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IOWA BUREAU OF LABOR

BIENNIAL REPORT
1969 - 1970



East 7th and Court Avenue
Des Moines, Iowa 50319

IOWA BUREAU OF LABOR

BIENNIAL REPORT

1969 - 1970

Jerry L. Addy, Labor Commissioner

Prepared by the
Research and Statistics Division

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East 7th and Court Avenue
Des Moines, Iowa 50319

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SECTION A

WORK INJURIES

WORK INJURIES

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 or frequenting the area.

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 accident 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 keep a record of any accident that results in the death of an employee or in an injury that "will or probably may" prevent an employee from returning to work within two days. This record shall at all times be open to inspection by an inspector of the Bureau of Labor. The law further provides that within forty-eight hours after such an accident the employer forward to the Commissioner of Labor a written report of the injury. The "Employers Work Injury Report" is used for this purpose.

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 accident in his own words as completely as possible and then supply certain details which are essential to the analysis. The Bureau of Labor's Form Number L-1, "Employers Work Injury Report," meets these criteria.

Each report is always about a single accident or injury. Accidents that result in multiple injuries require a separate report for each individual injured. Basically, the report tells the whole story of the accident--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 accident and therefore should be corrected in order to avoid similar accidents.

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.

Reported Disabling Injuries

During the 1969-1970 biennium, 14,176 disabling work injuries were reported to the Bureau of Labor. Of these, 5,812 were reported in 1969 and 8,364 in 1970. What may at first appear as a substantial over-the-year increase in injuries was in reality the result of a lag in coding while converting to the latest revision of the "U. S. A. Standard Method of Recording and Measuring Work Injury Experience" due to a change in the administration of the Bureau of Labor. A comparison of the last seven months of 1969 with the same period of 1970 (see Table 6) reveals that there was little difference in the number of reported injuries reported during comparable periods of each year--4,927 during July through December of 1969 and 4,887 during the same months of 1970.

By far the most common type of injury sustained in both 1969 and 1970 was sprains or 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 in 1969 and 17.2 percent in 1970. Injuries characterized by contusion, crushing or bruise represented 14.8 percent of the total in 1969 and 14.2 percent in 1970. Fractures were sustained in about 12 percent of the reported cases each year.

The part of a person's body most frequently affected by injuries was the trunk. The trunk was directly affected in nearly one-third of the cases reported. Over 21 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 24.6 percent of the cases in 1969 and in 23 percent of the cases in 1970.

Working surfaces, surfaces in use as supports for people, were the most common agency associated with the reported injuries. These accounted for 18.5 percent of the injuries in 1969 and 19 percent in 1970. Vehicles directly caused about one out of every ten injuries in 1969 and 1970. Metal items; machines; boxes, barrels and other containers; and unpowered hand tools also produced or inflicted a significant number of the reported injuries.

The most prevalent kind of accident was one caused by being struck by an object. Overexertion was the next most common type of lost-time accident. Falls, either from an elevation or on the same level, represented 17.5 percent of the accidents in 1969 and 1970.

By far the greatest number of disabling work injuries suffered during the biennium occurred in the manufacturing industries. Manufacturing workers suffered 9,133 reported injuries--64.4 percent of the total--during the 1969-1970 period. However, manufacturing workers represented only one-fourth of the total nonfarm employment in the state. The second largest number of disabling injuries, 1,496 or 10.6 percent of the total, was sustained by state and local government employees. Government employment represents nearly one-fifth of the nonfarm total and includes school employees, employees in state institutions, local fire and police employees as well as general administrative workers. The contract construction industries, representing 4.7 percent of the employment, had 724 injuries--5.1 percent of the total.

The greatest majority of the injuries, over 96 percent, were of a temporary nature. However, 1.3 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 1969-1970 biennium.) In addition, 364 of the injuries, 2.6 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 the permanent impairment of functions of the body or any of its parts.

Table 1
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION AND NATURE OF INJURY
1969 - 1970
1969

Industry Division	Amputations	Burns-heat & chemical	Contagious or infectious disease	Contusion, crushing 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....	1	0	0	2	4	0	0	0	4	1	0	1	7	3	23
Mining.....	3	5	0	5	8	0	0	0	8	0	0	1	5	1	36
Contract Construction.....	5	22	1	45	45	2	8	0	83	7	2	9	71	53	353
Manufacturing.....	134	178	18	583	712	40	38	14	405	78	42	90	1,175	201	3,708
Transp., Comm. & Pub. Utilities.	11	7	1	35	31	4	6	1	48	8	1	7	108	23	291
Wholesale & Retail Trade.....	13	28	2	48	49	2	7	1	56	19	2	13	131	47	418
Finance, Ins. & Real Estate.....	0	0	0	1	0	0	0	0	0	0	0	0	1	1	3
Services.....	8	13	1	69	46	6	10	0	59	4	5	7	168	45	441
Government.....	11	10	1	74	80	9	5	0	60	5	2	26	197	59	539
TOTAL.....	186	263	24	862	975	63	74	16	723	122	54	154	1,863	433	5,812

1970

Agric., Forestry & Fisheries....	1	1	0	3	4	1	1	0	4	1	0	0	15	5	36
Mining.....	1	2	0	7	6	0	1	0	9	1	0	1	4	8	40
Contract Construction.....	9	15	3	43	40	1	12	4	79	6	2	6	84	67	371
Manufacturing.....	155	204	73	789	1045	87	66	5	588	143	46	158	1,698	368	5,425
Transp., Comm. & Pub. Utilities.	6	17	4	59	51	0	11	3	75	10	0	3	171	40	450
Wholesale & Retail Trade.....	13	28	4	68	96	2	12	0	82	24	3	10	196	65	603
Finance, Ins. & Real Estate.....	0	0	0	0	1	0	1	0	3	0	0	0	1	3	9
Services.....	3	17	3	76	55	2	10	1	54	10	1	9	168	64	473
Government.....	14	26	5	144	141	20	25	1	102	20	5	38	326	90	957
TOTAL.....	202	310	92	1189	1439	113	139	14	996	215	57	225	2,663	710	8,364

Table 2
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION AND PART OF BODY AFFECTED
1969 - 1970

Industry Division	1969															
	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	1	0	5	1	3	10	5	5	3	1	0	0	0	1	23
Mining.....	4	2	0	9	4	4	7	3	15	7	3	1	0	0	0	36
Contract Construction.....	37	15	5	81	26	28	97	57	101	42	24	11	3	3	15	353
Manufacturing.....	210	113	23	1,279	227	711	1,158	761	907	313	289	35	30	11	55	3,708
Transp., Comm. & Pub. Utilities.	19	6	7	59	6	31	121	84	64	23	15	6	1	0	14	291
Wholesale & Retail Trade.....	32	15	6	113	24	56	142	92	90	38	21	2	1	5	27	418
Finance, Ins. & Real Estate.....	0	0	0	0	0	0	2	2	0	0	0	0	0	0	1	3
Services.....	35	7	6	94	23	36	165	120	108	54	18	12	0	4	17	441
Government.....	63	30	5	108	26	49	178	125	141	59	24	11	6	0	27	539
TOTAL.....	402	189	52	1,748	337	918	1,880	1,249	1,431	539	395	78	41	23	157	5,812

1970																
Agric., Forestry & Fisheries....	1	0	1	7	0	4	14	7	8	3	3	1	0	0	4	36
Mining.....	4	1	0	12	4	6	10	6	12	7	4	0	0	0	2	40
Contract Construction.....	25	11	4	54	12	21	108	68	112	45	27	18	9	0	41	371
Manufacturing.....	346	162	35	1,933	322	1,011	1,646	1,094	1,199	424	354	78	33	4	151	5,425
Transp., Comm. & Pub. Utilities.	32	6	4	70	19	27	173	113	125	57	32	25	1	1	19	450
Wholesale & Retail Trade.....	36	10	4	167	37	76	218	145	123	48	30	18	3	0	34	603
Finance, Ins. & Real Estate.....	2	0	0	1	1	0	2	1	2	2	0	0	0	0	2	9
Services.....	35	13	9	99	30	41	178	118	105	43	17	19	3	0	25	473
Government.....	93	40	14	188	38	96	356	228	234	88	55	21	12	1	38	957
TOTAL.....	574	243	71	2,531	463	1,282	2,705	1,780	1,920	717	522	180	61	6	316	8,364

Table 3
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION AND AGENCY ASSOCIATED WITH INJURY
1969 - 1970
1969

Industry Division	Bodily motion Boxes, barrels & other containers								Metal items Particles (unidentified)							Working surfaces		Other	Total
			Chemicals	Hand tools- not powered	Hand tools- powered	Hoisting apparatus	Ladders	Machines			Vehicles	Wood items							
Agric., Forestry & Fisheries....	0	3	0	1	0	0	1	3	1	0	2	0	5	7	23				
Mining.....	0	1	0	1	1	0	1	0	3	1	10	0	6	12	36				
Contract Construction.....	3	13	9	22	14	8	20	10	39	2	48	23	81	61	353				
Manufacturing.....	71	377	56	320	97	132	49	484	448	60	290	95	587	642	3,708				
Transp., Comm. & Pub. Utilities.	8	33	5	6	3	8	10	18	14	4	52	16	69	45	291				
Wholesale & Retail Trade.....	13	67	7	23	14	6	4	22	24	8	73	13	68	76	418				
Finance, Ins. & Real Estate.....	0	0	0	0	0	0	0	0	0	0	1	0	2	0	3				
Services.....	17	30	5	14	10	6	10	11	20	2	43	6	145	122	441				
Government.....	20	39	7	27	31	8	4	18	33	4	111	30	113	94	539				
TOTAL.....	132	563	89	414	170	168	99	566	582	81	630	183	1,076	1,059	5,812				

1970

Agric., Forestry & Fisheries....	0	3	1	1	0	0	1	2	2	0	4	2	11	9	36
Mining.....	1	0	0	1	3	1	0	3	4	1	13	0	5	8	40
Contract Construction.....	8	10	6	9	11	16	22	17	40	1	40	24	89	78	371
Manufacturing.....	161	495	76	451	136	136	64	613	652	82	358	147	890	1,164	5,425
Transp., Comm. & Pub. Utilities.	15	28	3	7	6	8	14	18	35	0	90	24	120	82	450
Wholesale & Retail Trade.....	17	82	7	38	9	12	19	33	34	3	70	14	120	145	603
Finance, Ins. & Real Estate.....	0	0	0	0	0	0	1	0	0	0	4	0	2	2	9
Services.....	10	31	6	11	4	2	14	26	17	3	31	11	139	168	473
Government.....	23	59	21	62	22	9	14	47	71	11	148	46	211	213	957
TOTAL.....	235	708	120	580	191	184	149	759	855	101	758	268	1,587	1,869	8,364

Table 4
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION AND KIND OF ACCIDENT
1969 - 1970

Industry Division	1969														
	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....	2	4	1	7	4	1	0	4	0	0	0	0	0	0	23
Mining.....	1	11	6	3	4	1	1	1	1	3	1	0	3	0	36
Contract Construction.....	36	90	69	33	26	8	8	37	3	20	4	0	10	9	353
Manufacturing.....	480	815	188	403	477	106	139	804	20	116	77	0	29	54	3,708
Transp., Comm. & Pub. Utilities.	22	48	43	42	27	7	7	56	3	4	3	0	22	7	291
Wholesale & Retail Trade.....	54	82	24	47	41	7	15	93	1	16	8	0	15	15	418
Finance, Ins. & Real Estate.....	0	0	0	2	0	0	0	0	0	0	0	0	1	0	3
Services.....	32	67	34	100	31	7	21	98	1	9	6	0	18	17	441
Government.....	51	118	36	69	31	24	43	98	1	11	18	0	32	7	539
TOTAL.....	678	1,235	401	706	641	161	234	1,191	30	179	117	0	130	109	5,812

1970															
Agric., Forestry & Fisheries....	1	4	5	4	4	2	3	8	0	0	1	0	2	2	36
Mining.....	3	10	4	2	7	1	2	3	0	1	2	0	4	1	40
Contract Construction.....	28	79	90	18	35	8	18	47	6	12	7	0	12	11	371
Manufacturing.....	619	1,171	262	443	658	244	389	1,183	17	192	79	1	51	116	5,425
Transp., Comm. & Pub. Utilities.	21	78	69	44	28	2	42	95	7	15	2	0	36	11	450
Wholesale & Retail Trade.....	44	117	49	71	58	14	38	150	0	23	8	0	12	19	603
Finance, Ins. & Real Estate.....	0	2	1	2	0	0	0	0	0	0	0	0	3	1	9
Services.....	41	85	41	95	27	8	18	117	1	12	6	0	4	18	473
Government.....	93	220	77	102	61	44	68	192	3	22	20	1	37	17	957
TOTAL.....	850	1,766	598	781	878	323	578	1,795	34	277	125	2	161	196	8,364

Table 5
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION AND TIME OF DAY
1969 - 1970

1969

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....	0	0	4	2	2	0	1	1	1	0	0	0	12	23
Mining.....	3	7	2	6	1	0	1	4	2	4	2	1	3	36
Contract Construction.....	7	14	23	38	43	10	26	33	44	30	11	12	62	353
Manufacturing.....	160	210	238	295	230	108	218	254	220	150	90	366	1,169	3,708
Transp., Comm. & Pub. Utilities.	10	19	29	34	32	10	16	19	29	13	10	35	35	291
Wholesale & Retail Trade.....	9	28	31	39	30	8	27	31	33	33	18	38	93	418
Finance, Ins. & Real Estate.....	0	0	0	0	1	0	1	1	0	0	0	0	0	3
Services.....	11	37	21	42	35	13	24	27	19	26	16	47	123	441
Government.....	15	28	44	74	58	14	48	66	54	39	9	39	51	539
TOTAL.....	215	343	392	530	432	163	362	436	402	295	156	538	1,548	5,812

1970

Agric., Forestry & Fisheries....	1	0	3	5	5	0	0	2	4	2	0	2	12	36
Mining.....	1	4	8	4	5	0	0	1	1	7	1	3	5	40
Contract Construction.....	7	24	31	51	39	8	33	37	37	18	5	17	64	371
Manufacturing.....	218	277	295	384	323	135	278	309	293	199	138	819	1,757	5,425
Transp., Comm. & Pub. Utilities.	13	29	40	47	44	12	29	54	38	14	11	84	35	450
Wholesale & Retail Trade.....	14	29	52	72	44	16	32	43	42	45	18	61	135	603
Finance, Ins. & Real Estate.....	0	1	0	0	1	0	0	2	4	1	0	0	0	9
Services.....	27	29	32	42	29	17	23	36	37	22	13	99	67	473
Government.....	27	50	88	115	82	30	69	99	99	36	17	65	180	957
TOTAL.....	308	443	549	720	572	218	464	583	555	344	203	1150	2,255	8,364

Table 6
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION AND MONTH
1969 - 1970

1969

Industry Division	January	February	March	April	May	June	July	August	September	October	November	December	Total
Agric., Forestry & Fisheries....	0	0	2	2	0	2	1	1	4	2	8	1	23
Mining.....	0	0	0	1	2	9	3	5	6	4	4	2	36
Contract Construction.....	12	12	5	16	22	42	51	44	44	30	46	29	353
Manufacturing.....	37	32	39	76	291	440	503	481	498	519	407	385	3,708
Transp., Comm. & Pub. Utilities.	5	7	10	12	23	39	41	37	29	35	24	29	291
Wholesale & Retail Trade.....	19	13	20	21	30	51	50	40	50	41	43	40	418
Finance, Ins. & Real Estate.....	1	0	1	0	1	0	0	0	0	0	0	0	3
Services.....	11	23	24	23	32	30	49	51	57	53	45	43	441
Government.....	5	2	7	2	44	81	69	63	76	70	41	79	539
TOTAL.....	90*	89*	108*	153*	445*	694	767	722	764	754	618	608	5,812

1970

Agric., Forestry & Fisheries....	0	4	3	3	6	2	2	3	5	2	3	3	36
Mining.....	1	1	3	5	5	3	2	7	5	3	2	3	40
Contract Construction.....	21	21	24	21	29	46	46	38	35	30	26	34	371
Manufacturing.....	462	472	456	466	452	432	433	506	435	518	412	381	5,425
Transp., Comm. & Pub. Utilities.	40	33	42	44	20	33	44	53	34	36	33	38	450
Wholesale & Retail Trade.....	59	40	67	63	50	47	57	41	47	43	42	47	603
Finance, Ins. & Real Estate.....	2	1	0	0	1	1	1	0	0	1	1	1	9
Services.....	43	38	42	40	27	38	39	37	43	56	35	35	473
Government.....	73	67	70	94	66	94	98	82	78	91	82	62	957
TOTAL.....	701	677	707	736	656	696	722	767	682	780	636	604	8,364

* Underreported (See narrative for explanation).

Table 7
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION, AGE AND SEX
1969 - 1970

1969

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....	0	1	1	7	6	4	2	21	0	0	0	1	0	0	1	2	23
Mining.....	3	7	4	5	7	6	4	36	0	0	0	0	0	0	0	0	36
Contract Construction.....	38	95	54	64	44	15	42	352	0	1	0	0	0	0	0	1	353
Manufacturing.....	291	931	673	564	457	153	119	3,188	24	177	102	141	98	22	16	520	3,708
Transp., Comm. & Pub. Utilities.	12	70	59	69	47	11	13	281	3	2	0	4	0	1	0	10	291
Wholesale & Retail Trade.....	43	96	60	53	45	30	22	349	3	7	7	21	21	4	6	69	418
Finance, Ins. & Real Estate.....	0	1	1	0	1	0	0	3	0	0	0	0	0	0	0	0	3
Services.....	14	70	33	31	38	31	19	236	11	43	22	33	50	33	13	205	441
Government.....	24	135	85	104	106	49	14	517	1	3	3	6	5	3	1	22	539
TOTAL.....	425	1,406	970	897	751	299	235	4,983	42	173	134	206	174	63	37	829	5,812

1970

Agric., Forestry & Fisheries....	4	6	1	8	5	4	5	33	1	0	1	1	0	0	0	3	36
Mining.....	1	11	8	5	8	5	2	40	0	0	0	0	0	0	0	0	40
Contract Construction.....	18	110	71	64	39	20	48	370	0	0	0	1	0	0	0	1	371
Manufacturing.....	329	1,387	941	862	726	238	157	4,640	29	163	135	229	169	35	25	785	5,425
Transp., Comm. & Pub. Utilities.	12	94	100	113	80	26	13	438	1	2	2	1	5	1	0	12	450
Wholesale & Retail Trade.....	41	113	95	85	80	32	33	479	10	18	13	28	39	13	3	124	603
Finance, Ins. & Real Estate.....	1	2	0	2	0	2	0	7	0	0	0	0	1	1	0	2	9
Services.....	27	54	31	26	39	34	6	217	12	53	34	45	68	34	10	256	473
Government.....	41	197	170	163	176	92	18	857	9	15	9	12	32	20	3	100	957
TOTAL.....	474	1,974	1,417	1,328	1,153	453	282	7,081	62	251	194	317	314	104	41	1,283	8,364

Table 8
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY INDUSTRY DIVISION, SEVERITY AND SEX
1969 - 1970

13

Industry Division	1969 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....	0	0	0	21	21	0	0	1	1	2	23
Mining.....	1	0	3	32	36	0	0	0	0	0	36
Contract Construction.....	26	0	6	320	352	0	0	0	1	1	353
Manufacturing.....	22	1	105	3,060	3,188	0	0	16	-504	520	3,708
Transp., Comm. & Pub. Utilities.	12	0	8	261	281	0	0	1	9	10	291
Wholesale & Retail Trade.....	13	0	13	323	349	0	0	0	69	69	418
Finance, Ins. & Real Estate.....	0	0	0	3	3	0	0	0	0	0	3
Services.....	4	0	6	226	236	0	0	2	203	205	441
Government.....	8	0	9	500	517	0	0	0	22	22	539
TOTAL.....	86	1	150	4,746	4,983	0	0	20	809	829	5,812

1970											
Agric., Forestry & Fisheries....	0	0	1	32	33	0	0	0	3	3	36
Mining.....	0	0	1	39	40	0	0	0	0	0	40
Contract Construction.....	38	0	8	324	370	0	0	0	1	1	371
Manufacturing.....	20	1	121	4,498	4,640	2	0	24	759	785	5,425
Transp., Comm. & Pub. Utilities.	13	0	6	419	438	0	0	1	11	12	450
Wholesale & Retail Trade.....	9	0	12	457	478	1	0	2	122	125	603
Finance, Ins. & Real Estate.....	2	0	0	5	7	0	0	0	2	2	9
Services.....	6	0	3	208	217	0	0	0	256	256	473
Government.....	14	0	14	829	857	0	0	1	99	100	957
TOTAL.....	102	1	166	6,811	7,080	3	0	28	1,253	1,284	8,364

Table 9

STATE OF IOWA
DISTRIBUTION OF REPORTED DISABLING INJURIES
ALL INDUSTRIES - BY NATURE OF INJURY
1969 - 1970

	1969		1970	
	Number	Percent	Number	Percent
Amputation.....	186	3.2%	202	2.4%
Burns-heat & chemical.....	263	4.5	310	3.7
Contagious or infectious disease.....	24	0.4	92	1.1
Contusion, crushing or bruise.....	862	14.8	1,189	14.2
Cut, laceration or puncture.....	975	16.8	1,439	17.2
Dermatitis.....	63	1.1	113	1.3
Dislocation.....	74	1.3	139	1.7
Electric shock, electrocution.....	16	0.3	14	0.2
Fracture.....	723	12.4	996	11.9
Hernia.....	122	2.1	215	2.6
Inflammation or irritation.....	54	0.9	57	0.7
Scratches or abrasions.....	154	2.6	225	2.7
Sprains or strains.....	1,863	32.1	2,663	31.8
Other.....	433	7.5	710	8.5
TOTAL.....	5,812	100.0%	8,364	100.0%

Table 10

STATE OF IOWA
DISTRIBUTION OF REPORTED DISABLING INJURIES
ALL INDUSTRIES - BY PART OF BODY AFFECTED
1969 - 1970

	1969		1970	
	Number	Percent	Number	Percent
Head.....	402	6.9%	574	6.9%
(Eyes).....	(189)	(3.3)	(243)	(2.9)
Neck.....	52	0.9	71	0.8
Upper extremities.....	1,748	30.1	2,531	30.3
(Arms).....	(337)	(5.8)	(463)	(5.5)
(Fingers).....	(918)	(15.8)	(1,282)	(15.3)
Trunk.....	1,880	32.4	2,705	32.3
(Back).....	(1,249)	(21.5)	(1,780)	(21.3)
Lower extremities.....	1,431	24.6	1,920	23.0
(Legs).....	(539)	(9.3)	(717)	(8.6)
(Feet).....	(395)	(6.8)	(522)	(6.2)
Multiple parts.....	78	1.3	180	2.2
Body system.....	41	0.7	61	0.7
Body parts, n.e.c. and unclassified.....	180	3.1	322	3.8
TOTAL.....	5,812	100.0%	8,364	100.0%

Table 11

STATE OF IOWA
DISTRIBUTION OF REPORTED DISABLING INJURIES
ALL INDUSTRIES - BY AGENCY ASSOCIATED WITH INJURY
1969 - 1970

	1969		1970	
	Number	Percent	Number	Percent
Bodily motion.....	132	2.3%	235	2.8%
Boxes, barrels & other containers.....	563	9.7	708	8.5
Chemicals.....	89	1.5	120	1.4
Hand tools-not powered.....	414	7.1	580	6.9
Hand tools-powered.....	170	2.9	191	2.3
Hoisting apparatus.....	168	2.9	184	2.2
Ladders.....	99	1.7	149	1.8
Machines.....	566	9.7	759	9.1
Metal items.....	582	10.0	855	10.2
Particles (unidentified).....	81	1.4	101	1.2
Vehicles.....	630	10.9	758	9.1
Wood items.....	183	3.2	268	3.2
Working surfaces.....	1,076	18.5	1,587	19.0
Other.....	1,059	18.2	1,869	22.3
TOTAL.....	5,812	100.0%	8,364	100.0%

Table 12

STATE OF IOWA
DISTRIBUTION OF REPORTED DISABLING INJURIES
ALL INDUSTRIES - BY KIND OF ACCIDENT
1969 - 1970

	1969		1970	
	Number	Percent	Number	Percent
Struck against.....	678	11.7%	850	10.2%
Struck by.....	1,235	21.3	1,766	21.1
Fall from elevation.....	401	6.9	598	7.1
Fall on same level.....	706	12.1	781	9.3
Caught in, under or between.....	641	11.0	878	10.5
Rubbed or abraded.....	161	2.8	323	3.9
Bodily reaction.....	234	4.0	578	6.9
Overexertion.....	1,191	20.5	1,795	21.5
Contact with electric current.....	30	0.5	34	0.4
Contact with temperature extremes.....	179	3.1	277	3.3
Contact with radiations, caustics, etc....	117	2.0	125	1.5
Public transportation accidents.....	0	0	2	0.1
Motor-vehicle accidents.....	130	2.2	161	1.9
Other.....	109	1.9	196	2.3
TOTAL.....	5,812	100.0%	8,364	100.0%

Table 13
STATE OF IOWA
DISTRIBUTION OF REPORTED DISABLING INJURIES
AND EMPLOYMENT - BY INDUSTRY DIVISION
1969 - 1970

1969

Industry Division	Employment ^{1/}		Injuries	
	Number	Percent	Number	Percent
Agric., Forestry & Fisheries ^{2/}	4,600	0.5%	23	0.4%
Mining.....	3,100	0.3	36	0.6
Contract Construction.....	40,900	4.7	353	6.1
Manufacturing.....	224,700	25.6	3,708	63.8
Transp., Comm. & Public Utilities.....	51,100	5.8	291	5.0
Wholesale & Retail Trade.....	204,900	23.3	418	7.2
Finance, Ins. & Real Estate.....	40,400	4.6	3	0.1
Services ^{3/}	137,600	15.7	441	7.5
Government.....	171,400	19.5	539	9.3
TOTAL.....	878,600	100.0%	5,812	100.0%

1970

Industry Division	Employment ^{1/}		Injuries	
	Number	Percent	Number	Percent
Agric., Forestry & Fisheries ^{2/}	4,500	0.5%	36	0.4%
Mining.....	3,000	0.3	40	0.5
Contract Construction.....	41,300	4.7	371	4.4
Manufacturing.....	214,300	24.3	5,425	64.9
Transp., Comm. & Public Utilities.....	50,500	5.7	450	5.4
Wholesale & Retail Trade.....	208,600	23.7	603	7.2
Finance, Ins. & Real Estate.....	41,200	4.7	9	0.1
Services ^{3/}	141,400	16.1	473	5.7
Government.....	176,000	20.0	957	11.4
TOTAL.....	880,600	100.0%	8,364	100.0%

1969 - 1970

Industry Division	Employment ^{1/}		Injuries	
	Number	Percent	Number	Percent
Agric., Forestry & Fisheries ^{2/}	4,550	0.5%	59	0.4%
Mining.....	3,050	0.3	76	0.5
Contract Construction.....	41,100	4.7	724	5.1
Manufacturing.....	219,500	25.0	9,133	64.4
Transp., Comm. & Public Utilities.....	50,800	5.8	741	5.2
Wholesale & Retail Trade.....	206,750	23.5	1,021	7.2
Finance, Ins. & Real Estate.....	40,800	4.6	12	0.1
Services ^{3/}	139,500	15.9	914	6.5
Government.....	173,700	19.7	1,496	10.6
TOTAL.....	879,600	100.0%	14,176	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 1970 benchmark. Detail may not add up to total due to rounding.

^{2/} Agricultural services (SIC 07). ^{3/} Except agricultural services.

Table 14
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES
BY COUNTY
1969 - 1970

COUNTY	1969	1970	COUNTY	1969	1970
Adair.....	7	21	Jefferson.....	48	73
Adams.....	0	1	Johnson.....	59	86
Allamakee.....	27	35	Jones.....	17	25
Appanoose.....	13	26	Keokuk.....	20	79
Audubon.....	10	17	Kossuth.....	21	18
Benton.....	26	38	Lee.....	171	203
Black Hawk.....	587	853	Linn.....	659	820
Boone.....	44	80	Louisa.....	7	14
Bremer.....	24	17	Lucas.....	27	32
Buchanan.....	31	56	Lyon.....	1	2
Buena Vista.....	48	64	Madison.....	4	4
Butler.....	0	6	Mahaska.....	34	25
Calhoun.....	8	9	Marion.....	15	17
Carroll.....	20	27	Marshall.....	193	313
Cass.....	15	17	Mills.....	30	46
Cedar.....	9	24	Mitchell.....	5	8
Cerro Gordo.....	147	210	Monona.....	3	7
Cherokee.....	39	48	Monroe.....	18	43
Chickasaw.....	7	38	Montgomery.....	11	9
Clarke.....	8	2	Muscatine.....	77	100
Clay.....	21	36	O'Brien.....	12	11
Clayton.....	13	21	Osceola.....	3	15
Clinton.....	98	126	Page.....	42	89
Crawford.....	22	24	Palo Alto.....	4	3
Dallas.....	31	76	Plymouth.....	11	3
Davis.....	1	6	Pocahontas.....	42	44
Decatur.....	2	2	Polk.....	888	1,233
Delaware.....	17	39	Pottawattamie.....	147	263
Des Moines.....	93	144	Poweshiek.....	24	25
Dickinson.....	23	31	Ringgold.....	1	4
Dubuque.....	260	414	Sac.....	17	16
Emmet.....	38	44	Scott.....	165	199
Fayette.....	21	32	Shelby.....	13	25
Floyd.....	45	60	Sioux.....	24	19
Franklin.....	18	21	Story.....	323	517
Fremont.....	9	11	Tama.....	7	6
Greene.....	14	17	Taylor.....	2	4
Grundy.....	13	15	Union.....	10	23
Guthrie.....	5	6	Van Buren.....	6	3
Hamilton.....	11	36	Wapello.....	120	208
Hancock.....	3	1	Warren.....	22	23
Hardin.....	57	89	Washington.....	18	30
Harrison.....	20	15	Wayne.....	3	4
Henry.....	16	53	Webster.....	122	162
Howard.....	3	5	Winnebago.....	68	31
Humboldt.....	7	15	Winneshiek.....	22	23
Ida.....	11	12	Woodbury.....	228	322
Iowa.....	32	68	Worth.....	1	1
Jackson.....	26	44	Wright.....	8	10
Jasper.....	39	69	Unlisted.....	0	3
			TOTAL.....	5,812	8,364

NOTES

Work injuries are classified according to the Standard Method of Recording and Measuring Work Injury Experience, approved by the United States of America Standards Institute, now the American National Standards Institute, in 1967.

The injuries shown in the tables include all classes of disabling work injuries reported to the Bureau of Labor. A work injury is one which arises out of and in the course of a person's employment. A disabling work injury is a work injury which results in death, permanent impairment, or temporary-total disability. The term "injury" includes occupational diseases.

Industry classification conforms to the definitions of the Standard Industrial Classification Manual, 1967 Edition, prepared by the Office of Statistical Standards of the U. S. Bureau of the Budget.

All classes of employees (production, operating, and related workers; construction workers; sales, service, delivery, technical, professional, office, administrative, clerical and all other personnel) are included in the injuries totals. Self-employed persons, however, are not included.

Government totals shown include injuries for state and local government workers only. Federal employees are excluded.

SECTION B

WORK RELATED DEATHS

WORK RELATED DEATHS

There were 191 work related deaths reported to the Bureau of Labor as having occurred during the 1969-1970 biennium. Of these, 86 happened in 1969 and 105 in 1970. On the average, 1 out of every 10,000 workers in Iowa was killed while on the job. Most of those killed were men. However, there were 3 fatal injuries sustained by women in 1970: two in manufacturing and 1 in trade.

The average age of the persons suffering fatal work injuries in 1969 was just over 38 years. The youngest worker killed in 1969 was 16 years old and the oldest was 81 years of age. In 1970, the average age of the fatal cases was 39½, with the ages of the deceased ranging from 15 to 84.

One out of every 3 deaths reported during the biennium occurred in the contract construction industries. There were 26 construction deaths in 1969 and 38 in 1970. Manufacturing deaths accounted for 23 percent of the total with 22 fatalities having been reported each year.

During the biennium, 11.5 percent of the total number of fatalities were sustained by government employees. Twenty-two state and local government workers died while on the job in 1969 and 1970. Of these, 10 were State employees, 6 were employed by cities or towns, 5 were county workers and 1 was a school district employee. These unfortunate statistics indicate that government employment is not as devoid of hazards as it is generally thought to be. Motor vehicle accidents, being struck by an object and heart attacks suffered while on the job were the most prevalent causes of the fatalities suffered by government employees. Highway and road maintenance workers accounted for the greater part of the total number of work related deaths in 1969 and 1970.

Motor-vehicle accidents were the cause of over 18 percent of the deaths in 1969 and 1970. Falls from high places caused a total of 31, or just over 16 percent, of the fatal injuries during the biennium. However, of the 31 fatal falls, 25 occurred in 1970 compared to only 6 in 1969. The next most common cause of on-the-job deaths was crushing of the individual. This was closely followed by electrocutions. Fatal heart attacks while on the job were suffered by 12 persons during the biennium.

All work related deaths were investigated by the Bureau of Labor's Field Safety Technicians. Job-site inspections were conducted and recommendations made, or charges filed, as the circumstances warranted. A review of the reports of the Iowa Highway Patrol, Department of Public Safety, was made whenever accidents occurred on the public highways and an inspector from the Bureau of Labor was unable to reach the site before the area was cleared.

The following tables and descriptions of the work related deaths that occurred in Iowa emphasize a need for greater safety consciousness among Iowa's employers and workers. It is intended that an awareness of the problems be a guide toward preventing needless fatalities in the future.

Table 1
STATE OF IOWA
WORK RELATED DEATHS
BY INDUSTRY DIVISION
1969 - 1970

Industry Division	1969		1970		Total 1969 - 1970	
	Num- ber	Per- cent	Num- ber	Per- cent	Num- ber	Per- cent
Mining.....	1	1.2%	0	- %	1	0.5%
Contract Construction.....	26	30.2	38	36.2	64	33.5
Manufacturing.....	22	25.6	22	20.9	44	23.0
Transp., Comm. & Pub. Utilities....	12	13.9	13	12.4	25	13.1
Wholesale & Retail Trade.....	13	15.1	10	9.5	23	12.1
Finance, Ins. & Real Estate.....	0	-	2	1.9	2	1.0
Services.....	4	4.7	6	5.7	10	5.3
Government.....	8	9.3	14	13.4	22	11.5
TOTAL.....	86	100.0%	105	100.0%	191	100.0%

Table 2
STATE OF IOWA
WORK RELATED DEATHS
BY CAUSE
1969 - 1970

Cause	1969	1970	Total 1969 - 1970
Motor-vehicle accident.....	18	17	35
Fall from elevation.....	6	25	31
Crushing.....	11	16	27
Electrocution.....	11	11	22
Struck by object.....	9	10	19
Suffocation.....	5	8	13
Heart attack.....	4	8	12
Caught in, under or between...	5	3	8
Explosion.....	6	2	8
Burns.....	2	2	4
Poisoning.....	3	1	4
Other.....	6 ^{1/}	2 ^{2/}	8
TOTAL.....	86	105	191

- ^{1/} Drowning, 2; Stabbing, 1; Plane crash (private), 1; and unknown, 2.
^{2/} Strangulation, 1; and fall on same level, 1.

Table 3

STATE OF IOWA
WORK RELATED DEATHS
BY INDUSTRY
1969

Industry	Number of Deaths	Deaths per 10,000 Employees	Rank ^{1/}
Heavy construction contractors.....	11	12.36	2
Food & kindred products.....	10	1.84	14
General building contractors.....	8	5.71	5
Special trade contractors.....	7	3.89	9
State government.....	6	1.50	16
Trucking & warehousing.....	5	3.40	12
Wholesale trade.....	5	1.14	17
Stone, clay & glass products.....	4	6.06	4
Electric, gas & sanitary services.....	4	4.21	8
Primary metal industries.....	3	3.41	11
Furniture & home furnishings stores.....	3	4.84	6
Agricultural services.....	3	6.52	3
Chemicals & allied products.....	2	2.74	13
Railroad transportation.....	2	1.80	15
Automotive dealers & service stations.....	2	.77	19
Local government.....	2	.18	25
Mining & quarrying of nonmetallic minerals.....	1	3.57	10
Printing & publishing.....	1	.74	20
Machinery, except electrical.....	1	.22	24
Instruments & related products.....	1	4.35	7
Transportation by air.....	1	14.29	1
Building materials & farm equipment dealers.....	1	.67	21
Food stores.....	1	.43	23
Miscellaneous retail stores.....	1	.49	22
Hotels & other lodging places.....	1	1.04	18
TOTAL - All Industries.....	86	.98	-

^{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.

Table 4

STATE OF IOWA
WORK RELATED DEATHS
BY INDUSTRY
1970

Industry	Number of Deaths	Deaths per 10,000 Employees	Rank ^{1/}
General building contractors.....	15	11.03	3
Heavy construction contractors.....	13	14.29	2
Food & kindred products.....	12	2.19	12
Special trade contractors.....	10	5.35	5
Local government.....	10	.88	20
Trucking & warehousing.....	5	3.42	8
Railroad transportation.....	4	3.96	7
Agricultural services.....	4	8.89	4
State government.....	4	.97	19
Machinery, except electrical.....	3	.67	24
Electric, gas & sanitary services.....	3	3.16	9
Wholesale trade.....	3	.69	23
Building materials & farm equipment dealers.....	3	1.97	13
Miscellaneous manufacturing industries.....	2	4.00	6
Automotive dealers & service stations.....	2	.76	22
Eating & drinking places.....	2	.54	25
Banking.....	2	1.53	15
Apparel & other textile products.....	1	2.44	11
Chemicals & allied products.....	1	1.39	16
Petroleum & coal products.....	1	50.00	1
Rubber & plastics products, n.e.c.....	1	1.32	17
Stone, clay & glass products.....	1	1.54	14
Communications.....	1	.80	21
Miscellaneous business services.....	1	.98	18
Auto repair, services & garages.....	1	2.78	10
TOTAL - All industries.....	105	1.19	-

^{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.

STATE OF IOWA
WORK RELATED DEATHS
1969

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
1.	1- 1-69	Railroad Transportation	Brakeman	52	Heart attack
2.	1- 1-69	Railroad Transportation	Engineer	53	Crushed
Victim No. 1 suffered a heart attack. When victim No. 2 went to his aid, No. 2 missed the Senitor stop signal and their train struck the rear of another train that had stopped on the main line.					
3.	1- 7-69	Stone, Clay & Glass Prod.	Truck driver	28	Struck by
Driving endloader, victim either fell or accidentally shifted gears and was thrown from loader and was run over by wheels.					
4.	1-14-69	General Building Contr.	Pipefitter	45	Burns
Spilled flammable liquid (hydrocarbons) flashed. Liquid was blown under welder, causing ignition and explosion under scaffold where victim was working.					
5.	1-16-69	Food & Kindred Products	Laborer	50	Caught in
After batch mixer started, victim reached in and his hand was caught by the blades of the agitator, drawing him into the mixer. Died of massive bleeding and shock.					
6.	1-16-69	Gasoline Service Station	Operator	74	Crushed
Victim had jacked car with an ordinary jack, but did not use bottom plate that provided base for the jack. Was crushed when car slipped off jack.					
7.	2- 1-69	Food & Kindred Products	Equip. oper.	40	Caught between
Loading elevator when front wheels of fork-lift went on elevator, over-loading it. Elevator slid down, pinning victim between seat of the fork-lift and the top of the elevator. Death caused by aspiration of stomach contents.					
8.	2- 6-69	Retail Food Store	Carry-out	18	Crushed
Victim was crushed when canopy collapsed due to weight of snow and fell on him.					
9.	2-10-69	State Government	Foreman	63	Heart attack
Had heart attack while driving pickup truck and drove it into snow bank at the side of the road.					

STATE OF IOWA
WORK RELATED DEATHS
1969 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
10.	2-10-69	Stone, Clay & Glass Prod.	Supervisor	31	Suffocation
Entered bin without use of required safety harness and lifeline and without knowledge of fellow workers. Rock collapsed and covered victim.					
11.	2-12-69	State Government	Foreman	42	Vehicle accident
Victim's truck was struck by a train.					
12.	2-13-69	County Government	Laborer	19	Burns
Diesel fuel being poured onto fire exploded in the container and threw oil and fire on victim.					
13.	2-18-69	Sanitary Services	Truck driver	41	Caught between
Victim was at rear of truck unlatching door when struck by caterpillar and pinned between caterpillar and truck. Died of broken neck.					
14.	2-19-69	Food & Kindred Products	Operator	43	Unknown
Victim was opening boxcar door when he became dizzy and collapsed.					
15.	2-24-69	Wholesale Trade	Truck driver	38	Vehicle accident
Head-on collision with another truck. Victim was pinned in truck.					
16.	2-25-69	Special Trade Contr.	Electrician	25	Electrocution
Power company shut off power and did not notify contractor that it was being turned on again. Victim was electrocuted while working in transformers and insulators.					
17.	2-27-69	Food & Kindred Products	Laborer	36	Poisoning
Victim had history of lung trouble. Worked 1½ hours and collapsed. Death due to lung irritation caused by toxic gases.					
18.	3- 4-69	Public Utilities	Lineman	30	Electrocution
Removing 4000 volt line from top of pole. Line was to be cut from power side of pole. Foreman sent employee to cut wire at next pole to de-energize line. Before employee had time to cut line, victim came in contact with live wire and was electrocuted.					
19.	3- 8-69	Truck Transportation	Driver	44	Caught between
Victim was backing new car from auto transport, looking to rear with head out window. Track on which cars move came loose and dropped on driver's side, pinning victim's head between top of car and frame of transport.					

STATE OF IOWA
WORK RELATED DEATHS
1969 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
20.	3-10-69	Retail Farm Equipment	Laborer	57	Struck by Unloading machinery from semi-truck when disc frames fell on victim, crushing his head and leg.
21.	3-18-69	State Government	Supervisor	42	Poisoning Overcome by carbon monoxide while cleaning head and tail lights in closed garage at home while on way to work.
22.	3-22-69	Stone, Clay & Glass Prod.	Truck driver	42	Drowned Slipped and fell into cold, icy water. Wasn't wearing life jacket.
23.	4- 3-69	Primary Metal Industries	Laborer	66	Electrocution Picked up electrical cord running to fan while leaning against crane and came into contact with electricity.
24.	4- 7-69	Printing & Publishing	Mechanic	43	Crushed Victim was changing hydraulic cylinder on fork lift. Mass of unit was extended upward so that carrier assembly was in a position 12 feet above the floor. Unit fell and crushed victim who was working below.
25.	4- 8-69	Truck Transportation	Driver	61	Vehicle collision Involved in three truck collision.
26.	4-10-69	Stone, Clay & Glass Prod.	Truck driver	33	Electrocution Truck mounted boom victim was operating came in contact with high power line, electrocuting victim.
27.	4-11-69	State Government	Guard	47	Stabbed Officer was fatally stabbed by an inmate.
28.	4-15-69	Special Trade Contr.	Laborer	55	Heart attack Carrying cutting torch and lines, victim stooped and fainted.
29.	4-17-69	State Government	Professor	40	Vehicle accident Car missed curve on rainy highway.
30.	4-25-69	Primary Metal Industries	Foreman	54	Heart attack Suffered heart attack.

STATE OF IOWA
WORK RELATED DEATHS
1969 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
31.	4-28-69	Public Utilities	NR	17	Electrocution
Victim was attempting to install TV antenna attached to a native hackberry pole near a 69 KV power line.					
32.	5- 2-69	General Building Contr.	Laborer	45	Crushed
Victim was helping to add section to boom; removed the wrong pins from boom which allowed boom to fall on him.					
33.	5- 2-69	Heavy Construction Contr.	Foreman	27	Vehicle accident
Victim lost control of pickup on curve.					
34.	5-20-69	Chemicals & Allied Prod.	Laborer	16	Suffocation
Victim was breaking fertilizer from sides of hopper car when he became trapped by sliding fertilizer and was pulled down into hopper and buried.					
35.	6- 2-69	Food & Kindred Products	Operator	27	Suffocation
Victim entered top of tank without safety harness to dig ingredients out and ingredients gave way, pulling him under.					
36.	6- 3-69	Agricultural Services	Sprayer	19	Crushed
Operating spray boom from seat on side of truck, when truck dropped over in ditch. Spray truck rolled over on victim.					
37.	6- 4-69	Instruments & Related Prod.	NR	65	Fall to different level
Victim was riding on back of truck, sitting with feet hanging over edge. Truck changed gears and victim fell out and struck head on pavement.					
38.	6-17-69	Retail Furniture	Service man	24	Vehicle accident
Lost control of car on curve.					
39.	7- 9-69	Primary Metal Industries	Welder	37	Explosion
Victim was using steel barrel as work stand to cut steel with torch, when the barrel exploded. Barrel did not have one end open.					
40.	7- 9-69	Wholesale Trade	Owner	52	Vehicle accident
Lost control of truck and was pinned under it.					
41.	7-10-69	Food & Kindred Products	NR	17	Suffocation
Unloading grain storage bin, fell into bin from ladder and was buried.					

NR Not reported.

STATE OF IOWA
WORK RELATED DEATHS
1969 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
42.	7-15-69	General Building Contr.	Laborer	20	Fall to different level A-frame pulled over edge of building. Victim was on frame and fell.
43.	7-17-69	Special Trade Contr.	Tender	42	Electrocution Was moving portable light on wet basement floor when lamp shorted out, electrocuting victim.
44.	7-19-69	General Building Contr.	Laborer	18	Poisoning Fell asleep in car and died of carbon monoxide poisoning.
45.	7-23-69	Heavy Construction Contr.	Laborer	17	Struck by Bank caved off, pinning victim on pipe.
46.	7-28-69	Heavy Construction Contr.	Laborer	19	Struck by Boom on anchor barge fell, striking victim on the head.
47.	8- 1-69	Food & Kindred Products	Laborer	26	Vehicle accident Motor vehicle accident.
48.	8- 4-69	Truck Transportation	Driver	27	Vehicle accident Truck accident due to brake failure.
49.	8-10-69	Public Utilities	Foreman	42	Electrocution Victim was working from insulated bucket when he made contact between 220 volt secondary and 2400 volt primary.
50.	8-27-69	Heavy Construction Contr.	Laborer	17	Electrocution Victim was operating concrete bucket attached to crane. High voltage arced to the crane, electrocuting victim.
51.	8-28-69	Wholesale Trade	Dispatcher	39	Explosion Painting inside of trailer used to transport liquid fertilizer. Victim stopped to light his pipe and tank exploded, causing fire.
52.	9- 2-69	Chemicals & Allied Prod.	Operator	24	Explosion Victim was standing in front of hopper when material just dumped into hopper exploded and caught fire.
53.	9- 3-69	Heavy Construction Contr.	Operator	63	Crushed Drove motor grader over embankment and machine upset on him.

STATE OF IOWA
WORK RELATED DEATHS
1969 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
54.	9- 8-69	Wholesale Trade	Agent	28	Vehicle accident
Car victim was driving veered off "S" curve and hit a tree.					
55.	9-10-69	Machinery, Exc. Electrical Welder		42	Explosion
Victim turned wrong valve on welder, allowing unattached hose to fill metal cabinet with oxygen and acetylene. Lit his torch and ignited gas filled cabinet which exploded. Steel door of cabinet struck victim on the head.					
56.	9-11-69	Food & Kindred Products	Laborer	25	Fall to different level
Victim jumped from 24" duct to roof. Went through roof, 30 feet to concrete floor below.					
57.	9-12-69	Special Trade Contr.	Laborer	49	Fall to different level
Tearing roofing off, threw material through hole in flat section of roof, proceeded to flat section, and fell through hole which was covered by material. Fell to ground, 35 feet below.					
58.	9-13-69	General Building Contr.	Welder	49	Vehicle accident
Was driving company pickup when it went off a curve and overturned.					
59.	9-13-69	Heavy Construction Contr.	Operator	19	Crushed
Victim was operating motor scraper which overturned and crushed him.					
60.	9-15-69	Truck Transportation	Driver	45	Vehicle accident
Truck's right front tire blew and truck struck culvert, crushing cab.					
61.	9-15-69	Special Trade Contr.	Painter	81	Fall to different level
Was painting gable on end of house when victim slipped and fell 12 feet.					
62.	9-17-69	Heavy Construction Contr.	Laborer	29	Vehicle accident
Pickup truck victim was driving was struck by another truck.					
63.	9-22-69	Retail Furniture	Salesman	NR	Vehicle accident
64.	9-22-69	Retail Furniture	Salesman	NR	Vehicle accident
Car went out of control, killing both victims.					
65.	9-23-69	Misc. Retail Trade	NR	NR	Unknown
No information available.					

NR Not reported.

STATE OF IOWA
WORK RELATED DEATHS
1969 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
66.	9-23-69	Agricultural Services	Laborer	28	Crushed
Victim was found pinned between bed and frame of 20 ton truck.					
67.	9-25-69	Food & Kindred Products	Foreman	49	Electrocution
Victim attempted to adjust position of prods on electric stunner without disconnecting power and was electrocuted when control button was pressed.					
68.	9-26-69	Truck Transportation	Driver	21	Vehicle accident
Victim's truck ran off highway and caught fire. Victim was pinned in cab and burned to death.					
69.	9-29-69	Local Government	Laborer	51	Caught under
Digging grave with back hoe tractor parked on an incline. Tractor started to roll, catching victim under the wheel and dragging him 30 feet.					
70.	10-12-69	Heavy Construction Contr.	Laborer	21	Struck by
Victim had his back to shouldering machine and was struck by it and crushed.					
71.	10-30-69	Wholesale Trade	Manager	47	Vehicle accident
Victim's car was struck by another car.					
72.	11- 6-69	Special Trade Contr.	NR	78	Crushed
Victim was owner of farm where accident happened. Had hired contractor to build levee. He was pinned between counter weight on drag line and tree trunk when he walked behind drag line. Died of a crushed chest.					
73.	11-11-69	General Building Contr.	Ironworker	54	Struck by
Foreman was signaling to lower lead line and swung boom when lead line broke swinging ball into victim, striking him in head and chest.					
74.	11-14-69	Gasoline Service Stations	Owner	45	Explosion
Victim was attempting to inflate tire he was changing. Bead would not pop out to edge of rim. Continued putting in air and tire exploded. Died 12-3-69.					
75.	11-15-69	General Building Contr.	Operator	53	Struck by
Victim started changing boom before job superintendent reported to job site. Removed all boom pins while working under boom and removed pendut lines. He was struck by falling boom.					

NR Not reported.

STATE OF IOWA
WORK RELATED DEATHS
1969 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
76.	11-17-69	General Building Contr.	Laborer	22	Fall to different level
Victim was placing cover over opening, when plank he was standing on broke and he fell 45 feet to cement below. He struck a beam on the way down.					
77.	11-17-69	State Government	Attendant	57	Vehicle accident
Victim lost control of his vehicle.					
78.	11-19-69	Heavy Construction Contr.	Welder	30	Suffocation
Was working in 15 foot deep ditch outside steel pilings that form one side of coffer dam when earth trembled. Victim disappeared under mud in cave-in.					
79.	11-22-69	Quarrying	Crusher	27	Crushed
Was operating tractor with blade, cleaning under impact breaker. Tractor backed up and victim was crushed between tractor and crusher frame.					
80.	11-25-69	Heavy Construction Contr.	Truck driver	25	Struck by
Victim was inflating tire when lock ring blew off, striking him and throwing him to ceiling of the building where he was working.					
81.	12- 2-69	Agricultural Services	Trimmer	19	Electrocution
Victim, working in aerial basket, came in contact with live power line.					
82.	12- 9-69	Heavy Construction Contr.	Laborer	25	Struck by
Victim was standing on culvert wing form when concrete bucket swung into position over form. Swivel-hook broke, dropping bucket on victim.					
83.	12-15-69	Air Transportation	Pilot	28	Plane crash
Victim died in plane crash.					
84.	12-17-69	Food & Kindred Products	Plant oper.	56	Explosion
Victim died in plant explosion.					
85.	12-22-69	Special Trade Contr.	Truck driver	45	Electrocution
Wire on reel became loose and came in contact with energized line. Feed back occurred, energizing cart the reel was on. Victim slipped and touched truck the reel cart was attached to which was energized through trailer tongue.					
86.	12-26-69	Hotels & Lodging Places	Bellman	17	Drowned
Victim requested to use swimming pool when it was closed to customers. Was found face down at the bottom of pool in 8 feet of water.					

STATE OF IOWA
WORK RELATED DEATHS
1970

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
1.	1- 2-70	Food & Kindred Products	Carloader	56	Struck by Railroad divider door fell, pinning victim to floor of boxcar.
2.	1- 8-70	Food & Kindred Products	Mill Supt.	28	Suffocation Victim was augering shelled corn. Was found buried in corn.
3.	1-13-70	Business Services	Laborer	39	Burns Victim was cleaning floor at packing plant with hot water hose operated at 250 PSI and 180°. Assumed victim lost control of hose.
4.	1-16-70	Agricultural Services	Truck Driver	52	Heart attack Victim shoveled truck out of snow and later suffered a heart attack.
5.	1-18-70	Local Government	Boiler Oper.	64	Struck by Victim was struck in head by front doors of boiler when it exploded.
6.	1-22-70	Wholesale Trade	Truck driver	35	Vehicle accident Victim died when his truck overturned on a slippery curve.
7.	2- 6-70	Food & Kindred Products	Truck driver	19	Vehicle accident Victim was crushed when a sheared light pole fell on the cab of his truck.
8.	2- 6-70	Local Government	Fireman	41	Vehicle accident Two firetrucks collided en route to a fire, killing victim.
9.	2-16-70	General Building Contr.	Welder	24	Electrocution Crane the deceased was touching came into contact with power line.
10.	2-17-70	Auto Services & Garages	Laborer	35	Crushed Jack slipped and car the victim was working on fell. Frame of the car crushed his chest.
11.	2-19-70	City Government	Snake handler	57	Heart attack Died of a heart attack after being bitten by a rattlesnake.
12.	2-20-70	Banking	Watchman	77	Fall to different level Fell 25 feet down an elevator shaft.

STATE OF IOWA
WORK RELATED DEATHS
1970 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
13.	2-25-70	Food & Kindred Products	Truck driver	23	Vehicle accident
His truck was struck broadside by a train.					
14.	2-26-70	Food & Kindred Products	Truck driver	22	Vehicle accident
His semi-trailer collided with a school bus.					
15.	3- 6-70	Machinery, Exc. Electrical Shop foreman	40	Explosion	
Tank trailer the victim was working on exploded.					
16.	3-12-70	Special Trades Contr.	Plumber	40	Suffocation
Laying a new sewer line, when a 10 foot deep ditch caved-in on victim.					
17.	3-13-70	Truck Transportation	Driver	53	Crushed
Loader tipped over on victim while he was attempting to load lime.					
18.	3-19-70	Truck Transportation	Driver	27	Vehicle accident
Vehicle collision.					
19.	3-23-70	Agricultural Services	Repairman	23	Vehicle accident
Car-truck accident.					
20.	3-24-70	State Government	Engineer Aid	31	Struck by
Was struck by a piece of concrete from a demolition blast.					
21.	4-10-70	Heavy Construction Contr.	Truck driver	27	Crushed
Victim was crushed when he stopped to avoid an accident and the heavy equipment he was hauling broke loose and shifted forward into the rear of the cab.					
22.	4-25-70	Railroad Transportation	Switchman	62	Crushed
Victim was crushed when he was pinned between two railroad cars.					
23.	4-27-70	Retail Auto Dealers	Salesman	61	Vehicle accident
Car driven by deceased pulled into path of train.					
24.	5- 1-70	Food & Kindred Products	Process Supt.	58	Suffocation
Trying to level meal when he stepped into an air pocket formed by a conveyor which moves the meal into an elevator.					

STATE OF IOWA
WORK RELATED DEATHS
1970 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
25.	5- 3-70	Railroad Transportation	Brakeman	NR	Fall to different level
Broke his neck when he fell 35 feet from a railroad trestle.					
26.	5-14-70	Public Utilities	Lineman	57	Heart attack
Suffered a heart attack while returning from repairing storm damage.					
27.	5-15-70	Petroleum Products	NR	40	Fall to different level
Standing on 18 foot tank car when lightning struck car, knocking him to the ground unconscious. Accident occurred May 10, 1970. Revived and appeared to be all right until next day when he became paralyzed. Death attributed to internal injuries.					
28.	5-15-70	General Building Contr.	Crane oper.	38	Explosion
Attempting to weld or cut barrel with arc welder and contents ignited resulting in explosion and fire.					
29.	5-21-70	Food & Kindred Products	NR	48	Caught in
Was inside mixer repairing it when mixer was turned on by another employee who hit the wrong switch. Died of massive internal hemorrhage.					
30.	5-25-70	General Building Contr.	Owner	59	Suffocation
31.	5-25-70	General Building Contr.	Laborer	49	Suffocation
Digging ditch for new sewer line. Victim No. 2 working in ditch when damp earth collapsed, partially burying him. When Victim No. 1 and another employee went into ditch to rescue Victim No. 2, another cave-in occurred. Both victims were completely buried and the other employee was buried to his chest.					
32.	6- 1-70	Trucking & Warehousing	Laborer	19	Caught under
Four story building in which victim was working collapsed.					
33.	6- 2-70	Special Trades Contr.	Painter	25	Fall to different level
Plank fell from one section of scaffold, dropping victim 22 feet to concrete floor below.					
34.	6- 2-70	Agricultural Services	Trimmer	38	Fall to different level
Fell 30 feet as a tree branch he was on snapped under his weight.					

NR Not reported.

STATE OF IOWA
WORK RELATED DEATHS
1970 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
35.	6- 7-70	Special Trades Contr.	Laborer	62	Fall to different level
Was struck by the ball on a crane and knocked off a 20 foot high beam.					
36.	6- 9-70	General Building Contr.	Worker	44	Struck by
Pulling plank from underneath pugmill, plank broke and struck victim in the chest.					
37.	6-15-70	General Building Contr.	Drill Oper.	20	Electrocution
Working in damp location erecting a steel storage bin when electric current contacted metal equipment being used.					
38.	6-16-70	Special Trades Contr.	Lineman	28	Electrocution
Working on hot line with rubber gloves. Wrench slipped on a nut and he touched some part on line above gloves. Contacted 7200 volts.					
39.	6-19-70	Special Trades Contr.	Plumber	36	Fall to different level
Fell 12 feet striking head on concrete sidewalk.					
40.	6-19-70	Special Trades Contr.	Helper	27	Electrocution
Touched the side of a metal trailer which was connected to a faulty generator.					
41.	6-19-70	Heavy Construction Contr.	Laborer	18	Fall to different level
42.	6-19-70	Heavy Construction Contr.	Welder	42	Fall to different level
43.	6-19-70	Heavy Construction Contr.	Millwright	23	Fall to different level
44.	6-19-70	Heavy Construction Contr.	Foreman	27	Fall to different level
45.	6-19-70	Heavy Construction Contr.	Laborer	49	Fall to different level
46.	6-19-70	Heavy Construction Contr.	Laborer	26	Fall to different level
47.	6-19-70	Heavy Construction Contr.	Laborer	18	Fall to different level
Victims fell 130 feet onto concrete floor when the roof of a concrete elevator being constructed collapsed.					
48.	6-24-70	Truck Transportation	Driver	39	Vehicle accident
Lost control of his tractor-trailer unit and struck a guard rail.					
49.	6-26-70	General Building Contr.	Equip. oper.	31	Crushed
Making turn on bumpy road when the front-end loader he was driving upset and pinned him underneath.					

STATE OF IOWA
WORK RELATED DEATHS
1970 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
50.	6-30-70	Public Utilities	Lineman	25	Fall to different level
Victim came in contact with high voltage wire which caused him to fall from a pole.					
51.	6-30-70	State Government	Towerman	47	Heart attack
Suffered fatal heart attack.					
52.	7- 1-70	Local Government	Maintenance	65	Fall to different level
Working on bridge when another truck collided with maintenance truck parked on bridge. Pinned between truck and bridge rail when the railing gave way and pitched the victim into creek bed.					
53.	7- 2-70	Food & Kindred Products	NR	20	Suffocation
Was swept into a vat of animal fluids along with a load of dead animals. Apparently suffocated under two or three tons on animal carcasses.					
54.	7- 9-70	General Building Contr.	NR	18	Electrocution
Was trying to place header board to keep ceiling from falling when he leaned across a conduit which had a short in it.					
55.	7-15-70	Public Utilities	Lineman	38	Electrocution
Came in contact with a hot wire while cleaning up after storm.					
56.	7-15-70	Local Government	NR	27	Electrocution
Working in aerial bucket to reconnect lines. Working on one wire of two-phase line, the other wire came in contact with metal parts of the bucket and current formed an arc across victim.					
57.	7-19-70	General Building Contr.	NR	17	Fall to different level
Standing on corner of rod nailing corner rod to next bin and slipped and fell to bottom of bin, about 60 feet. Accident occurred July 16.					
58.	7-16-70	Retail Farm Equipment	NR	31	Vehicle accident
Tractor accident, during storm clean up.					
59.	7-22-70	Local Government	Custodian	54	Crushed
Opening gate to let car out of landfill area. Car lurched forward, knocked victim down 20 foot embankment, and pinned him beneath it.					

NR Not Reported.

STATE OF IOWA
WORK RELATED DEATHS
1970 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
60.	7-24-70	Heavy Construction Contr.	Scraper oper.	19	Crushed
Scraper rolled over on victim, crushing him.					
61.	7-29-70	Special Trades Contr.	Saw oper.	42	Crushed
Section of concrete wall he had sawed out fell on him.					
62.	8- 5-70	Wholesale Trade	Mechanic	19	Suffocation
Removing a jack from under a header from a combine, it fell in him.					
63.	8- 7-70	Agricultural Services	NR	20	Poisoning
Overcome by silage gas.					
64.	8-12-70	Misc. Manufacturers	Erector	30	Electrocution
Boom ladder or attached cable contacted 7200 volt line.					
65.	8-15-70	Food & Kindred Products	Production	40	Heart attack
Suffered heart attack.					
66.	8-17-70	Chemicals & Allied Prod.	Soil samples	15	Fall to different level
Jumped from back of slow moving pickup truck and struck head.					
67.	8-19-70	Rubber & Plastics Prod.	Shipper	56	Fall to different level
Lost balance and fell from back of pickup truck, striking head.					
68.	8-19-70	Local Government	NR	67	Struck by
Mowing golf course, stopped to pick up golf ball on incline. Brakes on mower failed and it ran over victim.					
69.	8-26-70	Truck Transportation	Driver	36	Vehicle accident
Truck went off roadway and overturned.					
70.	8-26-70	Heavy Construction Contr.	Driver	51	Crushed
Pinned between two trucks as he attempted to hook up a tow cable.					
71.	8-29-70	Heavy Construction Contr.	Driver	52	Crushed
On August 12, 1970 victim was turning equipment around on an incline and equipment upset. Died August 29, 1970.					

NR Not reported.

STATE OF IOWA
WORK RELATED DEATHS
1970 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
72.	9- 4-70	County Government	Foreman	40	Electrocution
Leaning against crane. Boom came too close to power lines and electricity arced from lines to crane.					
73.	9- 4-70	Machinery, Exc. Electrical NR		31	Crushed
Tractor victim was driving went over edge of 20 foot embankment and overturned, pinning victim beneath it.					
74.	9- 8-70	Stone, Clay & Glass Prod. NR		26	Suffocation
Working at top of 6 foot high tunnel and fell into dry cement.					
75.	9-11-70	Heavy Construction Contr.	Foreman	33	Crushed
Working on side dump, under the bed. Removed hydraulic line causing the bed to drop on victim.					
76.	9-14-70	Heavy Construction Contr.	Driver	45	Heart attack
Was found lying on floor of ready-mix plant.					
77.	9-16-70	Railroad Transportation	NR	42	Crushed
Trying to move stalled boxcar. Was crushed between engine and boxcar.					
78.	9-23-70	General Building Contr.	Worker	33	Vehicle accident
Truck ran off highway.					
79.	9-25-70	Communications	Installer	45	Vehicle accident
Company vehicle struck another vehicle.					
80.	9-28-70	Special Trades Contr.	Helper	30	Electrocution
Came in contact with high voltage line.					
81.	9-30-70	Automotive Dealers	Salesman	28	Vehicle accident
Automobile accident.					
82.	9-30-70	Special Trades Contr.	Lineman	24	Electrocution
Boom on digger truck came in contact with energized circuit.					

NR Not reported.

STATE OF IOWA
WORK RELATED DEATHS
1970 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
83.	10- 1-70	Misc. Manufacturers	Foreman	36	Fall to different level Servicing sign from bucket on end of boom and boom collapsed.
84.	10- 1-70	Railroad Transportation	Maintenance	61	Struck by On July 17, 1970, victim was riding railroad maintenance car and was struck by freight train. Died of injuries on October 1, 1970.
85.	10- 3-70	State Government	Conservation	58	Heart attack Suffered a heart attack.
86.	10-14-70	State Government	Maintenance	49	Crushed 3/8 ton steel roller overturned on operator, crushing him.
87.	10-18-70	Food & Kindred Products	NR	22	Caught between Two men giving instructions on how to operate end loader of tractor. The tractor backed up pinning victim between truck box and tractor wheels.
88.	10-20-70	General Building Contr.	Iron worker	34	Fall to different level Precast panel fell onto scaffolding. Victim fell 18 feet backwards.
89.	10-27-70	Retail Hardware	President	76	Fall to different level Stepped into open elevator shaft and fell 15 feet.
90.	10-31-70	Eating & Drinking Places	Bartender	49	Struck by Struck by customer and died of blood clot.
91.	11- 9-70	General Building Contr.	Laborer	53	Heart attack Suffered a heart attack while sweeping floor.
92.	11-18-70	County Government	Bridge crew	39	Crushed Backhoe slid into drainage ditch and bucket of backhoe pinned victim against bank of ditch at fence line.
93.	11-19-70	Banking	Driver	NR	Vehicle accident Bank vehicle skidded in snow into path of oncoming vehicle.

NR Not reported.

STATE OF IOWA
WORK RELATED DEATHS
1970 - Continued

<u>No.</u>	<u>Date</u>	<u>Industry</u>	<u>Occupation</u>	<u>Age</u>	<u>Cause</u>
94.	11-20-70	Special Trades Contr.	Roofer	33	Struck by Hoist fell from roof, striking victim on back.
95.	11-30-70	Food & Kindred Products	Supervisor	47	Vehicle accident His car struck the rear assembly of a truck.
96.	12- 7-70	Machinery, Exc. Electrical	NR	43	Vehicle accident Truck left road and caught fire.
97.	12- 9-70	Eating & Drinking Places	NR	84	Burns Burned by hot grease October 31, 1970. Died December 9, 1970.
98.	12-14-70	General Building Contr.	Owner	55	Crushed Bulldozer overturned on victim while loading it on a trailer.
99.	12-16-70	Retail Building Materials	NR	60	Fall to different level Stepped backward and fell 8 feet from catwalk. Struck head on cement.
100.	12-17-70	General Building Contr.	Laborer	47	Fall to different level
101.	12-17-70	General Building Contr.	Carpenter	26	Fall to different level Hanger type scaffold collapsed. Victims fell 45 feet to ground.
102.	12-19-70	Wholesale Trade	NR	51	Struck by Struck by moving train as he stood on track with back to train.
103.	12-22-70	Food & Kindred Prod.	NR	NR	Strangulation Glove caught in rotating shear pin and he was pulled between drive shaft and auger tube.
104.	12-22-70	County Government	NR	35	Struck by Knocked down by attacking bull and struck head on rock.
105.	12-27-70	Apparel & Other Textiles	Mechanic	49	Fall on same level Fell on ice in parking lot and fractured hip on December 15, 1970. Died December 27, 1970 when he developed a blood clot.

NR Not reported.

SECTION C

CHILD LABOR

Table 1

STATE OF IOWA
NUMBER OF CERTIFICATES OF AGE,
WORK PERMITS, AND STREET TRADES PERMITS
BY MONTH
1969 - 1970

Month	Certificates of Age ^{1/}		Work Permits ^{2/}		Street Trades Permits ^{3/4/}		Total Permits & Certificates	
	1969	1970	1969	1970	1969	1970	1969	1970
January.....	160	134	45	44	319	329	524	507
February....	166	104	51	68	341	534	558	706
March.....	192	90	73	65	379	501	644	656
April.....	190	155	95	107	561	428	846	690
May.....	281	208	347	526	282	395	910	1,129
June.....	594	734	711	1,403	257	577	1,562	2,714
July.....	327	246	253	458	556	338	1,136	1,042
August.....	304	497	153	268	298	260	755	1,025
September...	563	520	150	256	229	338	942	1,114
October.....	249	202	120	165	333	250	702	617
November....	260	126	74	138	265	296	599	560
December....	116	112	54	136	209	199	379	447
TOTAL.....	3,402	3,128	2,126	3,634	4,029	4,445	9,557	11,207

^{1/} Age 16 and above.

^{2/} Ages 14 and 15.

^{3/} Ages 10 through 15.

^{4/} News carriers.

Table 2
STATE OF IOWA
NUMBER OF CERTIFICATES OF AGE,
WORK PERMITS, AND STREET TRADES PERMITS
BY INDUSTRY DIVISION
1969 - 1970

Industry Division	Certificates of Age ^{1/}		Work Permits ^{2/}		Street Trades Permits ^{3/4/}		Total Permits & Certificates	
	1969	1970	1969	1970	1969	1970	1969	1970
Agriculture, Forestry & Fisheries.....	16	188	129	443	*	*	145	631
Mining.....	-	1	-	1	*	*	-	2
Contract Construction.....	24	65	22	11	*	*	46	76
Manufacturing.....	1,132	519	110	66	*	*	1,242	585
Transp., Comm. & Public Utilities.....	111	39	71	13	*	*	182	52
Wholesale & Retail Trade.....	580	586	448	811	*	*	1,028	1,397
Finance, Insurance & Real Estate.....	39	29	45	29	*	*	84	58
Services.....	214	636	434	1,455	*	*	648	2,091
Government.....	170	160	867	805	*	*	1,037	965
TOTAL.....	3,402 ^{5/}	3,128 ^{6/}	2,126	3,634	4,029	4,445	9,557 ^{5/}	11,207 ^{6/}

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CHANGE FROM 1969 TO 1970

Industry Division	Certificates of Age ^{1/}		Work Permits ^{2/}		Street Trades Permits ^{3/4/}		Total Permits & Certificates	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Agriculture, Forestry & Fisheries.....	172	108%	314	243%	*	*	486	335%
Mining.....	1	-	1	-	*	*	2	-
Contract Construction.....	41	170	-11	-50	*	*	30	65
Manufacturing.....	-613	-54	-44	-40	*	*	-657	-53
Transp., Comm. & Public Utilities.....	-72	-65	-58	-82	*	*	-130	-71
Wholesale & Retail Trade.....	6	1	363	81	*	*	369	36
Finance, Insurance & Real Estate.....	-10	-26	-16	-36	*	*	-26	-31
Services.....	422	197	1,021	235	*	*	1,443	223
Government.....	-10	-6	-62	-7	*	*	-72	-7
TOTAL.....	-274	-8%	1,508	71%	416	10%	1,650	17%

^{1/} Ages 16 and 17 only. ^{2/} Ages 14 and 15. ^{3/} Ages 10 through 15. ^{4/} Newscarriers. * Not applicable.

^{5/} Includes 1,116 Certificates of Age issued to 18 year olds and older, not distributed by industry.

^{6/} Includes 905 Certificates of Age issued to 18 year olds and older, not distributed by industry.

SECTION D

BOILER DIVISION

STATE OF IOWA
REPORT OF BOILER INSPECTIONS
AND FEES COLLECTED
STATE AND INSURED BOILERS
1969 - 1970

	1969	1970	Total 1969 & 1970
INSPECTIONS^{1/}			
State.....	1,747	1,953	3,700
Insured.....	8,180	8,486	16,666
Total.....	9,927	10,439	20,366
FEES COLLECTED^{2/}			
State.....	\$18,799.55	\$20,901.32	\$39,700.87
Insured.....	17,576.00	17,804.00	35,380.00
Total.....	\$36,375.55	\$38,705.32	\$75,080.87

^{1/} 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.

^{2/} 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 E

PRIVATE EMPLOYMENT AGENCIES

STATE OF IOWA
REPORT OF LICENSES ISSUED
AND FEES COLLECTED
PRIVATE EMPLOYMENT AGENCIES

1969 - 1970

	1969	1970	Total 1969 & 1970
Number of licenses issued.....	36	38	74
License fees collected ^{1/}	\$1,800.00	\$1,900.00	\$3,700.00
Number of placements by licensees ^{2/} ...	5,186	4,582	9,768

^{1/} Annual license fee is \$50.00.

^{2/} As reported to the Bureau of Labor.

STATE LIBRARY OF IOWA



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