	780	787	8,967

1972

Agric., Forestry & Fisheries....	2	3	5	11	11	5	4	8	2	7	6	6	70
Mining.....	1	1	2	2	5	4	5	2	3	3	6	2	36
Contract Construction.....	65	67	82	65	79	117	103	97	98	97	87	66	1,023
Manufacturing.....	553	574	658	536	564	580	538	630	633	660	596	499	7,021
Transp., Comm. & Pub. Utilities.	71	63	75	50	59	57	62	77	49	67	66	58	754
Wholesale & Retail Trade.....	98	118	87	104	111	111	98	155	124	138	120	117	1,381
Finance, Ins. & Real Estate.....	5	0	3	3	6	3	0	4	1	7	3	4	39
Services.....	76	71	80	81	93	78	74	79	81	99	89	69	970
Government.....	103	101	98	95	88	95	107	151	140	137	149	119	1,383
Unclassified.....	1	0	0	0	0	0	0	0	3	0	2	0	6
TOTAL.....	975	998	1,090	947	1,016	1,050	991	1,203	1,134	1,215	1,124	940	12,683

Table 7
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION, AGE AND SEX
1971 - 1972

1971																	
Industry Division	Male								Female								Total both sexes
	Under 19	20 - 29	30 - 39	40 - 49	50 - 59	60 and over	Not listed	Total-male	Under 19	20 - 29	30 - 39	40 - 49	50 - 59	60 and over	Not listed	Total-female	
Agric., Forestry & Fisheries....	6	1	4	3	8	6	7	35	0	1	0	2	0	0	0	3	38
Mining.....	1	3	4	4	5	2	2	21	0	0	0	0	0	0	0	0	21
Contract Construction.....	30	138	89	86	59	24	67	493	0	0	0	1	0	0	0	1	494
Manufacturing.....	302	1,599	1,003	882	735	228	170	4,919	28	157	134	191	168	40	33	751	5,670
Transp., Comm. & Pub. Utilities.	13	109	132	133	77	19	15	498	0	5	2	3	0	2	0	12	510
Wholesale & Retail Trade.....	56	152	97	108	84	32	37	566	11	15	13	20	24	8	5	96	662
Finance, Ins. & Real Estate.....	0	0	1	0	0	0	1	2	0	0	0	0	1	1	0	2	4
Services.....	23	70	31	38	61	37	20	280	14	33	38	48	91	49	12	285	565
Government.....	31	201	157	188	177	89	40	883	6	15	13	23	34	21	8	120	1,003
TOTAL.....	462	2,273	1,518	1,442	1,206	437	359	7,697	59	226	200	288	318	121	58	1,270	8,967

1972																	
Agric., Forestry & Fisheries....	9	12	8	9	9	8	9	64	0	1	1	2	0	2	0	6	70
Mining.....	2	8	10	7	5	2	2	36	0	0	0	0	0	0	0	0	36
Contract Construction.....	81	309	182	168	137	60	82	1,019	0	1	2	0	0	1	0	4	1,023
Manufacturing.....	468	2,160	1,129	999	865	246	134	6,001	76	243	200	244	190	37	30	1,020	7,021
Transp., Comm. & Pub. Utilities.	24	173	164	176	140	36	24	737	1	3	3	5	2	1	2	17	754
Wholesale & Retail Trade.....	120	354	171	174	173	81	81	1,154	31	43	27	38	53	22	13	227	1,381
Finance, Ins. & Real Estate.....	3	2	4	3	8	6	3	29	1	0	5	1	2	1	0	10	39
Services.....	54	135	50	76	63	43	33	454	25	103	65	94	128	69	32	516	970
Government.....	44	243	219	234	255	127	39	1,161	7	26	14	44	71	47	13	222	1,383
Unclassified.....	0	0	0	2	0	0	2	4	0	0	0	0	1	1	0	2	6
TOTAL.....	805	3,396	1,937	1,848	1,655	609	409	10,659	141	420	317	428	447	181	90	2,024	12,683

Table 8
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION, SEVERITY AND SEX
1971 - 1972

Industry Division	1971 MALE					FEMALE					Total both sexes
	Death	Permanent total disability	Permanent partial disability	Temporary total disability	Total-male	Death	Permanent total disability	Permanent partial disability	Temporary total disability	Total-female	
Agric., Forestry & Fisheries.....	3	0	6	26	35	0	0	0	3	3	38
Mining.....	3	0	0	18	21	0	0	0	0	0	21
Contract Construction.....	22	0	16	455	493	0	0	0	1	1	494
Manufacturing.....	22	0	178	4,719	4,919	1	0	13	737	751	5,670
Transp., Comm. & Pub. Utilities...	7	0	9	482	498	0	0	1	11	12	510
Wholesale & Retail Trade.....	14	0	34	518	566	0	0	2	94	96	662
Finance, Ins. & Real Estate.....	0	0	0	2	2	0	0	0	2	2	4
Services.....	4	0	12	264	280	0	0	1	284	285	565
Government.....	14	0	23	846	883	0	0	0	120	120	1,003
TOTAL.....	89	0	278	7,330	7,697	1	0	17	1,252	1,270	8,967

Industry Division	1972										Total both sexes
	Death	Permanent total disability	Permanent partial disability	Temporary total disability	Total-male	Death	Permanent total disability	Permanent partial disability	Temporary total disability	Total-female	
Agric., Forestry & Fisheries.....	2	0	6	56	64	0	0	0	6	6	70
Mining.....	2	0	1	33	36	0	0	0	0	0	36
Contract Construction.....	35	1	13	970	1,019	0	0	0	4	4	1,023
Manufacturing.....	25	0	137	5,839	6,001	0	0	31	989	1,020	7,021
Transp., Comm. & Pub. Utilities...	14	0	9	714	737	0	0	0	17	17	754
Wholesale & Retail Trade.....	13	0	23	1,118	1,154	0	0	4	223	227	1,381
Finance, Ins. & Real Estate.....	1	0	1	27	29	0	0	0	10	10	39
Services.....	3	0	7	444	454	0	0	3	513	516	970
Government.....	10	0	11	1,140	1,161	2	0	3	217	222	1,383
Unclassified.....	0	0	0	4	4	0	0	0	2	2	6
TOTAL.....	105	1	208	10,345	10,659	2	0	41	1,981	2,024	12,683

Table 9

STATE OF IOWA
DISTRIBUTION OF REPORTED DISABLING INJURIES
ALL INDUSTRIES - BY NATURE OF INJURY
1971 - 1972

	1971		1972	
	Number	Percent	Number	Percent
Amputation.....	195	2.2%	252	2.0%
Burns-heat & chemical.....	421	4.7	577	4.5
Contagious or infectious disease.....	30	.3	41	.3
Contusion, crushing or bruise.....	1,240	13.8	1,692	13.3
Cut, laceration or puncture.....	1,549	17.3	2,083	16.4
Dermatitis.....	131	1.5	123	1.0
Dislocation.....	128	1.4	223	1.8
Electric shock, electrocution.....	16	.2	15	.1
Fracture.....	1,010	11.3	1,364	10.8
Hernia.....	195	2.2	291	2.3
Inflammation or irritation.....	74	.8	101	.8
Scratches or abrasions.....	254	2.8	280	2.2
Sprains or strains.....	2,817	31.4	4,008	31.6
Other.....	907	10.1	1,633	12.9
TOTAL.....	8,967	100.0%	12,683	100.0%

Table 10

STATE OF IOWA
DISTRIBUTION OF REPORTED DISABLING INJURIES
ALL INDUSTRIES - BY PART OF BODY AFFECTED
1971 - 1972

	1971		1972	
	Number	Percent	Number	Percent
Head.....	562	6.3%	857	6.8%
(Eyes).....	(278)	(3.1)	(425)	(3.4)
Neck.....	75	.8	126	1.0
Upper extremities.....	2,642	29.4	3,521	27.8
(Arms).....	(420)	(4.7)	(681)	(5.4)
(Fingers).....	(1,371)	(15.3)	(1,754)	(13.8)
Trunk.....	2,762	30.8	4,086	32.2
(Back).....	(1,780)	(19.9)	(2,700)	(21.3)
Lower extremities.....	2,104	23.5	2,987	23.5
(Legs).....	(860)	(9.6)	(1,214)	(9.6)
(Feet).....	(543)	(6.1)	(694)	(5.5)
Multiple parts.....	504	5.6	722	5.7
Body system.....	124	1.4	177	1.4
Body parts, n.e.c. and unclassified.....	194	2.2	207	1.6
TOTAL.....	8,967	100.0%	12,683	100.0%

Table 11

STATE OF IOWA
DISTRIBUTION OF REPORTED DISABLING INJURIES
ALL INDUSTRIES - BY AGENCY ASSOCIATED WITH INJURY
1971 - 1972

	1971		1972	
	Number	Percent	Number	Percent
Bodily motion.....	227	2.5%	521	4.1%
Boxes, barrels & Other containers.....	708	7.9	1,029	8.1
Chemicals.....	165	1.8	212	1.7
Hand tools-not powered.....	650	7.3	740	5.8
Hand tools-powered.....	312	3.5	308	2.4
Hoisting apparatus.....	174	1.9	172	1.4
Ladders.....	157	1.8	188	1.5
Machines.....	627	7.0	821	6.5
Metal items.....	1,134	12.7	2,013	15.9
Particles (unidentified).....	125	1.4	110	.9
Vehicles.....	739	8.2	962	7.6
Wood items.....	282	3.1	399	3.1
Working surfaces.....	1,759	19.6	2,480	19.5
Other.....	1,908	21.3	2,728	21.5
TOTAL.....	8,967	100.0%	12,683	100.0%

Table 12

STATE OF IOWA
DISTRIBUTION OF REPORTED DISABLING INJURIES
ALL INDUSTRIES - BY KIND OF ACCIDENT
1971 - 1972

	1971		1972	
	Number	Percent	Number	Percent
Struck against.....	1,161	12.9%	1,318	10.4%
Struck by.....	1,550	17.3	2,566	20.2
Fall from elevation.....	613	6.8	896	7.1
Fall on same level.....	815	9.1	1,109	8.7
Caught in, under or between.....	1,066	11.9	1,313	10.4
Rubbed or abraded.....	221	2.5	207	1.6
Bodily reaction.....	650	7.2	1,371	10.8
Overexertion.....	1,910	21.3	2,399	18.9
Contact with electric current.....	37	.4	37	.3
Contact with temperature extremes.....	303	3.4	472	3.7
Contact with radiations, caustics, etc.	312	3.5	394	3.1
Public transportation accidents.....	1	.0	1	.0
Motor-vehicle accidents.....	160	1.8	311	2.5
Other.....	168	1.9	289	2.3
TOTAL.....	8,967	100.0%	12,683	100.0%

Table 13
STATE OF IOWA
DISTRIBUTION OF REPORTED DISABLING INJURIES
AND EMPLOYMENT - BY INDUSTRY DIVISION
1971 - 1972

1971

Industry Division	Employment 1/		Injuries	
	Number	Percent	Number	Percent
Agric., Forestry & Fisheries.....	N.A.	--	38	.4%
Mining.....	3,000	.3%	21	.2
Contract Construction.....	39,800	4.5	494	5.5
Manufacturing.....	209,200	23.5	5,670	63.2
Transp., Comm. & Public Utilities.....	51,800	5.8	510	5.7
Wholesale & Retail Trade.....	212,900	24.0	662	7.4
Finance, Ins. & Real Estate.....	41,800	4.7	4	.1
Services.....	152,600	17.2	565	6.3
Government.....	177,900	20.0	1,003	11.2
TOTAL.....	889,100	100.0%	8,967	100.0%

1972

Industry Division	Employment 1/		Injuries	
	Number	Percent	Number	Percent
Agric., Forestry & Fisheries.....	N.A.	--	70	.6%
Mining.....	3,000	.3%	36	.3
Contract Construction.....	42,400	4.6	1,023	8.1
Manufacturing.....	223,300	24.0	7,021	55.4
Transp., Comm. & Public Utilities.....	53,200	5.7	754	5.9
Wholesale & Retail Trade.....	225,000	24.2	1,381	10.9
Finance, Ins. & Real Estate.....	44,100	4.7	39	.3
Services.....	161,200	17.3	970	7.6
Government.....	179,200	19.2	1,383	10.9
Unclassified.....	0	.0	6	.0
TOTAL.....	931,200	100.0%	12,683	100.0%

1971 - 1972

Industry Division	Employment 1/		Injuries	
	Number	Percent	Number	Percent
Agric., Forestry & Fisheries.....	N.A.	--	108	.5%
Mining.....	3,000	.3%	57	.3
Contract Construction.....	41,100	4.5	1,517	7.0
Manufacturing.....	216,250	23.8	12,691	58.6
Transp. Comm. & Public Utilities.....	52,500	5.8	1,264	5.9
Wholesale & Retail Trade.....	218,950	24.1	2,043	9.4
Finance, Ins. & Real Estate.....	42,950	4.7	43	.2
Services.....	156,900	17.2	1,535	7.1
Government.....	178,550	19.6	2,386	11.0
Unclassified.....	0	.0	6	.0
TOTAL.....	910,150	100.0%	21,650	100.0%

1/ Nonagricultural wage and salary only. Prepared by the Research and Statistics Department of the Iowa Employment Security Commission in cooperation with the U. S. Department of Labor, Bureau of Labor Statistics. March 1972 benchmark. Detail may not add up to total due to rounding.

N.A. Not available.

Table 14
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY COUNTY
1971 - 1972

COUNTY	1971	1972	COUNTY	1971	1972
Adair.....	12	12	Jefferson.....	101	83
Adams.....	2	5	Johnson.....	101	191
Allamakee.....	29	37	Jones.....	43	57
Appanoose.....	17	38	Keokuk.....	39	39
Audubon.....	10	18	Kossuth.....	28	63
Benton.....	36	70	Lee.....	209	247
Black Hawk.....	908	1,180	Linn.....	856	981
Boone.....	53	79	Louisa.....	8	20
Bremer.....	24	39	Lucas.....	38	65
Buchanan.....	59	56	Lyon.....	7	36
Buena Vista.....	58	100	Madison.....	1	13
Butler.....	14	16	Mahaska.....	45	66
Calhoun.....	13	30	Marion.....	19	61
Carroll.....	25	64	Marshall.....	304	368
Cass.....	29	81	Mills.....	53	75
Cedar.....	19	24	Mitchell.....	6	22
Cerro Gordo.....	208	298	Monona.....	8	21
Cherokee.....	56	136	Monroe.....	63	27
Chickasaw.....	49	88	Montgomery.....	15	14
Clarke.....	9	13	Muscatine.....	122	146
Clay.....	38	113	O'Brien.....	11	25
Clayton.....	33	85	Osceola.....	10	30
Clinton.....	118	156	Page.....	91	103
Crawford.....	44	108	Palo Alto.....	13	32
Dallas.....	96	134	Plymouth.....	23	62
Davis.....	7	18	Pocahontas.....	22	28
Decatur.....	3	32	Polk.....	1,382	1,812
Delaware.....	27	91	Pottawattamie.....	263	265
Des Moines.....	132	166	Poweshiek.....	29	75
Dickinson.....	44	41	Ringgold.....	4	2
Dubuque.....	532	609	Sac.....	25	48
Emmet.....	51	75	Scott.....	264	508
Fayette.....	40	68	Shelby.....	15	33
Floyd.....	79	96	Sioux.....	25	91
Franklin.....	25	36	Story.....	368	324
Fremont.....	20	18	Tama.....	14	55
Greene.....	17	41	Taylor.....	1	6
Grundy.....	17	29	Union.....	41	55
Guthrie.....	9	30	Van Buren.....	5	13
Hamilton.....	83	107	Wapello.....	170	242
Hancock.....	10	17	Warren.....	17	55
Hardin.....	79	91	Washington.....	22	50
Harrison.....	22	35	Wayne.....	10	13
Henry.....	53	62	Webster.....	175	256
Howard.....	9	29	Winnebago.....	100	318
Humboldt.....	18	27	Winneshiek.....	22	50
Ida.....	8	20	Woodbury.....	325	520
Iowa.....	73	79	Worth.....	9	14
Jackson.....	30	77	Wright.....	17	27
Jasper.....	77	100	Unlisted.....	4	2
			TOTAL.....	8,967	12,683

SECTION II

WORK RELATED DEATHS

WORK RELATED DEATHS

There were 197 work-related deaths reported to the Bureau of Labor as having occurred during the 1971-1972 biennium. Of these, 90 happened in 1971 and 107 in 1972. On the average, 1 out of every 10,000 workers in Iowa died while on the job. Most of these were men; however, 3 women also died while at work: 1 manufacturing employee in 1971 and 2 government workers in 1972.

The average age of the persons suffering fatal injuries in 1971 was just over 41 years. The youngest worker killed in 1971 was 17 years old and the oldest was 71 years of age. In 1972, the average age of the fatal cases was 44, with the ages of the deceased ranging from 17 to 79.

Over half of all deaths reported during the biennium occurred in the contract construction and manufacturing industry divisions. Contract construction accounted for 29 percent of the total with 22 fatalities reported in 1971 and 35 in 1972. There were 23 manufacturing deaths in 1971 and 25 in 1972, 24 percent of the total for the two-year period.

During the biennium, 13.7 percent of the total number of reported deaths were sustained by government employees. Twenty-six government workers died while on the job in 1971 and 1972. Of these, one was a Federal employee, 6 were state employees, 9 were county workers, 7 were employed by cities or towns and 3 were school district employees. Heart attacks suffered while on the job, being struck by an object, crushing injuries and motor vehicle accidents were the most prevalent causes of death for government employees. Nearly two-thirds of the total number of government work-related deaths involved highway and maintenance workers.

Crushing injuries were the cause of over 23 percent of the reported deaths in 1971 and 1972. Motor vehicle accidents caused a total of 33, or just over 17 percent, of the fatalities during the two-year period. Fatal heart attacks while on the job took 29 lives, 15 percent of the total. Of the 62 fatal heart attacks and motor vehicle accidents reported for the biennium, over 75 percent occurred during 1972: 24 motor vehicle accidents and 23 heart attacks. The next most common cause of on-the-job deaths was falling from high places (22). This was closely followed by electrocutions (18).

Iowa employers are required to report to the Bureau of Labor within 48 hours each accident or health hazard that results in a fatality. A number of the reported work-related fatalities during the biennium, 35 percent, were beyond the control of the Bureau of Labor. These numbered 68 during the two-year period and include heart attacks,

over-the-road motor vehicle accidents and assaults. However, the lives of many Iowans may be saved and countless injuries prevented through the proper enforcement of occupational safety and health standards.

The following tables and descriptions of the work-related deaths that were reported to the Bureau of Labor emphasize that there is still a need for greater safety consciousness among Iowa's employers and workers. An awareness of the problems can and should be a guide toward preventing needless fatalities in the future.

Table 1
STATE OF IOWA
REPORTED WORK RELATED DEATHS
BY INDUSTRY DIVISION
1971 - 1972

Industry Division	1971		1972		Total 1971 - 1972	
	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent
Agriculture.....	3	3.3%	2	1.9%	5	2.5%
Mining.....	3	3.3	2	1.9	5	2.5
Contract Construction.....	22	24.4	35	32.7	57	28.9
Manufacturing.....	23	25.6	25	23.4	48	24.4
Transp., Comm. & Pub. Utilities.....	7	7.8	14	13.1	21	10.7
Wholesale & Retail Trade.....	14	15.6	13	12.1	27	13.7
Finance, Ins. & Real Estate.....	0	-	1	.9	1	.5
Services.....	4	4.4	3	2.8	7	3.6
Government.....	14	15.6	12	11.2	26	13.2
TOTAL.....	90	100.0%	107	100.0%	197	100.0%

Table 2
STATE OF IOWA
REPORTED WORK RELATED DEATHS
BY CAUSE
1971 - 1972

Cause	1971		1972		Total 1971 - 1972	
	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent
Crushing.....	24	26.7%	22	20.6%	46	23.4%
Motor vehicle accident.....	9	10.0	24	22.4	33	16.8
Heart attack.....	6	6.7	23	21.5	29	14.7
Fall from elevation.....	11	12.2	11	10.3	22	11.2
Electrocution.....	11	12.2	7	6.5	18	9.1
Struck by object.....	9	10.0	7	6.5	16	8.1
Suffocation.....	12	13.4	1	.9	13	6.6
Drowning.....	3	3.3	3	2.8	6	3.0
Burns.....	1	1.1	2	1.9	3	1.5
Caught in, under or between.....	1	1.1	2	1.9	3	1.5
Fall on same level.....	1	1.1	1	.9	2	1.1
Other.....	2 ^{1/}	2.2	4 ^{2/}	3.8	6	3.0
TOTAL.....	90	100.0%	107	100.0%	197	100.0%

1/ Poisoning, 1; and Plane crash (private), 1.

2/ Explosion, 1; Gun shot, 1; Plane crash, 1; and Unknown, 1.

Table 3
STATE OF IOWA
DISTRIBUTION OF REPORTED WORK RELATED DEATHS
AND EMPLOYMENT - BY INDUSTRY DIVISION
1971 - 1972

Industry Division	Employment 1/		Deaths	
	Number	Percent	Number	Percent
Agric., Forestry & Fisheries.....	N.A.	--	3	3.3%
Mining.....	3,000	.3%	3	3.3
Contract Construction.....	39,800	4.5	22	24.4
Manufacturing.....	209,200	23.5	23	25.6
Transp., Comm. & Public Utilities.....	51,800	5.8	7	7.8
Wholesale & Retail Trade.....	212,900	24.0	14	15.6
Finance, Ins. & Real Estate.....	41,800	4.7	0	--
Services.....	152,600	17.2	4	4.4
Government.....	177,900	20.0	14	15.6
TOTAL.....	889,100	100.0%	90	100.0%

Industry Division	Employment 1/		Deaths	
	Number	Percent	Number	Percent
Agric., Forestry & Fisheries.....	N.A.	--	2	1.9%
Mining.....	3,000	.3%	2	1.9
Contract Construction.....	42,400	4.6	35	32.7
Manufacturing.....	223,300	24.0	25	23.4
Transp., Comm. & Public Utilities.....	53,200	5.7	14	13.1
Wholesale & Retail Trade.....	225,000	24.2	13	12.1
Finance, Ins. & Real Estate.....	44,100	4.7	1	.9
Services.....	161,200	17.3	3	2.8
Government.....	179,200	19.2	12	11.2
TOTAL.....	931,200	100.0%	107	100.0%

Industry Division	Employment 1/		Deaths	
	Number	Percent	Number	Percent
Agric., Forestry & Fisheries.....	N.A.	--	5	2.5%
Mining.....	3,000	.3%	5	2.5
Contract Construction.....	41,100	4.5	57	28.9
Manufacturing.....	216,250	23.8	48	24.4
Transp., Comm. & Public Utilities.....	52,500	5.8	21	10.7
Wholesale & Retail Trade.....	218,950	24.1	27	13.7
Finance, Ins. & Real Estate.....	42,950	4.7	1	.5
Services.....	156,900	17.2	7	3.6
Government.....	178,550	19.6	26	13.2
TOTAL.....	910,150	100.0%	197	100.0%

1/ Nonagricultural wage and salary only. Prepared by the Research and Statistics Department of the Iowa Employment Security Commission in cooperation with the U. S. Department of Labor, Bureau of Labor Statistics. March 1972 benchmark. Detail may not add up to total due to rounding.

N.A. Not available.

Table 4

STATE OF IOWA
WORK RELATED DEATHS
BY INDUSTRY
1971

LIBRARY

Iowa Employment Security Commission
1000 East Grand Avenue
Des Moines, Iowa 50319

Industry	Number of Deaths	Deaths per 10,000 Employees	Rank ^{1/}
Food & kindred products.....	12	2.18	9
Local government.....	10	.87	20
Heavy construction contractors.....	9	9.57	2
Special trade contractors.....	8	4.44	5
Wholesale trade.....	7	1.58	16
General building contractors.....	5	4.03	7
Stone, clay & glass products.....	4	6.25	4
Automotive dealers & service stations.....	4	1.43	17
Agricultural production.....	3	N.A.	-
Machinery, except electrical.....	3	.70	23
Trucking & warehousing.....	3	1.85	13
State government.....	3	.72	22
Agricultural services.....	2	4.35	6
Mining & quarrying of nonmetallic minerals	2	7.14	3
Railroad transportation.....	2	2.15	10
Electric, gas & sanitary services.....	2	2.02	12
Miscellaneous business services.....	2	1.80	14
Coal mining.....	1	50.00	1
Lumber & wood products.....	1	2.22	8
Primary metal industries.....	1	1.32	18
Fabricated metal products.....	1	.77	21
Miscellaneous manufacturers.....	1	2.08	11
Building materials & farm equip. dealers..	1	.66	24
Apparel & accessory stores.....	1	1.04	19
Furniture & home furnishings store.....	1	1.67	15
Federal government.....	1	.48	25
TOTAL - Nonagricultural Industries Only...	87	.98	-
TOTAL - All Industries.....	90	N.A.	-

^{1/} Ranked by the number of deaths per 10,000 employees.

Note: A high rate of deaths per 10,000 employees where only a few deaths are indicated results from a low employment level in the industry.

N.A. Not available.

Table 5

STATE OF IOWA
WORK RELATED DEATHS
BY INDUSTRY
1972

Industry	Number of Deaths	Deaths per 10,000 Employees	Rank ^{1/}
Special trade contractors.....	17	8.90	3
Heavy construction contractors.....	11	10.48	2
Local government.....	9	.78	23
General building contractors.....	7	5.51	7
Trucking & warehousing.....	6	3.43	9
Wholesale trade.....	6	1.33	17
Electric, gas & sanitary services.....	5	5.10	8
Food & kindred products.....	4	.74	24
Lumber & wood products.....	4	7.40	4
Stone, clay & glass products.....	4	5.97	6
Machinery, except electrical.....	4	.81	21
Fabricated metal products.....	3	2.19	12
Building materials & farm equipment dealers..	3	1.86	15
State government.....	3	.71	25
Agricultural production.....	2	N.A.	-
Mining & quarrying of nonmetallic minerals...	2	7.14	5
Paper & allied products.....	1	2.56	10
Rubber & plastics products NEC.....	1	1.12	19
Apparel & other textile products.....	1	2.38	11
Primary metal industries.....	1	1.27	18
Electrical, equipment & supplies.....	1	.45	27
Miscellaneous manufacturers.....	1	1.96	14
Railroad transportation.....	1	1.09	20
Transportation by air.....	1	14.29	1
Communications.....	1	.78	22
Retail general merchandise.....	1	.36	30
Food stores.....	1	.40	29
Automotive dealers & service stations.....	1	.33	32
Miscellaneous retail stores.....	1	.45	28
Insurance agents, brokers & service.....	1	.57	26
Auto repair, service & garages.....	1	2.17	13
Amusement & recreation services, NEC.....	1	1.59	16
Nonprofit membership organizations.....	1	.34	31
TOTAL - Nonagricultural Industries Only.....	105	1.13	-
TOTAL - All Industries.....	107	N.A.	-

^{1/} Ranked by the number of deaths per 10,000 employees.

Note: A high rate of deaths per 10,000 employees where only a few deaths are indicated results from a low employment level in the industry.

N.A. Not available.

STATE OF IOWA
WORK RELATED DEATHS
1971

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
1.	1- 6-71	Local Government	Truck driver	41	Poisoning
	Death resulted from carbon monoxide poisoning, while sitting in truck with motor running.				
2.	1-21-71	General Building Contr.	Laborer	60	Fall to different level
	Victim was cleaning framing materials from a roof at a starch warehouse. A roof panel either broke or slipped and he fell thru to the floor, 33 feet below.				
3.	1-21-71	Local Government	Sanitation Worker	17	Struck by
	While working behind a sanitation truck the victim was struck by the rear view mirror of another truck.				
4.	1-22-71	Wholesale Trade	Laborer	19	Suffocation
	Victim was trying to remove frozen corn from an elevator storage bin, and the corn beneath him gave way, burying the man.				
5.	1-25-71	Special Trades Contr.	Laborer	50	Crushed
	Employee was attempting to pick up a reel of wire with crane, but failed to set outriggers. The victim was fatally injured when the crane overturned, crushing the cab with the victim trapped inside.				
6.	1-29-71	Automotive Dealers & Service	NR	69	Vehicle accident
	Victim was driving on highway when he suddenly veered into left lane of traffic and hit an oncoming car.				
7.	1-30-71	Federal Government	Rural Mail Carrier	50	Vehicle accident
	Victim had a head-on collision with another vehicle on a 100% snowpacked road.				
8.	2- 4-71	Local Government	Laborer	60	Crushing
	A truck rolled into landfill pushing victim into ditch, then landing on top of him.				
9.	2- 6-71	Food & Kindred Products	Laborer	24	Suffocation
	Employee was working with two other men, cleaning a bin of screenings. They undermined a pile and the victim was covered by the resulting slide of material.				
	NR Not reported.				

STATE OF IOWA
WORK RELATED DEATHS
1971 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
10.	2-22-71	State Government	NR	55	Heart attack
		Death due to heart attack.			
11.	2-23-71	Local Government	Patrol Operator	NR	Heart attack
		Victim was operating a snow plow and was found dead in snow plow cab. Plow had run partly off county gravel road.			
12.	2-25-71	Food & Kindred Products	Lab. Technician	29	Chemical burns
		On February 17, 1971, victim was walking by a tank of sodium hypochloride when it exploded. Died of injuries on February 25, 1971.			
13.	3-13-71	Automotive Dealers & Service	Attendent	18	Crushing
		Victim was working beneath car hoist which gave way, crushing him.			
14.	3-18-71	Coal Mining	Roustabout	58	Struck by
		Employee was placing a screen in a quarter shaft and was struck on the head by a counter weight.			
15.	3-18-71	Stone, Clay, & Glass Prod.	Truck driver	24	Drowning
		Victim apparently fell from plank which ran from one barge to another. Death due to drowning.			
16.	3-31-71	General Building Contr.	Laborer	27	Electrocution
		Victim came in contact with electric lines and was electrocuted.			
17.	4- 5-71	Misc. Business Services	Window Washer	28	Fall to different level
		Safety belt pulled loose from frame of window which victim was washing, and he fell nine floors.			
18.	4- 6-71	Railroad Transportation	Section Laborer	26	Electrocution
		While stretching wire over a highway the victim was electrocuted when the line wire snapped flipping into high voltage wire.			
19.	4-14-71	Wholesale Trade	Mill Foreman	43	Fall to different level
		Victim fell from truck while helping to fold tarp back. Death due to skull fracture, blood clot, and brain damage.			
		NR Not reported.			

STATE OF IOWA
WORK RELATED DEATHS
1971 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
20.	4-21-71	State Government	Maintenance Man	40	Vehicle accident
		Victim was in a 2-ton truck towing a sign trailer on edge of pavement shoulder when struck by semi-truck and was killed instantly.			
21.	4-25-71	Local Government	Park Maintenance Man	65	Struck by
		On April 20, 1971 another employee was cutting down a tree and thought victim was clear of area. Tree fell in wrong direction, striking victim. He died of injuries of April 25, 1971.			
22.	4-27-71	Public Utilities	Area Manager	50	Vehicle Accident
		Was driving auto on paved county road and lost control of vehicle and landed in ditch on opposite side of road. Death due to multiple fractures of head, neck and right leg.			
23.	5- 1-71	Wholesale Trade	Laborer	55	Crushing
		Automobile apparently slipped from bumper jack and crushed victim.			
24.	5- 5-71	Agricultural Service	Laborer	60	Crushing
		Victim was working with tree cutting crew when a tree fell on him and crushed his skull.			
25.	5- 5-71	Nonmetallic mining	Maintenance Worker	32	Fall to different level
		Employee fell 60 feet from top of tank while installing catwalk on dust collection unit.			
26.	5-17-71	Special Trades Contr.	Laborer	66	Fall to different level
		Employee was pulled from roof while trying to keep derrick from falling from roof. He fell 45 feet to asphalt paving.			
27.	5-24-71	Auto Service & Garages	Owner/Operator	24	Struck by
		Victim was standing on top of a tire which he had just inflated. He apparently tried to move the tire rim by striking it with a hammer, but the tire exploded upon impact. The blast threw him almost to the ceiling and the tire rim struck the victim in head.			
28.	6- 2-71	Food & Kindred Products	Maint. Foreman	54	Struck by
		The victim was making repairs inside a rendering cooker when it was turned on and she was struck by the paddles in the cooker.			

STATE OF IOWA
WORK RELATED DEATHS
1971 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
29.	6- 2-71	Misc. Business Services	Window Washer	36	Fall to different level
		The victim fell 12 stories when one end of the swinging scaffold he was working on suddenly dropped.			
30.	6- 5-71	Wholesale Trade	Elevator Supt.	45	Suffocation
		The victim was buried under corn when he went into a truck dump pit which held about 500 bushels of corn.			
31.	6- 7-71	Local Government	Laborer	18	Drowning
		Employee drowned when boat he was in sank. Was hauling riprap from shore to an island in a lake.			
32.	6- 8-71	Misc. Manufacturers	Electrician	39	Electrocution
		The victim was testing a piece of machinery and was electrocuted.			
33.	6-10-71	Trucking & Warehousing	Truck Driver	59	Crushing
		A bay weighing about 1400 pounds was being hoisted and the load fell and struck the victim on the head.			
34.	6-15-71	Stone, Clay & Glass Prod.	Laborer	48	Heart attack
		Died of a heart attack while at work.			
35.	6-16-71	Special Trade Contr.	Laborer	51	Fall to different level
		Victim fell from a scaffold, striking his head on the concrete. Possible sunstroke.			
36.	6-20-71	Special Trades Contr.	Laborer	47	Electrocution
		Victim was leaning over a water pipe while he was checking a motor he had installed. As he removed the plastic connectors, he was electrocuted.			
37.	6-26-71	Stone, Clay & Glass	Laborer	19	Suffocation
		Apparently slipped into a storage pit filled with crushed rock and was covered, resulting in suffocation.			
38.	6-28-71	General Building Contr.	Owner/Installer	37	Electrocution
		Was working on the roof of a silo when an electric drill he was using shorted.			

STATE OF IOWA
WORK RELATED DEATHS
1971 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
39.	7- 4-71	Heavy Constr. Contr.	Partner	34	Crushing
		Brake line on truck which was towing trailer and endloader broke and trailer jack-knifed, causing endloader to upset on victim.			
40.	7-13-71	Special Trades Contr.	Laborer	19	Suffocation
		Ditch caved in and buried victim.			
41.	7-13-71	Heavy Constr. Contr.	Equip. Operator	43	Crushing
		Motor grader overturned as a result of striking an unexposed object.			
42.	7-14-71	Local Government	Rodman	17	Electrocution
		Rodman with a survey crew was electrocuted when he raised rod to take an elevation reading and rod came in contact with power line.			
43.	7-16-71	State Government	Maintenance Worker	71	Heart attack
		Tractor tipped over and threw victim into lake. Autopsy revealed heart attack.			
44.	7-16-71	Food & Kindred Products	Maintenance Worker	36	Suffocation
45.	7-16-71	Food & Kindred Products	Packer	28	Suffocation
46.	7-16-71	Food & Kindred Products	Drum Operator	38	Suffocation
		Three victims were overcome by fumes while cleaning up spilled fish solubles in the basement of the plant. Two died right away; the third died 7-25-71.			
47.	7-17-71	Food & Kindred Products	Detasseler	17	Drowning
		The victim drowned when he decided to go swimming.			
48.	7-20-71	Primary Metal Industries	Machinist	65	Struck by
		Victim was hit in chest by block on press. Fatal chest injuries and had sliver of steel projecting from his neck.			
49.	7-25-71	Fabricated Metal Prod.	Owner	67	Fall to different level
		Died of injuries suffered when he fell from roof of building to concrete below.			
50.	8- 2-71	Heavy Const. Contr.	Roller Tractor Oper.	65	Crushing
		Victim fell off machine and was run over by its right drive wheel and sheeps-foot roller.			
51.	8- 6-71	Local Government	Mower	71	Crushing
		Tractor Mower the victim was driving upset in deep ditch, pinning him under it.			

STATE OF IOWA
WORK RELATED DEATHS
1971 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
52.	8- 9-71	Special Trades Contr.	Field Supt.	42	Fall from elevation
					Riding air conditioning unit as it was being lifted to roof. About 30 feet up, eye bolts broke and let unit fall. Victim fell off and died of internal injuries.
53.	8-10-71	Food & Kindred Products	Supervisor	49	Heart attack
					While walking about line, victim collapsed and fell on face. Died of a heart attack.
54.	8-11-71	Agricultural Services	Owner/Pilot	25	Airplane Crash
					Victim was killed when his single-engine plane crashed while spraying a soy-bean field.
55.	8-11-71	Trucking & Warehousing	Truck driver	52	Vehicle accident
					Victim died when his truck was struck by another vehicle and it rolled over, crushing him in the cab.
56.	8-20-71	Special Trades Contr.	Owner	66	Struck by
					Workmen were demolishing a granary. A brace was removed and the building collapsed, hitting the victim.
57.	8-23-71	Food & Kindred Products	Routeman	54	Vehicle accident
					Lost control of truck on gravel road. Truck went into ditch, throwing victim out and then rolling over him and crushing him.
58.	8-26-71	Heavy Const. Contr.	Top Man-read strings	19	Crushing
					North bank of ditch caved off and pinned victim against the south bank.
59.	8-30-71	Public Utilities	Lineman	32	Crushing
					Truck rolled and struck pole victim was working on. The pole fell, landing on the victim and crushing his left side and breaking his neck.
60.	9-10-71	Heavy Constr. Contr.	Truck driver	27	Vehicle accident
					His truck was headed north and it collided with a truck headed east.
61.	9-10-71	Local Government	Custodian	58	Fall
					Tripped over a lane marker and struck his head on bleachers. Died 9-27-71 of head injuries.
62.	9-15-71	Trucking & Warehousing	Driver	24	Vehicle accident
					Was involved in an accident with a truck. His truck caught on fire and he died in it.

STATE OF IOWA
WORK RELATED DEATHS
1971 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
63.	9-16-71	Heavy Constr. Contr.	Roller operator	38	Struck by
		Was rolling shoulder of road, when machine turned the wrong way and started to roll. He jumped off and started to run, but the machine caught him and rolled over him. He was crushed.			
64.	9-23-71	Machinery, Exec. Electr. Plant superintendent		58	Vehicle accident
		While on an errand for the company, the company truck he was driving was struck by a train. The victim died of extensive head injuries.			
65.	9-28-71	Wholesale Trade	Truck driver	37	Crushed
		The victim was backing a tractor onto a truck. A wheel of the tractor went over the edge of the truck bed and the tractor tipped over, pinning the victim to a bucket of an endloader parked nearby.			
66.	9-30-71	Railroad Transportation	Brakeman	54	Struck by
		Fell under the wheels of a moving boxcar. Lost both legs and died later at hospital.			
67.	10- 1-71	Machinery, Exec. Electr. Assembler		63	Crushed
		Assembling rear light to scraper when another employee activated machine, crushing victim.			
68.	10- 1-71	Nonmetallic Mining	Laborer	29	Electrocution
		Cleaning roadway of debris after blasting. Fine dynamite wire had become draped over a power line and victim tried to pull it loose.			
69.	10- 9-71	Food & Kindred Products	Smoker	57	Suffocation
		Death due to suffocation as result of fire on exterior loading dock and in basement of smoke house area.			
70.	10-11-71	Food & Kindred Products	Laborer	23	Crushed
		Victim walked back of a moving truck and was run over by it.			
71.	10-14-71	Agriculture	Farmer	58	Crushed
		End loader victim was operating threw victim off and passed over his body.			
72.	10-21-71	Food & Kindred Products	Laborer	18	Electrocution
		Victim pushed portable grain elevator into 7000 volt power line.			
73.	10-23-71	Stone, Clay, & Glass Products	Truck driver	55	Electrocution
		Started to unload truck using boom mounted on truck. As load was being lifted, boom contacted power line.			

STATE OF IOWA
WORK RELATED DEATHS
1971 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
74.	10-30-71	Machinery, Exec. Elec.	Fork truck operator	30	Crushing
		Was hooking trailer to hitch of fork truck and put truck in gear while standing behind it. The truck mast pinned victim between truck and wall.			
75.	10-30-71	Apparel & Accessory Store	Salesman	37	Suffocation
		Victim went to basement of store and was overcome by freon fumes coming from leaking air conditioner in adjacent store.			
76.	11- 1-71	Agriculture	Farmer	20	Crushing
		Was found pinned between the frame and the hydraulic box of a stock truck.			
77.	11- 4-71	General Building Contr.	Construction worker	58	Heart attack
		Suffered heart attack and died while working on construction job.			
78.	11- 7-71	Agriculture	Farm laborer	19	Caught in
		Backed into power take off of grain elevator. Died of internal bleeding from lacerated liver.			
79.	11-11-71	Heavy Construction Cntr.	Truck driver	45	Crushing
		His truck overturned into ditch and he was covered with gravel as he attempted to get out of cab.			
80.	11-12-71	Automotive Dealers & Service	Sales Manager	48	Electrocution
		Was raising TV pole to higher position alongside trailer office and it struck a high line.			
81.	11-12-71	Furniture & Home Furnishings	Part-time helper	41	Fall to different level
		Had climbed 40 ft. TV tower to take off old rotor and fell to ground.			
82.	11-12-71	Wholesale Trade	Laborer	20	Crushing
		Truck rolled, pinning him between it and annex building.			
83.	11-13-71	Heavy Construction Cntr.	Owner	39	Crushed
		Had caterpillar on lowboy. Turned corner too short and rear wheels of trailer slid off into ditch. Victim tried to drive cat off trailer to lighten load and it overturned on him.			
84.	12- 2-71	Special Trades Contr.	Electrician	26	Electrocution
		Came into contact with the exposed contacts on the upper portion of transformer.			

STATE OF IOWA
WORK RELATED DEATHS
1971 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
85.	12- 6-71	Building Mat. & Farm Equip.	Laborer	19	Suffocation
Suffocated in a hopper car of phosphates.					
86.	12- 7-71	Heavy Construction Contr.	Owner	43	Crushing
End loader slipped off low side of low-boy, rolling over and crushing victim.					
87.	12-11-71	General Building Contr.	Carpenter	47	Fall from elevation
Installing sheeting on roof and fell off edge of roof.					
88.	12-17-71	Wholesale Trade	Manager	47	Crushing
Was on truck assisting driver covering load with tarp. Truck began to roll and victim fell beneath the wheels of the truck and was crushed.					
89.	12-17-71	Local Government	Street employee	59	Suffocation
Dirt gave away between shorings and buried victim in sewer ditch.					
90.	12-22-71	Lumber & Wood Prod.	Night Inspector	38	Crushed
Self-dumping container shifted and caused fork lift to turn over. Victim tried to jump clear and was struck by fork and load and was crushed.					

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STATE OF IOWA
WORK RELATED DEATHS
1972

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
1.	1- 4-72	Fabricated Metal Products	Maintenance	49	Fall
	Was removing pin from counter balance arm, arm shifted, victim lost his balance and fell, striking head on cement floor.				
2.	1- 5-72	Stone, Clay & Glass Prod.	Mold machine operator	36	Crushed
	Reached in mold machine to return flask which was still full of sand. Machine was activated and victim was caught between empty flask and separator grab bar.				
3.	1-13-72	Machinery, Except Elec.	Service technician	35	Crushed
	Victim was crushed between platform of elevator he was working on and the sill. Had jumped out the door interlocks and this had disconnected all the safeties.				
4.	1-15-72	Electric, Gas, and Sani- tary Services	Chief fuel handler	55	Heart attack
	Had moved tractor outside building and was returning to shop office when he suffered a heart attack.				
5.	1-17-72	Wholesale Trade	Laborer	41	Struck by
	Cable caught car puller switch cover tearing it off and hitting victim in temple, knocking him down and underneath another car about 10 feet away.				
6.	1-18-72	Fabricated Metal Prod.	Machinist	28	Electrocution
	Boom and cable of crane were 3 or 4 feet from electric lines, high voltage arced and transmitted current through boom cable to tank, grounding man.				
7.	1-19-72	Food and Kindred Prod.	Stunner	17	Crushing
	Victim leaned over side of knocking pen to dislodge cow. Dislodged cow and door revolved causing his head to be caught between the door and the side of the knocking pen.				
8.	1-20-72	Special Trade Contractors	Laborer	37	Crushed
	Directing concrete truck to unload and it backed over him.				
9.	1-24-72	Machinery, Except Elec.	Bricklayer helper	28	Explosion
	Victim was checking a tank. Turned on the air to the tank, positioned his head near the end of the tank to take a look, and the tank exploded.				
10.	2- 3-72	Electric, Gas, And Sani- tary Services	Delivery driver	24	Vehicle accident
	Other driver pulled through stop sign and was struck by victim.				

STATE OF IOWA
WORK RELATED DEATHS
1972 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
11.	2- 8-72	Wholesale Trade	Salesman	43	Vehicle accident
		Involved in collision with a train.			
12.	2-11-72	Trucking & Warehousing	Truck driver	25	Vehicle accident
		Went off side of highway and hit guard rail which drove him directly into overpass pillar.			
13.	2-28-72	General Building Contractor	Superintendent/foreman	44	Fall
		Using cutting torch to disassemble fire escape. Was kicking a portion of fire escape free after completing cutting it free and fell 6 stories.			
14.	3- 1-72	Electric, Gas, And Sanitary Services	Fuel handler	57	Heart attack
		Climbed down ladder to bottom of bunker and fell on the coal over bunker opening and was covered over with coal. Suffered heart attack.			
15.	3- 1-72	Electric, Gas, And Sanitary Services	Lineman journeyman	56	Electrocuted
		Was repairing storm damage. Switch malfunctioned and the line the victim was working on was energized. Contacted 13,000 volts.			
16.	3- 6-72	Railroad Transportation	Carman	49	Crushed
		Inspecting train being made up for departure and was struck by and caught under the wheels of a car which rolled back when it failed to couple to the engine.			
17.	3- 6-72	Special Trade Contractors	Painter	52	Fall
		End of swing stage scaffold gave way from the building roof area and victim fell 3 stories.			
18.	3- 8-72	Primary Metal Industries	Annealer	21	Burns
		Placed stem of wire in heat treat furnace. Stem contained water which quickly converted to steam. The expansion of steam caused salt solution to spray out of furnace. Temperature about 1000° F.			
19.	3-13-72	Special Trade Contractors	Furnace installer	63	Heart attack
		Was installing a furnace when he suffered fatal heart attack.			
20.	3-13-72	Lumber & Wood Products	Flooring	27	Crushed
		Victim was unloading floors when a cart of floors fell catching him between them and a saw horse. His chest was crushed.			

STATE OF IOWA
WORK RELATED DEATHS
1972 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
21.	3-22-72	Lumber & Wood Products	Warehouseman	27	Fall
		Inside a boxcar unloading lumber & fell backwards over stack of lumber at the door of the car, striking head on the paved dock next to the car.			
22.	3-23-72	Paper & Allied Products	Extruder Helper	18	Crushed
		While changing roll of plastic, reached down after he cut plastic, tried to catch roll & got head too low as arms swung down. Caught head. Severe head injuries.			
23.	3-24-72	Local Government	Equipment operator	56	Struck by
		Using chain saw, sawing down tree, tree started to fall and he ran to get away from it. Big limb of tree struck him. Died of head injuries.			
24.	3-29-72	Trucking & Warehousing	Truck driver	63	Crushed
		Was loading beans onto a truck when his clothes became caught in an auger and he was crushed.			
25.	3-29-72	Automotive Dealer & Service Stations	Station manager	NR	Gun shot
		Was shot and killed during the course of a robbery.			
26.	4- 6-72	Amusement & Recreation Services, NEC	Sod employee	20	Vehicle accident
		Going to a sod job, when tractor he was driving went out of control, flipping over the edge of a bridge and landing on top of victim.			
27.	4- 7-72	Special Trade Contractors	Painter	49	Fall
		Fell 30 feet from scaffold where he was working.			
28.	4- 8-72	Agricultural Production	Farm laborer	40	Crushed
		Apparently got caught in auger system. Massive injuries to lower part of his body.			
29.	4-10-72	Special Trade Contractors	Journeyman roofer	68	Fall
		Slipped and fell off of sloped roof; fell 12 feet to the ground, striking his head on the sidewalk			
30.	4-11-72	Special Trade Contractors	Owner	50	Suffocation
		Installing a sewer line in disturbed soil, when 10-12 foot ditch caved in.			
		NR Not reported.			

STATE OF IOWA
WORK RELATED DEATHS
1972 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
31.	4-12-72	Special Trade Contractors	Vice-president	43	Vehicle accident
		Involved in a truck accident.			
32.	4-13-72	Heavy Construction Contractors	General Manager	50	Crushed
		Was inspecting gravel pit operations when payloader backed over him crushing him.			
33.	4-24-72	Local Government	Laborer	48	Crushed
		Was in excavation where crossroad culvert had been lowered and connected, and was in position to disconnect the chain used in lowering and supporting culvert pipe. As the slack was reduced on the cable supporting the chain, the dragline bucket which was also attached to this cable fell striking victim's head.			
34.	4-27-72	Local Government	End loader operator	65	Crushed
		End loader slipped off tilt bed trailer and rolled over in ditch, crushing victim.			
35.	5- 9-72	Electrical Equipment and Supplies	Receiving dept.	51	Crushed
		Placed his head between rear of loaded trailer and building to talk to a driver when another driver backed his tractor in under the trailer front end and caused him to be crushed. (skull)			
36.	5-18-72	Transportation By Air	Flight instructor	29	Air crash
		Victim died when a student training flight crashed.			
37.	5-25-72	Stone, Clay, & Glass Prod.	Truck driver	58	Heart attack
		Died of a heart attack.			
38.	5-26-72	Heavy Construction Contr.	Flagman	69	Struck by
		Working as flagman when he was struck by a car.			
39.	5-30-72	Heavy Construction Contr.	Rubber tire roller operator	54	Crushed
		Operating rubber tire roller and it overturned pinning victim underneath.			

STATE OF IOWA
WORK RELATED DEATHS
1972 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
40.	6- 6-72	Special Trade Contr.	Concrete finish foreman	22	Vehicle accident
		Driving pickup in heavy fog, crossed the center line and sideswiped the side of a semi, causing accident.			
41.	6- 8-72	Local Government	Line man	26	Electrocution
		Repairing broken light wire, when victim came in contact with high voltage wire.			
42.	6- 8-72	State Government	Correctional Officer V	48	Struck by
		While trying to subdue inmate, was stabbed in heart with knife.			
43.	6-14-72	Local Government	Housekeeper	60	Heart attack
		Walking in hall returning from employee's cafeteria when victim collapsed.			
44.	6-23-72	Wholesale Trade	Branch manager	42	Vehicle accident
		His car struck an abutment (bridge).			
45.	6-24-72	Wholesale Trade	Fertilizer applicator	50	Crushed
		Was operating a go-boy, when the machine overturned on him.			
46.	6-30-72	Heavy Construction Contr.	Job foreman	25	Electrocution
		Victim hanging a transformer on a pole for line improvements. Autopsy report said burns on body indicated he came into contact with high-voltage lines.			
47.	7- 5-72	Heavy Construction Contr.	Laborer	19	Vehicle accident
		Hit a bridge abutment.			
48.	7-10-72	Food & Kindred Products	Shipping	41	Crushed
		Attempted to get on the running board of moving truck hand slipped and he fell under the truck and was run over. Crushed chest & fractured skull.			
49.	7-13-72	Heavy Construction Contr.	Laborer	18	Crushed
		Brooming rock chip on shoulder of road behind truck while truck was backing up. Bumped victim, he tripped on broom and fell under back wheels of truck.			
50.	7-15-72	Electric, Gas, & Sanitary Services	Line foreman	56	Electrocution
		Repairing broken wire when he came into contact with a high voltage line.			

STATE OF IOWA
WORK RELATED DEATHS
1972 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
51.	7-19-72	General Building Contr.	Laborer	20	Fall
		Working on roof of new hanger helping lay insulation on steel roof when he lost his balance and fell head first 20 feet.			
52.	7-20-72	Local Government	Dragline operator	61	Heart attack
		Carrying paint to be loaded on truck when he fell to the ground. Died of a heart attack.			
53.	7-20-72	Heavy Construction Contr.	Co-owner	40	Crushed
		Was operating a loader and tripped the control lever of the bucket, causing the arm of the bucket to drop and crushing him against the side of the machine.			
54.	7-22-72	Special Trade Contractors	Iron Worker	32	Drowning
		Was turning derrick girder dogs loose, the girder turned over, he rode girder down to the water and was pulled under derrick barge by the current.			
55.	7-24-72	Special Trade Contractors	Laborer	20	Fall
		Had been shoveling dirt around concrete forms for an island when he apparently walked too close to a hole and fell in. (approx. 4')			
56.	7-28-72	Special Trade Contractors	Volunteer equipment operator	38	Crushed
		Was operating heavy machinery when a section of the third floor of the house fell forward burying the victim. Were demolishing the house.			
57.	7-31-72	Special Trade Contractors	Painter	39	Drowning
		Working on scaffold painting bridge. Scaffold collapsed and victim fell 100 feet, striking a barge and falling into the water.			
58.	8- 1-72	General Building Contr.	President & Superinten- dent	38	Vehicle accident
		Driving from job site and missed turn in rain and fog and went down a 4 ft. bank.			
59.	8- 3-72	Machinery, Except Electric	Forklift operator	37	Crushed
		Was hauling steel with a forklift when the machine upset pinning the victim underneath.			

STATE OF IOWA
WORK RELATED DEATHS
1972 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
60.	8- 7-72	Special Trade Contr.	Steelwork helper	22	Struck by 50 lb. steel cable weight ball fell more than 40 ft. and struck victim on the head.
61.	8-11-72	Food and Kindred Prod.	Janitor	53	Unknown Came to work and was found lying in locker room dead.
62.	8-17-72	Building Materials and Farm Equipment	Yard Salesman	46	Heart attack Was loading pallets and died of a heart attack.
63.	8-28-72	Local Government	Librarian	63	Fall Tripped on mat by front door of school and fell. Fractured hip; died in hospital.
64.	9- 1-72	Heavy Construction Contr.	Pipefitter	58	Heart attack Fighting a fire on job site when collapsed from heart attack. Died 9-4-72.
65.	9- 5-72	General Building Contr.	Crewhelper	19	Fall Was starting to tighten the hoop on a 16 x 60 silo using a rope swing and Bos'ns chair. Bos'ns chair & block & tackle came unhooked from top of wall. Victim unhooked tagline from safety belt after being in Bos'ns chair.
66.	9- 5-72	Trucking & Warehousing	Warehouseman	56	Heart attack Slumped over with a heart attack while at work.
67.	9-11-72	Heavy Construction Contr.	Equipment operator	22	Electrocution Was straightening dragline cable and struck a power line, electrocuting victim.
68.	9-11-72	Food and Kindred Products	Maintenance man	41	Burns Fell a short distance down an elevator shaft where hot water had collected. Sustained burns over 93% of his body. Died 5 days later.
69.	9-15-72	General Building Contr.	Laborer	43	Fall Swinging scaffold caught on corner and when descending flipped over backwards, and victim fell 30 feet.
70.	9-18-72	Miscellaneous Retail Stores	Maintenance	66	Heart attack Painting a 500 gallon tank with a brush when he had a fatal heart attack.

STATE OF IOWA
WORK RELATED DEATHS
1972 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
71.	9-20-72	Special Trade Contr.	Owner	NR	Vehicle accident
Victim's tractor collided with the rear of another tractor and victim suffered a fractured neck.					
72.	9-23-72	Special Trade Contractors	Painter	24	Electrocution
Was on ladder painting beams supporting an electric transformer when he came into contact with a live wire.					
73.	9-26-72	Stone, Clay, and Glass Products	Watchman	57	Heart attack
Had heart attacks.					
74.	9-29-72	Nonprofit Membership Organizations	Custodian	74	Vehicle accident
Was traveling to Fort Dodge to pickup parts for furnace. His vehicle collided head on with a gravel truck.					
75.	10-2-72	General Building Contr.	Laborer	51	Fall
Fell off wall & hit head on concrete floor and then fell through a guarded floor opening, landing in basement. Died of a skull fracture.					
76.	10-3-72	Heavy Construction Contr.	Laborer	59	Struck by
Reached over H-beam to unhook choke hook and pulled H-beam over and it rolled off pile onto man's leg. Suffered leg injuries. Died from complications.					
77.	10-5-72	Trucking & Warehousing	Truck driver	69	Vehicle accident
Was driving truck when truck left road and hit fences and tore up bean field. Driver found dead in cab of truck.					
78.	10-9-72	Miscellaneous Manufacturing Industries	Printing Dept. Supervisor	54	Heart attack
Was sitting at his desk when he suffered a heart attack.					
79.	10-12-72	Wholesale Trade	Shear operator	62	Caught in
Apparently turned on alligator shear, knelt down and put neck between the moving blades. Neck was severed. Probably a suicide.					
80.	10-17-72	Fabricated Metal Prod.	Operator	51	Struck by
Was tagging material box when a scaffold board fell from bottom scaffold rods and hit him. Suffered 2 fractured vertebra, clavicle, and multiple ribs.					

NR Not reported.

STATE OF IOWA
WORK RELATED DEATHS
1972 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
81.	10-18-72	Special Trade Contr.	Laborer	NR	Heart attack Died of heart attack.
82.	10-19-72	Retail General Merchandise	Receiving clerk	18	Crushed Was operating an elevator and was caught between the elevator and the shaft.
83.	10-23-72	Wholesale Trade	Salesman	61	Vehicle accident Victim's vehicle was struck head on by another car.
84.	10-26-72	Agricultural Production	Laborer	NR	Caught in Became caught in power take off of auger and his neck was broken.
85.	10-26-72	Trucking & Warehousing	Driver	52	Heart attack Stopped truck and died of a heart attack.
86.	10-30-72	Lumber and Wood Products	Laborer	54	Heart attack Stepped from pickup and had heart attack.
87.	11- 2-72	Insurance Agents, Brokers & Service	Resident adjuster	40	Vehicle accident Vehicle skidded into victim's lane of traffic.
88.	11- 2-72	Nonmetallic Minerals, Except Fuels	Truck foreman	36	Vehicle accident Truck hit side of bridge and then rolled crossways. Suffered severe head injuries.
89.	11- 4-72	Lumber and Wood Products	Driver	47	Vehicle accident Tractor went off highway and overturned. Died from injuries 11-17-72.
90.	11-14-72	State Government	Hwy. maintenance man	34	Vehicle accident Driving to worksite and was hit in the rear by a semi truck.
91.	11-16-72	Local Government	Bus driver	61	Heart attack Died of a heart attack while driving school lunch van truck.
NR Not reported.					

STATE OF IOWA
WORK RELATED DEATHS
1972 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
92.	11-20-72	Auto Repair, Services, and Garages	Mechanic	47	Heart attack
		While looking at a wire suddenly dropped to the floor and died almost instantly.			
93.	11-22-72	Heavy Construction Contr.	Foreman	30	Vehicle accident
		Driving pickup truck which collided with a truck that failed to stop at a stop sign.			
94.	11-22-72	Building Materials and Farm Equipment	Laborer	49	Vehicle accident
		His truck was hit by another vehicle as he was entering the highway.			
95.	11-22-72	Nonmetallic Minerals, Ex- cept Fuels	Loader & scale man	64	Drowning
		Loader was found overturned in water pit.			
96.	11-25-72	Communication	Sports announcer	21	Vehicle accident
		Returning from a basketball game when his vehicle struck a tractor which was sitting in the travelled section of the road.			
97.	11-28-72	Special Trade Contr.	Foreman	55	Heart attack
		Had a heart attack.			
98.	11-28-72	State Government	Meat inspector	59	Vehicle accident
		Driving state car and was involved in a car-truck accident. Died of head and internal injuries.			
99.	12- 6-72	Building Materials and Farm Equipment	Supervisor	37	Vehicle accident
		Driving pick up truck and hit an improperly parked semi-trailer.			
100.	12- 6-72	General Building Contr.	Laborer	57	Heart attack
		Lost control of vehicle and crashed into utility pole. Suffered heart attack prior to crash.			
101.	12- 7-72	Local Government	Park laborer	58	Heart attack
		Suffered a heart attack while driving the pickup truck.			

STATE OF IOWA
WORK RELATED DEATHS
1972 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
102.	12-11-72	Trucking & Warehousing	Truck driver	49	Vehicle accident
		Struck car from behind and his semi jack-knifed into the path of an on-coming semi.			
103.	12-12-72	Machinery, Except Electrical	President	79	Vehicle accident
		Involved in auto accident while on company business.			
104.	12-14-72	Rubber & Plastics Prod., NEC	O.T.R. Helper	18	Crushed
		Fork truck he was driving overturned and his head was pinned between the overhead guard and the pavement.			
105.	12-14-72	Apparel and Other Textile Products	Skinner	58	Heart attack
		Stretching skins. Had stopped for a break and collapsed. Died of a heart attack.			
106.	12-18-72	Stone, Clay, and Glass Products	Night burner	NR	Heart attack
		Suffered a heart attack.			
107.	12-29-72	Food Stores	Store Manager	51	Heart attack
		Suffered a stroke while at work.			
		NR Not reported.			

SECTION III

BOILER DIVISION

STATE OF IOWA
REPORT OF BOILER INSPECTIONS
AND FEES COLLECTED
STATE AND INSURED BOILERS
FISCAL YEARS 1971-1972^{1/}

	FY 1971	FY 1972	Total 1971 & 1972
INSPECTIONS^{2/}			
State.....	1,958	1,766	3,724
Insured.....	8,739	8,893	17,632
Total.....	10,697	10,659	21,356
FEES COLLECTED^{3/}			
State.....	\$22,112.00	\$19,308.00	\$41,420.00
Insured.....	17,824.00	18,324.00	36,148.00
Total.....	\$39,936.00	\$37,632.00	\$77,568.00

^{1/} July 1, 1970, through June 30, 1971, and July 1, 1971, through June 30, 1972.

^{2/} State inspections are made by the State Boiler Inspector and his deputies from the Bureau of Labor. Insured inspections are made by insurance company inspectors deputized by the Bureau of Labor.

^{3/} A fee of \$2.00 is collected by the Bureau of Labor for the issuance of a certificate to insurance inspected equipment. Rates of charges for State inspected equipment are determined under Chapter 89.7, Code of Iowa.

The fees shown include amounts for travel and subsistence charged whenever special inspections are requested.

SECTION IV

PRIVATE EMPLOYMENT AGENCIES

STATE OF IOWA
REPORT OF LICENSES ISSUED
AND FEES COLLECTED
PRIVATE EMPLOYMENT AGENCIES
FISCAL YEARS 1971-1972^{1/}

	FY 1971	FY 1972	Total 1971 & 1972
Number of licenses issued.....	39	39	78
License fees collected ^{2/}	\$1,950.00	\$1,950.00	\$3,900.00

^{1/} July 1, 1970, through June 30, 1971, and July 1, 1971, through June 30, 1972.

^{2/} Annual license fee is \$50.00.

APPENDIX

MATERIALS AVAILABLE FROM THE RESEARCH AND STATISTICS DIVISION OF THE IOWA BUREAU OF LABOR

Recordkeeping and Reporting Forms and Aids:

The following recordkeeping and reporting forms are available at no charge upon request from the Iowa Bureau of Labor.

<u>Items Available</u>	<u>No. Distributed 1971-1972</u>
"Recordkeeping Requirements Under the Williams-Steiger Occupational Safety and Health Act of 1970."	6,639
OSHA Form No. 100, "Log of Occupational Injuries and Illnesses."	2,280
Iowa Form No. L-1/WC-1 "Employer's Work Injury Report." (Substitute for OSHA Form No. 101, "Supplementary Record of Occupational Injuries and Illnesses.")	269,377
OSHA Form No. 102, "Summary, Occupational Injuries and Illnesses."	2,201
OSHA Poster, "Safety and Health Protection on the Job."	1,223
BLS Report 412, "What Every Employer Needs to Know about OSHA Recordkeeping."	172

Audio-Visual Aids:

The following audio-visual aids are available for loan from the Iowa Bureau of Labor free of charge.

"The Accident Bug." An animated, 25 minute, 16 mm, sound, color film on the OSHA recordkeeping system for presentation to employer representatives such as industrial nurses, first-aid personnel, foremen and superintendents. Produced by the U.S. Department of Labor, Bureau of Labor Statistics.

"OSHA Recordkeeping." A 25 minute video tape for use on a 1/2 inch video tape recorder and monitor on the OSHA recordkeeping system for presentation to employer groups such as safety professionals. Produced by the U.S. Department of Labor, Office of Training and Education and the Bureau of Labor Statistics.

"IOSHA Recordkeeping and Reporting." A 30 minute projector recorder cartridge for use on a 3M brand Sound-Slide System on Iowa's OSHA recordkeeping and reporting system for presentation to employer groups. Produced by the Iowa Bureau of Labor, Education Division and Research and Statistics Division.

Other:

A summary of the recordkeeping, reporting and posting responsibilities of employers under Iowa's Occupational Safety and Health Act has been printed on the back of Iowa Form No. L-1/WC-1, "Employer's Work Injury Report," for convenience. Also, as a part of the Bureau of Labor's continued effort to assist the employers of Iowa and to reduce the burden placed upon them by various reporting requirements, Form No. L-1/WC-1 was revised in the fall of 1971 to incorporate on one form all items required by the Iowa Industrial Commissioner, the Iowa Bureau of Labor and the U.S. Bureau of Labor Statistics. Copies of this form are made available by the Iowa Bureau of Labor to any employer upon request.

The staff of the Research and Statistics Division and the Education Division have made themselves available for conducting seminars on the recordkeeping and reporting requirements for both employer and employee groups. Requests for such sessions should be made in writing to the Iowa Bureau of Labor, allowing sufficient time for the scheduling of the meetings.

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Iowa Employment Security Commission
1000 East Grand Avenue
Des Moines, Iowa 50319