

HD
4826
.J8
B54
1965/66

STATE OF IOWA

AUG. 26 1970

BUREAU
Of
LABOR

BIENNIAL REPORT

1965-1966

IOWA STATE LAW LIBRARY

State House

DES MOINES, IOWA

TABLE OF CONTENTS

SECTION A	INTRODUCTION
SECTION B	BOILER DIVISION
SECTION C	EMPLOYMENT AGENCIES
SECTION D	CHILD LABOR
SECTION E	DEATHS
SECTION F	WORK INJURIES
SECTION G	FREQUENCY RATES

The material contained in this publication covers the
calendar years of 1965 and 1966.

PERSONNEL

GENERAL ADMINISTRATION

B. Dale Parkins	Commissioner of Labor	Urbandale
Robert (Bob) Chesher	Deputy Commissioner of Labor	Des Moines
Stan Lemkuil	Administration Assistant	Des Moines
Janet Wright	Bookkeeper	Des Moines
Connie Young	Stenographer	Des Moines
Naomi Davis	Stenographer	Des Moines
Blanche Hickman	Clerk	Des Moines

INDUSTRIAL SAFETY DIVISION

Gale Adams	Des Moines	Joseph Lambert	Dubuque
Vincent Burke	Sioux City	Harry Price	Clinton
James Chapman	Charles City	Lee Sample	Des Moines
Charles Agan	Manilla	Kenneth Zuehlke	Ottumwa
Gary Hawk	Burlington		

CHILD LABOR DIVISION

Janet Christensen	Des Moines
-------------------	------------

BOILER DIVISION

Arthur Parkhurst	Chief Boiler Inspector	Des Moines
Charles Harris	Boiler Inspector	Des Moines
Nadine Abbott	Stenographer	Des Moines
Berneice Kelley	Stenographer	Des Moines

Iowa Bureau of Labor
East Seventh & Court
Des Moines, Iowa 50319
Phone: 515 - 281-5151

SECTION A

I

N

T

R

O

D

U

C

T

I

O

N

Since our last Biennial report, the Bureau of Labor has made significant progress in its history regarding law and budget in the field of Health and Safety.

The 61st General Assembly passed Senate File 403 later designed as Chapter 88A. This Bill became a compromise law between Management and Labor. In the opinion of the writer, this is substantial progress over the previous situation where no rule-making authority existed. However, this law falls far short of being an effective tool whereby, minimum Safety Standards could be adopted in any period of time less than 10 years.

Today, the eight-member Board appointed by the Governor representing Labor and Management has adopted two rules pertaining to Health and Safety in Industry. Again, the progress is too slow when one considers the work to be done. The United States American Standard Institute has published 125 Standards which are what its authors consider minimum Standards. Iowa is lacking most of these Standards. USASI Standards have been adopted as law in most states and are written by highly qualified persons representing Labor, Management and Government from the top of their echelon. Many of these standards could and should be adopted by the Iowa Employment Safety Commission with little or no change. It is highly recommended that legislation be enacted to improve the effectiveness of the Commission which for the most part is hard working and do not deserve to have this lack of progress attributed to them but instead to the defectiveness of Chapter 88A. The 61st General Assembly also passed Senate File 87 which increased the fees for issuing certificates of inspection on boilers and the amount charged by the state when the Bureau of Labor boiler inspectors make the inspection. The bill also increased the coverage of the inspection law to require annual inspections of "places of public assembly" where low-pressure boilers are operated.

The 61st General Assembly also authorized an increased budget for the Bureau of

SECTION B

B

O

I

L

E

R

D

I

V

I

S

I

O

N

BOILER DIVISION

The Boiler Division has shown a large increase in the number of boilers inspected and, correspondingly, the amount of dollars collected. The 61st General Assembly increased the inspection fees and made the Bureau of Labor responsible in that low-pressure boilers located in places of public assembly will be inspected. In the past only high-pressure boilers in manufacturing establishments were required by law to be inspected annually. If the boiler owner carries boiler insurance, the insurance company inspector, who is deputized by our office makes the inspection. If the owner does not carry insurance, then the state inspectors must make the inspection.

On the following page is a breakdown of the money collected by the Boiler Division and remitted to the Treasurer of State.

FEEES COLLECTED

1965

State Inspected Boilers	\$ 7,022
Insurance Inspected Boilers	<u>9,976</u>
Total	<u><u>\$16,998</u></u>

1966

State Inspected Boilers	\$11,941
Insurance Inspected Boilers	<u>15,770</u>
Total	<u><u>\$27,711</u></u>

SECTION C

E

M

P

L

O

Y

A

M

G

E

E

N

N

T

C

I

E

S

PRIVATE EMPLOYMENT AGENCIES

All persons or organizations who attempt to furnish employment for a fee are licensed and the records examined by the Bureau of Labor. The law sets the maximum allowable fee for procuring employment at a 5 per cent of the annual gross earnings.

During the two years of 1965 and 1966 an average of thirty-four private employment agencies were licensed by the Private Employment Agency Commission in accordance with Chapters 94 and 95 of the 1962 Code of Iowa.

In 1965, thirty-five agencies were issued licenses and a fifty dollar fee collected from each.

In 1966, thirty-three agencies were licensed, correspondingly, \$1,650 was collected from them,

SECTION D

C

H

I

L

D

L

A

B

O

R

EMPLOYMENT OF IOWA YOUTH 1965 AND 1966

Total youth employment, 1965 and 1966, increased over the two previous years according to the number of permits received by the Bureau of Labor. Superintendents of Schools and other authorized issuing officers reported to the Bureau that 21,346 permits were issued in 1965 and 1966.

There were 1593 Work Permits issued in the two-year period as compared to 1256 issued in the previous two years. A "Work Permit" is issued for youths 14 to 16 years of age to be employed in occupations permissible by law, other than Street Trade occupations.

Permits for Street Trades were issued for 7,741 boys in 1965-66 compared to 7,486 issued in 1963-64. The majority of these permits are issued for the occupation of Newsboy, although, 6 were issued for other Street Trade occupations. These permits are only required for persons 11-16 years of age and working in a city with a population of 10,000 or more.

Certificates of Age increased in the latter two-year period with 12,012 certificates issued compared to 8,480 in the previous two-year period. Of the 1965-66 certificates 5,102 were issued to the 16-18 year age group and 6,910 were issued to the 18-21 year age group. This can be compared with the 1963-64 figures of 3,768 certificates issued to the 16-18 year age group and 4,712 issued to the 18-21 year age group. Age certificates for employment of 18-21 year olds are primarily issued to assure the employer of compliance with the Federal Child Labor Law.

CERTIFICATES OF AGES

16 and 17 Years	Year	1963	1964	1965	1966
Ordinance & Accessories			57	128	
Food & Kindred Products	488	401	442	711	
Textile Mills Products	3	3	1	21	
Apparel & Other Finished Products	39	44	48	47	
Lumber & Wood Products	32	70	62	115	
Furniture & Fixtures	11	12	22	33	
Paper & Allied Products	6	5	14	17	
Printing, Publishing & Allied Products	207	264	289	622	
Chemicals & Allied Products	7	14	1	8	
Products of Petroleum & Coal			1	1	
Rubber Products	1		1	16	
Leather & Leather Products	4	1		2	
Stone, Clay, Glass Products	23	12	18	65	
Foundry, Primary Metal Industries	5	10	26	21	
Fabricated Metal Products	21	23	20	19	
Machinery (Except Electrical)	80	81	61	145	
Electrical Machinery-Equipment	52	31	84	65	
Transportation Equipment		2	1	5	
Professional, Scientific & Control	1	2	1	10	
Misc. Mfg. Industries (buttons)	18	11	31	22	
Agriculture-Forestries-Fisheries	13	42	34	39	
Construction of Homes, Roofs, Etc.	21	13	23	66	
Construction of Paving, Roads, Etc.	10	8	10		
Wholesale & Retail Trade	405	436	339	311	
Finance, Insurance & Real Estate	31	33	34	47	
Transportation, Comm., Pub. Utilities	49	53	50	137	
Services	134	217	282	294	
Government, County, City (Schools)	122	134	130	105	
Non-Classifiable (self-employed)	4	2	5		
TOTAL		1787	1981	2158	2944

16 and 17	1787	1981	2158	2944
18 through 21	2619	2093	3342	3567
TOTAL OF ALL CERTIFICATES	4406	4074	5500	6511

WORK PERMITS

	Years			
	1963	1964	1965	1966
Food & Kindred Products	22	33	74	36
Textile Mills Products			1	3
Apparel & Other Finished Products	1		3	7
Lumber & Wood Products	3	4	4	20
Furniture & Fixtures	1			6
Paper & Allied Products	1	1	1	1
Printing, Publishing & Allied Products	9	19	31	34
Chemicals & Allied Products			1	4
Products of Petroleum & Coal			3	
Leather & Leather Products	1			1
Stone, Clay, Glass Products	2	3	3	7
Foundry, Primary Metal Industries		1	4	2
Fabricated Metal Products		4	1	3
Machinery (Except Electrical)	3	4	5	8
Electrical Machinery Equipment	2	2	1	1
Transportation Equipment	1	1		
Misc. Mfg. Industries (buttons)	2	3	2	10
Agriculture, Forestries, Fisheries	14	36	47	42
Construction of Homes, Roofs, Etc.	19	17	5	18
Construction of Paving, Roads, Etc.	3		1	
Wholesale & Retail Trade	274	310	253	341
Finance, Insurance & Real Estate	4	9	5	4
Transportation, Comm., Pub. Utilities	10	15	24	6
Services	182	168	213	240
Government, County, City (Schools)	39	31	33	62
Non-Classifiable (self-employed)	2		21	1
TOTAL	595	661	736	857

STREET TRADES

Newsboy	3572	3822	3464	4271
Others	74	18	0	6
TOTAL	3646	3840	3464	4277

SECTION E

D
E
A
T
H
S

During the years of 1965 and 1966 the Bureau of Labor received reports of 171 work connected fatalities. All of the accidents, except some of the highway accidents, have been investigated by a Bureau of Labor safety inspector. In 1963 and 1964 there were 186 industrial deaths reported to the Bureau. The reduction of the 15 deaths reported is more significant when one realizes more people were employed in the years of 1965 and 1966 and less were killed at their places of work.

It is our hope that the presentation of this type of material will emphasize the need for safety consciousness and thus be an aid in preventing future fatalities.

1965

DEATH BY INDUSTRY

General Contractors	21
Transportation, Communication, Public Utilities	12
Services.	6
County and City	6
Grain Mill.	5
Lumber and Wood	5
Chemical and Allied	5
Stone, Clay and Glass	4
Fabricated Metal Products	4
Farm Machinery, except electrical	4
Special Trade Contractors	4
State and Federal Government.	3
Building Construction	3
Meat Products	2
Dairy Products.	1
Electrical Machinery.	1
Agriculture, Forestry, Fisheries.	1
Retail.	1
Mining.	1
Others.	1

Caution should be used in comparing various industries as to which is more hazardous because the total employment of each industry is not the same.

INDUSTRIAL DEATHS OF 1965

1. Farm Machinery Electrical Maintenance Electrocution
Victim was assisting in the operation of a double throw oil emmersed switch, being switched from one circuit to another, when it exploded.
2. Farm Machinery Industrial Truck Driver Industrial Motor Vehicle
Victim was driving a standup tow motor down an inclined, paved street, when he hit some loose sand and went down an embankment causing the truck to overturn.
3. Electrical Machinery Lift Operator Industrial Motor Vehicle
Victim was operating a standup tow motor when he backed into a protruding handrail support crushing himself between support and frame of the truck.
4. Fabricated Metal Welder Struck By
Products
Victim was removing a 900# tank by means of an electric A-frame hoist, when the tank slipped, crushing the victim.
5. Meat Products Truck Driver Highway
Victim's truck was hit by a train.
6. Farm Machinery Industrial Truck Operator Industrial Motor Vehicle
Victim was operating a standup tow motor. As he backed up, he struck a projecting platform, pinning him between platform and truck.
7. Fabricated Metal Laborer Explosion
Products
Deceased was using a cutting torch to remove the top of an unpurged solvent barrel when it exploded.
8. Services Customer Engineer Electrocution
Deceased was installing an antenna. As he prepared to set the pole in the ground, the pole touched a 7,200 volt wire causing a completed circuit through his body.
9. Grain Mill Products Laborer Suffocation
Victim was cleaning out a storage bin when he slipped and became covered with grain for a very short period; unfortunately, he panicked and pulled off his respirator.

INDUSTRIAL DEATHS OF 1965

10. Lumber and Wood Tree Trimmer Struck By
Deceased was cutting a limb; the limb broke quickly and was forced backward by the wind, pinning the victim to the tree.
11. Meat Products Cattle Buyer Highway
Victim turned into the path of on on-coming car.
12. Mining Welder Industrial Motor
Vehicle
Victim was working under a truck when he accidently made contact between the starter and solenoid causing the truck, which was in gear, to start and run over him.
13. Services Carpenter Electrocution
Victim was using a small portable electric drill while standing on wet ground; the drill shorted out causing a completed circuit of 110 volts to pass through the victim.
14. Spec. Trade Contractor Plumber Unknown
While working on a plumbing job the deceased is reported to have grabbed his stomach in pain and died on the way to the hospital.
15. City Truck Driver Highway
Victim was operating a city truck passing through an intersection when a car ran a red light striking the truck.
16. Chemical & Allied Reactor Operator Electrocution
Products
Victim came into contact with a compressor which had been electrically charged with 220 volts.
17. General Contractor Front-end Loader Operator Caught In, Under Or
Between
Deceased was releasing the bucket on a front-end loader when he became entangled in the machine.
18. Stone, Clay & Glass Chauffeur Fall to Different Level
Products
Deceased fell 40 feet from a fixed ladder which he was climbing.
19. Grain Mill Products Material Handler Fall to Different Level
Victim was in the process of putting a tarp on his truck when he slipped and fell head first to the ground.

INDUSTRIAL DEATHS OF 1965

20. Lumber & Wood Products Tree Trimmer Electrocution
Victim was in a bucket trimming branches away from a 2,300 volt power line when his neck and hand apparently touched the line.
21. Grain Mill Products Maintenance Electrocution
Victim was repairing a limit switch when he came in contact with 440 volts.
22. Dairy Products Office Manager Highway
Victim was involved in an automobile accident.
23. Spec. Trade Contractor Well Digger Suffocation
Deceased had gone down a well and was overcome by carbon monoxide from a gasoline engine used in the well drilling operation.
24. Public Utility Electrician Electrocution
Victim was standing on the steel framework of the sub-station when he touched a bushing on an energized transformer.
25. General Contractor Laborer Struck By
Deceased was helping guide a 50 foot steel piling when it slipped, striking the deceased.
26. Special Trade Contractor Plumber Suffocation
Victim was in a 9 foot ditch laying sewer pipe when the ditch caved in.
27. Special Trade Contractor Well Driller Suffocation
Victim was cleaning out a well with hydrochloric and muriatic acid; the mixture of the two acids formed a fatal chloring gas.
28. Stone, Clay & Glass Plant Manager Electrocution
 Products
Victim was attempting to steady a weight on a drag line when another line came into contact with a 50,000 volt power line.
29. Agric., Forestry & Truck Driver Highway
 Fisheries
Deceased was involved in a head-on accident with another truck.
30. Services Welder Explosion
Victim was welding on a liquid nitrogen tank when the fumes ignited and the tank exploded.

INDUSTRIAL DEATHS OF 1965

- | | | | |
|---|---------------------|-------------------|-----------------------------|
| 31. | General Contractor | Truck Driver | Industrial Motor Vehicle |
| Deceased was using an earth mover to stockpile rock; he apparently got too close to the edge causing the machine to overturn. | | | |
| 32. | Lumber & Wood | Logger | Struck By |
| Deceased was struck by a rotten tree which had been struck by the tree being felled. | | | |
| 33. | County | Tractor Operator | Industrial Motor Vehicle |
| Victim was mowing weeds on a road shoulder when the tractor slipped off the road and rolled over. | | | |
| 34. | General Contractor | Electrician | Electrocution |
| Victim was removing old wire from street lights when he came in contact with a 4,160 volt power circuit. | | | |
| 35. | Services | Director | Highway |
| Deceased was involved in a near head-on collision. | | | |
| 36. | Services | Elevator Operator | Fall To Different Level |
| Victim was going from a first floor elevator exit to the top of the elevator, about 4 feet below, when he fell to the top of the elevator. | | | |
| 37. | Transportation | Switchman | Caught In, Under Or Between |
| Victim was in the process of adjusting an inoperative coupling between two railroad cars when one of the cars suddenly moved crushing the victim. | | | |
| 38. | Grain Mill Products | Laborer | Electrocution |
| Victim touched an ungrounded conveyor which had become energized and was electrocuted. | | | |
| 39. | State | Tractor Operator | Industrial Motor Vehicle |
| Victim was mowing weeds in a ditch when one of the front wheels hit a hole causing the tractor to overturn. | | | |
| 40. | Lumber & Wood | Logger | Fall To Different Level |
| Victim was topping a tree; he tied his safety line to a limb and then cut the limb off causing the safety line to pull him down. | | | |

INDUSTRIAL DEATHS OF 1965

- | | | | | |
|-----|---------------------------|----------------|-----------------------------|---|
| 41. | Fabricated Metal Products | Truck Driver | Highway | The truck tire blew-out and caught fire causing the other dual to burn. The victim lost control of the truck and overturned. |
| 42. | General Contractor | Truck Driver | Caught In, Under Or Between | Deceased was caught by a tailplaner track when the large cement mixer began to move forward. |
| 43. | Public Utility | Lineman | Electrocution | Deceased was on a pole when his body touched a transformer jumper and his hand touched a transformer ground causing a complete circuit. |
| 44. | General Contractor | Drier Operator | Industrial Motor Vehicle | Victim had caught a run away low-boy truck; he was knocked off the running board and fell under the truck and was run over by three sets of wheels. |
| 45. | County | Laborer | Struck By | Deceased was struck by a tree that was being removed when it fell at a right angle to the guy cables. |
| 46. | Transportation | Truck Driver | Highway | Victim's truck ran through a barricade marking an end to the highway; it overturned and caught on fire. |
| 47. | Transportation | Truck Driver | Highway | Victim's right front tire blew out causing him to lose control of the truck, causing the truck to overturn. |
| 48. | General Contractor | Carpenter | Fall To Different Level | Victim was riding a rope hoist when the rope broke resulting in a 60-foot fall. |
| 49. | General Contractor | Crane Operator | Electrocution | Victim was operating a dragline; the cable touched a 7,700 volt power line and when the victim stepped to the ground he completed the circuit. |
| 50. | City | Laborer | Unknown | Deceased was mowing weeds with a tractor mower, and when found, he was laying under a rear wheel. |

INDUSTRIAL DEATHS OF 1965

- | | | | |
|-----|--|------------------|--------------------------------|
| 51. | Transportation | Truck Driver | Highway |
| | Victim apparently did not yield right of way to oncoming traffic and his truck was hit by another truck. | | |
| 52. | Transportation | Truck Driver | Highway |
| | Deceased was driving a tractor-trailer unit which struck a bridge abutment. | | |
| 53. | Stone, Clay & Glass
Products | Laborer | Caught In, Under or
Between |
| | Deceased was operating a ready mix truck when he got his head caught between the hopper and the outside ring. | | |
| 54. | Chemical & Allied | Laborer | Electrocution |
| | Deceased was helping unplug a fertilizer lag with a steel rod that came into contact with a 7,700 volt power line. | | |
| 55. | State | Patrolman | Highway |
| | Victim's patrol car went over a shoulder, down into a ditch and struck a fence. | | |
| 56. | Fabricated Metal
Products | Machinist | Explosion |
| | Deceased was using air pressure in testing an aluminum steam drum when the drum exploded. | | |
| 57. | General Construction | Roller Operator | Struck By |
| | Deceased was working in the right lane of a highway sawing out asphalt samples when he was struck by a car. | | |
| 58. | Building Construction | Carpenter | Highway |
| | The victim's truck went out of control and struck a bridge abutment. | | |
| 59. | Building Construction | Laborer | Highway |
| | Same as previous accident. | | |
| 60. | Transportation | Section Laborer | Struck By |
| | Victim, an employee of the railroad, was apparently struck by a switch engine. | | |
| 61. | Transportation | Machine Operator | Caught In, Under Or
Between |
| | Victim was operating a railroad tie removing machine when the activating lever was hit causing the victim to be crushed between work head and machine. | | |

INDUSTRIAL DEATHS OF 1965

- | | | | |
|--|-------------------------------|------------------|--------------------------------|
| 62. | Chemical & Allied
Products | Truck Driver | Electrocution |
| Victim was operating a bulk truck and the auger came into contact with a 440 volt electrical transmission line. | | | |
| 63. | General Contractor | Plant Operator | Struck By |
| Deceased was on a metal fixed ladder mounted on a cylindrical tank when he was struck by a front-end loader. | | | |
| 64. | General Contractor | Iron Worker | Electrocution |
| Deceased was installing steel cross braces when one end of the brace touched a 13,800 volt power line. | | | |
| 65. | Farm Machinery | Truck Driver | Highway |
| Deceased apparently lost control of the truck causing it to go off the highway and pin him beneath it. | | | |
| 66. | General Construction | Machine Operator | Struck By |
| Victim was walking to his machine when a truck, which was backing up, hit and ran over him. | | | |
| 67. | Building Construction | Carpenter | Fall To Different Level |
| Victim was helping hoist a piece of 4 x 8 plywood on to a rope; the wind caught the plywood causing the victim to lose his balance and fall off the roof 12 feet to a cement sidewalk. | | | |
| 68. | Transportation | Truck Driver | Highway |
| Victim swerved his truck to avoid hitting a car and instead hit a utility pole. | | | |
| 69. | General Contractor | Iron Worker | Struck By |
| Deceased was struck by a large piece of concrete which fell 35 feet from a rail being moved by a crane. | | | |
| 70. | Lumber & Wood | Logger | Struck By |
| Deceased was cutting down a tree. It struck another tree and bounced back landing on the victim. | | | |
| 71. | Chemical & Allied
Products | Tractor Operator | Suffocation |
| Victim was preparing to set an explosive charge in a pile of superphosphate when it caved in covering him. | | | |
| 72. | General Contractor | Laborer | Struck By |
| Victim was helping unload sand from a gondola car when a passing freight train struck him. | | | |
| 73. | General Contractor | Plant Manager | Caught In, Under Or
Between |
| Deceased became entangled in a high speed drive shaft when his clothing became caught in a grease fitting. | | | |

INDUSTRIAL DEATHS OF 1965

- | | | | |
|--|----------------------|------------------|-----------------------------|
| 74. | General Contractor | Machine Operator | Industrial Motor Vehicle |
| Victim was riding on the fender of a motor scraper when he slipped and was run over by a wheel. | | | |
| 75. | Transportation | Truck Driver | Highway |
| Victim's truck was struck by a freight train. | | | |
| 76. | General Construction | Scraper Operator | Industrial Motor Vehicle |
| Deceased was run over by a run away motor scraper. | | | |
| 77. | General Construction | Drill Foreman | Industrial Motor Vehicle |
| Deceased was the operator of a drill rig mounted on a pick-up. The truck was going down an embankment when the rig tipped over. | | | |
| 78. | Others | Service Manager | Suffocation |
| The victim was in the process of changing a breather bag in a silo when he was overcome by gas. | | | |
| 79. | County | Truck Driver | Industrial Motor Vehicle |
| Victim was in the box of a semi-trailer when it started to roll. In getting out, he was crushed between the cab and the trailer when it jack-knifed. | | | |
| 80. | General Construction | Laborer | Suffocation |
| The victim was in the process of removing shoring from a sewer trench when the sandy walls collapsed. | | | |
| 81. | General Construction | Laborer | Suffocation |
| Same as previous accident. | | | |
| 82. | City | Lineman | Electrocution |
| Victim was on a pole trying to reset his spike when his arm touched a bracket that had been energized by a sagging 2,400 volt primary wire. | | | |
| 83. | Retail | Truck Driver | Caught In, Under Or Between |
| Deceased was under a railroad car opening a door. The door caught a flight chain causing the elevator to rise, crushing the victim between the elevator and bottom of the car. | | | |

INDUSTRIAL DEATHS OF 1965

- | | | | |
|-----|--|---------------------------|--------------------------|
| 84. | Grain Mill Products | Truck Driver | Highway |
| | Victim's truck tire blew out causing him to lose control of his truck. | | |
| 85. | General Construction | Laborer | Fall To Different Level |
| | Deceased was on a scaffold installing an overhead door when the door came up, knocking the scaffold down causing the deceased to fall to a concrete floor. | | |
| 86. | State | Equipment Operator | Highway |
| | Deceased was the operator of a snowplow which ran a stop sign and struck the side of a semi-trailer. | | |
| 87. | Public Utility | Cable Splicer | Electrocution |
| | Victim was closing an electrical switch which through the failure of two interlocks had become energized. | | |
| 88. | Chemical & Allied Products | Laborer | Fall To Different Level |
| | Deceased fell 9 feet from a catwalk to a concrete floor below. | | |
| 89. | Stone, Clay & Glass Products | Industrial Truck Operator | Industrial Motor Vehicle |
| | Victim was the operator of a front-end loader which went out of control on a downhill grade causing it to overturn. | | |
| 90. | Services | Welder | Explosion |
| | Victim was cutting up junked cars with an acetylene torch which came too close to a gas tank. | | |

1966

DEATH BY INDUSTRY

General Contractors	24
Transportation, Communication, Public Utilities	20
City & County	7
Stone, Clay & Glass	6
Wholesale, Retail	5
Grain Mills	4
State Federal	3
Farm Machinery (Except Electric)	3
Agriculture, Forestry, Fisheries	2
Machinery, Except Electric	2
Rubber	1
Service	1
Ordnance & Accessories	1
Chemical & Allied	1
Mining	1

Caution should be used in comparing various industries as to which is more hazardous because the total employment of each industry is not the same.

INDUSTRIAL DEATHS OF 1966

1. Stone Clay & Glass Products Truck Driver Fall to different level
Victim fell six feet from the top of a sand bin to the sand below apparently landing on his head.
2. Transportation Truck Driver Highway
Victim's gasoline transport went out of control after rounding a curve on the highway.
3. Printing Truck Driver Fall to different level
Victim backed his truck into an open elevator shaft resulting in a 60 foot fall.
4. County Equipment Operator Caught in, under or between
Victim was driving an end loader on a rough gravel road when it overturned in a ditch.
5. Communication Lineman Struck by
Victims were walking along a set of railroad tracks and were struck by a train.
6. Communication Lineman Struck by
Victims were walking along a set of railroad tracks and were struck by a train.
7. State Flagman Struck by
Deceased was flagging cars down on a highway construction project when a car struck him.
8. Transportation Fireman Struck by
Victim was apparently struck by the train as he inspected a diesel unit, as the train moved slowly by.
9. General Contractor Equipment Operator Caught in, under or between
Deceased was driving his payloader backwards when it went off the road and rolled over.
10. Lumber & Wood Laborer (forestry) Struck by
Victim had a partially cut tree which was being pushed over by a bulldozer when the tree twisted and fell on him.

INDUSTRIAL DEATHS OF 1966

11. Farm Machinery Machine Operator Caught in, Under or Between
Victim had fork lift raised and hit an uneven area, causing the fork lift to tip over backwards.
12. General Contractor Ironworker Fall to different level
Victim stepped backwards through open floor landing, falling 12 feet to the level below.
13. Public Utility Line Foreman, Acting Flagman Struck by
Victim was flagging cars down when a semi-trailer truck, out of control, struck him.
14. Machinery, Except Electrical Foreman Electrocution
Victim was rewiring an experimental high frequency grinder when he was electrocuted.
15. Wholesale Retail Laborer Electrocution
Victim was touching a dragline cable when another cable came in contact with a high voltage line completing the circuit through the victim's body.
16. General Contractor Equipment Operator Caught in, Under or Between
Deceased was crushed between the cab and boom of his crane, as the boom turned over on him.
17. Machinery, Except Electrical Salvage Machinist Struck by
Deceased was drilling hole in a metal part when the drill stuck causing the part to swing around cutting his thumb. He died following surgery.
18. Chemical & Allied Laborer Struck by
Victim was pinned between a doorway sill and an industrial tractor.
19. Transportation Car Man Struck by
Victim was replacing the trucks under a boxcar when the jacks gave way causing the boxcar to fall and strike the victim.
20. Ordnance & Accessories Investigator Highway
Victim's auto was struck by another automobile.

INDUSTRIAL DEATHS OF 1966

- | | | | |
|-----|---|------------------|-----------------------------|
| 21. | Utility | Lineman | Electrocution |
| | Victim was taking the slack out of a circuit, wearing appropriate equipment, when he somehow became a part of the electrical circuit. | | |
| 22. | Grain Mill | Truck Driver | Electrocution |
| | Deceased was raising the auger on a portable feed truck when the auger came into contact with a 2400-volt line. | | |
| 23. | Farm Machinery | Telpher Operator | Temperature Extreme |
| | Victim was burned to death when a ladle of molten iron was accidentally dumped while being transported to pouring area. | | |
| 24. | Farm Machinery | Telpher Operator | Temperature Extreme |
| | Victim was burned to death when a ladle of molten iron was accidentally dumped while being transported to pouring area. | | |
| 25. | General Contractor | Laborer | Fall to Different Level |
| | Victim fell five stories between a building and a swing-stage scaffold. | | |
| 26. | Stone, Clay & Glass | Truck Driver | Struck By |
| | Victim's truck was struck by a train. | | |
| 27. | County | Tiler | Struck By |
| | Victim was working in a seven foot ditch when a side wall collapsed causing a crushed chest. | | |
| 28. | Transportation | Truck Driver | Struck By |
| | Victim was in his truck crossing railroad tracks when struck by an eastbound train, crushing him. | | |
| 29. | Rubber | Mechanic | Caught In, Under or Between |
| | Victim was in a post-inflator changing the rings when he apparently activated the machine causing him to be crushed in the cam. | | |
| 30. | Transportation | Truck Driver | Highway |
| | Victim's truck hit a bridge abutment and caught on fire burning him severely. | | |

- | | | | |
|-----|---|-------------------------|-----------------------------|
| 31. | Grain Mill | Sales Territory Manager | Highway |
| | Victim's auto was struck by a train. | | |
| 32. | Transportation | Truck Driver | Struck by |
| | Victim was under truck when it started to roll forward. He tried to crawl out, but did not make it and was run over by the truck. | | |
| 33. | Mining | Miner | Struck by |
| | Victim was hit by a fall of overhanging rib coal. | | |
| 34. | General Contractor | Equipment Operator | Struck by |
| | Victim was moving trees to a pile to be burned. A small tree wedged and snapped back hitting the victim on the head. | | |
| 35. | General Contractor | Equipment Operator | Electrocution |
| | Victim touched a crane cable which was touching a 13,000-volt power line. | | |
| 36. | Local Government | Custodian | Fall to different level |
| | Victim fell backwards off ladder and hit his head on cement floor. | | |
| 37. | General Contractor | Equipment Operator | Caught In, Under or Between |
| | Victim was operating a maintainer which struck a sapling causing the machine to go over a bank and then tipping over. | | |
| 38. | General Contractor | Equipment Operator | Struck By |
| | Victim was walking behind an earth-moving machine which backed over him. | | |
| 39. | General Contractor | Carpenter's Helper | Fall to different level |
| | Victim fell through a stair well opening to a cement floor 18 feet below. | | |
| 40. | Utility | Lineman | Electrocution |
| | Victim made contact with 7200-volt cutout while changing a transformer. | | |

INDUSTRIAL DEATHS OF 1966

41. Transportation Truck Driver Highway
Victim lost control of his truck, causing him to be thrown out of the cab and run over by the rear tires of the truck.
42. General Contractor Laborer Struck by
Victim was working with a footing of a bridge being demolished, when a chunk of concrete fell on him.
43. County Weed Cutter Caught In, Under or Between
Deceased tractor's rear wheel went over another tractor's front wheel causing his tractor to tip over.
44. General Contractor Equipment Operator Caught In, Under or Between
Victim was driving a tractor when it went out of control, rolled down an embankment, pinning him underneath.
45. City Street Commissioner Caught In, Under or Between
Victim was moving dirt with a tractor when he went over the end of a culvert.
46. Grain Mill Millman Electrocution
Deceased was the operator of a bulk feed delivery truck, when the auger came into contact with a 7,200-volt power line.
47. County Equipment Operator Caught In, Under or Between
Victim was trying to start a cat with a starting engine. The cat was in gear when the starting motor was engaged. The victim was pulled between the tracks and the body of the cat.
48. General Contractor Laborer Electrocution
Victim was moving a metal ladder when he came in contact with an energized power line.
49. Utilities Lineman Electrocution
Deceased was handling the neutral line of a 4-wire system. When he cut the line, 23,000-volts backed up through the line he was holding.
50. Utilities Lineman Electrocution
Deceased was working on a 3-phase 7,000-volt power line when he became a part of the circuit.

INDUSTRIAL DEATHS OF 1966

51. General Contractor Self-Employed Fall to different level
Deceased fell from the roof of a two-story house to a concrete alley below.
52. General Contractor Carpenter Struck By
Victim was bent over when he was struck by a front-end loader carrying roof panels.
53. Dairy Products Route Salesman Electrocution
A 7,200-volt power line touched the roof on the victim's delivery truck. When he touched both the ground and truck, a circuit was completed.
54. Fab. Metal Products Truck Loading Helper Struck by
Victim was balancing a load on a fork lift truck when the load fell causing the victim to fall also.
55. General Contractor Equipment Operator Fall on same level
Victim stepped off a slowly moving tractor. When he tried to remount the tractor, he fell beneath the tractor.
56. City Superintendent Fall to different level
Victim fell through opening in floor, falling 30 feet, striking head on concrete.
57. Equipment & Supplies Winder Burns
Victim died from burns received when the oven on the winding machine blew up.
58. General Contractor Scraper Operator Struck by
Victim was operating a motor scraper. When a front tire blew out it caused the operator to be thrown from the machine and run over by the machine.
59. State Eng. Aid Struck by
Victim was sampling crushed rock when top of stockpile broke away falling on him.
60. General Contractor Truck Driver Fall
Victim either fell from his truck or off a loading dock and fractured his skull. No other information available.

INDUSTRIAL DEATHS OF 1966

61. General Contractor Laborer Caught In, Under or Between
Victim was laying tile in a sewer ditch when one of the side walls caved in.
62. General Contractor Foreman Electrocution
Victim was helping load a 21-foot steel beam when the beam came close to a 7,620-volt line causing it to arc over.
63. General Contractor Truck Driver Struck by
Victim was helping unload large, heavy, metal sheets when a gust of wind blew one of the sheets over striking the victim.
64. Stone, Clay & Glass Foreman Drowned
Victim was standing on a barge and started coughing, lost his balance and fell backwards into the water.
65. Stone, Clay & Glass Laborer Electrocution
Victim was erecting a steel grain bin when lightning struck the bin.
66. Stone, Clay & Glass Laborer Electrocution
Victim was erecting a steel grain bin when lightning struck the bin.
67. Transportation Repair man Fall to different level
Deceased fell 35 feet from a roof to the ground.
68. Service Service Station Stt. Temperature Extreme
Victim was cleaning the floor with a flammable fluid which exploded, burning him.
69. Grain Mill Laborer Caught In, Under or Between
Victim fell into a train car full of corn which caused him to suffocate.
70. Transportation Salesman Airline Crash
Victim was in airline crash while enroute to prospective customer.

INDUSTRIAL DEATHS OF 1966

- | | | | |
|-----|--|--------------------|---------------------|
| 71. | Stone, Clay & Glass | Truck Driver | Highway |
| | Victim's ready-mix truck went out of control, causing it to overturn. | | |
| 72. | Transportation | Truck Driver | Highway |
| | Victim's truck collided head-on with another truck. | | |
| 73. | Transportation | Truck Driver | Highway |
| | Victim's truck collided head-on with another truck. | | |
| 74. | Furniture Mfg. | Upholsterer | Unknown |
| | Victim collapsed and died. | | |
| 75. | General Contractor | Plumber | Struck by |
| | Steel flooring collapsed, falling on victim who was on the floor below. | | |
| 76. | General Contractor | Laborer | Caught |
| | Victim was working in a 7-foot ditch when the side walls collapsed. | | |
| 77. | Transportation | Truck Driver | Temp. Extreme |
| | Victim's truck left the highway hitting a culvert and burst into flames. | | |
| 78. | General Contractor | Equipment Operator | Struck by |
| | Victim was run over by his sheeps foot earth packer. | | |
| 79. | Utilities | Lineman | Electrocution |
| | Victim's thumb of right hand contacted 7,200-volt line, causing electrocution. | | |
| 80. | Agriculture | Nursery Worker | Heart Attack |
| | Victim was shoveling snow in company driveway when he suffered heart attack. | | |
| 81. | State | Truck Driver | Cerebral Hemorrhage |
| | Deceased had just finished loading a truck when he collapsed. | | |

SECTION F

W

O

R

K

I

N

J

U

R

I

E

S

WORK INJURIES

During the two years of 1965 and 1966 a total of 15,569 injuries were reported to the Iowa Bureau of Labor. The Code of Iowa requires every accident which caused the injured party to miss two or more days of work, to be reported within 48 hours to the Bureau of Labor.

The most prevalent type of accident was one caused by slips and overexertion, which accounted for 22.2 per cent of all accidents. This was closely followed by the category of the injured being struck by an object, which accounted for 22.1 per cent of all accidents reported.

Most of the injuries occurred to either the hand and fingers or the back and spine. These two categories accounted for 43.2 per cent of all injuries with injuries of the hand and fingers accounting for 22.7 per cent of the total.

A more complete breakdown of the accidents follows in the next few pages.

1965

NUMBER OF DISABLING INJURIES BY INDUSTRY AND AGENCY

INDUSTRIES	AGENCY OF ACCIDENTS										
	Hand Tools	Elevators, Hoisting Engines, Motors	Power Machinery	Other Machinery	Motor Vehicles	Other Vehicles	Electricity, Etc.	Harmful Substance	Animals	Others	Total
MANUFACTURING											
Ordinance & Accessories	2	2	0	0	2	0	0	0	0	2	8
Food Products	438	72	17	115	68	38	75	17	29	62	1891
Textile Products	1	0	0	5	1	0	3	0	0	8	18
Apparel & Other Products	3	0	0	7	2	0	0	0	0	16	28
Lumber & Wood Products	15	3	1	29	11	0	4	0	1	45	109
Furniture & Fixtures	11	1	0	11	2	0	0	0	0	26	51
Paper Products	5	5	0	15	7	1	2	0	0	12	48
Printing, Publishing	17	5	0	22	8	1	2	0	1	53	110
Chemical Products	15	6	5	17	1	2	2	1	8	2	106
Petroleum & Coal Products	3	1	1	1	1	1	1	1	2	0	21
Rubber & Plastics	10	4	1	10	3	0	0	1	3	0	47
Leather	1	0	1	1	0	0	0	0	0	2	5
Stone, Clay, & Glass Prods.	40	16	4	30	24	6	10	3	5	0	257
Foundry, Primary Prods.	73	36	7	75	36	5	7	8	10	1	455
Fabricated Metal	49	18	8	90	23	2	8	7	14	0	403
Machinery (except elect.)	122	87	20	241	75	6	24	18	12	2	927
Elect. Machinery, etc.	19	4	1	47	8	1	4	5	9	3	190
Transportation Equipment	6	3	2	16	8	1	4	0	3	0	67
Professional Control	0	0	1	0	0	0	0	0	0	1	2
Misc. Mfg. Industries	19	5	5	41	15	1	3	0	7	1	168
NON-MANUFACTURING											
Agriculture, Forestry, etc.	7	0	0	3	5	1	8	0	1	2	63
Mining	0	1	0	2	0	0	0	0	0	0	4
Construction, Homes, etc.	32	8	3	16	5	3	8	3	4	1	198
Construction, Roads, etc.	10	8	2	17	5	6	9	0	1	0	100
Wholesale & Retail	56	17	7	19	21	18	18	2	5	2	339
Finance, Insurance, etc.	0	1	0	0	0	1	0	0	0	0	4
Public Utilities	37	14	14	12	17	16	30	19	2	1	367
Services	45	7	8	12	18	10	37	4	10	4	316
Gov't., State, County, City	153	10	10	83	58	53	54	16	27	17	942
All Others	7	0	0	1	1	2	4	1	2	3	70
INDUSTRY TOTAL	1196	334	118	945	415	175	317	106	156	103	7314

1965

NUMBER OF DISABLING INJURIES BY INDUSTRY AND
NATURE OF INJURY

INDUSTRIES	NATURE OF INJURY												
	Amputation	Asphyxiation *	Burns & Scalds	Concussion	Cuts, Bruises, & Lacerations	Multiple Injuries*	Fractures	Hernia	Infection	Sprains & Strains	Occupational Disease	Others	Total
MANUFACTURING													
Ordinance & Accessories	0	0	1	0	1	1	4	1	0	0	0	0	8
Food Products	29	2	69	14	583	29	150	41	90	497	36	351	1891
Textile Products	0	0	0	0	7	0	2	0	0	5	0	4	18
Apparel & Other Products	0	0	0	0	5	0	4	0	3	9	0	7	28
Lumber & Wood Products	8	1	1	2	34	1	20	3	2	18	0	19	109
Furniture & Fixtures	1	0	0	1	16	0	7	0	3	10	0	13	51
Paper Products	4	0	2	0	20	1	3	0	0	7	0	11	48
Printing, Publishing	4	0	2	1	31	1	12	6	2	34	0	17	110
Chemical Products	4	0	7	0	24	2	14	0	12	31	0	12	106
Petroleum & Coal Products	0	0	4	1	3	1	2	1	1	6	0	2	21
Rubber & Plastics	4	0	0	0	9	2	11	1	4	10	0	6	47
Leather	0	0	0	0	3	0	0	0	0	1	0	1	5
Stone, Clay, & Glass Prods.	6	1	9	2	61	5	37	10	10	59	2	55	257
Foundry, Primary Prods.	9	1	67	4	107	6	32	10	7	127	2	83	455
Fabricated Metal	15	0	14	3	120	8	38	8	20	105	4	68	403
Machinery (except elect.)	45	0	46	9	293	10	102	38	34	242	6	102	927
Elect. Machinery, etc.	7	0	8	0	53	0	15	5	13	51	7	31	190
Transportation Equipment	1	0	3	3	25	1	8	0	2	13	0	11	67
Professional Control	0	0	0	0	0	1	1	0	0	0	0	0	2
Misc. Mfg. Industries	16	0	3	0	46	0	16	2	7	45	1	32	168
NON-MANUFACTURING													
Agriculture, Forestry, etc.	3	0	1	1	14	2	3	4	0	14	3	18	63
Mining	0	0	0	0	0	1	1	0	0	1	0	1	4
Construction, Homes, etc.	4	0	8	2	39	4	49	0	2	36	1	53	198
Construction, Roads, etc.	1	0	3	2	15	6	22	2	4	18	0	27	100
Wholesale & Retail	9	3	8	3	69	8	37	17	8	94	2	81	339
Finance, Insurance, etc.	0	0	0	0	0	1	0	1	0	1	0	1	4
Public Utilities	1	0	14	6	72	12	48	7	10	124	0	73	367
Services	3	1	16	2	53	8	52	3	9	77	4	88	316
Gov't., State, County, City	11	1	36	7	215	22	97	24	37	287	8	197	942
All Others	2	0	3	1	15	0	14	4	2	18	2	9	70
INDUSTRY TOTAL	187	10	325	64	1933	133	801	188	282	1940	78	1373	7314

1965

NUMBER OF DISABLING INJURIES BY INDUSTRY BY EXTENT OF
INJURY AND SEX

INDUSTRIES	EXTENT			SEX		
	<i>Fatal</i>	<i>Permanent Partial</i>	<i>Temporary</i>	<i>Total</i>	<i>Male</i>	<i>Female</i>
MANUFACTURING						
Ordinance & Accessories	0	0	8	8	6	2
Food Products	8	32	1851	1891	1718	173
Textile Products	0	0	18	18	13	5
Apparel & Other Products	0	0	28	28	9	19
Lumber & Wood Products	1	8	100	109	105	4
Furniture & Fixtures	0	1	50	51	40	11
Paper Products	0	4	44	48	46	2
Printing, Publishing	0	3	107	110	87	23
Chemical Products	3	4	99	106	99	7
Petroleum & Coal Products	0	0	21	21	20	1
Rubber & Plastics	1	3	43	47	36	11
Leather	0	0	5	5	4	1
Stone, Clay, & Glass Prods.	5	7	245	257	241	16
Foundry, Primary Prods.	1	11	443	455	442	13
Fabricated Metal	2	15	386	403	376	27
Machinery (except elect.)	2	46	879	927	887	40
Elect. Machinery, etc.	2	8	180	190	127	63
Transportation Equipment	0	1	66	67	51	16
Professional Control	0	0	2	2	1	1
Misc. Mfg. Industries	0	16	152	168	103	65
NON-MANUFACTURING						
Agriculture, Forestry, etc.	2	2	59	63	61	2
Mining	0	0	4	4	4	0
Construction, Homes, etc.	11	4	183	198	197	1
Construction, Roads, etc.	11	1	88	100	100	0
Wholesale & Retail	5	9	325	339	302	37
Finance, Insurance, etc.	1	0	3	4	4	0
Public Utilities	12	1	354	367	350	17
Services	10	3	303	316	242	74
Gov't., State, County, City	7	11	924	942	824	118
All Others	1	2	67	70	59	11
INDUSTRY TOTAL	85	192	7037	7314	6554	760
						7314

1966

NUMBER OF DISABLING INJURIES BY INDUSTRY AND AGENCY

AGENCY OF ACCIDENTS

INDUSTRIES	Hand Tools	Elevators, Hoisting	Engines, Motors	Power Machinery	Other Machinery	Motor Vehicles	Other Vehicles	Electricity, Etc.	Harmful Substance	Animals	Others	Totals
MANUFACTURING												
Ordnance & Accessories	1	1	0	0	3	1	0	6	7	0	11	30
Food Products	511	210	32	15	73	61	88	11	58	71	830	1960
Textile Products	5	1	0	0	8	0	1	0	0	0	13	28
Apparel & Other Products	6	1	0	2	6	0	1	0	1	0	18	35
Lumber & Wood Products	30	20	4	7	13	3	4	0	1	1	51	134
Furniture & Fixtures	18	4	2	0	10	0	1	0	0	0	26	61
Paper Products	8	8	0	5	9	0	5	0	0	0	22	57
Printing, Publishing	16	21	2	4	35	2	7	0	2	0	69	158
Chemical Products	15	19	0	5	4	7	6	3	24	1	40	124
Petroleum & Coal Products	3	1	0	0	0	2	0	2	0	0	7	15
Rubber & Plastics	27	22	3	6	20	3	4	1	11	1	37	135
Leather	3	1	0	1	0	0	0	0	0	0	7	12
Stone, Clay, & Glass Prods.	26	37	9	9	12	9	7	3	7	1	79	199
Foundry, Primary Prods.	103	67	8	13	50	4	13	8	16	1	159	442
Fabricated Metal	97	73	24	13	51	7	15	5	10	0	168	463
Machinery (except elect.)	293	178	35	50	171	9	57	7	30	1	394	1225
Elect. Machinery, etc.	53	17	9	5	40	0	8	2	7	0	80	221
Transportation Equipment	24	19	7	3	20	4	7	0	3	1	60	148
Professional Control	1	0	0	0	2	0	0	0	1	0	0	4
Misc. Mfg. Industries	33	11	3	1	23	4	8	2	6	0	57	148
NON-MANUFACTURING												
Agriculture, Forestry, etc.	6	2	0	1	0	3	1	0	1	2	16	32
Mining	1	0	0	0	0	1	0	0	0	0	0	2
Construction, Homes, etc.	27	23	3	0	6	1	2	1	5	0	70	138
Construction, Roads, etc.	20	14	6	11	2	5	13	3	3	0	41	118
Wholesale & Retail	101	73	38	22	18	44	34	13	11	0	249	603
Finance, Insurance, etc.	2	1	0	0	1	0	1	0	0	0	7	12
Public Utilities	51	27	18	13	5	19	13	10	6	0	123	285
Services	103	57	20	18	21	67	24	9	19	2	270	610
Gov't., State, County, City	159	45	14	42	22	63	38	8	17	18	426	852
All Others	0	0	0	0	0	0	0	0	0	1	2	3
INDUSTRY TOTAL	1743	953	237	246	625	319	358	94	246	101	3332	8254

1966

NUMBER OF DISABLING INJURIES BY INDUSTRY AND
NATURE OF INJURY

INDUSTRIES	NATURE OF INJURY												
	Amputation	Asphyxiation	Burns & Scalds	Concussion	Cuts, Bruises, & Lacerations	Multiple Injuries	Fractures	Hernia	Infection	Sprains & Strains	Occupational Disease	Others	Total
MANUFACTURING													
Ordinance & Accessories	2	0	1	0	4	4	4	0	1	5	0	8	29
Food Products	41	7	92	16	637	42	167	35	166	446	13	298	1960
Textile Products	0	0	1	0	11	0	4	0	1	7	0	4	28
Apparel & Other Products	3	0	3	0	9	0	3	0	1	11	2	3	35
Lumber & Wood Products	4	0	2	1	52	3	19	1	10	31	0	11	134
Furniture & Fixtures	5	0	0	0	22	2	9	1	1	9	0	12	61
Paper Products	2	0	1	0	23	1	8	1	2	14	0	5	57
Printing, Publishing	9	0	2	2	51	2	14	2	6	38	0	32	158
Chemical Products	2	1	9	0	20	4	10	2	16	39	0	22	125
Petroleum & Coal Products	0	0	0	0	3	1	3	0	0	2	0	6	15
Rubber & Plastics	11	0	4	0	35	5	22	3	7	26	0	22	135
Leather	0	0	1	0	3	0	0	2	0	6	0	0	12
Stone, Clay, & Glass Prods.	8	1	13	0	43	6	34	4	7	26	1	56	199
Foundry, Primary Prods.	13	0	51	2	102	4	60	7	18	111	4	70	442
Fabricated Metal	17	0	20	1	132	7	56	5	23	123	0	79	463
Machinery (except elect.)	63	0	44	12	345	24	167	21	70	312	3	165	1226
Elect. Machinery, etc.	14	1	7	1	61	4	22	5	18	59	1	28	221
Transportation Equipment	10	1	1	2	41	6	23	2	6	30	1	25	148
Professional Control	0	0	1	0	3	0	0	0	0	0	0	0	4
Misc. Mfg. Industries	5	0	7	2	36	1	22	1	10	36	0	28	148
NON-MANUFACTURING													
Agriculture, Forestry, etc.	1	0	0	1	9	0	3	0	1	7	0	10	32
Mining	0	0	0	0	0	0	1	0	0	1	0	0	2
Construction, Homes, etc.	3	0	5	1	28	6	23	2	4	26	2	38	138
Construction, Roads, etc.	1	1	8	0	30	4	22	0	1	17	1	33	118
Wholesale & Retail	21	2	18	2	128	17	79	16	25	161	2	132	603
Finance, Insurance, etc.	0	0	0	1	3	1	1	0	0	3	1	2	12
Public Utilities	5	3	6	5	51	19	49	3	7	90	1	47	286
Services	12	1	31	9	119	20	113	7	22	141	0	134	609
Gov't., State, County, City	13	1	15	5	195	39	119	11	43	250	4	157	852
All Others	0	0	0	0	1	0	2	0	0	0	0	0	3
INDUSTRY TOTAL	265	19	343	63	2197	222	1059	131	466	2027	36	1427	8255

1966

NUMBER OF DISABLING INJURIES BY INDUSTRY BY EXTENT OF
INJURY AND SEX

INDUSTRIES	EXTENT			SEX		
	<i>Fatal</i>	<i>Permanent Partial</i>	<i>Temporary</i>	<i>Total</i>	<i>Male</i>	<i>Female</i>
<u>MANUFACTURING</u>						
Ordnance & Accessories	1	2	26	29	11	18
Food Products	3	42	1917	1962	1768	194
Textile Products	0	0	28	28	16	12
Apparel & Other Products	0	3	32	35	13	22
Lumber & Wood Products	1	4	129	134	119	15
Furniture & Fixtures	1	5	55	61	40	21
Paper Products	1	2	54	57	51	6
Printing, Publishing	0	9	149	158	131	27
Chemical Products	1	2	122	125	120	5
Petroleum & Coal Products	1	0	14	15	15	0
Rubber & Plastics	1	11	123	135	113	22
Leather	0	0	12	12	10	2
Stone, Clay, & Glass Prods.	4	9	186	199	190	9
Foundry, Primary Prods.	1	13	428	442	430	12
Fabricated Metal	4	18	441	463	423	40
Machinery (except elect.)	4	66	1156	1226	1155	71
Elect. Machinery, etc.	1	14	206	221	126	95
Transportation Equipment	0	11	136	147	128	19
Professional Control	0	0	4	4	2	2
Misc. Mfg. Industries	2	5	141	148	84	64
<u>NON-MANUFACTURING</u>						
Agriculture, Forestry, etc.	1	0	31	32	30	2
Mining	0	0	2	2	2	0
Construction, Homes, etc.	7	3	128	138	138	0
Construction, Roads, etc.	9	1	108	118	118	0
Wholesale & Retail	6	20	577	603	538	65
Finance, Insurance, etc.	0	0	12	12	9	3
Public Utilities	11	5	270	286	279	7
Services	13	13	583	609	490	119
Gov't., State, County, City	9	12	831	852	707	145
All Others	0	0	3	3	2	1
INDUSTRY TOTAL	82	270	7904	8256	7258	998

SECTION G

F

R

E

R

Q

A

U

T

E

E

N

S

C

Y

HAROLD E. HUGHES
GOVERNOR

DALE PARKINS
COMMISSIONER

STAN LEMKUIL
STATISTICIAN

INJURY FREQUENCY RATES IN IOWA MANUFACTURING
INDUSTRIES FOR 1965 AND 1966¹

INDUSTRY	SIC ²	No. of Units	1965 ³ Frequency Rates	No. of Units	1966 Frequency Rates
ALL MANUFACTURING		811	16.3	713	16.3
Food and Kindred Products	20	229	29.3	192	26.8
Meat Products	201	34	37.2	25	36.1
Dairy Products	202	67	21.9	59	19.0
Canning & Preserving	203	9	17.3	9	20.8
Grain Mill Products	204	53	17.7	43	15.7
Bakery Products	205	13	13.2	9	10.4
Beverage Industries	208	21	33.9	21	38.1
Misc. Food Preparation	209	27	22.2	24	21.0
Apparel & Related Products	23	27	15.3	23	19.6
Clothing (Men & Boys)	231 & 2	8	7.3	6	9.0
Clothing (Women & Children)	233 & 4	5	6.8	4	0.0
Misc. Apparel	235, 6 & 8	3	15.7	*	*
Misc. Fabric Prod.	239	11	19.1	10	30.6
Lumber & Wood Products	24	24	21.4	26	22.9
Sawmills & Planing Mills	242	4	46.7	4	77.5
Millwork & Related Products	243	16	18.3	16	16.6
Wooden Containers	244	3	170.1	4	42.8

INDUSTRY	SIC ²	No. of Units	1965 ³ Frequency Rates	No. of Units	1966 Frequency Rates
ALL MANUFACTURING		811	16.3	713	16.3
Furniture & Fixtures	25	18	16.3	17	17.4
Household Furniture	251	14	14.6	12	21.1
Office & Public Bldg. Furniture	252, 3 & 4	5	14.0	5	14.4
Paper & Allied Prod.	26	23	13.4	19	11.7
Conv. Paper & Paper Board Product	264	6	18.8	5	16.3
Paperboard	265	15	9.8	12	11.1
Printing & Publishers	27	99	8.5	85	7.5
Newspapers	271	46	5.3	41	5.8
Periodicals	272	6	13.1	5	3.7
Comm. Printing	275	34	8.2	25	7.1
Business Forms & Greeting	276 & 7	4	0.0	4	45.4
Bookbinding	278	3	11.4	*	*
Serv. for Printing Trade	279	6	0.0	6	0.0
Chemicals & Allied Products	28	29	8.9	24	19.6
Ind. Chem. & Plastics	281 & 2	7	10.0	5	24.1
Drugs	283	3	7.8	*	*
Soaps, Cosmetics & Perfumes	284	7	5.4	6	1.6
Paints & Allied Products	285	4	0.0	4	12.7
Agricultural Chem.	287	8	18.7	7	29.9

INDUSTRY	SIC ²	No. of Units	1965 ³ Frequency Rates	No. of Units	1966 Frequency Rates
ALL MANUFACTURING		811	16.3	713	16.3
Rubber & Misc. Plastics	30	7	6.2	7	9.5
Tires & Tubes	301	3	3.1	3	6.8
Misc. Rubber & Plastic Products	306 & 7	4	10.0	4	15.2
Leather & Leather Prod.	31	3	14.6	*	*
Stone, Clay & Glass Prod.	32	46	17.5	45	18.1
Cement Hydraulic	324	5	7.1	6	3.6
Structural Clay Prod.	325	15	39.2	10	43.7
Concrete Gypsum & Plaster	327	26	16.4	27	24.5
Primary Metal Industry	33	31	34.0	31	66.4
Steel Work & Iron Foundries	331 & 2	21	68.0	21	72.4
Rolling, Drawing & Extruding	335	4	2.3	*	*
Nonferrous Foundries	336	6	43.5	6	13.4
Fabricated Metal Prod.	34	65	22.9	55	29.8
Cutlery, Hand Tools & Hardware	342	7	24.8	5	20.7
Heating, Plumbing Equipment	343	10	16.2	9	17.4
Structural Metal Prod.	344	27	25.8	25	33.7
Screw Machine Prod.	345	3	37.0	*	*
Metal Stamping	346	6	30.8	5	32.8
Coating & Engraving	347	3	0.0	*	*
Misc. Wire Prod.	348	3	43.5	3	63.4
Misc. Metal Prod.	349	6	22.7	4	12.6

INDUSTRY	SIC ²	No. of Units	1965 ³ Frequency Rates	No. of Units	1966 Frequency Rates
ALL MANUFACTURING		811	16.3	713	16.3
Machinery, Except Elec	35	121	13.2	110	13.8
Engines & Turbines	351	3	29.8	*	*
Farm Machinery & Equip.	352	47	8.9	40	8.2
Construction & Mining Machinery	353	14	28.9	11	36.3
Metal Working Equip.	354	5	6.3	4	15.2
Special Ind. Mach.	355	13	23.5	12	19.8
General Ind. Mach.	356	16	17.9	14	7.9
Serv. Ind. Machinery	358	9	27.1	9	41.4
Misc. Machinery	359	15	43.4	18	21.7
Electrical Machinery	36	26	5.0	21	4.8
Electrical Ind.	361 & 2	6	8.5	4	6.7
Household Appliances	363	8	8.3	5	4.5
Electronic Components & Comm. Equipment	365, 6 & 7	9	3.5	8	4.7
Lighting, Wiring & Misc.	364 & 9	4	10.2	4	4.7
Transportation Equip.	37	16	6.1	15	19.9
Instruments & Related Products	38	8	1.8	7	17.1
Misc. Manufacturing	39	35	12.1	26	8.6
TOTAL MANUFACTURING & CONSTRUCTION				1036	16.9

INJURY FREQUENCY RATES IN IOWA CONSTRUCTION
INDUSTRIES FOR 1966¹

CONSTRUCTION	SIC ²	No. of Units	Frequency Rates
ALL CONSTRUCTION		323	23.8
General Building Contractors	15	131	32.1
General Contractors	16	54	21.7
Highway & Street Contractors	161	39	19.9
Other Heavy Construction	162	15	33.6
Special Trade Construction	17	138	18.1
Plumbing, Heating & Etc.	171	31	34.0
Painting & Paper Hanging	172	13	61.9
Electrical Work	173	23	24.6
Masonry & Plastering	174	17	40.3
Roofing & Sheet Metal	176	13	4.7
Concrete Work	177	5	42.3
Miscellaneous Special Trades	179	11	3.5
 TOTAL MANUFACTURING & CONSTRUCTION		 1036	 16.9

FOOTNOTES

¹Injury Frequency Rate is the average number of disabling work injuries for each million employee hours worked.

²Standard Industrial Classification Code.

³Includes the four quarters of the two digit manufacturers and the first, second, and fourth quarters of the three digit manufacturers.

*Data unavailable or less than three reporting units.

STATE LIBRARY OF IOWA



3 1723 02110 8857