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IOWA BUREAU OF LABOR BIENNIAL REPORT 1977-1978



IOWA BUREAU OF LABOR BIENNIAL REPORT 1977 - 1978



Robert D. Ray, Governor

Allen J. Meier, Labor Commissioner

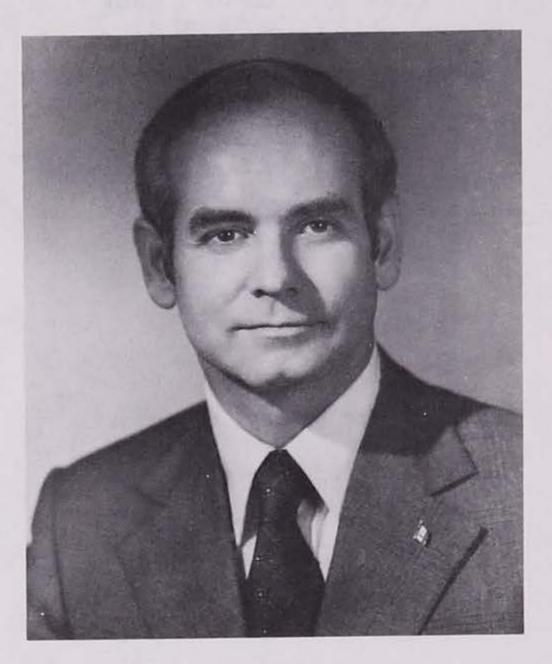
Compiled by the

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June, 1979

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ACKNOWLEDGEMENT



Robert D. Ray Governor of Iowa

The Bureau of Labor wishes to acknowledge the support that Governor Robert D. Ray has given to the many programs administered by our Department. Governor Ray has always considered the health and safety and Iowa's workers and citizens to be of high priority. With new and existing programs competing for the limited public funding available, the Bureau of Labor could not have achieved the performance goals reflected in this report without the support of his office and staff.

TABLE OF CONTENTS

| | PAGE |
|--|------|
| Introduction | vi |
| LABOR COMMISSIONER | |
| ADMINISTRATIVE SERVICES DIVISION | |
| BOILER DIVISION Table 1. Report of Boiler Inspections and Fees Collected, State and Insured Boilers, Fiscal Years 1977-1978 | |
| EDUCATION AND PUBLIC SECTOR CONSULTATION DIVISION | |
| the Safety Education/Consultation Division of the Iowa Bureau of Labor | 10 |
| ELEVATOR SAFETY AND AMUSEMENT PARK/RIDE DIVISION | 11 |
| Years 1977-1978 | |
| OCCUPATIONAL SAFETY AND HEALTH DIVISION | 14 |
| Table 1. Occupational Safety and Health Administration State Performance, Fiscal Year 1977 | 17 |
| Table 2. Occupational Safety and Health Administration State Performance, Fiscal Year 1978 | |
| Table 3. Number of Appeals and Appeal Rate under the Iowa Occupational Safety and Health Act, | |
| 1977-1978 | 19 |
| PRIVATE SECTOR SAFETY AND HEALTH CONSULTATION DIVISION | 20 |
| RESEARCH AND STATISTICS DIVISION | 23 |
| of Injury or Illness, 1977-1978 Table 2. Number of Reported Disabling Injuries and Illnesses by Industry Division and Part of | |
| Body Affected, 1977-1978 | . 26 |

Table of Contents - Continued

| | | PAGE |
|------------------------------|--|----------|
| Table 3. | Number of Reported Disabling Injuries and Illnesses by Industry Division and Source | 0.7 |
| Table 4. | of Injury or Illness, 1977-1978 Number of Reported Disabling Injuries and Illnesses by Industry Division and Type | 27 |
| Table 5. | of Accident or Exposure, 1977-1978 Number of Reported Disabling Injuries and Illnesses by Industry Division and Time | 28 |
| Table 6. | of Day of Occurrence, 1977-1978 Number of Reported Disabling Injuries and | 29 |
| Table 7. | Illnesses by Industry Division and Month of Occurrence, 1977-1978 | 30 |
| Table 8. | Illnesses by Industry Division and Age and Sex of the Employee, 1977-1978 Number of Reported Disabling Injuries and | 31 |
| | Illnesses by Industry Division, Severity and Sex of the Employee, 1977-1978 | 32 |
| Table 9. | Distribution of Reported Disabling Injuries and Illnesses, All Industries, By Nature of Injury or Illness, 1977-1978 | 33 |
| Table 10. | Distribution of Reported Disabling Injuries and Illnesses, All Industries, By Part of Body Affected, 1977-1978 | 33 |
| Table 11. | Distribution of Reported Disabling Injuries and Illnesses, All Industries, by Source of | 34 |
| Table 12. | Injury or Illness, 1977-1978 Distribution of Reported Disabling Injuries and Illnesses, All Industries, By Type of | 200 |
| Table 13. | Accident or Exposure, 1977-1978 Distribution of Reported Disabling Injuries and Illnesses and Employment, By Industry | 34 |
| Table 14. | Division, 1977-1978 Number of Reported Disabling Injuries and | 35 36 |
| Technical No Work-related | Illnesses by County of Occurrence, 1977-1978 tes Fatalities in Iowa | 37 39 |
| Table 15. | Work Related Employee Deaths by Industry Division, 1977-1978 Work Related Employee Fatalities by Cause | 40 |
| | of Death, 1977-1978 Distribution of Work Related Employee Deaths | 40 |
| Table 18. | and Employment, By Industry Division, 1977-1978 Industry Ranking Based on Reported Work Related Deaths, 1977 | 42 |
| Table 19. | | 43 |

Table of Contents - Continued

| | | | PAGE |
|------------|------|---|------|
| Table | 20. | Materials Available From the Research and Statistics Division of the Iowa Bureau of Labor | 44 |
| WAGE AND V | JORK | PLACE STANDARDS DIVISION | 45 |
| Table | | | 42 |
| | | 1977-1978 | 46 |
| Table | 2. | - B Care Care Interacted on Benati | |
| Tal-1a | 2 | of Clients, Fiscal Year 1977 | 47 |
| Table | 3. | | 10 |
| Table | 4. | of Clients, Fiscal Year 1978 | 48 |
| 10010 | | Street Trades Permits, and Migrant Work | |
| | | Permits, By Month, 1977 | 50 |
| Table | 5. | | 30 |
| | | Street Trades Permits, and Migrant Work | |
| | | Permits, By Month, 1978 | 51 |
| | | | |
| | | , | 53 |
| Summary | of | Work Related Deaths, 1977 | 54 |
| Summary | of | Work Related Deaths, 1978 | 71 |

INTRODUCTION

The Bureau of Labor's Biennial Report for 1977 and 1978 contains descriptions and statistical summaries of its varied activities and services to the workers and employers of the State of Iowa. The following is a brief summary of the laws and programs administered by the Bureau of Labor. In addition to the specific activities outlined below, the Bureau of Labor offers educational programs in the area of occupational safety and health to both employers and employees. Also, the Bureau of Labor serves as an information or referral service to workers and employers for questions pertaining to conditions of employment or for problems arising out of and in the course of one's employment. If you have any questions relating to the activities or services of the Iowa Bureau of Labor, please contact our office.

Occupational Safety and Health

The purpose of the Iowa Occupational Safety and Health Act is to assure every working man and woman in this state safe and healthful working conditions and to preserve human resources. The Act authorizes the Labor Commissioner to set safety and health standards, provides for research in the safety and health areas, and sets up an inspection and enforcement program. The coverage of this Act extends to all employers in the state with one or more employees. Excluded are mining operations and Federal government installations. Safety and health coverage provided by the Bureau of Labor affects a total of 1,089,200 workers.

Wage Payment Collection

The purpose of the Iowa Wage Payment Collection Law is to insure than an employer pays all wages due its employees, less any lawful deductions, on regular paydays which are at consistent intervals from each other and which are designated in advance by the employer. It is the duty of the Labor Commissioner to administer and enforce the provisions of the Law, to investigate charges, and if necessary commence a civil action to recover any unpaid wages due the employee.

Child Labor

The Iowa Child Labor Law prescribes hours and conditions of work that are permissible for the employment of youth. Although persons over 16 years of age may be employed legally in most occupations, the Law sets an 18-year minimum for employment in certain particularly hazardous jobs in order to protect young workers from industrial injury. Under the Iowa Child Labor Law, employers are required to obtain work permits or certificates of age before they employ minors of certain ages. These permits show that the minor has met the minimum age and other requirements of the State law. It is the duty of the Labor Commissioner to enforce the provisions of the Law.

Boiler Inspection

It is the duty of the Labor Commissioner to inspect or cause to be inspected at least once every twelve months steam and hot water boilers used for heating and other such equipment covered by the Iowa Boiler Inspection Law in order to determine whether such equipment is in safe and satisfactory condition and properly constructed and maintained for the purpose for which the same is used.

Elevator Inspection

The purpose of the State Elevator Code is to provide for the public safety and to protect the public welfare of persons using any elevator, dumbwaiter, escalator, moving walk, or manlift subject to the Code. It is the function of the Bureau of Labor to adopt rules governing maintenance, construction, alteration, and installation of facilities, and the inspection and testing of new and existing installations.

Inspection of Amusement Parks/Rides

The purpose of the Iowa Amusement Ride Safety Inspection Law is to minimize in so far as possible injury or death that may result from the operation of amusement devices or carnivals. It is the function of the Bureau of Labor to determine if an amusement ride, amusement device, concession booth, or any related electrical equipment is in compliance with safety rules and will provide protection to the public using such ride, device, booth or related electrical equipment.

On-Site Consultation

The Iowa Bureau of Labor offers a free on-site safety and health consultation service to employers who request it. In providing this service, highest priority is given to smaller businesses and to work-places where a high degree of hazard is known to exist. The consultation is used to inform the employer of conditions and practices in his establishment which may not be in compliance with the law, standards or rules and regulations. It is a means of explaining job safety and health regulations and informing the employer how to comply with them. The on-site consultation service is an integral part of the Bureau of Labor's occupational safety and health program and is available to both private sector and public sector employers.

Inspection of Temporary Labor Camps

The Iowa Bureau of Labor inspects temporary labor camps to insure that they are environmentally safe and that the site, shelter, water supply, toilet facilities, sewage disposal facilities, laundry, hand-washing and bathing facilities and lighting are adequate. Such temporary labor camps are occupied by migrant workers. The inspections are performed as a part of the Bureau of Labor's occupational safety and health program.

License for Employment Agencies

Employment agencies are required to obtain licenses from the Employment Agency License Commission before they conduct their business and to file a schedule of fees charged. The Labor Commissioner is a member of the Commission; it is his duty to administer the law relating to employment agencies and to investigate complaints under it. Fees chargeable by employment agencies may not exceed 25 percent of the first month's pay for employment paying less than \$250 per month and no charge for furnishing or procurement of employment shall exceed 8 percent of the annual gross earnings. However, if fees are charged solely to the employer there is no restriction on the amount that can be charged.

Railway Employees Sanitation and Shelter

The Iowa Railway Employees Sanitation and Shelter Act requires that railway companies within the State provide adequate sanitation and shelter for all railway employees. The Iowa Bureau of Labor has adopted regulations and conducts inspections to insure that the water supply, toilets, eating places and sleeping accommodations of railway workers are safe and meet required specifications.

Research and Statistics

The Iowa Occupational Safety and Health Act requires the Labor Commissioner to develop and maintain an effective program of collection, compilation and analysis of occupational safety and health statistics. The Research and Statistics Division has implemented and maintains statistical programs that are uniform with those of the U. S. Department of Labor and of other states. These programs provide reliable measures for evaluating the incidence, nature, and causes of injuries and illnesses in the work place in order to aid the Labor Commissioner in reducing occupational fatalities, injuries, and illnesses in Iowa. The statistical data are also made available to employers, employees, researchers, and safety and health professionals to create an awareness of the seriousness and the nature of unsafe and unhealthful working conditions. The data identify problem areas specific to the industries and safety priorities of Iowa and advance accident and illness prevention efforts.

LABOR COMMISSIONER



Allen J. Meier Labor Commissioner



Marjorie Connors Confidential Secretary



Walter H. Johnson Deputy Labor Commissioner

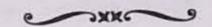


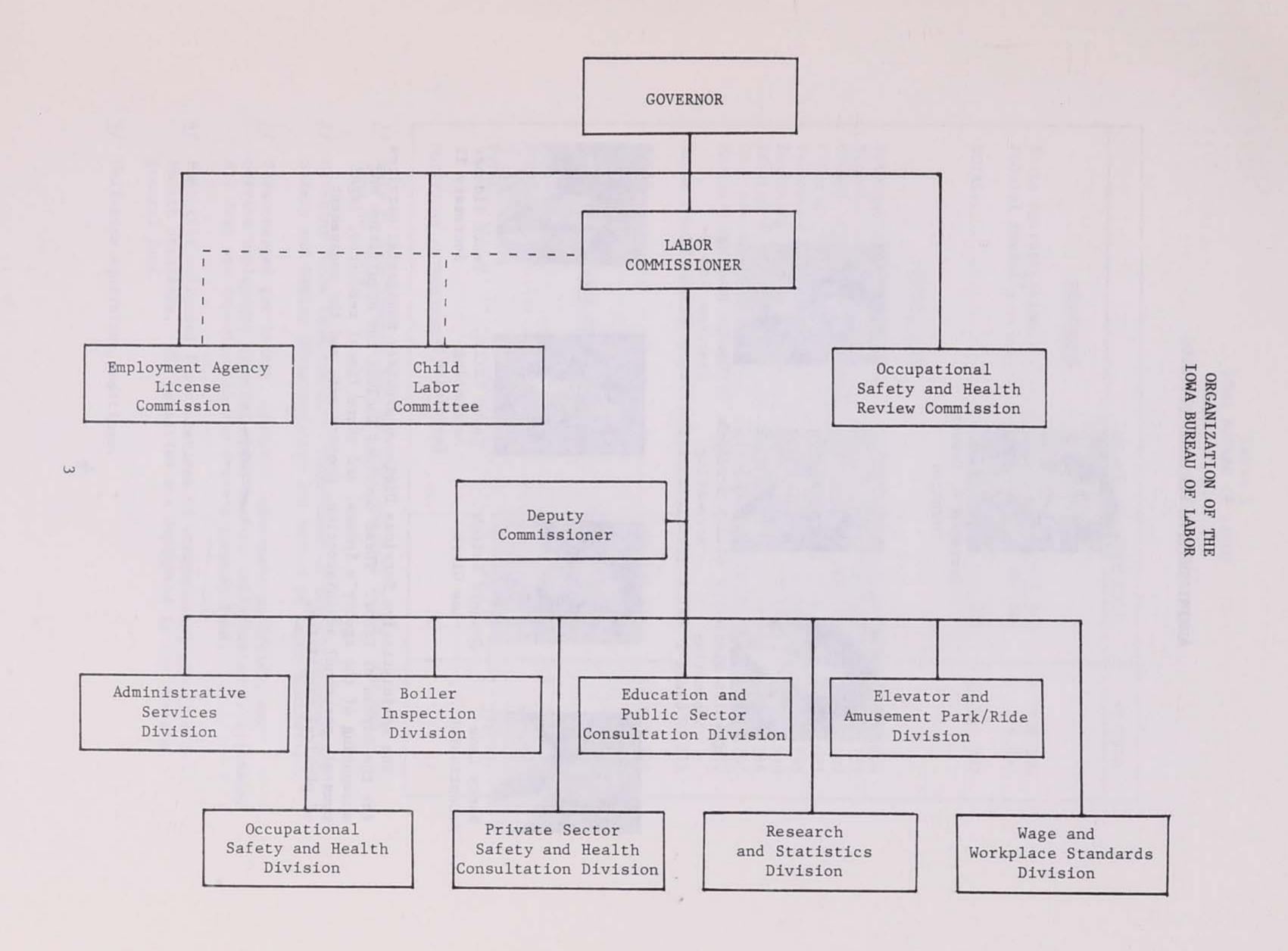
Richard Graeser Health Advisor

The office of Labor Commissioner was created by the 20th Iowa General Assembly in 1884. The Bureau of Labor, under the control of the Commissioner, is responsible for the enforcement of laws relating to occupational safety and health, child labor, passenger and freight elevators, installation and inspection of fired and unfired pressure vessels, private employment agencies, reporting of work injuries and illnesses, the inspection and regulation of amusement rides, wage collection/payment, and railroad sanitation laws. Under the provisions of law, the Labor Commissioner is a member of the Employment Agency License Commission and chairman of the Committee on Child Labor.

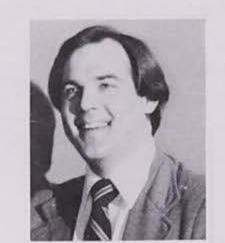
The Employment Agency License Commission investigates and licenses all applicants for private employment agency licenses. The Commission has the authority to adopt regulations necessary for the proper enforcement and administration of Chapters 94 and 95 of the Code of Iowa. Commission members include Secretary of State Melvin D. Synhorst, Industrial Commissioner Robert C. Landess, and Labor Commissioner Allen J. Meier.

The Committee on Child Labor holds public hearings, formulates rules more specifically defining the occupations and equipment permitted or prohibited by Chapter 92 of the Code of Iowa, and issues general and special orders prohibiting or allowing the employment of persons under eighteen years of age in any place of employment hazardous to their health, safety and welfare. The Committee members are Giles J. Smith, representing the Superintendent of Public Instruction; John S. Spear, representing the Director of the Iowa Department of Job Service; Penny Binger and Earnest A. Comito, appointed by Governor Robert D. Ray as public representatives and Labor Commissioner Allen J. Meier.





ADMINISTRATIVE SERVICES DIVISION



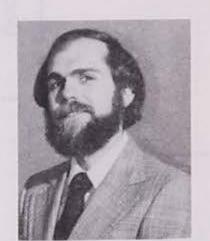
Lawrence A. Dawson Director



Carolyn Biddle Accounting Clerk I



Gladys Braddock Accounting Technician III



Dennis Downing Hearings Compliance Officer II



Nancy Lane Receptionist



Dougald Leitch Law Clerk



Kathy Lilly Accounting Technician I



Patti Sidoner Secretary II

The Administrative Services Division provides managerial services for the Bureau of Labor. These services include the acquisition and accounting of the agency's federal and state fiscal resources, legal counsel, personnel administration, procurement, and the management of physical facilities.

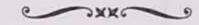


Table 1 IOWA BUREAU OF LABOR BUDGET INFORMATION FISCAL YEARS 1977-19781/

| | FY 1977 | FY 1978 |
|--|--|-----------------------|
| RESOURCES | | |
| State appropriation Federal funds ² / | \$ 921,343 584,241 | \$ 966,306 576,091 |
| TOTAL | \$1,505,584 | \$1,542,397 |
| EXPENDITURES | Internal Control of the Control of t | |
| Salaries and wages | \$1,020,080 | \$1,104,864 |
| Travel | 119,700 | 140,755 |
| Office supplies and expense | 62,775 | 73,807 |
| Printing and binding Telephone and telegraph | 16,234 | 14,081 |
| Equipment | 24,408 8,186 | 20,743 |
| Insurance | 85 | 166 |
| Contractual services | 248,518 | 80,297 |
| Professional and scientific services | 1,370 | 1,533 |
| Inter fund transfer and reversion | 4,228 | 30,211 |
| TOTAL | \$1,505,584 | \$1,542,397 |
| REVENUE GENERATED | | |
| Fees3/ | \$ 145,073 | \$ 208,352 |
| Fees3/ Penalties4/ | 113,222 | \$ 208,352 |
| TOTAL | \$ 258,295 | \$ 372,779 |
| POSITIONS AUTHORIZED5/ | 71 | 72 |

^{1/} July 1, 1976 through June 30, 1977 and July 1, 1977 through June 30, 1978.

^{2/} Matching funds from the U. S. Department of Labor's Occupational Safety and Health Administration and Bureau of Labor Statistics.

^{3/} Fees charged for boiler, elevator, amusement park/ride, and private employment agency inspections and certificates or licenses. All fees are deposited in the State's general fund.

^{4/} Penalties collected for violations of occupational safety and health standards. All penalties are deposited in the State's general fund.

^{5/} Full-time equivalent positions.

BOILER DIVISION



Waldo W. Larsen Chief Boiler Inspector



Nadine Abbott Clerk Typist II



Odella Daniels Secretary I



William Brown Boiler Inspector



Charles Harris Boiler Inspector



Harold McLamb Boiler Inspector

The Boiler Division maintains records of steam boilers and other equipment in the State subject to the Boiler Inspection Law, Chapter 89 of the Code of Iowa. Each record contains a full description of the equipment, including the name of the owner or user, its location, type, dimensions, age, condition, amount of pressure allowed, and the date last inspected. It is the function of the Chief Inspector and the three Deputy Inspectors from the Bureau of Labor, assisted by numerous Special Inspectors which work for insurance carriers but hold a commission from the Labor Commissioner, to determine whether such equipment is in safe and satisfactory condition and properly constructed and maintained for the purpose for which it is used.

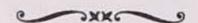


Table 1 STATE OF IOWA REPORT OF BOILER INSPECTIONS AND FEES COLLECTED STATE AND INSURED BOILERS FISCAL YEARS 1977-19781/

| | FY 1977 | FY 1978 | Total FY 1977 & 1978 |
|-----------------------------|-------------|--------------|-------------------------|
| INSPECTIONS2/ | | | |
| State Scheduled | 1,783 | 2,208 | 3,991 |
| State Special 3/ | 6 | 16 | 22 |
| Insured | 9,155 | 10,355 | 19,510 |
| TOTAL | 10,944 | 12,579 | 23,523 |
| FEES COLLECTED4/ | | 0 -12 10 750 | per mar |
| State Scheduled Inspections | \$21,768.00 | \$21,682.00 | \$43,450.00 |
| State Special Inspections | 1,047.00 | 2,912.00 | 3,959.00 |
| Insured Inspections | 48,700.00 | 50,430.00 | 99,130.00 |
| TOTAL | \$71,515.00 | \$75,024.00 | \$146,539.00 |

- 1/ July 1, 1976 through June 30, 1977 and July 1, 1977 through June 30, 1978.
- 2/ State inspections are made by the State Boiler Inspector and his deputies from the Bureau of Labor. Insured inspections are made by insurance company inspectors deputized by the Bureau of Labor.
- 3/ Shop surveys and special inspections conducted at the request or convenience of the owner.
- 4/ During Fiscal Years 1977 and 1978, a fee of \$5.00 was 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. Expenses for travel and subsistence are charged to the owner as fees whenever special inspections are requested.

EDUCATION AND PUBLIC SECTOR CONSULTATION DIVISION



Hewitt Judkins Director



Marita Baumhover Clerk Typist II

Upon request of the employer, the Bureau of Labor offers a free on-site safety and health consultation service to the public sector, the same as is offered to private sector employers. The public sector consists of any governmental agency or political subdivision, such as cities, towns, counties, state agencies, schools, etc. In providing this service, highest priority is given to the smaller workplaces or a workplace that has a known high degree of existing hazards. The on-site consultation is used to inform the employer of conditions and practices in his establishment that may not be in compliance with the law, standards, or other rules and regulations. The consultation visit provides the means for explaining job safety and health regulations and informing the employer how to comply with these regulations.

Educational activities consist of providing pamphlets, films, slides, and training modules to employers and employees or holding seminars for and giving speeches to such groups. There is no charge for these services. A catalog listing all films, slides, and training modules available at the Bureau of Labor will be sent to employers and employees upon request. Presentations on the IOSH Act are available and any of two to forty-hour safety seminars on subjects and codes that pertain specifically to the industry or group requesting them may be arranged.

The Bureau of Labor will do its utmost to advise the public of all new developments, rules and regulations under the Occupational Safety and Health Act and how to comply with them.

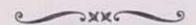


Table 1 STATE OF IOWA ACTIVITIES CONDUCTED BY THE SAFETY EDUCATION/CONSULTATION DIVISION CALENDAR YEARS 1977-1978

| Activity | 1977 | 1978 |
|---|-------|-------|
| Safety films distributed1/ | 74 | 147 |
| Training and Educational Modules distributed2/. | 52 | 55 |
| Safety slide sets distributed | 11 | 13 |
| Educational seminars or speeches given | 72 | 55 |
| Number in attendance | 5,698 | 4,011 |
| Safety school sessions held | 5 | 3 |
| Students in attendance | 148 | 91 |
| Safety Consultations conducted on job sites 3/ | 63 | 51 |

^{1/} For a complete listing of films currently available and a brief description of each, contact the Iowa Bureau of Labor.

^{2/} See Table 2 for a listing of the modules available.

During the report period, private sector and public sector consultation activities were both combined with the educational functions into one Division. The figures shown, therefore, include consultative visits in both the private sector and in state and local government establishments.

Table 2

INSTRUCTIONAL MODULE PACKAGES AVAILABLE FROM THE SAFETY EDUCATION/CONSULTATION DIVISION OF THE IOWA BUREAU OF LABOR

The following comprehensive packages of instructional materials designed to create a better understanding of OSHA and IOSHA requirements are available for loan upon request from the Iowa Bureau of Labor at no charge.

| 1 | Module | Subject |
|---------|---------------|--|
| Industr | ial Modules | |
| | 0 | Machinery and Machine Guarding. |
| | N | Material Handling and Storage. |
| | EL | Fire Protection and Egress. |
| | D | Walking and Working Surfaces. |
| | Н | Hazardous Materials. |
| | Q | Welding, Cutting and Brazing. |
| Constru | ction Modules | |
| | CP | Excavation, Trenching and Shoring. |
| | CLM | Ladders and Scaffolding, Floor and Wall Openings, and Stairways. |
| | CWO | Rollover Protection, Overhead Protection, Motor Vehicles and Mechanized Equipment. |
| | CN | Cranes, Derricks, Hoists, Elevators and Conveyors. |
| | CA | Power Transmission and Distribution. |
| | CJ | Welding and Cutting. |
| Specifi | c Occupations | |
| | 101 | Equipment Repair Shops. |
| | 102.A | Meat Products Manufacturing (Employees). |
| | 102.B | Meat Products Manufacturing (Employers). |
| | 103 | Carpentry. |
| | 103.A | Carpentry (Short Course). |
| | 105 | Road Repair and Maintenance. |
| Industr | ial Hygiene | |
| | G-0 | Control of Industrial and Occupational Health Hazards. |
| | G-93 | Control of Occupational and Industrial Air Contaminants. |
| | G-94 | Industrial Ventilation. |
| | G-95 | Occupational Noise Exposure. |
| | G-96/C-53 | Ionizing Radiation. |
| | G-I/E | Personal Protective Equipment. |
| | 2 2 1 - | W 1.1 D .: - C II-11:- Cutting and Proging |
| | G-Q/J | Health Practices for Welding, Cutting and Brazing. Brucellosis - Meat Packing Industry. |

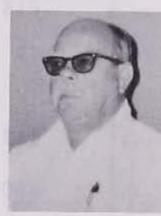
ELEVATOR SAFETY AND AMUSEMENT PARK/RIDE DIVISION



Harold Holmgaard Director



Marcia Bradford Secretary I



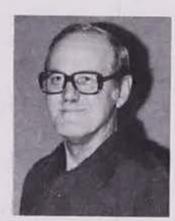
Harold Angstrom Field Safety Technician



Charles R. Lyon Field Safety Technician



Richard Myers Lead Elevator Inspector



Malcolm Paine Elevator Inspector



Myron Spragg Elevator Inspector

The Amusement Park/Ride Section is responsible for the safety inspection of amusement rides, devices, concessions, and associated electrical wiring used at carnivals or fairs within the State. Two Field Safety Technicians and the Safety Inspection Supervisor inspect about 50 carnival operators and 70 fairs each year. Approximately 4,000,000 persons are exposed to potential hazards from 500 rides and 800 concessions annually. Amusement park/ride inspections, including preliminary, annual, and recheck inspections, are performed during a seven-month period. During the five-month winter season, the two Field Safety Technicians and the secretary are involved in elevator inspection activities.

The Elevator Safety Section is responsible for the safety inspections of elevators, dumbwaiters, escalators, and moving walks.
The division is headed by the Safety Inspection Supervisor and is
staffed by a lead elevator inspector, a secretary and three full time
elevator inspectors.

Table 1 STATE OF IOWA REPORT OF ELEVATOR CERTIFICATES ISSUED, INSPECTIONS AND FEES COLLECTED FISCAL YEARS 1977-19781/

| | FY 1977 | FY 1978 | TOTAL FY 1977 & 1978 |
|-------------------------------------|-------------|-------------|-------------------------|
| Number of Certificates Issued2/ | 616 | 1,471 | 2,087 |
| INSPECTIONS | | | |
| New Installations/Alterations | 163 | 139 | 302 |
| Annual | 460 | 1,402 | 1,862 |
| Reinspections3/ | 911 | 1,363 | 2,274 |
| TOTAL | 1,534 | 2,904 | 4,438 |
| FEES COLLECTED | | | |
| Annual Inspection Fees | \$30,195.00 | \$67,268.00 | \$ 97,463.00 |
| Installation/Alteration Permit Fees | 13,128.76 | 12,930.50 | 26,059.26 |
| TOTAL | \$43,323.76 | \$80,198.50 | \$123,522.26 |
| Accidents Investigated | 31 | 17 | 48 |

^{1/} July 1, 1976 through June 30, 1977 and July 1, 1977 through June 30, 1978.

^{2/} Certificates of Permission to Operate for elevators, escalators, moving walks or dumbwaiters.

^{3/} Reinspection is required to follow up on deficiencies discovered during an original inspection.

Table 2
STATE OF IOWA
REPORT OF AMUSEMENT PARK/RIDE
PERMITS ISSUED, INSPECTIONS
AND FEES COLLECTED
CALENDAR YEARS 1977-1978

| | 1977 | 1978 | TOTAL 1977 & 1978 |
|-------------------------------------|--------------------|------------------|----------------------|
| NUMBER OF PERMITS TO OPERATE ISSUED | 102 | 66 | 168 |
| INSPECTIONS | | | |
| Electrical Mechanical-Electrical | 73 59 | 877 537 | 950 596 |
| TOTAL | 132 | 1,414 | 1,546 |
| FEES COLLECTED1/ | | | CHARG SOMETH |
| Permit Fees | \$ 1,080 35,010 | \$ 870 34,200 | \$ 1,950 69,210 |
| TOTAL | \$36,090 | \$35,070 | \$71,160 |
| Mechanical Failures Reported | 0 | 1 | 1 |
| Personal Injuries Reported | 11 | 1 | 12 |

^{1/} The following fees were charged from January 1, 1977 to July 1, 1978:
Permit Fee, \$10; Electrical Inspection Fee, \$15; and Mechanical—
Electrical Inspection Fee, \$40. As a result of a change in the legis—
lation, fees charged after July 1, 1978 were: Permit Fee for 1 through
10 rides, devices or concessions, \$10 and for 11 or more rides, devices
or concessions, \$20; Mechanical—Electrical Inspection Fee for rides
which are designed for 75 lbs. or less per passenger unit, \$50 for each
inspection, for rides which are designed for more than 75 lbs. and for
which the manufacturer's recommended assembly time is less than 40 work
hours, \$75 for each inspection, and for rides for which the manufacturer's
recommended assembly time is 40 work hours or more, \$100 for each inspection; and Electrical Inspection of concession booths and amusement
devices, \$25 each.

OCCUPATIONAL SAFETY AND HEALTH DIVISION



Mary L. Bryant IOSH Administrator



Robinson Colón Labor Safety Officer



Harry L. Debye Labor Safety Officer



Arthur C. Orduña Labor Safety Officer



Jerome M. Skeers Labor Safety Officer



Kathy Foster Secretary I



Donna McConnell Secretary I



Lisa Hill Power Typist I



Marjorie Hines Power Typist I



Donna Phillips Power Typist I

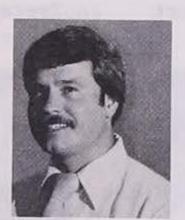
The Iowa Occupational Safety and Health Act of 1972 was promulgated to assure, as far as possible, that every working man and woman in the State of Iowa is provided with safe and healthful working conditions and that no employee will suffer diminished health, functional capacity or shorter life expectancy due to his or her work experience. The Act

covers every employer who is engaged in a business, trade, commerce or industrial activity in the State who has one or more employees and also includes State and local governments.

The Iowa Occupational Safety and Health Division is responsible for enforcing compliance with the standards and regulations adopted under the Act. The Division is made up of the IOSH Administrator, five Labor Safety Officers, twenty Compliance Safety and Health Officers, seven Industrial Hygienists and five clerical support staff. The Compliance Safety and Health Officers are organized into groups which specialize in either construction, transportation and public utilities, and public sector enforcement or in general industry, retail trade, wholesale trade, and service industry enforcement.

Unannounced inspections are conducted by the Compliance Safety and Health Officer or Industrial Hygienist to determine compliance with the standards and regulations. In addition to general schedule inspections, fatalities and/or catastrophes and complaints are also investigated. The Labor Safety Officers are responsible for providing technical expertise to the Compliance Safety and Health Officers, Industrial Hygienists and to employers and employees in the State.

Industrial Hygienists



Paul Cramer



Robert Grimm



Charles Hooper



John Larson



Betty Meeker



Shashi Patel



David Trott

Compliance Safety and Health Officers



Donald Diskey



Janet Fenton



Richard Griffiths



Michael Heth



Robert Hild



Edward Hines



Phyllis Kelley



Robert Kinne



Ronald Knutson



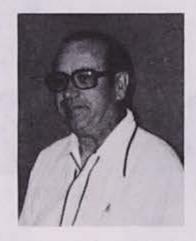
Kenneth Kunert



Everett Loy



Dwain Lundeen



John Pitstick



Nick Rajcevich



Carl Robey



William Robinson



Lee Sample



Saverio Sirna



James Wetherbee

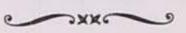


Table 1
STATE OF IOWA
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
STATE PERFORMANCE - FISCAL YEAR 1977.1/

| | 100000 | PERCENT OR |
|--|-------------------|--|
| | NUMBER | AVERAGE |
| Total Inspections Conducted | 2,895 | at four-times Considerated |
| Safety Inspections | 2,695 | 93.1% |
| Health Inspections | 200 | 6.9% |
| Accident Inspections | 58 | 2.0% |
| Complaint Inspections | 265 | 9.2% |
| General Schedule Inspections | 1,696 | 58.6% |
| Follow-up Inspections | 876 | 30.2% |
| Contested | 213 | 7.4% |
| Inspections in Compliance (Excluding Follow-up) | 270 | 9.3% |
| Total Employees Covered by Inspections | 164,240 | Avg. = 57/Inspection |
| Employees Covered by Safety Inspections Employees Covered by Health Inspections | 148,234 16,006 | Avg. = 55/Inspection Avg. = 80/Inspection |
| Total Violations | 8,756 | |
| Serious Violations | 307 | 3.5% |
| Non-Serious Violations | 8,449 | 96.5% |
| Non-Serious Violations with Penalty2/ | 1,075 | 12.7% |
| Citable Hazards Identified | 17,149 | Delivery of the state of the state of |
| Citable Hazards per 100 Employees | Separate d | 10 |
| Total Penalties Proposed | \$193,431 | Secretaria de la Companya del companya del companya de la companya |
| Serious Penalties Proposed | \$ 98,486 | Avg. = \$321/Violation |
| Non-Serious Penalties Proposed | \$ 85,945 | Avg. = \$ 10/Violation |
| Avg. Penalty per Non-Serious Violation with a Penalty Proposed | | \$80 |
| Consultation Visits | 42 | |

^{1/} July 1, 1976 through June 30, 1977.

^{2/} Pursuant to the provisions of the Department of Labor's appropriations bill, after October 1, 1976, penalties for non-serious violations can not be proposed unless a total of 10 or more violations are identified during an inspection.

Table 2 STATE OF IOWA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION STATE PERFORMANCE - FISCAL YEAR 19781

| | NUMBER | PERCENT OR AVERAGE |
|--|------------------------|---|
| Total Inspections Conducted | 2,510 | Mark Mark Market Law |
| Safety Inspections | 2,306 | 91.9% |
| Health Inspections | 204 | 8.1% |
| Accident Inspections | 118 | 4.7% |
| Complaint Inspections | 522 | 20.8% |
| General Schedule Inspections | 1,042 | 41.5% |
| Follow-up Inspections | 828 | 33.0% |
| Contested | 287 | 11.4% |
| Inspections in Compliance (Excluding Follow-up) | 403 | 16.1% |
| Total Employees Covered by Inspections | 166,698 | Avg. = 66/Inspection |
| Employees Covered by Safety Inspections Employees Covered by Health Inspections | 143,873 22,825 | Avg. = 62/Inspection Avg. = 112/Inspection |
| Total Violations | 5,030 | |
| Serious Violations | 1,135 | 22.6% |
| Non-Serious Violations | 3,895 | 77.4% |
| Non-Serious Violations with Penalty2/ | 147 | 3.8% |
| Citable Hazards Identified | 12,277 | |
| Citable Hazards per 100 Employees | | 7 |
| Total Penalties Proposed | \$238,595 | |
| Serious Penalties Proposed Non-Serious Penalties Proposed | \$225,744 \$ 12,851 | Avg. = \$199/Violation Avg. = \$ 3/Violation |
| Avg. Penalty per Non-Serious Violation with a Penalty Proposed | | \$ 87 |
| Consultation Visits | 90 | |

^{1/} July 1, 1977, through June 30, 1978.

^{2/} Pursuant to the provisions of the Department of Labor's appropriations bill, after October 1, 1976, penalties for non-serious violations can not be proposed unless a total of 10 or more violations are identified during an inspection.

Table 3
STATE OF IOWA
NUMBER OF APPEALS AND
APPEAL RATE UNDER THE
IOWA OCCUPATIONAL SAFETY AND HEALTH ACT
1977-1978

| | 197 | 77 | 1978 | 1978 | |
|--------------------|------------------------|------------------|------------------------|------------------|--|
| Month | Number of Appeals1/ | Appeal Rate27 | Number of Appeals1/ | Appeal Rate2/ | |
| January | 7 | 3.2 | 15 | 8.7 | |
| February | 17 | 8.1 | 19 | 12.3 | |
| March | 17 | 6.0 | 32 | 15.1 | |
| April | 21 | 9.1 | 27 | 12.1 | |
| May | 19 | 13.8 | 34 | 14.8 | |
| June | 20 | 7.4 | 17 | 6.6 | |
| July | 33 | 16.6 | 19 | 11.9 | |
| August | 29 | 10.1 | 16 | 7.5 | |
| September | 22 | 9.0 | 21 | 8.4 | |
| October | 22 | 11.2 | 37 | 16.8 | |
| November | 25 | 15.6 | 25 | 11.6 | |
| December | _14 | 8.1 | _20 | 11.6 | |
| TOTAL | 246 | | 282 | | |
| Monthly Average | 20.5 | 9.4 | 23.5 | 11.4 | |

Appeals of safety and health citations or of penalty amounts proposed, or both.

^{2/} The ratio of the number of appeals filed to the number of inspections conducted each month. Some distortion may exist since appeals may be filed in a month subsequent to when the particular inspection was conducted.

PRIVATE SECTOR SAFETY AND HEALTH CONSULTATION DIVISION



William B. Maddex Director



Robert Chesher Labor Safety Officer



John Cunningham Labor Safety and Health Consultant



Philip Mercuris Labor Safety and Health Consultant



Donald Sutton Labor Safety and Health Consultant



Jay Johnson Labor Safety Officer



Daniel Broghammer Industrial Hygienist

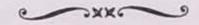


Mary Finn Industrial Hygienist



Margaret McMurray Secretary I

The Iowa Job Safety and Health Consultation Program helps private sector employers, particularly those with smaller businesses, to maintain a safe workplace by assisting them in understanding and complying with occupational safety and health regulations. The goal of the program is to aid employers in identifying and correcting potential hazards through voluntary compliance with OSHA regulations before illnesses or injuries can occur. The program is cost-free and penalty-free to the employer. Upon receipt of a written request for this service, qualified consultants from the Bureau of Labor visit a business or work-site for the purpose of identifying safety and health hazards. Results of the on-site consultation visit are treated in strictest confidence, with the findings and any deviations from the standards being communicated to the employer in a written report.



RESEARCH AND STATISTICS DIVISION



John G. Patramanis Director



Jeri T. Allden Statistical Assistant II



Suzanne M. Hill Secretary I



Barbara A. Smith Statistical Research Analyst I



Yvonne J. Smith Statistical Assistant II

The ultimate goal of the Iowa Occupational Safety and Health Act is to reduce the incidence of injuries and illnesses in Iowa's work-places. Statistics are needed to identify problem areas, as a basis for state and national decisionmaking, and to monitor program effectiveness.

The IOSH Act directs the Labor Commissioner to "develop and maintain an effective program of collection, compilation, and analysis of occupational safety and health statistics." The Research and Statistics Division, in cooperation with the U. S. Bureau of Labor Statistics, has the responsibility for collecting data to assist IOSHA and OSHA in setting standards and seeking compliance, and to provide a resource for education, research, and other prevention efforts. To these ends, the Research and Statistics Division has conducted an annual survey of establishment injury and illness experience every year since 1971. The annual survey provides estimates of the numbers and rates of incidence of occupational injuries and illnesses by industry. These indicators are used and recognized as reliable measures of occupational injuries and illnesses. A detailed report of the results of the survey is published annually and is available upon request from the Bureau of Labor.

Detailed information about the causes of work-related disabilities is compiled from work injury reports submitted by Iowa's employers. The Thirty-Fifth General Assembly of Iowa, appreciating the need for more accurate data on accidents, enacted the first work injury reporting law. That act required employers, as of July 4, 1913, to report to the

Labor Commissioner any accidents occurring to an employee, while at work for the employer, when such accidents resulted in death or disability of the employee. This same requirement was reiterated in the Iowa Occupational Safety and Health Act of 1972 and has now, therefore, been in effect continuously for 66 years.

There are three types of information collected, coded and tabulated from employers' first reports of injury by the Research and Statistics Division. The first identifies the employer and permits classification of the case by industry and geographic location. The second lists the employee's age, sex, salary, and occupation. A third type provides an analysis of the injury or illness, answering questions with regard to the employee's activity at the time of injury, listing any objects or substances involved, and providing a description of the accident and injury or illness.

Because such data supplement information gathered in the annual survey and also further define problem areas identified from the survey, the program of compilation and tabulation is known as the Supplementary Data System (SDS). SDS data help direct a broad range of activities to reduce the incidence of occupational injuries and illnesses. In high incidence rate industries, the SDS data identify the major sources of injuries and illnesses and the most frequent types of accidents or exposures that are producing them. The data also identify the occupations of workers most frequently associated with the injuries or illnesses. In addition, the listing of sources of injuries or illnesses may indicate that new or improved safety and health standards are needed. Knowledge about the kinds of accidents is useful in directing IOSHA and OSHA compliance efforts. And, specific information about the part of the body affected may identify the need for personal protective equipment or expose the inadequancy of existing equipment. Furthermore, the data is a basis for developing educational and training materials for IOSHA and OSHA, employers, and employees.

The information in the tables that follow is compiled from work injury reports submitted to the Iowa Bureau of Labor during the 1977-1978 biennium. The data are summarized at the industry division level. More detailed information about specific industries or injury or illness characteristics is available at the Bureau of Labor.



Occupational Injuries and Illnesses in Iowa

There were 38,944 disabling work injuries and illnesses reported to the Iowa Bureau of Labor during the 1977-1978 biennium. Of these, 18,510 were reported in 1977 and 20,434 in 1978. Disabling work injuries are those that result in two or more lost workdays beyond the day of injury. Also included are work-related fatalities.

The most common nature of injury or illness sustained in 1977 and 1978 was sprains or strains (see Tables 1 and 9). This category accounted for over 38 percent of the total cases reported. Cuts, lacerations, or punctures were the next most common injuries, representing about 16 percent of the total. Contusions, crushing injuries, or bruises accounted for 14 percent of the total and fractures were sustained in over 10 percent of all reported cases. These four types of injuries have remained the most prevalent in Iowa over the past 12-year period.

The part of the person's body most frequently affected was the trunk (see Tables 2 and 10), with over 35 percent of the cases reported involving the abdomen, back, chest, hips, or shoulders. Nearly 24 percent of the injuries sustained were to the back. This is a direct result of the large number of strains suffered by workers. The upper extremities, particularly the fingers, were the next most commonly affected body parts. Disabling injuries to the lower extremities were reported in 21 percent of the cases during the biennium.

Metal items were the most common source of the reported cases, accounting for over 16 percent of the injuries and illnesses for the two year period (see Tables 3 and 11). Working surfaces, those surfaces in use as support for people, were the source of the disability in over 14 percent of the reported instances. A significant number of the reported injuries were inflicted by boxes, barrels, and other containers (9.0 percent); bodily motion (8.3 percent); hand tools, powered and not powered (8.1 percent); machines (6.6 percent); and vehicles (5.9 percent).

Overexertion was the most frequent type of accident reported (see Tables 4 and 12). This directly relates to the high number of sprains and strains suffered, especially to the back. The next most common type of work accident was caused by being struck by an object. Falls, either from an elevation or on the same level, accounted for over 17 percent of the disabling cases in 1977 and 1978.

The time of day when most reported occupational injuries occurred was between 10 a.m. and 11 a.m. (see Table 5). The next most dangerous times of the day, based on frequency of injuries sustained, were from 11 a.m. to 12 noon, from 2 p.m. to 3 p.m., and from 9 a.m. to 10 a.m. The greatest number of injuries have been recorded during these same hours in Iowa since 1973.

During the 1977-1978 biennium, the average number of occupational injuries and illnesses reported to the Bureau of Labor per month was 1,623 (see Table 6). Four out of five disabling injuries and illnesses involved male employees (see Table 7). Cases involving women workers totalled 7,865 as compared with 31,079 cases involving men. The age group sustaining by far the greatest number of reported work injuries and illnesses for both men and women was that ranging from 20 to 29. This age group included over 39 percent of all cases involving male employees and about 32 percent involving female workers.

The great majority of the disabling work injuries and illnesses reported to the Bureau of Labor, over 98 percent, were of a temporary nature (see Table 8). Less than one percent of the total reported cases resulting in the death of the employee. (The section following on work-related deaths provides a more detailed analysis of the fatalities sustained in Iowa during 1977 and 1978.) Also, 536 injuries, or 1.4 percent of the total, resulted in permanent partial disability to the worker. A permanent partial disability is one which results in the loss, or complete loss of use, of any member or part of a member of the body, or in permanent impairment of function of the body or any of its parts.

Manufacturing workers suffered the greatest number of disabling work injuries and illnesses reported during the biennium (see Table 13). There were 20,311 reported cases in the manufacturing industries, 52.2 percent of the total. Manufacturing, however, represents only about 22 percent of the total employment in the State. The construction industries, with 5 percent of the total employment, reported 4,481 disabling occupational injuries and illnesses, or 11.5 percent of the total.

NUMBER OF REPORTED DISABLING INJURIES AND ILLNESSES BY INDUSTRY DIVISION AND NATURE OF INJURY OR ILLNESS 1977 - 1978

| Industry Division | Amputations | Burns - Heat or Chemical | Contagious or In- fectious Disease | tusion, Crush- or Bruise | t, Laceration | ermatitis | slocation | ectric Shock, | acture | Hernia | flammation or ritation | ratches or | ain | ther | TOTAL |
|--|-------------|-----------------------------|---------------------------------------|-----------------------------|---------------|-----------|-----------|---------------|--------|--------|------------------------|------------|-------|-------|--------|
| | A | Bu He | D H | 0 4 | Cu | Ã | Di | E1 E1 | Fr | He | Inf | Scr | Sp | 0,0 | TO |
| Agric., Forestry & Fishing | 16 | 4 | 0 | 50 | 62 | 4 | 16 | 2 | 77 | 10 | 2 | 16 | 95 | 60 | 414 |
| Mining | 0 | 6 | 0 | 6 | 13 | 0 | 3 | 0 | 15 | 1 | 1 | 1 | 19 | 13 | 78 |
| Construction | 27 | 65 | 0 | 277 | 292 | 15 | 64 | 7 | 278 | 49 | 20 | 67 | 732 | 177 | 2,070 |
| Art and art are a second and are a second ar | 152 | 366 | 23 | 1,520 | 1,822 | 148 | 125 | 8 | 806 | 129 | 299 | | 3,507 | 434 | 9,598 |
| Transportation & Pub. Utilities | 16 | 29 | 0 | 192 | 87 | 5 | 33 | 3 | 134 | 26 | 15 | 32 | 562 | | 1000 |
| Wholesale Trade | 22 | 24 | 1 | 163 | 151 | 2 | 43 | 2 | 155 | 34 | 18 | 29 | 387 | 109 | 1,243 |
| Retail Trade | 17 | 72 | 0 | 125 | 230 | 4 | 46 | 1 | 137 | 38 | 10 | 43 | 428 | 105 | 1,136 |
| Finance, Ins. & Real Estate | 1 | 1 | 0 | 7 | 8 | 2 | 9 | 0 | 8 | 2 | 10 | 43 | | 73 | 1,224 |
| Services | 16 | 90 | 17 | 306 | 245 | 26 | 57 | 4 | 298 | 31 | 31 | / 2 | 27 | 13 | 80 |
| Public Administration | 0 | 8 | 0 | 26 | 30 | 2 | 9 | 0 | 25 | 1 | 2 | 42 | 1,068 | 192 | 2,423 |
| TOTAL | 267 | 665 | 41 | 2,672 | 2,940 | 208 | 405 | 27 | 1,933 | 321 | 400 | 491 | 6,922 | 1,218 | 18.510 |

| Dieler ist | | | | | 1978 | | | | | | | | | | |
|---------------------------------|-----|-----|----|-------|-------|-----|-----|----|-------|-------------|-----|------|-------|-------|--------|
| Agric., Forestry & Fishing | 12 | 12 | 1 | 29 | 82 | 2 | 27 | 1 | 68 | 17 | 4 | 14 | 95 | 39 | 403 |
| Mining | 2 | 3 | 0 | 13 | 9 | 0 | 1 | 1 | 19 | 0 | 0 | 1 | 20 | 33 | 70 |
| Construction | 33 | 92 | 2 | 294 | 347 | 22 | 104 | 5 | 308 | 52 | 22 | 88 | 888 | 154 | 2,411 |
| Manufacturing | 166 | 400 | 13 | 1,582 | 1,955 | 148 | 169 | 8 | | 171 | 363 | 1000 | 4,055 | | 10,713 |
| Transportation & Pub. Utilities | 9 | 42 | 0 | 201 | 126 | 5 | 40 | 5 | 169 | 22 | 13 | 35 | 672 | 94 | |
| Wholesale Trade | 24 | 33 | 0 | 150 | 147 | 7 | 41 | 1 | 172 | 23 | 7 | 24 | 444 | 81 | 1,154 |
| Retail Trade | 18 | 87 | 1 | 154 | 246 | 2 | 58 | 0 | 136 | 5.565.51111 | 10 | 34 | 458 | 97 | 1,335 |
| Finance, Ins. & Real Estate | 1 | 1 | 0 | 16 | 8 | 1 | 2 | 1 | 19 | 1 | 0 | 0 | 35 | 14 | 99 |
| Services | 14 | 76 | 18 | 318 | 260 | 23 | 83 | 3 | 285 | 33 | 29 | 47 | 1,193 | 182 | 2,564 |
| Public Administration | 1 | 11 | 0 | 39 | 13 | 0 | 11 | 0 | 40 | 1 | 2 | 4 | 98 | 30 | 250 |
| TOTAL | 280 | 757 | 35 | 2,796 | 3,193 | 210 | 536 | 25 | 2,166 | 354 | 450 | 531 | 7,958 | 1,143 | 20,434 |

Table 2 STATE OF IOWA NUMBER OF REPORTED DISABLING INJURIES AND ILLNESSES BY INDUSTRY DIVISION AND PART OF BODY AFFECTED 1977 - 1978

| | | | | | | | 1.1 | | | | | | | | | | |
|----|-----------------------------------|---|--|--|--|---|---|---|--|---|---|---|---|---|---|--|--|
| | Industry Division | Head | (Eyes) | Neck | Upper extremities | (Arms) | (Fingers) | Trunk | (Back) | Lower extremities | (Legs) | (Feet) | Multiple parts | Body system | Body parts NEC | Unclassified | TOTAL |
| 26 | Agric., Forestry & Fishing Mining | 22 8 146 497 73 67 93 8 155 21 | 13 4 80 280 33 30 43 1 43 2 | 5 1 29 100 36 13 15 4 40 11 | 87 17 446 3,675 206 278 353 10 493 36 | 14 3 93 619 53 69 61 4 117 9 | 45 4 191 1,854 73 114 164 3 186 12 | 124 27 728 3,192 513 440 433 28 1,034 69 | 70 15 476 2,112 336 289 271 16 750 42 | 128 16 556 1,758 308 259 263 21 518 64 | 54 5 258 713 143 104 119 12 222 21 | 31 7 126 471 67 70 51 1 109 15 | 25 6 114 240 78 49 51 6 108 26 | 21 2 43 116 26 29 14 3 65 17 | 0 0 0 0 0 1 0 0 0 | 2 1 8 20 3 0 2 0 10 0 | 414 78 2,070 9,598 1,243 1,136 1,224 80 2,423 244 |
| | TOTAL | 1,090 | 529 | 254 | 5,601 | 1,042 | 2,646 | 6,588 | 4,377 | 3,891 | 1,651 | 948 | 703 | 336 | 1 | 46 | 18,510 |

| 19 | 7 | 8 |
|-------------|-----|-----|
| 2015.20 | 100 | 100 |

| | The state of the s | | | | | | | | | | | _ | | | | |
|---------------------------------|--|-----|-----|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|---|----|--------|
| Agric., Forestry & Fishing | 31 | 13 | 3 | 85 | 17 | 40 | 126 | 70 | 116 | 60 | 30 | 23 | 18 | 0 | 1 | 403 |
| Mining | 6 | 3 | 1 | 13 | 4 | 7 | 23 | 11 | 23 | 9 | 5 | 3 | 3 | 0 | 0 | 72 |
| Construction | 202 | 102 | 36 | 520 | 109 | 235 | 867 | 555 | 621 | 286 | 134 | 120 | 42 | 0 | 3 | 2,411 |
| Manufacturing | 567 | 317 | 126 | 3,974 | 702 | 2,007 | 3,642 | 2,439 | 1,973 | 751 | 519 | 302 | 118 | 0 | 11 | 10,713 |
| Transportation & Pub. Utilities | 100 | 43 | 27 | 232 | 68 | 88 | 557 | 372 | 394 | 173 | 73 | 92 | 28 | 0 | 3 | 1,433 |
| Wholesale Trade | 81 | 31 | 15 | 257 | 41 | 133 | 451 | 321 | 278 | 108 | 75 | 43 | 24 | 0 | 5 | 1,154 |
| Retail Trade | 70 | 39 | 11 | 415 | 83 | 198 | 453 | 322 | 285 | 133 | 54 | 57 | 37 | 0 | 7 | 1,335 |
| Finance, Ins. & Real Estate | 5 | 1 | 2 | 14 | 5 | 3 | 30 | 18 | 32 | 12 | 4 | 9 | 5 | 0 | 2 | 99 |
| Services | 177 | 48 | 49 | 508 | 122 | 209 | 1,090 | 764 | 534 | 238 | 90 | 145 | 50 | 0 | 11 | 2,564 |
| Public Administration | 22 | 6 | 9 | 32 | 9 | 13 | 85 | 58 | 58 | 42 | 5 | 37 | 7 | 0 | 0 | 250 |
| TOTAL | 1,261 | 603 | 279 | 6,050 | 1,160 | 2,933 | 7,324 | 4,930 | 4,314 | 1,812 | 989 | 831 | 332 | 0 | 43 | 20,434 |

Table 3
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES AND ILLNESSES
BY INDUSTRY DIVISION AND SOURCE OF INJURY OR ILLNESS
1977 - 1978

| | - | - | | | 19/ | ' | | 1000 | | | | | | | |
|---------------------------------|---------------|--------------------------------------|-----------|-----------------------------|-------------------------|----------|---------|----------|-------------|-----------------------------|-------|------------|------------------|---|--------|
| Industry Division | Bodily Motion | Boxes, Barrels & Other Containers | Chemicals | Hand Tools - Not Powered | Hand Tools - Powered | Hoisting | Ladders | Machines | Metal Items | Particles (Unidentified) | | Wood Items | Working Surfaces | Other | TOTAL |
| Agric., Forestry & Fishing | 32 | 20 | 5 | 15 | 5 | 1 | 0 | 57 | 38 | 4 | 33 | 10 | 78 | 116 | 414 |
| Mining | 2 | 1 | 4 | 3 | 4 | 3 | 0 | 6 | 9 | 1 | 8 | 2 | 15 | 20 | 78 |
| Construction | 163 | 68 | 14 | 118 | 101 | 18 | 12 | 91 | 371 | 31 | 113 | 132 | 405 | 100000000000000000000000000000000000000 | 2,070 |
| Manufacturing | 715 | 794 | 89 | 784 | 165 | 67 | 19 | 739 | 2,271 | 107 | 433 | 241 | | 2,182 | 9,598 |
| Transportation & Pub. Utilities | 117 | 121 | 9 | 47 | 13 | 12 | 6 | 28 | 145 | 13 | 166 | 31 | 269 | | 1,243 |
| Wholesale Trade | 71 | 173 | 13 | 49 | 5 | 18 | 3 | 72 | 165 | 9 | 108 | 27 | 172 | | 1,136 |
| Retail Trade | 93 | 189 | 10 | 84 | 5 | 14 | 2 | 59 | 111 | 15 | 63 | 30 | 223 | 0.0000000000000000000000000000000000000 | 1,224 |
| Finance, Ins. & Real Estate | 8 | 4 | 0 | 3 | 1 | 1 | 0 | 3 | 5 | 0 | 15 | 0 | 22 | 18 | 80 |
| Services | 196 | 171 | 30 | 51 | 10 | 8 | 7 | 67 | 123 | 12 | 89 | 28 | | 1,072 | 2,423 |
| Public Administration | 27 | 8 | 2 | 4 | 2 | 0 | 0 | 2 | 15 | 0 | 49 | 6 | 65 | 64 | 244 |
| TOTAL | 1,424 | 1,549 | 176 | 1,158 | 311 | 142 | 49 | 1,124 | 3,253 | 192 | 1,077 | 507 | 2,800 | 4,748 | 18,510 |

| | | | | | 197 | 8 | | | | | | | | | |
|---------------------------------|-------|-------|-----|-------|------|-----|----|-------|-------|-----|-------|-----|------------|-------|--------|
| Agric., Forestry & Fishing | 36 | 25 | 11 | 12 | 12 | 0 | 0 | 55 | 21 | 6 | 24 | 11 | 73 | 117 | 4.02 |
| Mining | | 0 | 2 | 1 | 2 | 0 | 0 | 10 | 10 | 1 | 11 | 11 | 13 | 117 | 403 |
| Construction | 225 | 94 | 25 | 143 | 84 | 39 | 21 | 131 | 356 | 35 | 134 | 135 | 461 | 26 | 2 / 11 |
| Manufacturing | 871 | 1,078 | 124 | | 1000 | 87 | 16 | 944 | 2,260 | | 487 | 270 | 1255 | 528 | 2,411 |
| Transportation & Pub. Utilities | 207 | 181 | 18 | 57 | 14 | 7 | 0 | 24 | 120 | 15 | 194 | 29 | | | 10,713 |
| Wholesale Trade | 87 | 176 | 16 | 47 | 12 | 6 | 1 | 75 | 152 | 10 | 136 | 36 | 263 166 | 304 | 1,433 |
| Retail Trade | 93 | 209 | 7 | 87 | 10 | 9 | 1 | 99 | 83 | 11 | 88 | 34 | 237 | 100 | 1,154 |
| Finance, Ins. & Real Estate | | 5 | 1 | 4 | 1 | 0 | 1 | 9 | 1 | 0 | 14 | 1 | 25 | 367 | 1,335 |
| Services | 242 | 198 | 22 | 55 | 23 | 13 | 4 | 92 | 96 | 12 | 104 | 26 | | 23 | 99 |
| Public Administration | 32 | 8 | 4 | 5 | 1 | 0 | 2 | 7 | 6 | 1 | 44 | 3 | 66 | 1,079 | 2,564 |
| TOTAL | | | | | | | | | | * | 7.7 | 3 | 00 | /1 | 250 |
| TOTAL | 1,811 | 1,974 | 230 | 1,311 | 357 | 161 | 46 | 1,446 | 3,105 | 198 | 1,236 | 545 | 2,885 | 5,129 | 20,434 |

Table 4 STATE OF IOWA JUMBER OF REPORTED DISABLING INJURIES

NUMBER OF REPORTED DISABLING INJURIES AND ILLNESSES BY INDUSTRY DIVISION AND TYPE OF ACCIDENT OR EXPOSURE 1977 - 1978

| Industry Division | Struck Against | Struck By | Fall From Elevation | Fall on Same Level | Caught In, Under or Between | Rubbed or Abraded | Bodily Reaction | Overexertion | Contact With | with e Extr | Contact-radiation | Public Transpor- tation Accidents | Motor Vehicle Accidents | Other | TOTAL |
|---------------------------------|----------------|-----------|------------------------|-----------------------|--------------------------------|-------------------|-----------------|--------------|--------------|----------------|-------------------|--------------------------------------|----------------------------|-------|--------|
| Agric., Forestry & Fishing | 19 | 80 | 41 | 54 | 70 | 12 | 32 | 56 | 2 | 3 | 16 | 0 | 13 | 16 | 414 |
| Mining | 8 | 11 | 11 | 10 | 7 | 3 | 2 | 12 | 0 | 2 | 6 | 0 | 3 | 3 | 78 |
| Construction | 123 | 392 | 274 | 232 | 152 | 84 | 168 | 433 | 13 | 44 | 55 | 0 | 45 | 55 | 2,070 |
| Manufacturing | 820 | 1,806 | 355 | 884 | 1,125 | 433 | 743 | 2,517 | 25 | 285 | 313 | 1 | 30 | 261 | 9,598 |
| Transportation & Pub. Utilities | 51 | 163 | 118 | 184 | 97 | 42 | 118 | 295 | 9 | 20 | 26 | 1 | 87 | 32 | 1,243 |
| Wholesale Trade | 59 | 219 | 88 | 128 | 122 | 38 | 71 | 294 | 4 | 16 | 23 | 0 | 40 | 34 | 1,136 |
| Retail Trade | 102 | 197 | 78 | 195 | 81 | 62 | 96 | 295 | 1 | 60 | 21 | 0 | 8 | 28 | 1,224 |
| Finance, Ins. & Real Estate | 3 | 6 | 10 | 14 | 4 | 2 | 8 | 13 | 0 | 2 | 3 | 0 | 12 | 3 | 80 |
| Services | 150 | 305 | 133 | 486 | 132 | 57 | 199 | 694 | 5 | 72 | 90 | 1 | 50 | 49 | 2,423 |
| Public Administration | 7 | 27 | 21 | 47 | 12 | 8 | 29 | 28 | 0 | 9 | 14 | 0 | 33 | 9 | 244 |
| TOTAL | 1,342 | 3,206 | 1,129 | 2,234 | 1,802 | 741 | 1,466 | 4,637 | 59 | 513 | 567 | 3 | 321 | 490 | 18,510 |

| | | | 1 | 197 | 8 | | | | 11.6 | | | | | | |
|---------------------------------|-------|-------|-------|-------|-------|-----|-------|-------|------|-----|-----|---|-----|-----|--------------------------|
| Agric., Forestry & Fishing | 20 | 71 | 40 | 49 | 61 | 14 | 36 | 60 | 1 | 8 | 18 | 0 | 10 | 15 | 403 |
| Mining | | 21 | 3 | 5 | 13 | 1 | 4 | 8 | 1 | 1 | 2 | 0 | 6 | 4 | 72 |
| Construction | 156 | 431 | 324 | 238 | 178 | 100 | 224 | 521 | 13 | 61 | 65 | 0 | 44 | 56 | |
| Manufacturing | 865 | 1,948 | 367 | 890 | 1,300 | 481 | 870 | 2,980 | 14 | 320 | 326 | | 40 | 312 | The second second second |
| Transportation & Pub. Utilities | 69 | 201 | 132 | 183 | 76 | 40 | 207 | 340 | 13 | 24 | 33 | 0 | 86 | 29 | |
| Wholesale Trade | 70 | 182 | 106 | 113 | 146 | 33 | 87 | 276 | 1 | 17 | 32 | 0 | 44 | 47 | 1,154 |
| Retail Trade | 129 | 219 | 103 | 178 | 83 | 45 | 93 | 320 | 0 | 84 | 33 | 0 | 17 | 31 | 1,335 |
| Finance, Ins. & Real Estate | | 11 | 6 | 22 | 8 | 0 | 14 | 15 | 2 | 0 | 3 | 0 | 9 | 5 | 99 |
| Services | 132 | 326 | 164 | 522 | 148 | 47 | 242 | 738 | 3 | 60 | 76 | 0 | 42 | 64 | 2,564 |
| Public Administration | 9 | 33 | 19 | 61 | 13 | 2 | 32 | 32 | 0 | 12 | 7 | 0 | 25 | 5 | 250 |
| TOTAL | 1,457 | 3,443 | 1,264 | 2,261 | 2,026 | 763 | 1,809 | 5,290 | 48 | 587 | 595 | 0 | 323 | 568 | 20,434 |

Table 5
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES AND ILLNESSES
BY INDUSTRY DIVISION AND TIME OF DAY OF OCCURRENCE
1977 - 1978

| | the state of the s | | | | 197 | 77 | | | 1111 | 754 | | | | | |
|----|--|---|---|--|--|--|---|---|---|-----------------|--|---|--|---|--|
| | 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 |
| 29 | Agric., Forestry & Fishing Mining Construction Manufacturing Transportation & Pub. Utilities Wholesale Trade Retail Trade Finance, Ins. & Real Estate Services Public Administration | 7 3 20 288 30 25 19 2 80 3 | 12 10 95 511 80 50 46 4 116 15 | 28 6 182 601 106 89 70 2 163 14 | 38 6 255 647 136 115 118 9 219 18 | 46 3 258 589 126 102 92 10 212 20 | 26 3 132 377 68 67 66 1 142 12 | 14 6 100 410 79 53 48 2 140 12 | 9 205 561 81 99 110 9 | 506 98 92 | 28 7 176 421 65 73 92 10 134 18 | 36 3 68 319 43 56 60 3 86 14 | 28 6 64 2,241 204 149 229 16 497 50 | 71 13 298 2,127 127 166 173 7 330 39 | 414 78 2,070 9,598 1,243 1,136 1,224 80 2,423 244 |
| | TOTAL | 477 | 939 | 1,261 | 1,561 | 1,458 | 894 | 864 | 1,280 | 1,229 | 1,024 | 688 | 3,484 | | 18,510 |

| | | | | 19 | 7.8 | | | | | | | | | |
|---------------------------------|-----|-------|---------|--|---|---------|----------|-------|-------|-------|-----|-------|-------|--------|
| Agric., Forestry & Fishing | 7 | 22 | 30 | 38 | 35 | 30 | 7 | 29 | 28 | 32 | 18 | 2/ | 0.2 | /00 |
| Mining | 2 | 5 | 7 | 12 | 7 | 4 | 2 | 6 | 6 | 2 | | 34 | 93 | 403 |
| Construction | 34 | 114 | 215 | 299 | 274 | 134 | 104 | 226 | 261 | 105 | 0 | 4 | 15 | 72 |
| Manufacturing | 332 | 564 | 1000000 | 737 | 677 | 376 | 471 | | 12.20 | 185 | 76 | 75 | 411 | 2,411 |
| Transportation & Pub. Utilities | 36 | 84 | | 123 | 122 | 74 | 1/4/1-50 | 621 | 579 | 435 | 361 | 2,485 | 2,381 | 10,713 |
| Wholesale Trade | 20 | 45 | 95 | 114 | 100000000000000000000000000000000000000 | M 33/11 | 58 | 118 | 89 | 84 | 71 | 282 | 178 | 1,433 |
| Retail Trade | 9 | 49 | 75 | Control of the contro | 111 | 64 | 49 | 93 | 102 | 83 | 55 | 154 | 169 | 1,154 |
| Finance, Ins. & Real Estate | 2 | 49 | /3 | 120 | 113 | 83 | 75 | 116 | 109 | 88 | 70 | 233 | 195 | 1,335 |
| Services | 0.0 | 7/7 | 3 | 10 | 10 | 12 | 2 | 4 | 4 | 6 | 7 | 15 | 15 | 99 |
| Services | 86 | 141 | 171 | 237 | 229 | 131 | 127 | 197 | 156 | 137 | 89 | 477 | 386 | 2,564 |
| Public Administration | 4 | 19 | 13 | 18 | 17 | 13 | 11 | 13 | 17 | 9 | 15 | 78 | 23 | 250 |
| TOTAL | 533 | 1,049 | 1,419 | 1,708 | 1,595 | 921 | 906 | 1,423 | 1,354 | 1,061 | 762 | 3.837 | 3,866 | 20,434 |

Table 6
STATE OF IOWA

NUMBER OF REPORTED DISABLING INJURIES AND ILLNESSES
BY INDUSTRY DIVISION AND MONTH OF OCCURRENCE

1977 - 1978

| | | | | | 17// | | | | | | | | | |
|-----|---------------------------------|---------|----------|-------|-------|-------|-------|-------|--------|-----------|---------|----------|----------|--------|
| | Industry Division | January | February | March | April | May | June | July | August | September | October | November | December | TOTAL |
| | Agric., Forestry & Fishing | 21 | 23 | 29 | 42 | 39 | 39 | 51 | 27 | 38 | 39 | 40 | 26 | 414 |
| - 1 | Mining | 3 | 3 | 4 | 5 | 6 | 10 | 12 | 6 | 11 | 7 | 4 | 7 | 78 |
| | Construction | 123 | 112 | 128 | 149 | 154 | 206 | 221 | 179 | 207 | 223 | 211 | 157 | 2,070 |
| | Manufacturing | 767 | 803 | 936 | 782 | 811 | 800 | 671 | 887 | 813 | 871 | 799 | 658 | 9,598 |
| 30 | Transportation & Pub. Utilities | 103 | 79 | 86 | 104 | 113 | 87 | 111 | 124 | 105 | 94 | 110 | 127 | 1,243 |
| | Wholesale Trade | 96 | 77 | 100 | 86 | 97 | 92 | 110 | 105 | 93 | 104 | 93 | 83 | 1,136 |
| | Retail Trade | 111 | 84 | 99 | 95 | 113 | 117 | 111 | 100 | 112 | 92 | 99 | 91 | 1,224 |
| | Finance, Ins. & Real Estate | 12 | 3 | 4 | 7 | 9 | 7 | 10 | 3 | 3 | 10 | 4 | 8 | 80 |
| | Services | 196 | 167 | 211 | 190 | 203 | 204 | 203 | 231 | 216 | 220 | 190 | 192 | 2,423 |
| | Public Administration | 18 | 17 | 22 | 27 | 12 | 17 | 22 | 26 | 22 | 18 | 17 | 26 | 244 |
| | TOTAL | 1,450 | 1,368 | 1,619 | 1,487 | 1,557 | 1,579 | 1,522 | 1,688 | 1,620 | 1,678 | 1,567 | 1,375 | 18,510 |

| - 1 | 0 | - | 0 |
|-----|------|-----|---|
| м | ·u | 7 P | × |
| - | 10.7 | | • |

| Agric., Forestry & Fishing | 27 | 30 | 31 | 28 | 31 | 47 | 50 | 34 | 32 | 40 | 29 | 24 | 403 |
|---------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|-------|--------|
| Mining | 2 | 7 | 4 | 4 | 4 | 5 | 6 | 9 | 7 | 9 | 12 | 3 | 72 |
| Construction | 172 | 160 | 151 | 149 | 222 | 229 | 231 | 256 | 231 | 260 | | 151 | 2,411 |
| Manufacturing | 884 | 820 | 886 | 833 | 954 | 943 | 816 | 984 | 920 | 1,082 | 3 3 3 3 3 3 | 768 | 10,713 |
| Transportation & Pub. Utilities | 115 | 106 | 120 | 103 | 115 | 112 | 144 | 129 | 125 | 132 | | 111 | 1,433 |
| Wholesale Trade | 98 | 67 | 84 | 85 | 98 | 97 | 114 | 110 | 97 | 120 | | 86 | 1,154 |
| Retail Trade | 106 | 105 | 97 | 81 | 113 | 122 | 102 | 143 | 141 | 118 | 1 | 100 | |
| Finance, Ins. & Real Estate | 11 | 5 | 12 | 4 | 10 | 8 | 4 | 9 | 9 | 8 | 10 | 9 | 99 |
| Services | 251 | 217 | 214 | 212 | 220 | 205 | 220 | 207 | 221 | 233 | 100000000000000000000000000000000000000 | 195 | 2,564 |
| Public Administration | 26 | 26 | 19 | 12 | 14 | 21 | 20 | 17 | 18 | 28 | 23 | 26 | 250 |
| TOTAL | 1,692 | 1,543 | 1,618 | 1,511 | 1,781 | 1,789 | 1,707 | 1,898 | 1,801 | 2,030 | 1,591 | 1,473 | 20,434 |

Table 7
STATE OF IOWA
NUMBER OF REPORTED DISABLING INJURIES AND ILLNESSES
BY INDUSTRY DIVISION AND AGE AND SEX OF THE EMPLOYEE
1977 - 1978

| | T | | | | | 711 | | - | | | | | | | | | |
|------------------------------------|----------|-----------|----------|----------|---------|-------------|------------|--------------|----------|---------|---------|---------|---------|-------------|------------|----------------|--|
| | | | 1 | M/ | ALE | 1 | | J. J. | | | | 1 | FEMA | LE | | | 4 |
| Industry Division | Under 20 | 20 - 29 | 30 - 39 | 65 - 05 | 50 - 59 | 60 and over | Not Listed | TOTAL - MALE | Under 20 | 20 - 29 | 30 - 39 | 67 - 07 | 50 - 59 | 60 and over | Not Listed | TOTAL - FEMALE | TOTAL BOTH SEXES |
| Agric., Forestry & Fishing. Mining | | 118 24 | 58 13 | 44 15 | 29 | 52 7 | 12 | 379 77 | 4 0 | | 10 | 1 0 | 6 | 1 0 | 0 | 35 | 414 |
| Construction | | 791 | 334 | 247 | 273 | 106 | 112 | 2,051 | 0 | 1 000 | 5 | 1 | 4 | 0 | 1 | 19 | |
| Manufacturing | | 3,405 | 1,651 | 1,072 | 826 | 234 | 91 | 7,895 | 78 | 607 | 390 | 311 | 234 | 56 | 27 | 1,703 | 300 (0.000) |
| ω Transportation & Pub. Util. | | 365 | 286 | 225 | 222 | 60 | 13 | 1,213 | 1 | 7 | 9 | 3 | 8 | 2 | 0 | 30 | |
| Wholesale Trade | | 443 | 190 | 127 | 104 | 77 | 25 | 1,072 | 13 | 20 | 6 | 11 | 7 | 5 | 2 | 64 | The second secon |
| Retail Trade | | 296 | 144 | 89 | 71 | 46 | 22 | 871 | 51 | 84 | 60 | 57 | 59 | 34 | 8 | 353 | |
| Finance, Ins. & Real Est | | 17 | 12 | 9 | 9 | 6 | 2 | 59 | 0 | 7 | 5 | 3 | 6 | 0 | 0 | 21 | 80 |
| Services | | 309 | 165 | 137 | 171 | 123 | 26 | 1,032 | 131 | 422 | 229 | 214 | 252 | 123 | 20 | 1,391 | 2,423 |
| Public Administration | 12 | 45 | 52 | 37 | 22 | 14 | 7 | 189 | 1 | 23 | 9 | 5 | 12 | 4 | 1 | 55 | The second secon |
| TOTAL | 1,342 | 5,813 | 2,905 | 2,002 | 1,733 | 725 | 318 | 14,838 | 279 | 1,191 | 724 | 606 | 588 | 225 | 59 | 3,672 | 18,510 |

| The state of the s | | T | T | T | 1' | 978 | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-----|-----|--------|-----|-------|----------|-----|-----|-----|----|-------|--------|
| Agric., Forestry & Fishing. | | 113 | 54 | 38 | 33 | 41 | 18 | 372 | 6 | 11 | 2 | 5 | 3 | 3 | 1 | 31 | 403 |
| Mining | 9 | 16 | 12 | 11 | 16 | 2 | 6 | 72 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 72 |
| Construction | 207 | 921 | 431 | 305 | 290 | 108 | 128 | 2,390 | 3 | 13 | 2 | 0 | 1 | 1 | 1 | 21 | 2,411 |
| Manufacturing | 695 | 3,785 | 1,850 | 1,127 | 906 | 236 | 172 | 8,771 | 121 | 687 | 462 | 340 | 252 | 47 | 33 | 1,942 | |
| Transportation & Pub. Util. | 61 | 440 | 348 | 211 | 217 | 60 | 25 | 1,362 | 2 | 33 | 00000000 | 8 | 10 | 3 | 1 | 71 | |
| Wholesale Trade | | 397 | 197 | 134 | 131 | 60 | 42 | 1,066 | 9 | 24 | 23 | 12 | 10 | 6 | 4 | 88 | 1000 |
| Retail Trade | | 329 | 143 | 85 | 75 | 41 | 27 | 898 | 68 | 115 | 60 | 62 | 78 | 36 | 18 | 437 | |
| Finance, Ins. & Real Est | | 17 | 10 | 7 | 9 | 10 | 4 | 61 | 3 | 14 | 8 | 4 | 6 | 3 | 0 | 38 | |
| Services | 100 | 315 | 169 | 148 | 189 | 112 | 20 | 1,053 | 109 | 402 | 277 | 254 | 284 | 159 | 26 | 1,511 | 2,564 |
| Public Administration | 3 | 58 | 57 | 42 | 25 | 8 | 3 | 196 | 1 | 11 | 9 | 6 | 16 | | 0 | 54 | 250 |
| TOTAL | 1,457 | 6,391 | 3,271 | 2,108 | 1,891 | 678 | 445 | 16,241 | 322 | 1,310 | 857 | 691 | 660 | 269 | 84 | 4,193 | 20,434 |

Table 8
STATE OF IOWA

NUMBER OF REPORTED DISABLING INJURIES AND ILLNESSES BY INDUSTRY DIVISION, SEVERITY, AND SEX OF THE EMPLOYEE 1977 - 1978

| | | | M. | ALE | | | | FEN | IALE | | |
|---------------------------------|-------|-------------------------------|---------------------------------|-------------------------------|--------------|-------|-------------------------------|---------------------------------|-------------------------------|----------------|-----------------------|
| Industry Division | Death | Permanent Total Disability | Permanent Partial Disability | Temporary Total Disability | TOTAL - MALE | Death | Permanent Total Disability | Permanent Partial Disability | Temporary Total Disability | TOTAL - FEMALE | TOTAL - BOTH SEXES |
| Agric., Forestry & Fishing | 12 | 1 | 15 | 351 | 379 | 1 | 0 | 0 | 34 | 25 | |
| Mining | 1 | 0 | 0 | 76 | 77 | 0 | 0 | 0 | 1 | 35 | 414 |
| Construction | 30 | 0 | 25 | 1,996 | 2,051 | 0 | 0 | 0 | 19 | 19 | |
| Manufacturing | 17 | 0 | 121 | 7,757 | 7,895 | 1 | 0 | 30 | 1,672 | 1,703 | 2,070 |
| Transportation & Pub. Utilities | 17 | 0 | 18 | 1,178 | 1,213 | 0 | 0 | 0 | 30 | 30 | 9,598 |
| Wholesale Trade | 15 | 0 | 22 | 1,035 | 1,072 | 1 | 0 | 0 | 63 | 64 | 1,136 |
| Retail Trade | 5 | 0 | 14 | 852 | 871 | 0 | 0 | 3 | 350 | 353 | 1,224 |
| Finance, Ins. & Real Estate | 2 | 0 | 1 | 56 | 59 | 0 | 0 | 0 | 21 | 21 | 80 |
| Services | 9 | 0 | 11 | 1,012 | 1,032 | 2 | 0 | 4 | 1,385 | 1,391 | 2,423 |
| Public Administration | 7 | 0 | 0 | 182 | 189 | 2 | 0 | 0 | 53 | 55 | 244 |
| TOTAL | 115 | 1 | 227 | 14,495 | 14,838 | 7 | 0 | 37 | 3,628 | 3,672 | 18,510 |
| | | | | 1978 | | | | | | | |
| Agric., Forestry & Fishing | 12 | 0 | 11 | 349 | 372 | 0 | 0 | 1 | 20 | 21 | 100 |
| Mining | 3 | 0 | 1 | 68 | 72 | 0 | 0 | 0 | 30 | 31 | 403 |
| Construction | 22 | 1 | 34 | 2,333 | 2,390 | 1 | 0 | 0 | 20 | 0 | 72 |
| Manufacturing | 13 | 0 | 122 | 8,636 | 8,771 | 0 | 0 | 37 | 1,905 | 1 0/2 | 2,411 |
| Transportation & Pub. Util | 10 | 0 | 9 | 1,343 | 1,362 | 0 | 0 | 0 | 71 | 1,942 | 10,713 |
| Wholesale Trade | 9 | 0 | 23 | 1,034 | 1,066 | 0 | 0 | 0 | 88 | 88 | 1,433 |
| Retail Trade | 8 | 1 | 12 | 877 | 898 | 6 | 0 | 5 | 426 | 437 | 1,154 |
| Finance, Ins. & Real Estate | 3 | 0 | 2 | 56 | 61 | 0 | 0 | 0 | 38 | 38 | 1,333 |
| Services | 4 | 0 | 13 | 1,036 | 1,053 | 2 | 0 | 1 | 1,508 | 1,511 | 2,564 |
| Public Administration | 3 | 0 | 1 | 192 | 196 | 0 | 0 | 0 | 54 | 54 | 250 |
| TOTAL | 87 | 2 | 228 | 15,924 | 16,241 | 9 | 0 | 44 | 4,140 | 4,193 | 20,434 |

Table 9 STATE OF IOWA

DISTRIBUTION OF REPORTED DISABLING INJURIES AND ILLNESSES ALL INDUSTRIES - BY NATURE OF INJURY OR ILLNESS 1977 - 1978

| | 19 | 77 | 19 | 78 |
|----------------------------------|--------|---------|--------|---------|
| | Number | Percent | Number | Percent |
| Amputation | 267 | 1.4% | 280 | 1.4% |
| Burns-heat & chemical | 665 | 3.6 | 757 | 3.7 |
| Contagious or infectious disease | 41 | .2 | 35 | .2 |
| Contusion, crushing or bruise | 2,672 | 14.4 | 2,796 | 13.7 |
| Cut, laceration or puncture | 2,940 | 15.9 | 3,193 | 15.6 |
| Dermatitis | 208 | 1.1 | 210 | 1.0 |
| Dislocation | 405 | 2.2 | 536 | 2.6 |
| Electric shock, electrocution | 27 | .2 | 25 | .1 |
| Fracture | 1,933 | 10.4 | 2,166 | 10.6 |
| Hernia | 321 | 1.7 | 354 | 1.7 |
| Inflammation or irritation | 400 | 2.2 | 450 | 2.2 |
| Scratches or abrasions | 491 | 2.7 | 531 | 2.6 |
| Sprains or strains | 6,922 | 37.4 | 7,958 | 39.0 |
| Other | 1,218 | 6.6 | 1,143 | 5.6 |
| TOTAL | 18,510 | 100.0% | 20,434 | 100.0% |

Table 10 STATE OF IOWA DISTRIBUTION OF REPORTED DISABLING INJURIES AND ILLNESSES ALL INDUSTRIES - BY PART OF BODY AFFECTED 1977 - 1978

| | 19 | 77 | 19 | 78 |
|-------------------------------------|---------|---------|---------|---------|
| | Number | Percent | Number | Percent |
| Head | 1,090 | 5.9% | 1,261 | 6.2% |
| (Eyes) | (529) | (2.9) | (603) | (3.0) |
| Neck | 254 | 1.4 | 279 | 1.4 |
| Upper Extremities | 5,601 | 30.3 | 6,050 | 29.6 |
| (Arms) | (1,042) | (5.6) | (1,160) | (5.7) |
| (Fingers) | (2,646) | (14.3) | (2,933) | (14.4) |
| Trunk | 6,588 | 35.6 | 7,324 | 35.8 |
| (Back) | (4,377) | (23.6) | (4,930) | (24.1) |
| Lower Extremities | 3,891 | 21.0 | 4,314 | 21.1 |
| (Legs) | (1,651) | (8.9) | (1,812) | (8.9) |
| (Feet) | (948) | (5.1) | (989) | (4.8) |
| Multiple parts | 703 | 3.8 | 831 | 4.1 |
| Body system | 336 | 1.8 | 332 | 1.6 |
| Body parts, n.e.c. and unclassified | 47 | .8 | 43 | . 2 |
| TOTAL | 18,510 | 100.0% | 20,434 | 100.0% |

Table 11 STATE OF IOWA

DISTRIBUTION OF REPORTED DISABLING INJURIES AND ILLNESSES ALL INDUSTRIES - BY SOURCE OF INJURY OR ILLNESS 1977 - 1978

| | 1977 | | 1978 | |
|-----------------------------------|--------|---------|--------|---------|
| | Number | Percent | Number | Percent |
| Bodily motion | 1,424 | 7.7% | 1,811 | 8.9% |
| Boxes, barrels & other containers | 1,549 | 8.4 | 1,974 | 9.7 |
| Chemicals | 176 | .9 | 230 | 1.1 |
| Hand toolsnot powered | 1,158 | 6.3 | 1,311 | 6.4 |
| Hand toolspowered | 311 | 1.7 | 357 | 1.7 |
| Hoisting apparatus | 142 | .8 | 161 | .8 |
| Ladders | 49 | .3 | 46 | .2 |
| Machines | 1,124 | 6.1 | 1,446 | 7.1 |
| Metal items | 3,253 | 17.6 | 3,105 | 15.2 |
| Particles (unidentified) | 192 | 1.0 | 198 | 1.0 |
| Vehicles | 1,077 | 5.8 | 1,236 | 6.0 |
| Wood items | 507 | 2.7 | 545 | 2.7 |
| Working surfaces | 2,800 | 15.1 | 2,885 | 14.1 |
| Other | 4,748 | 25.6 | 5,129 | 25.1 |
| TOTAL | 18,510 | 100.0% | 20,434 | 100.0% |

Table 12 STATE OF IOWA DISTRIBUTION OF REPORTED DISABLING INJURIES AND ILLNESSES ALL INDUSTRIES - BY TYPE OF ACCIDENT OR EXPOSURE 1977 - 1978

| | 1977 | | 1978 | |
|--|--------|---------|--------|---------|
| | Number | Percent | Number | Percent |
| Struck against | 1,342 | 7.3% | 1,457 | 7.1% |
| Struck by | 3,206 | 17.3 | 3,443 | 16.8 |
| Fall from elevation | 1,129 | 6.1 | 1,264 | 6.2 |
| Fall on same level | 2,234 | 12.1 | 2,261 | 11.1 |
| Caught in, under or between | 1,802 | 9.7 | 2,026 | 9.9 |
| Rubbed or abraded | 741 | 4.0 | 763 | 3.7 |
| Bodily reaction | 1,466 | 7.9 | 1,809 | 8.9 |
| Overexertion | 4,637 | 25.1 | 5,290 | 25.9 |
| Contact with electric current | 59 | .3 | 48 | .2 |
| Contact with temperature extremes | 513 | 2.8 | 587 | 2.9 |
| Contact with radiations, caustics, etc | 567 | 3.1 | 595 | 2.9 |
| Public transportation accidents | 3 | * | 0 | .0 |
| Motor-vehicle accidents | 321 | 1.7 | 323 | 1.6 |
| Other | 490 | 2.6 | 568 | 2.8 |
| TOTAL | 18,510 | 100.0% | 20,434 | 100.0% |

^{*} Less than .05.

Table 13 STATE OF IOWA

DISTRIBUTION OF REPORTED DISABLING INJURIES AND ILLNESSES AND EMPLOYMENT - BY INDUSTRY DIVISION 1977 - 1978

1977

| Industry Division | Employm | ent1/ | Injuries & Illnesses | | |
|-----------------------------------|-----------|---------|----------------------|---------|--|
| 111000217 217101011 | Number | Percent | Number | Percent | |
| Agric., Forestry & Fishing | 44,800 | 4.0% | 414 | 2.2% | |
| Mining | 2,500 | . 2 | 78 | .4 | |
| Construction | 57,100 | 5.1 | 2,070 | 11.2 | |
| Manufacturing | | 21.9 | 9,598 | 51.9 | |
| Transportation & Public Utilities | | 4.9 | 1,243 | 6.7 | |
| Wholesale Trade | 72,600 | 6.5 | 1,136 | 6.1 | |
| Retail Trade | 202,800 | 18.1 | 1,224 | 6.6 | |
| Finance, Ins. & Real Estate | 52,600 | 4.7 | 80 | .5 | |
| Services | 185,700 | 16.6 | 2,423 | 13.1 | |
| Public Administration | 202,500 | 18.0 | 244 | .3 | |
| TOTAL | 1,121,200 | 100.0% | 18,510 | 100.0% | |

| Industry Division | Employm | Employment1/ | | Illnesses |
|-----------------------------------|-----------|--------------|--------|-----------|
| Thursday Dividion | Number | Percent | Number | Percent |
| Agric., Forestry & Fishing | 41,800 | 3.7% | 403 | 2.0% |
| Mining | 2,300 | . 2 | 72 | .4 |
| Construction | 57,600 | 5.0 | 2,411 | 11.8 |
| Manufacturing | 249,700 | 21.8 | 10,713 | 52.4 |
| Transportation & Public Utilities | 55,800 | 4.9 | 1,433 | 7.0 |
| Wholesale Trade | | 6.3 | 1,154 | 5.6 |
| Retail Trade | 209,100 | 18.3 | 1,335 | 6.5 |
| Finance, Ins. & Real Estate | 55,200 | 4.8 | 99 | .5 |
| Services | 192,500 | 16.8 | 2,564 | 12,6 |
| Public Administration | 207,600 | 18.2 | 250 | 1.2 |
| TOTAL | 1,144,100 | 100.0% | 20,434 | 100.0% |

Annual average employment for nonfarm industries is based on the establishment survey conducted by the Iowa Department of Job Service in cooperation with the U.S. Department of Labor, Bureau of Labor Statistics. Annual average employment for the agriculture, forestry and fishing division is a composit of estimates from the establishment survey and estimates provided by the U.S. Department of Agriculture.

Table 14 STATE OF IOWA

NUMBER OF REPORTED DISABLING INJURIES AND ILLNESSES BY COUNTY OF OCCURRENCE

1977 - 1978

| COUNTY. | 1977 | 1978 |
|-------------|--------|-------------------|
| Adair | 36 | 25 |
| Adams | 7 | 10 |
| Allamakee | 59 | 50 |
| Appanoose | 40 | 44 |
| Audubon | 100000 | 24 |
| Benton | | 109 |
| Black Hawk | | The second second |
| | 1,979 | 1,696 |
| Boone | 295 | 273 |
| Bremer | | 62 |
| Buchanan | 72 | 59 |
| Buena Vista | 151 | 140 |
| Butler | | 53 |
| Calhoun | 32 | 45 |
| Carroll | 72 | 114 |
| Cass | 57 | 60 |
| Cedar | 61 | 42 |
| Cerro Gordo | 317 | 392 |
| Cherokee | 342 | 339 |
| Chickasaw | 111 | 131 |
| Clarke | | 50 |
| | | 128 |
| Clayton | | |
| Clayton | | 131 |
| Clinton | | 233 |
| Crawford | | 201 |
| Dallas | | 146 |
| Davis | | 22 |
| Decatur | | 24 |
| Delaware | | 188 |
| Des Moines | | 235 |
| Dickinson | 90 | 68 |
| Dubuque | 683 | 818 |
| Emmet | 65 | 93 |
| Fayette | 121 | 99 |
| Floyd | | 128 |
| Franklin | | 81 |
| Fremont | | 22 |
| Greene | 63 | 69 |
| Grundy | 9.7 | 62 |
| Guthrie | | 54 |
| Hamilton | | 108 |
| Hancock | 32 | 44 |
| Hardin | 126 | 133 |
| Harrison | 37 | 36 |
| | 94 | 97 |
| Henry | 31 | 33 |
| Howard | | |
| Humboldt | 48 | 60 |
| Ida | 22 | 22 |
| Iowa | 117 | 99 |
| Jackson | 101 | 104 |
| Jasper | 151 | 219 |

| To our to the same of the same | 1 | |
|--|--|--------|
| COUNTY | 1977 | 1978 |
| Jefferson | | 132 |
| Johnson | | 434 |
| Jones | | 93 |
| Keokuk | | 41 |
| Kossuth | The second second | 117 |
| Lee | | 575 |
| Linn | The second secon | 1,815 |
| Louisa | 555 | 29 |
| Lucas | | 92 |
| Lyon | | 24 |
| Madison | | 29 |
| Mahaska | 172 | 173 |
| Marion | 123 | 186 |
| Marshall | 418 | 513 |
| Mills | 140 | 155 |
| Mitchell | 31 | 39 |
| Monona | 31 | 24 |
| Monroe | 61 | 68 |
| Montgomery | 28 | 44 |
| Muscatine | 398 | 390 |
| 0'Brien | 44 | 43 |
| Osceola | 18 | 16 |
| Page | 58 | 70 |
| Palo Alto | 26 | 34 |
| Plymouth | 65 | 68 |
| Pocahontas | 42 | 45 |
| Polk | 2,720 | 3,475 |
| Pottawattamie | | 460 |
| Poweshiek | 94 | 137 |
| Ringgold | 9 | 5 |
| Sac | 60 | 102 |
| Scott | 750 | 830 |
| Shelby | 34 | 25 |
| Sioux | 95 | 132 |
| Story | 349 | 381 |
| Tama | 59 | 68 |
| Taylor | 17 | 23 |
| Union | 39 | 49 |
| Van Buren | 24 | 18 |
| Wapello | 302 | 344 |
| Warren | | 56 |
| Washington | 109 | 171 |
| Wayne | 13 | 20 |
| Webster | 466 | 492 |
| Winnebago | 153 | 138 |
| Winneshiek | 58 | 56 |
| Woodbury | 555 | 627 |
| Worth | 23 | 23 |
| Wright | 69 | 78 |
| TOTAL | 18,510 | 20,434 |

Technical Notes

Reporting Requirements

Regulations issued under the Iowa Occupational Safety and Health Act require employers to report to the Iowa Bureau of Labor all occupational injuries or occupational illnesses that result in two or more lost workdays. State of Iowa Form No. L-1/WC-1 is to be used, and is to be filed with the Bureau of Labor as early as practicable but no later than six working days after receiving information that an occupational injury or illness will result in two or more lost workdays. Copies of the Supplementary Record of Occupational Injuries and Illnesses are acceptable reports.

In addition, employers must report to the Iowa Commissioner of Labor within 48 hours each accident or health hazard that results in one or more fatalities or hospitalization of five or more employees.

Scope of the Data

The accompanying tables represent first report data for calendar years 1977 and 1978 for fatalities and those cases involving two or more lost workdays submitted to the Iowa Bureau of Labor by employers as required by the Iowa Occupational Safety and Health Act. The day of injury is not included in determining the number of lost workdays. The count of lost workdays includes all days (consecutive or not) on which, because of the injury or illness: 1) the employee would have worked, but could not, or 2) the employee was assigned to a temporary job, or 3) the employee worked at a permanent job less than full time, or 4) the employee worked at a permanently assigned job but could not perform all duties normally assigned to it.

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. There are no limitations of coverage based on employment-size of the establishment nor on injury or illness types. Self-employed persons and partners of unincorporated firms, however, are not included. Government totals shown include occupational injuries and illnesses for State and local government workers. Federal employers are not required to report to the Iowa Bureau of Labor.

Industrial Classification

Industrial classification conforms to the definitions included in the Standard Industrial Classification Manual (SIC), 1972 Edition, prepared by the Statistical Policy Division of the Office of Management and Budget.

In the 1972 Edition of the SIC Manual, "government" was removed as an industry division and is treated as an ownership characteristic. Government establishments, therefore, are classified in the accompanying tables by their primary economic activity rather than by type of ownership.

Coding of Injury or Illness Characteristics

Occupational injuries and illnesses reported to the Iowa Bureau of Labor were coded for their characteristics according to the "American National Standard Method of Recording Basic Facts Relating to the Nature and Occurrence of Work Injuries", ANSI Z16.2-1962 (R 1969).

Federal-State Cooperation

Work injury and illness data are collected, coded, and tabulated by the Iowa Bureau of Labor in cooperation with the U. S. Department of Labor, Bureau of Labor Statistics as part of the Supplementary Data System. The Supplementary Data System is a means of securing information about the factors associated with accidents and exposures in the workplace. Such information is useful in helping direct measures to reduce the incidence of occupational injuries and illnesses.

Work-related Fatalities in Iowa

During the 1977-1978 biennium, 246 workers covered by the Iowa Occupational Safety and Health Act died as a result of job-related causes (see Table 15). Of these, 132 died in 1977 and 114 lost their lives in 1978. An average of 1 out of every 10,000 Iowa workers died as a result of work-related causes (see Tables 18 and 19). The majority of the fatalities involved male workers. However, 18 women died in the course of their employment, 7 in 1977 and 11 in 1978.

The average age of the workers that died in 1977 due to occupational injuries or illnesses was 40. The youngest Iowan who lost his life while on the job in 1977 was 15 and the oldest was 74. In 1978, the average age of the reported fatal cases was 41, with the ages of the deceased ranging from 14 to 76.

Only those fatalities that occur in the face of existing occupational safety and health standards and under conditions subject to inspection are considered controllable. There were 62 employee deaths of this type in 1977 and 59 in 1978 (see Table 16). Crushing injuries, electrocution, and suffocation caused two-thirds of the so-called controllable deaths in the 1977-1978 period. Nearly 85 percent of the employee fatalities that were considered not controllable were caused by vehicle accidents or heart attacks suffered while on the job.

By industry division, the greatest number of deaths during the 1977-1978 biennium, 48, occurred in construction (see Table 17). Fortythree persons employed in the transportation and public utilities division lost their lives during the report period. The manufacturing industries recorded 35 worker deaths while the agriculture, forestry, and fishing and the wholesale trade industry divisions each accounted for 26 of the employee fatalities. During the 1977-1978 biennium, just over 13 percent of the total number of reported deaths were sustained by government employees. Thirty-three State and local government workers died of work-related causes during the two years.

The Appendix contains a listing of each employee fatality that occurred in Iowa in 1977 and 1978. Included with each is a brief summary of the events leading to the death, the cause of death, the workers age and occupation, and the industry in which he or she was employed. The information is provided to illustrate the continued need for emphasis on job safety and health by both employers and employees.

Table 15 STATE OF IOWA WORK RELATED EMPLOYEE DEATHS BY INDUSTRY DIVISION 1977 - 1978

| | 1 | 977 | 1 | 1978 | | Total 1977-1978 | |
|------------------------------------|-------------|--------------|-------------|--------------|-------------|--------------------|--|
| Industry Division | Num- ber | Per- cent | Num- ber | Per- cent | Num- ber | Per- | |
| | DCI | CCITE | Der | Cent | Der | Cent | |
| Agriculture, Forestry & Fishing | 14 | 10.6% | 12 | 10.5% | 26 | 10.6% | |
| Mining | 1 | .8 | 4 | 3.5 | 5 | 2.0 | |
| Construction | 27 | 20.4 | 21 | 18.4 | 48 | 19.5 | |
| Manufacturing | 19 | 14.4 | 16 | 14.0 | 35 | 14.2 | |
| Transportation & Public Utilities. | 21 | 15.9 | 22 | 19.3 | 43 | 17.5 | |
| Wholesale Trade | 17 | 12.9 | 9 | 7.9 | 26 | 10.6 | |
| Retail Trade | 5 | 3.8 | 14 | 12.3 | 19 | 7.7 | |
| Finance, Ins. & Real Estate | 2 | 1.5 | 2 | 1.8 | 4 | 1.6 | |
| Services | 5 | 3.8 | 2 | 1.8 | 7 | 2.9 | |
| Government | 21 | 15.9 | 12 | 10.5 | 33 | 13.4 | |
| TOTAL | 132 | 100.0% | 114 | 100.0% | 246 | 100.0% | |

Table 16 STATE OF IOWA WORK RELATED EMPLOYEE FATALITIES BY CAUSE OF DEATH 1977 - 1978

| | 19 | 977 | 1978 | | | Total 77-1978 |
|---------------------------------|---------------|----------|-------------|---|-----------------|------------------|
| Cause of Death | Num- | Per- | Num- | Per- | Num- | Per- |
| | ber | cent | ber | cent | ber | cent |
| Subject to IOSHA/OSHA control: | 1-5 | | | partit si | | I Alle |
| Crushing injuries | 24 | 18.2% | 19 | 16.7% | 43 | 17.5% |
| Electrocution | 11 | 8.3 | 11 | 9.7 | 22 | 8.9 |
| Suffocation | 2 | 1.5 | 14 | 12.3 | 16 | 6.5 |
| Falls | 8 | 6.1 | 4 | 3.5 | 12 | 4.9 |
| Struck by object | 6 | 4.5 | 4 | 3.5 | 10 | 4.1 |
| Caught in, under or between | 4 | 3.0 | 3 | 2.6 | 7 | 2.8 |
| Drowning | 2 | 1.5 | 3 | 2.6 | 5 | 2.0 |
| Poisoning | 3 | 2.3 | = | = | 3 | 1.2 |
| Burns | 2 | 1.5 | - | C - B | 2 | .8 |
| Explosion | = | Ming - 1 | _1 | 9 | 1 | 4 |
| | 62 | (46.9) | 59 | (51.8) | 121 | (49.1) |
| Not controllable by IOSHA/OSHA: | | | | | | |
| Vehicle accident | 35 | 26.5 | 34 | 29.8 | 69 | 28.1 |
| Heart attack | 20 | 15.2 | 17 | 14.9 | 37 | 15.0 |
| Gun shot | 5 | 3.8 | 3 | 2.6 | 8 | 3.3 |
| Air crash | 8 | 6.1 | 2,-0 | · | 8 | 3.3 |
| Other medical & health cond | $\frac{8}{2}$ | 1.5 | <u>1</u> 55 | 9 | <u>3</u> 125 | 1.2 |
| | 70 | (53.1) | 55 | (48.2) | 125 | (50.9) |
| TOTAL | 132 | 100.0% | 114 | 100.0% | 246 | 100.0% |

Table 17 STATE OF IOWA DISTRIBUTION OF WORK RELATED EMPLOYEE DEATHS AND EMPLOYMENT - BY INDUSTRY DIVISION 1977 - 1978

1977

| Industry Division | Employn | ent1/ | Deaths | | |
|--|-----------|---------|--------|---------|--|
| THE STATE OF THE S | Number | Percent | Number | Percent | |
| Agric., Forestry & Fishing | 44,800 | 4.0% | 14 | 10.6% | |
| Mining | 2,500 | .2 | 1 | .8 | |
| Construction | 57,100 | 5.1 | 27 | 20.4 | |
| Manufacturing | 245,600 | 21.9 | 19 | 14.4 | |
| Transportation & Public Utilities | 55,000 | 4.9 | 21 | 15.9 | |
| Wholesale Trade | 72,600 | 6.5 | 17 | 12.9 | |
| Retail Trade | 202,800 | 18.1 | 5 | 3.8 | |
| Finance, Ins. & Real Estate | 52,600 | 4.7 | 2 | 1.5 | |
| Services | 185,700 | 16.6 | 5 | 3.8 | |
| Government | 202,500 | 18.0 | 21 | 15.9 | |
| TOTAL | 1,121,200 | 100.0% | 132 | 100.0% | |

1978

| Industry Division | Employn | ment1/ | Deaths | | |
|-----------------------------------|-----------|---------|--------|---------|--|
| | Number | Percent | Number | Percent | |
| Agric., Forestry & Fishing | 41,800 | 3.7% | 12 | 10.5% | |
| Mining | 2,300 | .2 | 4 | 3.5 | |
| Construction | 57,600 | 5.0 | 21 | 18.4 | |
| Manufacturing | 249,700 | 21.8 | 16 | 14.0 | |
| Transportation & Public Utilities | 55,800 | 4.9 | 22 | 19.3 | |
| Wholesale Trade | 72,500 | 6.3 | 9 | 7.9 | |
| Retail Trade | 209,100 | 18.3 | 14 | 12.3 | |
| Finance, Ins. & Real Estate | 55,200 | 4.8 | 2 | 1.8 | |
| Services | 192,500 | 16.8 | 2 | 1.8 | |
| Government | 207,600 | 18.2 | 12 | 10.5 | |
| TOTAL | 1,144,100 | 100.0% | 114 | 100.0% | |

1977 - 1978

| Industry Division | Employn | ent1/ | Deaths | | |
|-----------------------------------|-----------|---------|--------|---------|--|
| | Number | Percent | Number | Percent | |
| Agric., Forestry & Fishing | 43,300 | 3.8% | 26 | 10.6% | |
| Mining | 2,400 | .2 | 5 | 2.0 | |
| Construction | 57,350 | 5.1 | 48 | 19.5 | |
| Manufacturing | 247,650 | 21.9 | 35 | 14.2 | |
| Transportation & Public Utilities | 55,400 | 4.9 | 43 | 17.5 | |
| Wholesale Trade | 72,550 | 6.4 | 26 | 10.6 | |
| Retail Trade | 205,950 | 18.2 | 19 | 7.7 | |
| Finance, Ins. & Real Esate | 53,900 | 4.7 | 4 | 1.6 | |
| Services | 189,100 | 16.7 | 7 | 2.9 | |
| Government | 205,050 | 18.1 | 33 | 13.4 | |
| TOTAL | 1,132,650 | 100.0% | 246 | 100.0% | |

Annual average employment for nonfarm industries is based on the establishment survey conducted by the Iowa Department of Job Service in cooperation with the U. S. Department of Labor, Bureau of Labor Statistics. Annual average employment for the agriculture, forestry and fishing division is a composit of estimates from the establishment survey and estimates provided by the U. S. Department of Agriculture.

Table 18
STATE OF IOWA
INDUSTRY RANKING BASED ON
REPORTED WORK RELATED DEATHS
1977

| Industry | Rank1/ | Number of Deaths | Deaths per 10,000 Employees |
|---|--|------------------------|-----------------------------------|
| Bituminous coal and lignite mining | 1 | 1 | 80.65 |
| Water transportation | 2 | 1 | 78.13 |
| Petroleum and coal products-mfg | 3 | 1 | 47.62 |
| Transportation by air | 4 | 3 | 28.09 |
| Heavy construction contractors | | 13 | 14.12 |
| Transportation services | | 1 | 11.11 |
| Agricultural services | | 2 | 6.97 |
| Local and interurban passenger transit | 8 | 1 | 5.96 |
| Insurance agents, brokers and service | | 2 | 4.47 |
| Trucking and warehousing | | 8 | 4.22 |
| Miscellaneous repair services | The second secon | 1 | 3.93 |
| Special trade contractors | | 11 | 3.86 |
| Railroad transportation | | 3 | 3.49 |
| Electric, gas, and sanitary services | | 4 | 3.48 |
| Agricultural production, crops | The state of the s | 12 | 3.21 |
| Stone, clay, and glass products-mfg | | 2 | 2.54 |
| Wholesale trade, nondurable goods | 17 | 9 | 2.38 |
| Wholesale trade, durable goods | 18 | 8 | 2.32 |
| Transportation equipment-mfg | | 2 | 2.03 |
| Lumber and wood products-mfg | | 1 | 1.86 |
| General building contractors | | 3 | 1.61 |
| State government | 100000 | 8 | 1.60 |
| Food and kindred products-mfg | | 7 | 1.43 |
| Primary metal industries-mfg | | 1 | 1.23 |
| Membership organizations | | 1 | 1.09 |
| Automotive dealers and service stations | 26 | 3 | .98 |
| Local government | 27 | 13 | .97 |
| Hotels and other lodging places | | 1 | .96 |
| Personal services | 2007/2017 | 1 | .95 |
| Electric and electronic equipment-mfg | (全長) | 2 | .80 |
| Building materials and garden supplies-retail | 31 | 1 | .74 |
| Business services | 32 | 1 | .58 |
| Miscellaneous retail stores | | 1 | .53 |
| Fabricated metal products-mfg | 2.0 | 1 | .50 |
| Machinery, except electrical-mfg | 35 | 2 | .32 |
| TOTAL - All industries | | 132 | 1.18 |

^{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 fatalities are indicated results from a low employment level in the industry.

Table 19
STATE OF IOWA
INDUSTRY RANKING BASED ON
REPORTED WORK RELATED DEATHS
1978

| | - 1 | Number | Deaths |
|--|--------|--------|------------|
| Industry | Rank1/ | of | per 10,000 |
| | | Deaths | Employees |
| Water transportation | 1 | 1 | 78.13 |
| Petroleum and coal products-mfg | 2 | 1 | 47.62 |
| Mining of nonmetallic minerals, except fuels | 3 | 4 | 17.86 |
| Trucking and warehousing | 4 | 14 | 7.39 |
| Agricultural services | 5 | 2 | 6.97 |
| Heavy construction contractors | 6 | 6 | 6.52 |
| Paper and allied products-mfg | 7 | 2 | 5.00 |
| General building contractors | 8 | 9 | 4.83 |
| General merchandise stores | 9 | 11 | 3.90 |
| Instruments and related products-mfg | 10 | 1 | 3.68 |
| Railroad transportation | 11 | 3 | 3.49 |
| Electric, gas, and sanitary services | 12 | 4 | 3,48 |
| Agricultural production, crops | 13 | 9 | 2.59 |
| Apparel and other textile products-mfg | 14 | 1 | 2.46 |
| Agricultural production, livestock | 15 | 1 | 2.33 |
| Special trade contractors | 16 | 6 | 2.11 |
| Lumber and wood products-mfg | 17 | 1 | 1.86 |
| Wholesale trade, durable goods | 18 | 6 | 1.74 |
| Real estate | 19 | 1 | 1.48 |
| Miscellaneous services | 20 | 1 | 1.37 |
| Stone, clay, and glass products-mfg | 21 | 1 | 1.27 |
| Printing and publishing-mfg | 22 | 2 | 1.23 |
| Social services | 23 | 1 | .93 |
| Food and kindred products-mfg | 24 | 4 | .82 |
| Wholesale trade, nondurable goods | 25 | 3 | .79 |
| Local government | 26 | 10 | .75 |
| Banking | 27 | 1 | .60 |
| Fabricated metal products-mfg | 28 | 1 | .50 |
| State government | 29 | 2 | .40 |
| Electric and electronic equipment-mfg | 30 | 1 | .39 |
| Food stores | 31 | 1 | .34 |
| Automotive dealers and service stations | 32 | 1 | .33 |
| Machinery, except electrical-mfg | 33 | 1 | .16 |
| Eating and drinking places | 34 | 1 | .15 |
| TOTAL - All industries | | 114 | 1.00 |

^{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 fatalities are indicated results from a low employment level in the industry.

Table 20 MATERIALS AVAILABLE FROM THE RESEARCH AND STATISTICS DIVISION OF THE IOWA BUREAU OF LABOR

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

| <u>Items Available</u> | Number Distributed 1977-1978 |
|--|------------------------------------|
| Booklet, "Recordkeeping Requirements under the Occupational Safety and Health Act of 1970." | 10,292 |
| OSHA Form No. 100, "Log of Occupational Injuries and Illnesses." (Replaced by OSHA Form No. 200 as of January 1, 1978.) | 14,347 |
| Iowa Form No. L-1/WC-1 "Employers Work Injury Report." (Substitute for OSHA Form No. 101, Supplementary Record of Occupational Injuries and Illnesses." | 161,691 |
| OSHA Form No. 102, "Summary, Occupational Injuries and Illnesses." (Replaced by OSHA Form No. 200 as of January 1, 1978.) | 11,151 |
| OSHA Form No. 200, "Log and Summary of Occupational Injuries and Illnesses." (Replaced OSHA Forms No. 100 and No. 102 as of January 1, 1978.) | 21,429 |
| IOSH Form 30, Poster, "Safety and Health Protection on the Job." (Available in English or Spanish.) | 15,637 |
| BLS Report 412, "What Every Employer Needs to Know about OSHA Recordkeeping." | 757 |
| Iowa "Recordkeeping, Reporting and Posting Requirement Handbook." | 1,969 |
| "A Guide to Evaluating Your Firm's Injury and Illness Experience." (Separate guides are available for the following industries: Construction; Manufacturing; Transportation and Public Utilities; Wholesale and Retail Trade; and Services.) | 2,125 |

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

WAGE AND WORKPLACE STANDARDS DIVISION



Michael J. Burdette Director



Olga Duran Administrative Assistant II



Gloria Gile Clerk Typist II



Arlene Kockler Secretary I

The Wage and Workplace Standards Division is responsible for administering and enforcing six laws affecting the employment conditions of individuals within the State. Under the provisions of the Iowa Wage Payment Collection Law, Chapter 91A, Code of Iowa, the Division investigates complaints for unpaid wages received from employees, and if a determination is made that the claim is enforceable, the Division attempts to settle the matter with the aggrieved employee and employer. If a settlement is not effected, suit is filed against the employer to effect collection and enforce the provisions of the statute.

Under the provisions of the Iowa Child Labor Law, Chapter 92, Code of Iowa, the Division investigates complaints and reported work-related injuries involving the employment of children under eighteen years of age. The Division also advises and assists child work permit issuing officers with the local schools and Job Service of Iowa offices in properly issuing work permits to children within the scope and limitations of the Child Labor Law.

Pursuant to Chapters 94 and 95, Code of Iowa, Iowa's Private Employment Agency Licensing Laws, the Division assists the State Employment Agency License Commission in licensing and regulating private employment agencies operating within the State of Iowa. The Division insures that each agency complies with the statutes and administrative rules, and investigates and resolves complaints from affected employees and employers against private employment agencies.

The Division is also responsible for inspecting temporary labor camps located within the state for compliance with the regulations adopted under the Iowa Occupational Safety and Health Act, Chapter 88, Code of Iowa. Each camp is inspected to insure that occupants are receiving adequate living and sanitary facilities.

Under Section 327F.37, Code of Iowa, the Division inspects the temporary living and sanitary facilities provided by railroads for their employees who must travel and work in the state.

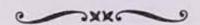


Table 1
STATE OF IOWA
REPORT OF LICENSES ISSUED
AND FEES COLLECTED
PRIVATE EMPLOYMENT AGENCIES
FISCAL YEARS 1977-19781/

| | FY 1977 | FY 1978 | Total 1977 & 1978 |
|--|------------|------------|----------------------|
| Number of licenses issued License fees collected2/ | 71 | 89 | 160 |
| | \$3,550.00 | \$4,450.00 | \$8,000.00 |

^{1/} July 1, 1976, through June 30, 1977, and July 1, 1977, through June 30, 1978.

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

Table 2
STATE OF IOWA
WAGE COLLECTION CASES INITIATED
ON BEHALF OF CLIENTS
FISCAL YEAR 1977

| | July 1, 1976 | - June 30, 197 |
|-------------------------------------|--------------|----------------|
| Activity | Number | Amount |
| | of Claims | Claimed |
| Information Requests1/ | 1,555 | |
| Invalid Claims2/ | 54 | |
| Wage Claims Received and Docketed3/ | 760 | \$329,858.05 |
| Claims Denied4/ | 195 | 85,087.28 |
| Uncollectable5/ | 42 | 7,255.65 |
| Claims Settled Before Petition6/ | 250 | 47,137.40 |
| Claims Settled After Petition7/ | 24 | 4,220.19 |
| Court Actions | | |
| Petitions Filed8/ | 170 | 70,121.91 |
| Dismissals9/ | 8 | 2,376.68 |
| Judgements10/ | 35 | 34,938.92 |
| Satisfied11/ | 20 | 4,037.59 |
| Unsatisfied12/ | 22 | 4,780.36 |
| Total Collections 13/ | 294 | 55,401.20 |
| Active Cases 14/ | 355 | 246,686.01 |

See footnotes following Table 3.

Table 3
STATE OF IOWA
WAGE COLLECTION CASES INITIATED
ON BEHALF OF CLIENTS
FISCAL YEAR 1978

| Activity | July 1, 1977 Number of Claims | - June 30, 1978 Amount Claimed |
|-------------------------------------|-------------------------------------|--------------------------------------|
| Information Requests1/ | 1,521 | |
| Invalid Claims2/ | 57 | and introduction |
| Wage Claims Received and Docketed3/ | 808 | \$357,469.36 |
| Claims Denied4/ | 248 | 110,711.72 |
| Uncollectable 5/ | 39 | 18,432.49 |
| Claims Settled Before Petition 6/ | 330 | 79,994.78 |
| Claims Settled After Petition 7/ | 73 | 17,207.53 |
| Court Actions | Lettert staffy | |
| Petitions Filed8/ | 145 | 65,743.80 |
| Dismissals9/ | 8 | 1,694.00 |
| Judgements10/ | 49 | 32,472.17 |
| Satisfied 11/ | 21 | 7,950.75 |
| Unsatisfied 12/ | 28 | 31,023.55 |
| Total Collections 13/ | 424 | 105,147.05 |
| Active Cases 14/ | 416 | 337,140.55 |

See footnotes following Table 3.

STATE OF IOWA WAGE COLLECTION CASES INITIATED ON BEHALF OF CLIENTS FISCAL YEARS 1977 & 1978 FOOTNOTES Tables 2 & 3

- 1/ Information Requests Number of wage complaint forms given to potential complainants.
- 2/ Invalid Claims Those complaints that are deficient on the face of the form.
- Wage Claims Received and Docketed Complaints that appear to be valid. Therefore, an attempt to contact the employer is made to elicit a statement of the employer's position.
- 4/ Claims Denied Encompasses all reasons for denying a complaint, except a failure to locate the employer, employer insolvency, or a dismissal of a suit.
- 5/ Uncollectable Claims that are denied because of our inability to locate the employer or because of the insolvency of the employer.
- 6/ Claims Settled Before Petition All complaints upon which payment is received prior to filing suit.
- 7/ Claims Settled After Petition All complaints upon which payment is received subsequent to filing suit.
- 8/ Petitions Filed Number of lawsuits filed.
- 9/ Dismissals Lawsuits dismissed after hearing by the court.
- 10/ Judgements Lawsuits won by default or after hearing.
- 11/ Satisfied Judgements that are collected.
- 12/ Unsatisfied Judgements that are not collected.
- 13/ Total collections represent all cases for which monies have been collected on behalf of the complainant.
- 14/ Cases unresolved as of the fiscal year shown.

Table 4 STATE OF IOWA NUMBER OF CERTIFICATES OF AGE, WORK PERMITS, STREET TRADES PERMITS, AND MIGRANT WORK PERMITS BY MONTH 1977

| | Certificates of Age <u>l</u> / | Work Permits2/ | Street Trades Permits3/4/ | Migrant Work Permits5/ | Total Permits & Certificates |
|-----------|-----------------------------------|-------------------|------------------------------|---------------------------------------|---------------------------------|
| January | 252 | 167 | 271 | To True | 690 |
| February | 178 | 245 | 292 | | 716 |
| March | 249 | 280 | 284 | terres to be form | 713 |
| April | 259 | 386 | 276 | | 921 |
| May | 520 | 485 | 317 | | 1,322 |
| June | 2,011 | 2,488 | 466 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 4,975 |
| July | 715 | 565 | 315 | 17 | 2,130 |
| August | 401 | 556 | 437 | 23 | 1,417 |
| September | 763 | 415 | 400 | 24 | 1,602 |
| October | 345 | 359 | 295 | 0 | 999 |
| November | 235 | 391 | 317 | 7 | 950 |
| December | 154 | 140 | 188 | 0 | 482 |
| TOTAL | 6,082 | 6,477 | 3,858 | 71 | 16,917 |

^{1/} Ages 16 and above.

^{2/} Ages 14 and 15.

^{3/} Ages 10 to 16.

^{4/} Newscarriers.

^{5/} Migrant Laborers. Data not available prior to July 1, 1977.

Table 5
STATE OF IOWA
NUMBER OF CERTIFICATES OF AGE,
WORK PERMITS, STREET TRADES PERMITS,
AND MIGRANT WORK PERMITS
BY MONTH
1978

| Month | Certificates of Age1/ | Work Permits2/ | Street Trades Permits3/4/ | Migrant Work Permits <u>5</u> / | Total Permits & Certificates |
|-----------|--------------------------|-------------------|------------------------------|------------------------------------|---------------------------------|
| January | 182 | 151 | 255 | 0 | 588 |
| February | 345 | 359 | 295 | 0 | 999 |
| March | 402 | 391 | 383 | 0 | 1,176 |
| April | 469 | 410 | 454 | 0 | 1,333 |
| May | 306 | 351 | 295 | 0 | 952 |
| June | 2,137 | 2,407 | 592 | 5 | 5,141 |
| July | 238 | 250 | 153 | 0 | 641 |
| August | 883 | 1,244 | 490 | 18 | 2,635 |
| September | 615 | 322 | 315 | 0 | 1,252 |
| October | 569 | 353 | 357 | 0 | 1,279 |
| November | 418 | 326 | 268 | 0 | 1,012 |
| December | 167 | 184 | 188 | 0 | 539 |
| TOTAL | 6,731 | 6,748 | 4,045 | 23 | 17,547 |

^{1/} Age 16 and above.

^{2/} Ages 14 and 15.

^{3/} Ages 10 to 16.

^{4/} Newscarriers.

^{5/} Migrant Laborers.

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APPENDIX

STATE OF IOWA SUMMARY OF WORK RELATED DEATHS

1977 and 1978

APPENDIX

STATE OF IOWA SUMMARY OF WORK RELATED DEATHS 1977

| No. | Date | Industry | Occupation | Age | Cause of Death |
|----------|--|---|--|----------|--------------------------------------|
| 1. | 1- 5-77 | Trucking & Warehousing | Courier Guard | 47 | Vehicle Accident |
| | The empl | oyee's vehicle crossed the cente | er line on the road | and st | ruck a truck. |
| 2. | 1-13-77 | Transportation Services | Laborer | 34 | Poisoning |
| | The state of the s | oyee was overcome by sulphur fun tank car. | | he ins | ide of a |
| 3. 4. | 1-14-77 1-14-77 | State Government State Government | Hwy. Eng. Trainee Hwy. Eng. Trainee | 23 23 | Vehicle Accident Vehicle Accident |
| | causing | t wheel of the employee's vehicl the car to spin around facing the he car was then struck by anothe enger. | ne opposite directio | n in t | he other |
| 5. | 1-14-77 | Wholesale Trade-Nondurables | Truck Driver | 62 | Heart Attack |
| | | oyee was waiting to pick up a lo n to a hospital where he died th | | became | ill. He |
| 6. | 1-20-77 | Heavy Construction Contr. | Owner | 60 | Crushed |
| | | im was putting new cleats on a t n (digger part) of the machine. | rencher when he beca | ame en | tangled in |
| 7. | 1-21-77 | Local Government | Volunteer Fireman | 51 | Heart Attack |
| | The empl | oyee was at the fire station ans | wering a fire call w | when he | e collapsed |
| 8. | 1-24-77 | Local/Interurban Pass. Transp. | School Bus Driver | 22 | Vehicle Accident |
| | The empl | oyee's bus was struck by another way. | vehicle that had fa | niled t | o yield the |

No. Date Industry

9. 2- 4-77 Food & Kindred Prod.

The employee developed a hernia on 11-8-76. He underwent surgery to repair the hernia in January of 1977. He died 2-4-77 as a result of complications

- 10. 2-8-77 Food & Kindred Prod. Depot Serviceman 42 Crushed

 The employee was outside his truck and was in the process of unloading feed.

 The customer backed up his pickup truck and crushed the employee between the two trucks.
- 11. 2-10-77 Special Trade Contr. Apprentice Elect. NR Fall

 The employee apparently fell off a permanently affixed ladder while doing electrical installation. The accident occurred on 1-4-77 and he died on 2-10-77 of head injuries.
- 12. 2-17-77 Food & Kindred Prod. Manager 64 Air Crash

 The employee was a passenger in a private plane which crashed while landing after striking electrical lines.
- 13. 2-21-77 General Building Contr. Millwright Worker 23 Fall

 The employee was working on a scaffold when a scaffold support broke causing him to fall 60 feet to a concrete floor.
- 14. 2-22-77 Agricultural Prod.-Crops Laborer 50 Crushed

 The employee was operating a tractor which overturned on him. He was injured on 2-14-77 and died on 2-22-77.
- 15. 3- 2-77 Transportation Equipment President 42 Crushed

 The employee was working on a dump truck when the box fell pinning him between the box and the cab of the truck.

NR = Not Reported

from the surgery.

| No. | Date | Industry | Occupation | Age | Cause of Death |
|-------------------|-------------------------------|--|---|--------|------------------|
| 16. | 3- 7-77 | Auto. Dealers & Svc. Stations | Oil Jobber | 40 | Vehicle Accident |
| | | oyee was delivering fuel oil who into a ditch and overturn. | en he lost control o | f his | truck causing |
| 17. | 3-10-77 | Food & Kindred Prod. | Truck Driver | 28 | Vehicle Accident |
| | | oyee was delivering a load of for truck at an intersection. | eed when his truck co | ollide | ed with |
| 18. | 3-15-77 | Agricultural ProdCrops | Farm Employee | 26 | Vehicle Accident |
| | vehicle | oyee was making a left turn when which was passing in the interse and he died on 3-15-77. | | | |
| 19. | 3-16-77 | Trucking & Warehousing | Owner-Operator | 46 | Vehicle Accident |
| | | oyee's truck went off the roadwa another ditch. The employee wa | | | |
| 20. | 3-17-77 | Food & Kindred Prod. | Laborer | 54 | Vehicle Accident |
| | | oyee was returning from the course accident. He was injured on 3 | | | |
| 21. 22. 23. | 3-19-77 3-19-77 3-19-77 | Machinery, Exc. Electrical Transportation by Air Business Services | Lead App. Engineer Chief Flight Instr. Salesman | 32 | |
| | The pilo | t and both passengers were kille | ed when their aircraf | t cra | shed. |
| 24. | 3-22-77 | Food & Kindred Prod. | Drier Operator | 49 | Burns |
| | explosio | 77 a dust explosion occurred in ons in the starch drier area wher burns over 85% of his body. He | e the employee was w | | |

| No. | <u>Date</u> <u>Industry</u> | Occupation | Age | Cause of Death |
|-------|--|--|-----------------|-------------------------|
| 25. | 3-30-77 State Government | Reprod. Equip. Opr | . 61 | Heart Attack |
| | The employee suffered a heart attack who to lunch. | nile walking down a h | | NAME OF TAXABLE PARTY. |
| 26. | 4-12-77 Miscellaneous Retail | Labor | 16 | Crushed |
| | The employee was pulling a tank behind knifed, the employee disconnected it in The tank rolled into a ditch, carrying onto the employee, crushing him. | an attempt to strai | ghten | it out. |
| 27. | 4-13-77 Local Government | Night Watchman | 67 | Heart Attack |
| | The employee died of a heart attack whi | le on duty. | | |
| 28. | 4-13-77 Trucking & Warehousing | Truck Driver | 55 | Fall . |
| | The employee fell from his truck striki | ng his head on the pa | avemen | it. |
| 29. | 4-18-77 Special Trade Contr. | Labor | 28 | Crushed |
| | The employee was preparing to construct a two story barn. A support beam broke baled hay to collapse on the employee. | | | |
| 30. | 4-20-77 Wholesale Trade-Nondurables | Dist. Sales Mgr. | 35 | Vehicle Accident |
| | The employee's car was struck head-on b | | | venicie necident |
| 31. | / 21 77 Tanal Comment | | | william being |
| Jun 1 | The ampleyes the shot while truing to | Sr. Police Officer | 25 | Gun Shot |
| | The employee was shot while trying to a | rrest a suspect. | | |
| 32. | 4-22-77 Building Mtrls. & Garden Sup. | Yardman-Truck Drvr. | 20 | Crushed |
| | The employee was servicing a forklift w of the cab, he bumped the "down" lever. and crushed. | ith the boom elevated He was caught by th | l. As ne sci | he got out ssor boom |

| No. | Date | Industry | Occupation | Age | Cause of Death |
|-----|----------|--|-----------------------|--------|------------------|
| 33. | 4-26-77 | Trucking & Warehousing | Transport Driver | 48 | Vehicle Accident |
| | | oyee's truck struck a school buhis truck to roll and burn. | is that had pulled ou | it in | front of him, |
| 34. | 5- 5-77 | Railroad Transportation | Section Foreman | 47 | Electrocution |
| | | oyee was cleaning up after a stower line. | orm when he came in | conta | ct with a |
| 35. | 5- 9-77 | Petroleum & Coal Prod. | Plant Man | 31 | Burns |
| | The empl | oyee was heating asphalt lines ed. | when a storage tank | explo | ded and he |
| 36. | 5-10-77 | Local Government | Parks & Rec. Dir. | 40 | Gun Shot |
| | The emp1 | oyee was working in his office | when he was shot by | anothe | er employee. |
| 37. | 5-16-77 | State Government | Electrician | 30 | Electrocution |
| | determin | oyee was taking scotch lock of e which circuit he had turned of eived an electrical shock from t | ff. He came in cont | | |
| 38. | 5-16-77 | Wholesale Trade-Nondurables | Bookkeeper | 66 | Poisoning |
| | The emp1 | ery truck backed into an anhydro oyee left the office to move he unconscious. Death was due to | r car. She returned | to th | ne office |
| 39. | 5-24-77 | Trucking & Warehousing | Truck Driver | 30 | Vehicle Accident |
| | The truc | k the employee was driving went | off the road and ove | erturn | ed. |
| 40. | 6- 4-77 | Local Government | Deputy Sheriff | 30 | Vehicle Accident |
| 40. | 0- 4-// | Local Government | Deputy Sherrir | 30 | veniere vecident |

another vehicle.

| No. | Date | Industry | <u>Occupation</u> | Age | Cause of Death |
|-----|-----------|---|-----------------------|--------|-----------------------|
| 41. | 6- 7-77 | Heavy Construction Contr. | Asst. Foreman | 56 | Caught In |
| | and came | oyee slipped into a gravel hopped out the bottom of the hopper or fractures of the torso and skul | nto the conveyor belt | by th | ne gravel suffered |
| 42. | 6-10-77 | Agricultural ProdCrops | Farm Hand | 60 | Crushed |
| | | by the tractor. | he was later found, | he ha | d been |
| 43. | 6-11-77 | Water Transportation | Laborer | 23 | Drowning |
| | The emplo | oyee slipped off a barge on which | h he was working and | l drow | med. |
| 44. | 6-13-77 | Agricultural ProdCrops | Farm Laborer | 17 | Electrocution |
| | | oyee had been drilling holes and not leaned against a steel post. | received an electri | cal s | hock when he |
| 45. | 6-20-77 | Special Trade Contr. | Painter | 21 | Electrocution |
| | | oyee was painting a water tank. g touched a 440 volt power line | | | andle he |
| 46. | 6-21-77 | Agricultural ProdCrops | Hired Hand | 15 | Vehicle Accident |
| | The emplo | oyee lost control of the pickup | truck he was driving | and | it overturned. |
| 47. | 6-23-77 | Wholesale Trade-Nondurables | Truck Driver | 23 | Vehicle Accident |
| | The emplo | yee's vehicle went off the road | way and overturned. | | |
| 48. | 6-25-77 | Stone, Clay & Glass Prod. | Driver & Yardman | 41 | Crushed |
| | The emplo | yee walked behind an endloader | that was backing up | and w | as run over |

by the machine.

| | 2577 Concinced | | | | | | | | |
|-----|---|---|-----------------------|--------|----------------|--|--|--|--|
| No. | Date | Industry | Occupation | Age | Cause of Death | | | | |
| 49. | 6-27-77 | Railroad Transportation | Conductor | 60 | Crushed | | | | |
| | The emp | The employee was crushed when the caboose he was riding in fell on its side. | | | | | | | |
| 50. | 6-30-77 | Fabricated Metal Prod. | Shot Blstr-Fndry. | 37 | Crushed | | | | |
| | The employee was adjusting a chain on a counterweight (22,000 lb.). The counterweight started moving and pinned him between it and a flask. | | | | | | | | |
| 51. | 7- 1-77 | State Government | Hwy. Main. Opr. | 42 | Crushed | | | | |
| | The employee was picking up tar paper when a steel roller backed over him. | | | | | | | | |
| 52. | 7- 5-77 | Heavy Construction Contr. | Welder | 43 | Crushed | | | | |
| | | The employee was using a payloader to position a sheet of steel. He was pinned under the bucket of the payloader while working with the controls. | | | | | | | |
| 53. | 7- 6-77 | Agricultural Services | Ag. Pilot | 32 | Air Crash | | | | |
| | The employee was spraying a corn field when his plane struck a tree. | | | | | | | | |
| 54. | 7- 7-77 | Auto. Dealers & Svc. Stations | Parts Manager | 52 | Electrocution | | | | |
| | | loyee was found lying next to an ectrocuted. | electric overhead do | oor. | He had | | | | |
| 55. | 7- 8-77 | General Building Contr. | Asst. Foreman | 21 | Fall | | | | |
| | The empl | loyee lost his balance and fell | off of a roof while h | ne was | hoisting | | | | |

56. 7-11-77 Wholesale Trade-Durables Mechanic 61 Heart Attack
The employee suffered a heart attack while stooping over.

up materials. He was injured on 7-7-77 and died on 7-8-77.

57. 7-15-77 Local Government Maintenance Wkr. 32 Fall

The employee was loading bales of straw on a trailer. While securing the load, a corner gave way causing him to fall to the ground striking his head. He was injured on 7-6-77 and died on 7-15-77.

No. Date Industry Occupation Age Cause of Death

58. 7-15-77 State Government Equip. Operator 48 Vehicle Accident

The employee was driving a tractor with a tailblade filling edge ruts on the highway. His tractor was struck from behind by a semi-trailer truck. He was injured on 7-14-77 and died on 7-15-77.

- 59. 7-16-77 Transportation Equipment Util. Worker 50 Heart Attack
 The employee suffered a heart attack on 4-5-77 while at work. He died as
 a result of the heart attack on 7-16-77.
- 60. 7-18-77 Ins. Agents, Brokers & Svc. Resident Adjuster 31 Fall

 The employee was checking an air conditioner on the roof of the building.

 A masonry cornice gave way causing him to fall to the ground.
- 61. 7-19-77 Wholesale Trade-Durables Warehouse Manager 54 Heart Attack
 The employee suffered a heart attack while moving merchandise.
- 62. 7-22-77 Auto. Dealers & Svc. Stations Security Watchman NR Gun Shot
 The employee was struck with a pipe and shot with a shotgun while on patrol.
- 63. 7-27-77 Misc. Repair Services Painter 28 Electrocution

 The employee was on the ground moving a paint hose when it came into contact with a power line. The hose burst and the aluminum paint erupted into flame. The employee died of electrocution.
- 64. 7-27-77 Machinery, Exc. Elect. Spot Welder 36 Heart Attack
 The employee suffered a heart attack while in the locker room prior to the start of his shift.
- 65. 7-29-77 Heavy Construction Equip. Carpenter 61 Heart Attack
 The employee suffered a heart attack while stripping slab forms.

NR = Not Reported

| No. | Date | Industry | <u>Occupation</u> | Age | Cause of Death | | |
|-----|--|--|------------------------|-------|----------------|--|--|
| 66. | 8- 1-77 | Agricultural ProdCrops | Farm Labor | 25 | Crushed | | |
| | The employee was cutting hay when the tractor he was operating tipped and fell on him. | | | | | | |
| 67. | 8- 8-77 | Electric, Gas & Sanitary Svcs | s. Small Crew Foreman | 36 | Electrocution | | |
| | and the same of th | oyee was disconnecting a prima with an energized line. | ary wire on a pole whe | | | | |
| 68. | 8- 9-77 | Bit. Coal & Lignite Mining | Laborer | 18 | Crushed | | |
| | The employee was loading a shuttle car with coal when his head became pinned between the sideboard the the top of the car. | | | | | | |
| 69. | 8-19-77 | Heavy Construction Contr. | Roller Operator | 24 | Crushed | | |
| | The emp1 | loyee was operating a roller whim. | nich went into a ditch | and r | olled on | | |
| 70. | 8-22-77 | Electric, Gas & Sanitary Svcs | . Lineman | 38 | Electrocution | | |
| | The employee was stringing new wire when he came into contact with a high voltage wire. | | | | | | |
| 71. | 8-27-77 | Railroad Transportation | Conductor | 61 | Caught Under | | |
| | The empl | loyee fell under a moving box o | | | | | |
| 72. | 8-27-77 | Wholesale Trade-Durables | Shop Foreman | 53 | Heart Attack | | |

73. 8-28-77 Local Government Policeman 30 Gun Shot
The employee was investigating a possible shooting. He was shot while he
was still in the police van.

The employee suffered a heart attack while sitting at his desk.

No. Industry Date Occupation Cause of Death Age 74. 8-31-77 Heavy Construction Contr. Laborer 30 Fall The employee had climbed leads to start a diesel pile hammer when he fell to the ground. 75. 9- 2-77 Special Trade Contr. Laborer 29 Caught Under The employee was killed when the roof of a house he was demolishing fell on him. 9- 6-77 Agricultural Services 76. Veterinarian 26 Vehicle Accident The employee was returning from a call when her vehicle collided with a train. 77. 9-11-77 Special Trade Contr. Roofer 48 Fall. The employee fell from the roof of a house on which he was working on 10-17-75. He died on 9-11-77 of injuries resulting from that accident. 9-12-77 Wholesale Trade-Nondurables 78. Warehouseman 49 Electrocution The employee was cleaning fertilizer cups in the blender building. His clothes and shoes were wet and he was electrocuted when he came in contact with a drop cord. 79. 9-15-77 Special Trade Contr. Painter Electrocution The employee was on a platform doing touchup painting using a 16-foot aluminum pole with a brush on the end. The pole came in contact with a high voltage line and the employee was electrocuted. 9-16-77 Electric, Gas & Sanitary Svcs. Truck Driver 80. Crushed The employee was out of the truck collecting trash when the truck started to roll. The employee then ran after it and jumped up on the running board. The truck then bumped a curb throwing the victim under the dual wheels. 81. 9-20-77 Heavy Construction Contr. Laborer 35 Struck By A bundle of floor grating was being hoisted to the second level of the structural steel. A grating came out of the bundle and fell striking the

employee.

| No. | Date | Industry | Occupation | Age | Cause of Death |
|-----|----------|--|-----------------------|--------|------------------|
| 82. | 9-20-77 | General Building Contr. | Laborer | 59 | Heart Attack |
| | The empl | loyee was working on a door casi | ng when he suffered a | a hear | t attack. |
| 83. | 9-21-77 | Agricultural ProdCrops | Farmhand | 64 | Caught In |
| | | loyee was oiling chains on a gra ed in the power take-off and his | | sleev | re became |
| 84. | 9-28-77 | Special Trade Contr. | Plumber | 32 | Crushed |
| | | loyee was connecting sewer and w foot deep trench caved in buryin | - | | |
| 85. | 9-29-77 | Heavy Construction Contr. | President | 36 | Vehicle Accident |
| | The empl | loyee's pickup truck ran off the | road and rolled down | an e | mbankment. |
| 86. | 9-29-77 | Wholesale Trade-Durables | Dist. Sales Mgr. | 29 | Vehicle Accident |
| | The empl | loyee was killed when the car he | was driving collided | l with | another |
| 87. | 9-30-77 | Special Trade Contr. | Laborer | 19 | Drowning |
| | | loyee was working with a float 1 in tipped over and he drowned. | ine while dredging a | lake. | The boat |
| 88. | 9-30-77 | Special Trade Contr. | Electrician | 29 | Electrocution |
| | | loyee was making a splice in a covoltage cable fell against his h | | | |
| | | | | | |

The employee was extending the dragline boom. He removed the boom pins and

Dragline Operator

Crushed

27

10- 4-77 Heavy Construction Contr.

the boom fell on top of him.

89.

- No. Date Industry Occupation Age Cause of Death

 90. 10- 4-77 State Government Dietary Consultant 53 Vehicle Accident

 The employee's vehicle was struck head-on by a vehicle which had crossed over the highway center dividing line.
- 91. 10-5-77 Trucking & Warehousing Truck Driver 24 Crushed

 A large trash container slipped off the back of a truck pinning the employee against a separate trash compactor.
- 92. 10- 7-77 Membership Organization NR NR Heart Attack
 The employee suffered a heart attack while driving a pickup truck.
- 93. 10- 9-77 Electric, Gas & Sanitary Svcs. NR 58 Heart Attack
 The employee suffered a heart attack while at work.
- 94. 10-10-77 Special Trade Contr. Plumber-fitter 58 Heart Attack
 The employee suffered a cerebral hemorrhage while installing an oil line.
- 95. 10-15-77 Heavy Construction Contr. Machine Operator 19 Strangulation
 The employee was boring under the highway when his jacket became entangled in
 the boring and he was strangled.
- 96. 10-20-77 Agricultural Prod.-Crops Farm Laborer 62 Heart Attack
 The employee suffered a heart attack while driving a truck.
- 97. 10-20-77 Primary Metal Industries Sales Manager 53 Vehicle Accident
 The employee was involved in a two car accident while on his way to see a customer.

NR = Not Reported

- Industry Occupation Cause of Death No. Date Age 98. 10-20-77 Wholesale Trade-Nondurables Manager & Salesman 64 Vehicle Accident The employee was driving to the office after making a sales call. His car went off the road and hit an embankment. 10-29-77 Wholesale Trade-Durables Truck Driver 99. 31 Vehicle Accident A car made a left turn in front of the employee's tractor-trailer unit. In trying to avoid an accident the employee lost control of his truck and went into a ditch. 10-31-77 Food & Kindred Prod. Drier Operator Poisoning 100. 55 The employee inhaled chlorine fumes while operating driers on 10-28-77. He died on 10-31-77. 63 Wholesale Trade-Durables Vehicle Accident 101. 11- 2-77 Treasurer The employee was driving a company car home after a meeting when he was involved in an automobile accident. 11- 3-77 Personal Services Delivery Driver Vehicle Accident 102. 74 The truck being driven by the employee struck a crane parked on the roadway. Vehicle Accident Truck Driver 11- 5-77 Heavy Construction Contr. 103. 50
- 104. 11- 6-77 Local Government Police Chief 19 Vehicle Accident

 The employee's vehicle struck a horse while driving in the fog.

The truck being driven by the employee struck a train.

105. 11- 7-77 Agricultural Prod.-Crops Agri. Laborer 50 Heart Attack
The employee suffered a heart attack while walking to his tractor.

No. Date Industry Occupation Age Cause of Death Wholesale Trade-Durables 106. 11- 8-77 Driver 27 Vehicle Accident The employee lost control of the truck he was driving and went into a ditch. 11-10-77 Local Government 107. Motor Grader 35 Heart Attack The employee had been called to the scene of a fire at a county shop. He was standing and watching the fire when he suffered a heart attack.

- 108. 11-11-77 Wholesale Trade-Durables Truck Driver 25 Vehicle Accident
 The semi-truck being driven by the employee struck a bridge.
- 109. 11-13-77 Agricultural Prod.-Crops Farm Laborer 57 Heart Attack
 The employee had been throwing straw bales from the hayloft to the ground.
 He was later found dead in the hayloft.
- 110. 11-14-77 Electric & Electronic Equip. Prod. Operator 26 Struck By
 A steel rod was thrown by a winding machine. It struck the employee in the
 head causing a puncture wound.
- 111. 11-18-77 Wholesale Trade-Nondurables Fert. Plant Mgr. 32 Crushed The employee lost control of the payloader he was operating and it overturned in a ditch.
- The employee noticed a crack in a silo. He was attempting to empty the grain when the entire structure collapsed. The employee was buried in the grain and debris.
- 113. 11-18-77 Agricultural Prod.-Crops Farm Labor 59 Crushed

 The employee was opening a gate when a tractor rolled forward pinning him against the fence.

- Industry Occupation Age Cause of Death Date No. Heart Attack 11-29-77 Local Government Custodian 114. 31 The employee suffered a heart attack while at work. 11-29-77 Heavy Construction Contr. 115. Dozer Operator 34 Struck By The employee was running stop lights when he was struck by a truck.
- The employee's vehicle was involved in a head-on collision with a truck.

Outreach Aid

Vehicle Accident

54

12- 1-77 Local Government

116.

- 117. 12- 2-77 Lumber & Wood Prod. Truck Driver 35 Vehicle Accident
 The employee's truck jack-knifed and went down a 30 foot embankment.
- 118. 12- 3-77 Local Government Police Officer 25 Vehicle Accident
 The employee was involved in a vehicle accident while on duty.
- 119. 12- 5-77 Wholesale Trade-Nondurables Warehouse Mgr. 62 Heart Attack
 The employee suffered a heart attack after shoveling snow while on the job.
- 120. 12- 5-77 Local Government Operations 29 Spontaneous Lac.

 The employee was found lying face down and bleeding from the mouth after he had come in from shoveling snow. Death was attributed to spontaneous laceration of the tracheal bifurcation.
- 121. 12- 6-77 Trucking & Warehousing Truck Driver 27 Vehicle Accident
 The employee was involved in a truck accident.
- 122. 12-12-77 Trucking & Warehousing Truck Driver 25 Vehicle Accident
 The employee lost control of his truck while going around a downgrade curve.

| No. | <u>Date</u> <u>Industry</u> | | Occupation | Age | Cause of Death |
|--------------|---|-----------------------------|--------------------------|----------------|------------------------|
| 123. | 12-14-77 Special Trade | Contr. | Teamster | 46 | Struck By |
| | The employee was helping from the fifth floor of injured on 11-14-77 and | a building strik | ing him in the head. | f lumb He v | per fell vas |
| 124. | 12-14-77 Stone, Clay & | Glass Prod. | Laborer | 17 | Crushed |
| | The employee was helping down from the truck bed. backed up. The employee and run over. | The travellift | operator did not see | e him | as he |
| 125. 126. | 12-14-77 Transportation 12-14-77 Transportation | | Pilot Operations Mgr. | 23 24 | Air Crash Air Crash |
| | The employee were involv | ed in an aircraft | crash. | | |
| 127. | 12-16-77 State Governme | ent | Diag. Pres. Teacher | 25 | Vehicle Accident |
| | The car in which the empinto the path of a semi- | loyee was a passe truck. | enger hit a patch of | ice a | nd spun |
| 128. | 12-16-77 Ins. Agents, B | rokers & Svc. | Personnel Manager | 43 | Air Crash |
| | The aircraft being flown | by the employee | crashed. | | |
| 129. | 12-17-77 Hotels & Other | Lodging Places | Coffee Shop Mgr. | 51 | Stabbing |
| | The employee was stabbed | by a customer. | | | |
| 130. | 12-21-77 Electric & Ele | ctronic Equip. | Main. Mechanic | 22 | Struck By |
| | The employee was trying striking him in the head | to free a jammed . | overhead door. The | door | fell |
| 131. | 12-28-77 Agricultural P | rodCrops | Farm Labor | 63 | Crushed |
| | The employee was assisti on the truck became unfa | stened and he wen | t between the vehicl | es to | fasten |

it. While he was between the vehicles, the truck rolled back, crushing him

between the tractor and the truck.

No. Date Industry Occupation Age Cause of Death

132. 12-30-77 Heavy Construction Contr. Carpenter 58 Struck By

The employee was preparing to get into a pickup when he was struck by a car. The car dragged him 150 feet.



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STATE OF IOWA SUMMARY OF WORK RELATED DEATHS 1978

1978 Industry No. Date Occupation Cause of Death Age 1. 1- 1-78 Local Government Laborer NR Heart Attack The employee was putting away equipment when he suffered a heart attack. 2. 1-14-78 State Government Child Dev. Worker 45 Hepatitis The employee fed a resident ill with hepatitis. She later contracted the disease and died. 3. 1-16-78 Wholesale Trade-Durables Truck Driver 65 Heart Attack The employee suffered a heart attack while in the employer's parking lot. 1-23-78 Electric, Gas & Sanitary Svcs. Electrician Spec. 4. 62 Vehicle Accident The employee's vehicle struck a highway maintainer snowplow after skidding out of control on frosty blacktop paving.

- 5. 1-23-78 Special Trade Contr. Operator 54 Crushed

 The employee was crushed when the bulldozer he was operating slid down an embankment and rolled into a frozen creek bed. The employee was pinned beneath the machine.
- 6. 1-28-78 Trucking & Warehousing Truck Driver 27 Strangulation

 The employee died of strangulation when his coat was caught in a power take-off unit.
- 7. 2-2-78 Agricultural Prod.-Crops Farm Worker 68 Heart Attack
 The employee suffered a heart attack while doing chores.
- 8. 2-6-78 Agricultural Prod.-Crops Farm Labor 56 Suffocation

 The employee had been feeding cattle. He apparently tried to push some silage into the self feeder and slipped into the silage bin.

NR = Not Reported

| No. | Date | Industry | Occupation | Age | Cause of Death |
|-------------------|--|---|--|----------------|-------------------------------|
| 9. | 2-13-78 | Food & Kindred Prod. | Meat Processor | 60 | Caught In |
| | hand hit causing | oyee was cleaning meat off the the control switch. He was put his right arm to be severed and dent occurred on 12-28-77 and h | lled into the mixer has right chest area | to his | waist |
| 10. | 2-16-78 | Nonmetal. Min., Exc. Fuels | Plant Manager | 57 | Heart Attack |
| | The empl pickup. | oyee suffered a heart attack af | ter loading propane | | |
| 11. 12. 13. | 2-19-78 2-19-78 2-19-78 | General Building Contr. General Building Contr. General Building Contr. | Labor Labor Labor | 15 14 14 | Gunshot Gunshot Gunshot |
| | | e employees were each shot in tong being remodeled. | he head while cleaning | F a B | |
| 14. | 2-27-78 | Printing & Publishing | Adv. Acct. Exec. | 54 | Vehicle Acciden |
| | The second secon | oyee was calling on an account oss a street. | | | Transferded |
| 15. | 2-27-78 | Food & Kindred Prod. | | | Electrocution |
| | An auger | the employee was using to unlo | ad feed touched a pow | er li | ne. |
| | | | | | |
| 16. | 3- 1-78 | Food Stores | Store Manager | 57 | Vehicle Accident |
| | | oyee was traveling to a meeting op sign and struck the vehicle o | | | ed to stop |
| | | | | | |
| 17. | 3- 1-78 | Nonmetal. Min., Exc. Fuels | Laborer | 58 | Caught In |
| | The empl | oyee died of a broken neck afte | | | |

| No. | Date | Industry | Occupation Occupation | Age | Cause of Death | | | |
|-----|-----------|---|-------------------------|--------|------------------|--|--|--|
| 18. | 3- 8-78 | Electric, Gas & Sanitary Svc. | Elect. Foreman | 40 | Electrocution | | | |
| | | oyee put his pliers into an energ ner he was working on. | gized elbow on an un | dergr | ound | | | |
| 19. | 3-13-78 | Wholesale Trade-Durables | Delivery-Warehouse | 66 | Heart Attack | | | |
| | The emplo | oyee suffered a heart attack whi | le delivering merchan | ndise | | | | |
| 20. | 3-14-78 | Trucking & Warehousing | Truck Driver | 38 | Electrocution | | | |
| | | The employee was unloading feed when the auger boom on his feed truck came into contact with a high voltage line. | | | | | | |
| 21. | 3-16-78 | Trucking & Warehousing | Truck Driver | NR | Vehicle Accident | | | |
| | Another t | truck pulled onto the interstate | into the path of the | e emp | loyee's truck. | | | |
| 22. | 3-21-78 | Trucking & Warehousing | Truck Driver | 20 | Vehicle Accident | | | |
| | The emplo | oyee was killed when the truck he | e was driving went of | ff the | e road. | | | |
| 23. | 4- 5-78 | Electric, Gas & Sanitary Svc. | President | 64 | Vehicle Accident | | | |
| | The emplo | oyee lost control of his vehicle | The Table Street Street | | | | | |
| 24. | 4-13-78 | Special Trade Contr. | Laborer | 26 | Fall | | | |
| | The emplo | oyee fell 40 feet from the deck of | of a roof. | | | | | |
| 25. | 4-18-78 | Auto. Dealers & Svc. Stations | Lot Man | 17 | Vehicle Accident | | | |
| | The emplo | oyee was involved in a vehicle ac | ccident while driving | g to a | a gas station. | | | |
| 26. | 4-22-78 | Banking | Asst. Cashier | 32 | Vehicle Accident | | | |

accident.

The employee was traveling on business when he was involved in a three car

Industry No. Date Occupation Age Cause of Death 4-23-78 General Merchandise Stores 27. Part-time Prep. 71 Heart Attack The employee suffered a heart attack after coming inside from the shubbery area. 4-27-78 General Building Contr. 28. Construction Labor 54 Crushed An endloader bumped a wall causing it to fall over on the employee who was shoveling sand. 29. 5- 3-78 State Government Main. Rprs. Spvr. 23 Crushed The employee was operating a bulldozer which overturned on him. 5- 6-78 Eating & Drinking Places 30. Manager 47 Heart Attack The employee suffered a heart attack while escorting an unruly patron from the business establishment. 5- 6-78 Agricultural Prod.-Livestock 31. Laborer 53 Heart Attack The employee suffered a heart attack while feeding cattle. 5- 6-78 Food & Kindred Prod. 32. Prod. Supervisor 31 Vehicle Accident The employee struck an embankment after losing control of his vehicle. He died when he was thrown out and pinned under the vehicle. 33. 5- 6-78 Printing & Publishing Vehicle Accident 20 Pressman The employee was driving a semi-tractor which went out of control, left the roadway and overturned. 45 5-18-78 General Building Contr. Laborer Fall 34. The employee suffered a fractured skull caused from falling three stories.

| No. | Date | Industry | Occupation | Age | Cause of Death |
|-----|----------|---|-----------------------|---------|------------------|
| 35. | 5-18-78 | Agricultural ProdCrops | Farm Labor | 63 | Crushed |
| | | loyee was assisting his employ started to move. The employe over. | | | |
| 36. | 5-19-78 | Heavy Construction Contr. | Driver | 31 | Electrocution |
| | | loyee was unloading a trailer le contact with an electric li | | pipes | when his |
| 37. | 5-19-78 | Local Government | Sexton-Cemetary | 63 | Vehicle Accident |
| | The empl | loyee was involved in a vehicl | e accident at an unco | ntrolle | d intersection. |
| 38. | 5-19-78 | Wholesale Trade-Durables | Truck Driver | 36 | Vehicle Accident |
| | The empl | loyee's vehicle went off the r | oad and overturned. | | |
| 39. | 5-22-78 | Stone, Clay & Glass Prod. | Dredge Operator | 53 | Crushed |
| | | loyee was operating a front ender was killed when the loader | | | |
| 40. | 5-25-78 | Local Government | Farm Hand | 56 | Heart Attack |
| | The empl | loyee suffered a heart attack | while working in the | barn. | |
| 41. | 5-25-78 | Trucking & Warehousing | Truck Driver | 57 | Vehicle Accident |
| | | loyee was killed when the fuel and overturned. | truck he was driving | went o | ut of |
| 42. | 5-31-78 | Local Government | Inspector | 56 | Crushed |
| | The empl | loyee stepped in front of a par | rked truck loading as | phalt a | nd stood |

too close to the bumper for the driver to see her. When the truck started

forward the employee was run over.

| No. | Date | Industry | Occupation | Age | Cause of Death |
|-----|----------|---|----------------------|-----------|------------------|
| 43. | 6-13-78 | Lumber & Wood Prod. | Truck Driver | 39 | Vehicle Accident |
| | The empl | loyee was driving a company true | ck and missed a cur | ve. | |
| 44. | 6-14-78 | Trucking & Warehousing | Truck Driver | 44 | Vehicle Accident |
| | | k in which the employee was ric truck. | | n a coll | ision with |
| 45. | 6-16-78 | Food & Kindred Prod. | Depot Driver | 57 | Vehicle Accident |
| | 177 | loyee was pulling onto the high | | ravel ro | ad and was |
| 46. | 6-17-78 | Trucking & Warehousing | Truck Driver | 21 | Vehicle Accident |
| | The empl | loyee lost control of the truck | she was driving. | | |
| 47. | 6-24-78 | Railroad Transportation | Switchman/brakem | an 46 | Struck By |
| | train. | Loyee was apparently struck by a Authorities said he was either by collided or was struck by one the way. | trapped between the | e two ve | hicles |
| 48. | 6-25-78 | Local Government | Deputy Sheriff | 30 | Vehicle Accident |
| 49. | | Local Government | Deputy Sheriff | | Vehicle Accident |
| | | ning car crossed the center line l-on. Both driver and passenger | | | department |
| 50. | 6-28-78 | Heavy Construction Contr. | Heavy Equip. Opr | . 18 | Crushed |
| | The empl | Loyee was run over by an earthmo | over. | | |
| 51. | 6-29-78 | Nonmetal Min. Exc. Fuels | Pit Truck Driver | 22 | Electrocution |
| | the truc | loyee had dumped a load and was | ne box came into cor | itact wit | th an |

electric line and the employee was electrocuted when he stopped the truck

and stepped out.

| No. | Date | Industry | Occupation | Age | Cause of Death |
|-----|---------------------|--|--|--------------------|-----------------------------|
| 52. | 7- 1-78 | Fabricated Metal Prod. | Maintenance | 29 | Electrocution |
| | The empl | oyee was found dead where he ha findings were consistent with d | d been using an elec eath due to electric | tric a | rc welder. |
| 53. | 7- 8-78 | Special Trade Contr. | Siding Applicator | 21 | Fall |
| | The empl fall 20 | oyee suffered an electrical sho feet to the ground. | ck while on a roof c | ausing | him to |
| 54. | 7-11-78 | Railroad Transportation | Tie Gang Leader | 33 | Struck By |
| | The empl | oyee was operating a motorized | handcar which was st | ruck b | y a train. |
| 55. | 7-11-78 | Agricultural ProdCrops | Dist. Sales Mgr. | 49 | Vehicle Accident |
| | While ma | king a U-turn, the employee's v | ehicle was struck by | a tru | ck. |
| 56. | 7-14-78 | Instruments & Related Prod. | Handyman | 76 | Heart Attack |
| | The empl | oyee suffered a heart attack as | he was leaving work | | |
| 57. | 7-14-78 | Heavy Construction Contr. | Laborer | 21 | Suffocation |
| | | oyee was laying pipe when the s | ides of the ditch car | ved in | completely |
| 58. | 7-19-78 | Miscellaneous Services | Asst. Accountant | 22 | Vehicle Accident |
| | vehicle car. | oyee was on his way to an audit veered across the center line. | assignment when he is He crashed head-on | fell as into ar | sleep and his n oncoming |
| 59. | | Agricultural ProdCrops | Farm Laborar | 60 | Heart Attack |

The employee became ill after unloading hay on 7-17-78. He died three days

later on 7-20-78.

| No. | <u>Date</u> <u>Industry</u> | Occupation | Age | Cause of Death |
|-----|---|-----------------------|--------|----------------|
| 60. | 7-20-78 General Building Contr. | Carpenter App. | 21 | Crushed |
| | The employee was helping unload a truck. box come down he looked around and saw the box. The injury occurred on 6-23-78 of a crushed chest. | the employee's feet | hangir | ng out of |
| 61. | 7-26-78 Special Trade Contr. | Laborer | 34 | Suffocation |
| | The employee died when the ditch he was | working in collapsed | 1. | |
| 62. | 7-31-78 Heavy Construction Contr. | Laborer | 49 | Heart Attack |
| | The employee collapsed and died while dr | riving a trencher. | | |
| 63. | 7-31-78 Agricultural Services | Tree Climber | 19 | Electrocution |
| | The employee was working in a tree when volt power line. | he came into contact | t with | an 8,000 |
| 64. | 8- 1-78 Local Government | Street Main. | 23 | Crushed |
| | The employee was driving a tractor pulli drove too close to the edge of the road machine overturned on top of the victim. | and the shoulder col | | |
| 65. | 8- 3-78 Wholesale Trade-Nondurables | Laborer | 25 | Drowning |
| | The employee was loading a barge when he | e fell into the water | and | drowned. |
| 66. | 8- 4-78 Paper & Allied Prod. | Tester | 19 | Caught In |
| | The employee caught his arm between a pr paper machine. | ess roller and a cyl | | |
| 67. | 8- 8-78 General Building Contr. | Carpenter | 18 | Fall |
| | The employee was standing on a barrel put the elevator. The barrel tipped causing and down 75 feet to the ground. | | | |

| No. | Date | Industry | Occupation | Age | Cause of Death |
|-----|----------|---|-----------------------------------|-------|------------------|
| 68. | 8-10-78 | Social Services | Director | 29 | Vehicle Accident |
| | The empl | oyee was on his way home from a cle to go off the road striking | meeting. He fell a an embankment. | sleep | causing |
| 69. | 8-13-78 | Trucking & Warehousing | Truck Driver | 53 | Vehicle Accident |

70. 8-14-78 General Building Contr. Ironworker 19 Electrocution

The employee backed the crane up about 30 feet and raised the boom into a power line. After jumping from the crane, he returned to shut off the motor and was electrocuted.

The employee struck a bridge while driving in heavy fog.

- 71. 8-15-78 Special Trade Contr. Machine Operator 61 Crushed

 The employee had been using a skid loader to dig a basement. He was caught between the bucket and the front of the loader.
- 72. 8-17-78 Electric, Gas & Sanitary Svc. Lineman 54 Electrocution

 The employee was on a pole repairing a fuse on a transformer when he came into contact with a 2400 volt line.
- 73. 8-25-78 Special Trade Contr. Mason Tender 36 Crushed

 A concrete bucket fell 40 feet from a crane striking the employee on the head.
- 74. 9- 1-78 Agricultural Services Truck Driver NR Heart Attack
 The employee suffered a heart attack while putting a tarp on a truck.
- 75. 9- 5-78 Trucking & Warehousing Truck Driver 25 Vehicle Accident
 The employee was driving a semi which collided with another vehicle.

NR = Not Reported

| No. | Date | Industry | | Occupation | Age | Cause of Death |
|-----|----------|----------------------------------|-------------------------------------|--|---------|------------------|
| 76. | 9-12-78 | General Build | ing Contr. | Driver | 47 | Vehicle Accident |
| | The empl | oyee's truck a | tractor that tu | rned in front of him | 1. | |
| 77. | 9-13-78 | Machinery, Ex | c. Electrical | Warehouse Man | 21 | Crushed |
| | | ng piece of st piece of steel | | ng the employee and | pinning | him against |
| 78. | 9-27-78 | Agricultural | ProdCrops | Farm Worker | 75 | Crushed |
| | | | n the tractor to e edge crushing | the top of a sileag | e pit. | The |
| 79. | 9-28-78 | Heavy Constru | ction Contr. | Common Laborer | 19 | Struck By |
| | crane wi | | A cable broke an | a form which was bei d the bucket fell st | | |
| 80. | 9-28-78 | Petroleum & C | oal Prod. | Plant Operator | 29 | Drowning |
| | The empl | loyee fell into | an emulsion mix | ing vat. | | |
| 81. | 10- 2-78 | Wholesale Trac | de-Nondurables | Barge Loader | 33 | Drowning |
| | The empl | loyee fell off | a barge he was 1 | oading. | | |
| 82. | 10- 9-78 | Wholesale Tra | de-Durables | Service Man | 35 | Vehicle Accident |
| | The empl | loyee's vehicle | was involved in | a head-on collision | | |
| 83. | 10-10-78 | Electric & El | ectronic Equip. | Janitor | 52 | Heart Attack |
| | The empl | loyee suffered | a heart attack w | hile at work. | | |
| 84. | 10-14-78 | Nonmetal. Min | . Exc. Fuels | Truck Driver | 23 | Crushed |

The employee was run over by an endloader while walking in the quarry.

| No. | Date Industry | | <u>Occupation</u> | Age | Cause of Death |
|------|---|----------------------------|---|-------|-----------------------------|
| 85. | 10-17-78 Local Government | | Main. Operator | 37 | Crushed |
| | The employee was operating a with dirt to the side, the d | | | icket | filled |
| 86. | 10-18-78 Agricultural Prod. | -Crops | Farm Hand | 48 | Vehicle Accident |
| | The employee's vehicle went on the truck to come through | off the road the cab. T | way and into a field he employee died of o | causi | ng the load ng injuries. |
| 87. | 10-21-78 Trucking & Warehou | sing | Truck Driver | 36 | Vehicle Accident |
| | The employee was involved in injuries incurred in the acc | | | He d | ied of |
| 88. | 10-22-78 Apparel & Other Te | xtile Prod. | Truck Driver | 28 | Vehicle Accident |
| | The employee's vehicle struc | k another vel | hicle as he was tryin | ng to | pass it. |
| 89. | 10-25-78 Trucking & Warehou | | Truck Driver | 24 | Vehicle Accident |
| | The employee's vehicle struc | k a train. | | | |
| 90. | 10-26-78 Trucking & Warehou | sing | Truck Driver | 37 | Vehicle Accident |
| | The employee's truck went ov | er an embankı | ment into a creek. | | |
| 91. | 11- 5-78 General Merchandis | e Stores | Payroll-Personnel | 28 | Suffocation |
| 92. | 11- 5-78 General Merchandis | e Stores | General Office | 51 | Suffocation |
| 93. | 11- 5-78 General Merchandis | e Stores | Electrician | 28 | Suffocation |
| 94. | 11- 5-78 General Merchandis | e Stores | Cash Counter | 60 | Suffocation |
| 95. | 11- 5-78 General Merchandis | e Stores | Maintenance | 62 | Suffocation |
| 96. | 11- 5-78 General Merchandis | e Stores | Cash Counter | 69 | Suffocation |
| 97. | 11- 5-78 General Merchandis | e Stores | Electrician | 42 | Suffocation |
| 98. | 11- 5-78 General Merchandis | e Stores | Maintenance | 67 | Suffocation |
| 99. | 11- 5-78 General Merchandis | e Stores | Payroll-Personnel | 28 | Suffocation |
| 100. | 11- 5-78 General Merchandis | e Stores | Auditing | 67 | Suffocation |
| | Ten employees were overcome | by smoke when | n a fire broke out in | the | store where |

they worked.

| No. | Date | Industry | Occupation | Age | Cause of Death |
|------|--|---|-----------------------|--------|------------------|
| 101. | 11- 8-78 | Real Estate | Manager | 29 | Electrocution |
| | | yee was moving paint scaffolding power line. | g when it came into o | contac | et with an |
| 102. | 11-10-78 | Trucking & Warehousing | Truck Driver | 46 | Vehicle Accident |
| | The emplo | yee's semi went out of control, | ran down a bluff and | l over | turned. |
| 103. | 11-10-78 | Wholesale Trade-Durables | Truck Driver | 42 | Vehicle Accident |
| | A tire bl | lew out causing the employee to led. | lose control of his t | ruck | and it |
| 104. | 11-15-78 | Water Transportation | Engineer | 49 | Crushed |
| | The emplo | oyee was crushed between a barge | and the wall of a lo | ck. | |
| 105. | 11-15-78 | Agricultural ProdCrops | Farm Employee | 39 | Crushed |
| | and the second s | oyee was pulling fence posts with ver on him. | n an endloader when t | he ma | chine |
| 106. | 11-15-78 | Heavy Construction Contr. | Laborer | 20 | Electrocution |
| | | oyee was guiding a pipe into place and the electricity traveled the | | | |
| 107. | 11-16-78 | Paper & Allied Prod. | Maintenance | 28 | Explosion |
| | | oyee was injured on 11-2-78 when g exploded. He died of severe he | | | he was |
| 108. | 11-29-78 | Railroad Transportation | Carman | 52 | Crushed |
| | The emplo | oyee was operating a crane at the | | | |

which was mounted on a railroad flatcar, overturned pinning him inside. He

was injured on 11-28-78 and died on 11-29-78.

| No. | Date | Industry | Occupation | Age | Cause of Death |
|------|--|-----------------------------|-------------------|-----|------------------|
| 109. | 12- 1-78 | Local Government | Truck Driver | 38 | Crushed |
| | The employee had pulled a truck out of the ditch. As he was unhooking the chain, one of the trucks started to roll. As he attempted to get out of the way, the truck ran over him. | | | | |
| 110. | 12- 6-78 | Wholesale Trade-Durables | Asst. Whse. Spvr. | 41 | Heart Attack |
| | The employee suffered a heart attack while delivering merchandise | | | | |
| 111. | 12-11-78 | Local Government | Custodian | 63 | Heart Attack |
| | The employee suffered a heart attack while chipping ice on the sidewalk. | | | | |
| 112. | 12-12-78 | Wholesale Trade-Nondurables | Petro Delivery | 62 | Heart Attack |
| | The employee suffered a heart attack while loading a truck. | | | | |
| 113. | 12-15-78 | Trucking & Warehousing | Truck Driver | 21 | Vehicle Accident |
| | The employee's truck was struck by a train. | | | | |
| 114. | 12-28-78 | Agricultural ProdCrops | Farm Assistant | 26 | Struck By |
| | The employee was checking a payloader bucket which was propped up on the pole. The pole gave way and the bucket fell on the employee breaking his | | | | |



neck.

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