

State of Iowa

1928

REPORT OF STATE MINE INSPECTORS

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REPORT OF THE

# State Mine Inspector

FOR THE

Biennial Period Ending December 31, 1927

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INSPECTORS

W. E. HOLLAND, Centerville, Iowa

R. T. RHYS, Ottumwa, Iowa

EDWARD SWEENEY, Des Moines, Iowa

J. R. FRANK, Secretary, Des Moines, Iowa

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## LETTER OF TRANSMITTAL

HON. JOHN HAMMILL, *Governor of Iowa.*

Sir: We have the honor to submit herewith, for your consideration and approval, our report of mining conditions in the State of Iowa for the biennial period covering the calendar years 1926 and 1927.

Very respectfully submitted,

W. E. HOLLAND,  
R. T. RHYS,  
EDWARD SWEENEY,  
*Iowa Mine Inspectors.*

Des Moines, Iowa, April, 1926.

## REPORT OF STATE MINE INSPECTORS

At the present time the bituminous coal fields of a considerable portion of the United States (of which Iowa is a part) are still in the throes of an industrial struggle between Miners and Operators. Because of this strife the production of coal in Iowa for the biennial period just closed, is the lowest in over thirty years.

This extended period of idleness began April 1, 1927, when the Miners and Operators failed to reach a satisfactory agreement. During the year of 1927 some of the mines worked part time under a temporary agreement which expired March 31, 1928.

While this temporary agreement was in force a commission was appointed consisting of members of both the Miners and Operators officials, who were to investigate mining conditions from their different viewpoints, and meet in joint conference in February, 1928, to make their report and to try and negotiate a new working agreement that would be mutually acceptable and terminate the long-drawn-out disagreement.

When they met and reported their mutual findings there evidently was no common ground that appeared equitable for a basic starting point, so they once more reiterated their former claims and the conference closed without anything being accomplished. This left the coal industry in exactly the same place where it began in the early part of 1927.

Such periods of industrial idleness invariably leave a train of losses and other evils in their wake, that are primarily in direct proportion to the length of time they continue, and later some of them are everlasting in their effect. We would here seek to give some of temporary and permanent evils as we see them.

1st: There is the enormous and irretrievable losses of thousands of dollars in wages that would be earned by the miners and mine laborers if they were at work.

2nd: There are similar losses to the operators from business suspension in not being able to fill present contracts, nor negotiate others for the future.

3rd: Portions of some mines are permanently lost by falls of roof in such proportions that make the cost of their removal prohibitive.

4th: Industries and individuals during such times buy coal that is shipped into the state and often, alas too often, they never return to Iowa coal.

5th: There is the untold and immeasurable suffering and misery endured by thousands of children of all ages, from lack of sufficient food and clothing to adequately nourish and protect their growing bodies. The consequent results from such lack, is that many of them are physically defective by an undeveloped body and mind during the rest of their natural lives.

6th: Just as the head cannot say to the feet "I have no need of thee," neither can business prosper, nor long continue, without labor's contribution. This is painfully evident in every time of industrial suppression such as the present one. Business throughout the state is more or less stagnated or curtailed.

Whether such disagreements are necessary, or whether they can and should be avoided, is a much debated question. They have been of old time, are now, and it remains to be seen whether any satisfactory solution to them can be worked out in the future. If perchance any scheme, or plan, is eventually devised whereby these struggles can be forever avoided; the author of it should be hailed as a benefactor to suffering humanity, and a monument of everlasting praise be erected to his memory.

We sincerely trust that the spirit of consideration and contentment, which has so long prevailed between Miners and Operators in Iowa, will be speedily restored, so that prosperity and good will, shall again dominate the situation to the benefit and satisfaction of all parties concerned.

#### Mine Inspectors—

District No. 1—W. E. HOLLAND, Office and residence, 509 E. Clark St., Phone 925, Centerville, Iowa.

District No. 2—R. T. RHYS, Office and residence, 709 N. Court St., Phone 574, Ottumwa, Iowa.

District No. 3—EDWARD SWEENEY, Office, State House, Phone Maple 3, Ext. 143; residence 2615 High St., Phone Drake 2190; Des Moines, Iowa.

Secretary—J. R. FRANK, Office, State House, Phone Maple 3, Ext. 143; residence 2224 High St., Phone Drake 5377; Des Moines, Iowa.

The coal production counties of Iowa are divided into three inspection districts with an inspector living in each district. The duties of the inspectors are to inspect the different mines of the state, and to see that mining operations are conducted in conformity with the mining laws of the state, as regards to the safety of the employes therein, proper ventilation, etc.

A general office for the inspectors is maintained in the State

House, Des Moines, wherein is kept a complete record of all matters pertaining to the coal industry of the state, including maps of the abandoned mines. A secretary elected by the inspectors is in charge of all the books and general correspondence of the office as the duties of the inspectors keep them almost constantly in the inspection field.

The mine inspectors are appointed by the governor for a term of four years. The term of the present inspectors expire July 1, 1931.

#### STATE BOARD OF EXAMINERS

JACOB RITTER, President, Centerville, Iowa.

C. E. HARVEY, Secretary, 706 45th St. Place, Phone Drake 4729J, Des Moines, Iowa.

FRED NORWOOD, 2401 E. 9th St., Des Moines, Iowa.

JAMES MITCHELL, SR., R. F. D. 3, Knoxville, Iowa.

WM. ANDERSON, R. F. D. 5, Albia, Iowa.

The Board of Examiners are appointed by the State Executive Council for a period of two years. The term of the present officers expire July 1, 1928. Compensation for the members of the board is five (\$5.00) dollars per day and necessary expense. The board holds examinations six times a year beginning January and thereafter every other month.

The Board of Examiners for mine inspectors, mine foremen, and hoisting engineers is composed of five members: Two coal operators, two miners and one engineer. The examination for state mine inspectors is held the first Monday in March of even number of years in the office of the state mine inspector in the State House. A registration fee of two (\$2.00) dollars is made for all examinations. To those passing the examination an additional fee of two (\$2.00) dollars is required when the certificate is issued by the board. The law requires that such certificates issued shall be recorded and kept on file in the office of the board and shall show the name, age, residence, classification, and years of experience of person to whom it is issued.

The following tables give the coal production, counties of the state, number of mines, number employes, average days the miners worked, the distribution of coal and other statistics relative to the industry.

## TONS OF DIFFERENT KINDS OF COAL MINED IN IOWA 1926-1927

1926

Districts	Number of tons of prepared lump coal produced	Number of tons of fine coal produced	Number of tons of coal produced	Total number of tons of coal produced
First District.....	631,473	613,704	79,416	1,323,960
Second District.....	349,291	1,078,945	303,611	1,722,547
Third District.....	799,533	519,142	464,801	1,778,476
Totals.....	1,771,297	2,211,191	787,828	4,770,316

1927

Districts	Number of tons of prepared lump coal produced	Number of tons of fine coal produced	Number of tons of coal produced	Total number of tons of coal produced
First District.....	479,150	248,937	43,880	771,967
Second District.....	281,270	544,083	172,587	1,000,540
Third District.....	587,532	436,142	269,267	1,292,941
Totals.....	1,350,222	1,229,762	485,724	3,065,728

## ACCIDENTS RELATING TO TONNAGE

Showing Tonnage of Iowa Mines, Accidents and Employes for Period of Thirty-two Years

Years	Number of Fatal Accidents	Tons of Coal Produced	Tons of Coal Per Accident	Number of Em-ployes	Fatality Rate Per 1,000 Em-ployes
1866.....	22	3,525,490	160,254	11,451	1.9
1867.....	21	3,799,734	180,464	11,678	1.8
1868.....	26	4,397,722	169,143	10,550	2.5
1869.....	30	4,949,310	247,466	11,029	1.8
1870.....	29	5,117,285	176,485	13,041	2.2
1871.....	27	5,441,803	201,550	13,175	2.0
1872.....	55	5,514,206	100,258	13,062	4.2
1873.....	21	6,185,734	294,550	13,192	1.6
1874.....	21	6,214,379	296,464	16,315	1.3
1875.....	24	6,806,011	283,584	17,624	1.4
1876.....	37	7,017,485	189,661	16,825	2.2
1877.....	25	7,568,425	216,241	17,045	1.5
1878.....	28	7,185,434	256,301	17,312	1.6
1879.....	28	7,346,252	262,366	18,002	1.5
1880.....	39	7,222,480	185,192	18,005	2.1
1881.....	36	7,729,674	214,713	16,890	2.1
1882.....	30	8,820,828	294,361	16,215	1.8
1883.....	24	7,415,757	308,580	16,685	1.4
1884.....	34	7,812,734	230,080	15,740	2.1
1885.....	34	7,530,085	221,473	16,369	2.0
1886.....	31	7,217,979	232,828	15,195	2.0
1887.....	36	9,049,802	251,383	15,464	2.3
1888.....	32	8,219,315	256,853	14,363	2.2
1889.....	17	5,571,630	327,743	18,886	1.3
1890.....	27	7,899,365	292,569	12,787	2.1
1891.....	22	5,173,490	235,159	13,155	1.6
1892.....	18	4,679,685	259,983	13,790	1.3
1893.....	16	6,120,352	382,523	13,129	1.2
1894.....	18	5,544,050	308,032	12,533	1.4
1895.....	19	4,883,031	257,033	11,341	1.6
1896.....	15	4,770,316	318,102	9,619	1.6
1897.....	16	3,065,728	191,608	9,682	1.6

## COAL PRODUCTION IN IOWA

For Calendar Years 1926 and 1927

## FIRST DISTRICT

Counties	1926		1927	
	Tons of coal of all grades produced	Average number of employes	Tons of coal of all grades produced	Average number of employes
Appanoose.....	234,218	2,244	359,806	2,404
Lucas.....	442,510	578	189,282	524
Monroe (Part).....	294,844	440	150,099	439
Wayne.....	30,955	88	56,454	127
Adams.....	8,188	61	8,762	64
Page.....	20,458	49	19,307	58
Taylor.....	12,820	54	18,267	67
Totals.....	1,323,960	3,544	771,967	3,083

## SECOND DISTRICT

Counties	Tons of coal of all grades produced	Average number of employes	Tons of coal of all grades produced	Average number of employes
Marion.....	946,927	1,124	474,738	966
Monroe (Part).....	584,576	921	304,501	959
Jasper.....	28,910	121	53,514	134
Wapello.....	71,589	224	82,028	239
Malaska.....	67,675	170	57,365	187
Keokuk.....	5,443	22	4,061	10
Van Buren.....	12,670	42	17,850	47
Jefferson.....	2,298	22	1,635	17
Davis.....	2,759	15	4,918	23
Totals.....	1,722,847	2,662	1,000,540	2,642

## THIRD DISTRICT

Counties	Tons of coal of all grades produced	Average number of employes	Tons of coal of all grades produced	Average number of employes
Polk.....	675,502	1,231	587,769	1,140
Dallas.....	335,774	670	287,402	632
Boone.....	451,654	1,045	251,271	907
Warren.....	242,450	345	134,090	507
Webster.....	5,508	38	9,563	46
Greene.....	4,284	22	4,380	18
Guthrie.....	7,357	45	10,860	55
Story.....	747	7	5,286	8
Hardin.....	300	10		
Totals.....	1,723,476	3,413	1,296,221	3,357

## TOTAL BY DISTRICTS

Districts	Tons of coal of all grades produced	Average number of employes	Tons of coal of all grades produced	Average number of employes
First District.....	1,323,960	3,544	771,967	3,083
Second District.....	1,722,847	2,662	1,000,540	2,642
Third District.....	1,723,476	3,413	1,296,221	3,357
Totals.....	4,770,316	9,619	3,065,728	9,082

## COAL PRODUCTION OF IOWA

Calendar Year 1926

Counties	Mines in County	Prepared Lump Coal	Run of Mine Coal	Slack Coal	Total Production
Appanoose.....	82	592,537		21,581	614,118
Lucas.....	7	15,702	408,444	23,364	447,510
Monroe.....	16	115,361	676,714	87,351	799,426
Wayne.....	6	20,065		900	20,965
Taylor.....	4	12,797		23	12,820
Page.....	3	20,458			20,458
Adams.....	10	8,188			8,188
Jasper.....	13	7,945	16,774	4,191	28,910
Marion.....	30	194,910	536,964	215,033	946,907
Wapello.....	31	38,478	16,785	16,330	71,593
Mahaska.....	37	29,062	29,806	10,827	69,695
Keokuk.....	4	388	4,497	558	5,443
Van Buren.....	11	5,784	4,485	2,400	12,669
Davis.....	5	1,352	1,062	345	2,759
Jefferson.....	4	737	1,433	108	2,278
Polk.....	21	239,302	327,378	108,923	675,603
Dallas.....	5	217,347	6,537	111,890	335,774
Boone.....	11	267,428	51,230	132,996	451,654
Warren.....	6	67,331	124,871	50,248	242,450
Webster.....	5	504	4,913	91	5,508
Greene.....	2	3,460	354	470	4,284
Guthrie.....	6	3,892	8,405		12,297
Story.....	1	249	339	169	757
Hardin.....	1	150	25		175
Totals.....	320	1,771,297	2,211,191	787,828	4,770,316

Calendar Year 1927

Counties	Mines in County	Prepared Lump Coal	Run of Mine Coal	Slack Coal	Total Production
Appanoose.....	80	351,918		7,888	359,806
Lucas.....	6	14,404	158,759	16,119	189,282
Monroe.....	19	102,967	296,078	54,565	453,510
Wayne.....	6	26,209			26,209
Taylor.....	4	18,367			18,367
Page.....	3	19,307			19,307
Adams.....	6	8,762			8,762
Jasper.....	11	18,577	25,018	9,919	53,514
Marion.....	25	115,217	265,241	96,280	476,738
Wapello.....	30	34,738	9,353	17,047	51,138
Mahaska.....	35	21,848	26,031	9,396	57,275
Keokuk.....	3	125	3,601	365	4,091
Van Buren.....	9	8,333	6,258	3,249	17,840
Davis.....	4	961	1,234	40	2,235
Jefferson.....	5	3,297	1,147	474	4,918
Polk.....	21	166,923	348,112	74,734	589,769
Dallas.....	6	194,563	1,332	91,507	387,402
Warren.....	8	45,439	53,496	35,182	134,117
Webster.....	3	2,410	6,683	471	9,564
Greene.....	2	4,240		740	4,980
Guthrie.....	7	10,236	634		10,870
Boone.....	8	162,043	23,270	65,958	251,271
Story.....	1	1,968	2,463	675	5,106
Hardin.....					
Totals.....	296	1,850,232	1,229,762	485,734	3,565,728

## STATISTICS OF IOWA MINING

## MINE OUTPUT AND EMPLOYES

The Output of Coal, Miners and Loaders and All Other Employees  
Calendar Years 1926 and 1927

District No. 1, 1926

Counties	Mines in County	Amount of Coal of All Grades Produced	Number of Miners and Loaders Employed	Number of Other Inside Employees	Number of Outside Employees	Total Number of Employees
Appanoose.....	82	524,218	1,822	262	160	2,244
Lucas.....	7	442,510	260	164	54	478
Monroe (Part).....	8	294,844	319	86	35	440
Wayne.....	6	20,955	71	8	9	88
Adams.....	10	8,188	76	5	10	91
Page.....	3	20,458	37	7	5	49
Taylor.....	4	12,820	40	7	7	54
Totals.....	130	1,323,093	2,725	539	280	3,544

District No. 1, 1927

Counties	Mines in County	Amount of Coal of All Grades Produced	Number of Miners and Loaders Employed	Number of Other Inside Employees	Number of Outside Employees	Total Number of Employees
Appanoose.....	80	350,806	1,929	308	167	2,404
Lucas.....	6	189,282	316	162	46	524
Monroe (Part).....	9	150,069	336	76	37	449
Wayne.....	6	26,434	87	31	9	127
Adams.....	6	8,762	53	5	7	65
Page.....	3	19,307	42	11	5	58
Taylor.....	4	18,367	54	7	6	67
Totals.....	114	771,967	2,808	598	277	3,683

District No. 2, 1926

Counties	Mines in County	Amount of Coal of All Grades Produced	Number of Miners and Loaders Employed	Number of Other Inside Employees	Number of Outside Employees	Total Number of Employees
Marion.....	30	546,927	812	234	78	1,124
Monroe (Part).....	8	584,576	689	163	69	921
Wapello.....	31	71,589	148	43	24	224
Mahaska.....	37	67,675	122	16	32	170
Jasper.....	13	28,910	85	14	22	121
Van Buren.....	11	12,670	33	1	8	42
Keokuk.....	4	5,443	16	1	2	19
Davis.....	3	2,759	11	2	2	15
Jefferson.....	4	2,258	18	1	4	23
Totals.....	141	1,722,847	1,994	475	253	2,662

District No. 2, 1927

Counties	Mines in County	Amount of Coal of All Grades Produced	Number of Miners and Loaders Employed	Number of Other Inside Employees	Number of Outside Employees	Total Number of Employees
Marion.....	25	474,738	685	231	70	986
Monroe (Part).....	10	304,561	692	225	72	989
Wapello.....	30	82,028	159	41	39	229
Mahaska.....	35	57,265	139	17	31	187
Jasper.....	11	53,514	91	23	30	134
Van Buren.....	9	17,850	34	3	10	47
Keokuk.....	3	4,091	8	2	2	12
Davis.....	5	4,918	18	2	3	23
Jefferson.....	4	1,635	10	2	5	17
Totals.....	130	1,000,540	1,836	554	222	2,612

## MINES, OUTPUT AND EMPLOYES

Number of Mines, Output of Coal, Number of Miners and Other Employees for the Calendar Years 1924 and 1925

## District No. 3, 1926

Counties	Mines in County	Amount of Coal of All Grades Produced	Number of Miners and Loaders Employed	Number of Other Inside Employees	Number of Outside Employees	Total Number of Employees
Polk.....	21	675,302	880	270	81	1,231
Boone.....	11	451,654	731	243	72	1,046
Dallas.....	5	335,774	482	134	54	670
Warren.....	6	242,459	253	91	21	345
Guthrie.....	6	7,357	36	2	7	45
Greene.....	3	4,284	17	2	3	22
Hardin.....	1	200	4	4	2	10
Story.....	1	747	4	1	2	7
Webster.....	5	5,508	25	7	6	38
Totals.....	49	1,723,476	2,411	754	248	3,413

## District No. 3, 1927

Polk.....	16	589,769	825	220	86	1,140
Boone.....	6	251,271	691	186	69	947
Dallas.....	6	287,492	471	131	50	652
Warren.....	8	134,090	201	177	39	307
Guthrie.....	7	10,860	41	6	4	55
Webster.....	3	9,563	31	5	4	40
Greene.....	2	4,080	15	1	2	18
Hardin.....	1	5,286	5	1	2	8
Story.....	1	5,286	5	1	2	8
Totals.....	51	1,200,221	2,370	736	251	3,357

## 1926

District No. 1.....	130	1,323,993	2,725	539	280	3,544
District No. 2.....	141	1,722,847	1,934	475	253	2,662
District No. 3.....	69	1,723,476	2,411	754	248	3,413
Totals.....	340	4,770,316	7,070	1,768	781	9,619

## 1927

District No. 1.....	114	771,967	2,808	596	277	3,681
District No. 2.....	130	1,000,540	1,836	554	252	2,642
District No. 3.....	51	1,200,221	2,370	724	251	3,357
Totals.....	295	3,005,728	7,014	1,888	780	9,682

## Grand Total for the Years 1926 and 1927

Districts No. 1, 2, & 3.....	616	7,830,044	14,084	3,656	1,561	19,301
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## COAL PRODUCTION AND DISTRIBUTION IN IOWA BY COUNTIES

## 1926

Counties	Mines in County	Tons of Coal of All Grades Produced	Sold to Local Trade, Not Shipped	Shipped to Points Within the State	Shipped to Points Outside the State	Sold to Railroads	Used at the Mines for Mine Purposes
Appanoose.....	82	524,218	65,426	124,816	165,439	164,236	2,109
Lucas.....	7	442,510	4,067	17,982	.....	402,766	19,556
Monroe.....	16	115,361	29,663	135,866	80	689,151	24,802
Wayne.....	6	30,955	38,598	1,974	.....	401	600
Adams.....	10	8,188	8,162	.....	.....	.....	8,162
Page.....	2	20,458	17,758	2,700	.....	.....	.....
Taylor.....	4	12,830	4,784	7,896	89	.....	50
Marion.....	30	946,927	55,629	230,069	2,154	643,582	15,321
Wapello.....	31	71,589	69,724	665	.....	.....	1,200
Mahaska.....	37	67,675	67,069	.....	.....	.....	666
Van Buren.....	11	12,670	8,564	3,981	.....	.....	125
Keokuk.....	4	5,443	5,218	.....	.....	.....	225
Davis.....	3	2,759	2,474	.....	.....	.....	285
Jefferson.....	4	2,298	2,294	.....	.....	.....	4
Boone.....	11	451,654	63,866	210,044	940	169,329	7,456
Dallas.....	5	335,774	9,585	241,000	.....	84,250	879
Greene.....	3	4,284	4,084	.....	.....	.....	200
Guthrie.....	6	7,357	7,357	.....	.....	.....	.....
Hardin.....	1	200	.....	.....	.....	.....	.....
Polk.....	21	675,302	349,991	209,205	39	85,753	10,479
Story.....	1	747	707	.....	.....	.....	100
Warren.....	6	242,459	10,282	134,604	785	86,280	10,499
Webster.....	5	5,508	5,508	.....	.....	.....	.....
Jasper.....	13	28,010	26,410	.....	.....	.....	2,500
Totals.....	320	4,770,316	837,282	1,310,192	169,535	2,325,760	97,395

## 1927

Appanoose.....	80	359,806	67,767	122,279	110,340	55,213	946
Lucas.....	6	189,282	2,292	15,214	.....	160,966	6,808
Monroe.....	19	454,510	37,736	157,447	1,025	222,667	10,624
Wayne.....	6	26,434	25,348	725	.....	100	235
Adams.....	6	8,762	8,762	.....	.....	.....	8,762
Page.....	2	19,307	16,836	2,471	.....	.....	.....
Taylor.....	4	18,267	7,617	9,615	1,055	.....	100
Marion.....	23	474,738	49,028	154,606	525	250,663	9,835
Wapello.....	30	82,028	75,420	2,608	.....	.....	1,105
Mahaska.....	35	57,365	55,248	1,357	.....	.....	660
Jasper.....	11	53,514	45,004	6,700	.....	.....	2,819
Van Buren.....	9	17,850	8,614	9,019	.....	.....	145
Keokuk.....	3	4,091	3,841	.....	.....	.....	250
Davis.....	5	4,918	4,718	.....	.....	.....	200
Jefferson.....	4	1,635	1,631	.....	.....	.....	4
Boone.....	8	251,271	33,063	141,645	1,809	51,465	3,135
Dallas.....	6	287,492	9,472	207,590	700	58,191	1,549
Greene.....	2	4,080	4,080	600	.....	.....	130
Guthrie.....	7	10,860	10,860	.....	.....	.....	.....
Polk.....	16	589,769	234,186	231,617	718	22,586	13,557
Warren.....	8	134,090	10,756	70,496	.....	47,013	5,117
Webster.....	3	9,563	9,323	49	.....	.....	300
Story.....	1	5,286	4,443	.....	.....	.....	600
Hardin.....	1	5,286	.....	.....	.....	.....	.....
Totals.....	295	3,005,728	837,993	1,132,980	116,153	908,044	57,873

## AVERAGE DAYS OF EMPLOYMENT

1926

Counties	Miners and Loaders		Other Under-ground Employees		Surface Employees	
	Average Days in Shipping Mines	Average Days in Local or Wagon Mines	Average Days in Shipping Mines	Average Days in Local or Wagon Mines	Average Days in Shipping Mines	Average Days in Local or Wagon Mines
Appanoose	150.5	97.3	120.5	60.5	141.1	82.2
Lucas	250.5	53.0	256.0		257.0	52.8
Monroe	199.3	80.3	206.9	75.4	211.3	112.9
Wayne	45.0	117.0	95.0	101.6	95.0	118.3
Adams		112.3		44.4		122.3
Page	130.0	232.0	150.0	222.0	150.0	118.3
Taylor	202.0	101.6	229.0	101.6	200.0	163.0
Marion	232.3	144.0	259.8	172.5	259.0	167.0
Mahaska		138.0		156.0		146.0
Jasper		140.4		159.0		158.0
Van Buren		102.7		174.5		130.0
Keokuk		137.3		194.0		130.0
Davis		130.0		106.0		130.0
Jefferson		128.6		149.0		170.0
Boone		101.0		26.0		101.0
Dallas	112.0	154.5	114.7	224.0	114.7	253.1
Greene	168.0		207.2		208.0	
Guthrie		147.3		148.3		190.0
Hardin		145.2		165.6		164.3
Polk		90.0		160.0		90.0
Story	103.2	157.0	228.8	130.0	219.1	160.0
Webster		40.0		50.0		50.0
Totals	218.6	92.0	256.3	66.0	245.0	92.0
	105.5	110.5	250.2	129.4	200.3	133.2

1927

Appanoose	103.0	101.0	86.0	83.0	84.0	112.0
Lucas	74.0	200.0	75.0		74.0	168.0
Monroe	127.5	108.0	141.0	60.0	142.0	109.5
Wayne	92.0	134.0	22.0	110.0	24.0	128.0
Page	135.0	306.0	135.0	306.0	135.0	306.0
Taylor	235.0	180.0	280.0	150.0	310.0	190.0
Wapello		133.0		150.0		150.0
Marion	120.3	140.0	128.3	182.0	125.4	128.6
Jasper		134.0		178.0		156.6
Van Buren		147.0		255.0		158.9
Davis		130.0		195.0		168.0
Keokuk		116.0		65.0		116.0
Jefferson		182.0		197.0		198.0
Polk		130.2		65.0		151.0
Warren		104.0		25.0		113.2
Boone		110.0		108.5		110.0
Webster		187.8		192.6		194.0
Greene		192.0		79.5		240.5
Guthrie		250.0		235.0		235.0
Hardin		158.0		206.4		217.6
Adams		199.5		206.4		206.5
Mahaska		137.0		158.0		147.0
Totals	122.9	133.1	130.7	126.2	133.3	144.1

## STATISTICS OF IOWA MINING

## MINES, OUTPUT AND EMPLOYES BY COUNTIES

Local or Wagon Mines

1926

Counties	Wagon or Local Mines	Tons of Coal of All Kinds Produced	Miners and Loaders Employed	Other Under-ground Employees	Surface Employees	Total Number of Employees
Appanoose	29	126,450	506	63	54	623
Lucas	5	1,638	30		4	34
Monroe	5	5,192	33	5	4	42
Wayne	5	15,583	53	4	6	63
Page	2	10,286	30	5	3	38
Taylor	3	1,691	12	4	4	20
Adams	10	8,188	76	5	10	91
Mahaska	37	67,615	122	16	22	170
Keokuk	4	5,443	16	1	5	22
Wapello	32	71,589	148	43	53	224
Van Buren	10	6,789	24		6	30
Jefferson	4	2,298	13	1	4	23
Marion	24	44,514	86	7	16	109
Jasper	13	28,010	85	14	22	121
Polk	12	116,164	320	77	30	427
Boone	5	9,731	41	18	7	66
Warren	3	1,554	9		3	12
Guthrie	6	7,357	36	2	7	45
Greene	3	4,284	17	2	3	22
Hardin	1	200	4		2	10
Story	1	747	4		2	7
Davis	3	2,759	11	2	2	15
Webster	5	5,508	25	7	6	38
Totals	222	560,557	1,760	282	205	2,313

1927

Appanoose	47	98,561	357	53	53	463
Lucas	3	1,619	15		1	16
Monroe	8	7,292	39	2	10	51
Adams	6	8,762	54	3	7	64
Page	1	5,500	15	1	1	17
Taylor	3	3,655	22	3	3	28
Wayne	3	22,564	67	26	7	100
Marion	15	45,647	91	12	13	121
Wapello	30	82,028	159	41	39	229
Mahaska	35	57,365	129	17	31	187
Jasper	11	53,514	91	23	20	134
Van Buren	9	17,850	34	2	10	47
Davis	5	4,918	18	2	3	23
Keokuk	5	4,091	8		10	23
Jefferson	4	1,635	10	2	5	17
Boone	4	23,621	68	9	5	72
Dallas	1	250	5		1	10
Polk	11	177,104	317	77	30	424
Warren	5	5,455	24	8	4	36
Guthrie	7	10,860	41	6	8	55
Greene	2	4,080	15	1	2	18
Webster	3	5,683	21	5	4	40
Story	1	5,286	5	1	2	8
Totals	219	650,930	1,615	299	266	2,180

## SHIPPING MINES

## Mines, Output and Employment by Counties

1926

Counties	Number of Miners	Tons of Coal of All Grades Produced	Miners and Loaders Employed	Other Underground Employes	Surface Employes	Total Number of Employes
Appanoose.....	53	397,760	1,256	199	106	1,561
Lucas.....	2	440,572	830	164	50	1,044
Monroe.....	11	374,228	975	244	100	1,319
Wayne.....	1	5,372	18	4	3	25
Page.....	1	4,172	7	2	2	11
Taylor.....	1	11,129	28	3	3	34
Adams.....						
Marion.....	6	502,413	796	227	62	1,085
Van Buren.....	1	5,881	9	1	2	12
Mahaska.....						
Keokuk.....						
Jasper.....						
Wapello.....						
Jefferson.....						
Davis.....	6	520,288	560	193	51	804
Polk.....	5	335,774	482	184	54	670
Dallas.....	6	441,024	689	224	65	978
Boone.....	3	340,896	234	91	18	323
Warren.....						
Guthrie.....						
Greene.....						
Webster.....						
Story.....						
Hardin.....						
Totals.....	98	4,219,729	5,304	1,486	516	7,306

1927

Counties	Number of Miners	Tons of Coal of All Grades Produced	Miners and Loaders Employed	Other Underground Employes	Surface Employes	Total Number of Employes
Appanoose.....	33	361,345	1,572	255	114	1,941
Lucas.....	3	187,663	301	162	45	508
Monroe.....	11	447,308	979	309	99	1,387
Wayne.....	2	3,870	20	5	2	27
Page.....	2	12,807	27	10	4	41
Taylor.....	1	14,712	32	4	3	39
Adams.....						
Marion.....	8	431,061	594	219	52	865
Wapello.....						
Mahaska.....						
Keokuk.....						
Jasper.....						
Jefferson.....						
Van Buren.....						
Davis.....	5	412,665	508	152	56	716
Polk.....	5	287,152	406	127	49	642
Dallas.....	4	227,650	633	177	55	865
Boone.....	3	128,635	267	169	35	471
Warren.....						
Guthrie.....						
Greene.....						
Webster.....						
Story.....						
Hardin.....						
Totals.....	219	2,414,798	5,399	1,589	514	7,502

## SHIPPING MINES—Continued

Counties	Mines in County	Amount of Coal of All Grades Produced	Number of Miners and Loaders Employed	Number of Other Inside Employes	Number of Outside Employes	Total Number of Employes
Appanoose.....	82	524,218	1,822	302	160	2,380
Lucas.....	7	442,510	390	164	54	678
Monroe.....	16	1,027,666	1,088	240	104	1,361
Wayne.....	6	20,555	71	8	9	88
Adams.....	10	8,188	73	7	10	92
Taylor.....	4	12,820	40	7	7	54
Page.....	3	20,438	37	7	5	49
Marion.....	30	946,927	812	234	79	1,124
Wapello.....	31	71,589	148	43	33	224
Mahaska.....	37	67,675	122	16	23	179
Jasper.....	13	28,510	85	14	22	121
Van Buren.....	11	13,670	33	1	8	42
Keokuk.....	4	5,442	18	1	5	22
Davis.....	3	2,759	11	2	2	15
Jefferson.....	4	2,298	18	1	4	23
Polk.....	21	673,592	880	270	81	1,231
Boone.....	11	451,654	790	243	72	1,045
Dallas.....	5	335,774	482	134	54	670
Warren.....	6	342,450	223	91	21	345
Guthrie.....	5	7,357	36	2	7	45
Webster.....	5	5,508	25	7	6	38
Greene.....	3	4,284	17	2	3	22
Story.....	1	807	4	1	2	7
Hardin.....	1	200	4	4	2	10
Totals.....	320	4,770,316	7,070	1,768	781	9,619

1927

Counties	Mines in County	Amount of Coal of All Grades Produced	Number of Miners and Loaders Employed	Number of Other Inside Employes	Number of Outside Employes	Total Number of Employes
Appanoose.....	80	320,806	1,929	308	167	2,404
Lucas.....	6	180,282	316	162	46	524
Monroe.....	19	454,510	1,018	311	109	1,126
Wayne.....	6	26,434	87	31	9	127
Adams.....	6	8,702	54	3	7	64
Taylor.....	4	18,267	54	7	6	67
Page.....	3	19,307	42	11	5	58
Marion.....	23	474,738	685	231	70	986
Wapello.....	30	82,028	150	41	39	229
Mahaska.....	35	57,965	139	17	31	187
Jasper.....	11	53,514	91	23	30	134
Van Buren.....	9	17,850	34	3	10	47
Keokuk.....	3	4,601	8	2	2	10
Davis.....	3	2,918	18	2	3	23
Jefferson.....	4	1,635	10	2	5	17
Polk.....	16	589,769	825	229	86	1,140
Boone.....	8	251,271	691	160	60	917
Dallas.....	6	287,402	471	131	56	658
Warren.....	8	134,660	291	177	39	507
Guthrie.....	7	10,869	41	6	8	55
Webster.....	7	9,263	31	5	4	40
Greene.....	2	4,980	15	1	2	18
Story.....	1	5,286	5	1	2	8
Totals.....	295	3,065,728	7,014	1,888	780	9,682

POWDER, DYNAMITE, PERMISSIBLE EXPLOSIVES, MINING MA-  
CHINES, HORSES AND MULES, DAYS IDLE, ETC.

1926

Counties	Kege of black powder used at mines	Pounds of dynamite used at mines	Pounds of permissible explosives used at mines	Number of mining machines in use	Number of horses and mules used at the mines	Days mines were closed down or partly closed down because of strikes or disagreements	Curtailment in tons produced because of such strikes or disagreements
Appanoose.....	162	3,850	600	21	162	219	36,320
Lucas.....	20,302	60,080	1,175	6	34	129	45
Monroe.....	51,743	73,953	220	2	6	30	1,800
Wayne.....	4,000	2,350	10,200	5	98	4	1,000
Adams.....	2,350	4,385	2,340	109	30	67	670
Page.....	53,972	4,348	100	3	15	3	3
Taylor.....	4,011	1,555	600	700	10	25	34,644
Marion.....	4,348	1,555	600	700	10	25	15,913
Wapello.....	4,348	1,555	600	700	10	25	183
Mahaska.....	1,555	600	700	10	25	3	100
Jasper.....	681	300	700	10	25	3	12
Van Buren.....	300	700	10	25	3	3	30,132
Keokuk.....	160	10	25	3	3	3	45
Davis.....	221	25	3	3	3	3	9,718
Jefferson.....	34,644	15,913	183	100	12	3	197
Boone.....	15,913	183	100	12	3	3	Totals.....
Dallas.....	183	100	12	3	3	3	230,332
Greene.....	100	12	3	3	3	3	256,407
Guthrie.....	12	3	3	3	3	3	88,510
Hardin.....	30,132	45	9,718	197	12	3	98
Polk.....	45	9,718	197	12	3	3	704
Story.....	9,718	197	12	3	3	3	107.3
Warren.....	197	12	3	3	3	3	44.545
Webster.....	Totals.....	230,332	256,407	88,510	98	704	107.3

1927

Counties	Kege of black powder used at mines	Pounds of dynamite used at mines	Pounds of permissible explosives used at mines	Number of mining machines in use	Number of horses and mules used at the mines	Days mines were closed down or partly closed down because of strikes or disagreements	Curtailment in tons produced because of such strikes or disagreements
Appanoose.....	37	5,500	27	190	130	713,664	
Lucas.....	9,964	1,900	4	29	76	324,706	
Monroe.....	17,723	32,968	130	144	308,825		
Wayne.....	325	1,175	6	103.1	24,500		
Adams.....	1,175	2,600	3	74	26	322,825	
Page.....	2,600	2,550	2	34	51	2,025	
Taylor.....	27,747	26,431	35	34	21	2,025	
Marion.....	5,229	3,075	6	11	4	4	
Wapello.....	3,106	1,829	625	6	11	4	
Mahaska.....	2,050	600	700	10	25	3	
Jasper.....	1,439	608	700	10	25	3	
Van Buren.....	225	600	700	10	25	3	
Keokuk.....	225	600	700	10	25	3	
Davis.....	329	100	10	25	3	3	
Jefferson.....	14.9	10	25	3	3	3	
Boone.....	7,318	8,000	3	29	102	337,400	
Greene.....	334	50	3	29	102	337,400	
Guthrie.....	12,183	3,163	7	132	111	211,482	
Hardin.....	11,077	50,073	12,000	21	67	135,570	
Polk.....	275	10,691	86,500	9	21	51,412	
Story.....	5,207	370	2	2	2	2	
Warren.....	170	370	2	2	2	2	
Webster.....	Totals.....	101,253	153,444	92,240	82	579	89

## SUMMARY OF IOWA COAL PRODUCTION AND DISTRIBUTION

1926

Number of tons prepared lump coal produced.....	1,771,297
Number of tons of mine run coal produced.....	2,111,191
Number of tons of slack coal produced.....	787,828

Total number of tons of coal produced.....	4,770,316
Average number of miners and loaders employed.....	7,070
Average number of all other underground employees.....	1,716
Average number of surface employees.....	781

Total number of employees.....	9,619
Average number of days miners and loaders were employed in shipping mines.....	201.7
Average number of days other underground employees were employed in shipping mines.....	243.6
Average number of days surface employees were employed in shipping mines.....	209.1
Average number of days miners and loaders were employed in local or wagon mines.....	131
Average number of days other underground employees were employed in local or wagon mines.....	125
Average number of days surface employees were employed in local or wagon mines.....	130.2
Number of kegs of powder used in Iowa mines.....	230,552
Number of pounds of dynamite used in Iowa mines.....	256,407
Number of pounds of permissible explosives used in Iowa mines.....	85,510
Number of mining machines in operation in Iowa mines.....	98
Average number of horses and mules worked in Iowa mines.....	704
Average number of days mines were closed down because of strike or disagreement with the miners.....	107.3
Estimate of curtailment of output on account of such strike or disagreement.....	44,545
Number of days miners were idle because of lack of railroad cars.....	67
Estimate of output because of lack of cars.....	27,272

## DISTRIBUTION OF IOWA COAL PRODUCED IN 1926

Sold to local trade, not shipped.....	837,282
Shipped to points within the state.....	1,319,192
Shipped to points outside the state.....	169,535
Sold to railroads.....	2,325,760
Used at mines for mine purposes.....	97,395

Total ..... 4,749,164+

SUMMARY OF IOWA COAL PRODUCTION AND DISTRIBUTION  
1927

Number of tons prepared lump coal produced.....	1,350,232
Number of tons of mine run coal produced.....	1,229,762
Number of tons of slack coal produced.....	485,734
Total number of tons of coal produced.....	3,065,728
Average number of miners and loaders employed.....	7,014
Average number of all other underground employees.....	1,888
Average number of surface employees.....	780
Total number of employees.....	9,682

Average number of days miners and loaders were employed in shipping mines.....	126
Average number of days other underground employees were employed in shipping mines.....	134
Average number of days surface employees were employed in shipping mines.....	136
Average number of days miners and loaders were employed in local or wagon mines.....	148
Average number of days other underground employees were employed in local or wagon mines.....	112
Average number of days surface employees were employed in local or wagon mines.....	179
Number of kegs of powder used in Iowa mines.....	101,253
Number of pounds of dynamite used in Iowa mines.....	153,444
Number of pounds of permissible explosives used in Iowa mines.....	99,240
Number of mining machines in operation in Iowa mines.....	82
Average number of horses worked in Iowa mines.....	879
Number of days mines were closed down because of strike or disagreement with employees.....	90.5
Estimate of curtailment of output on account of disagreement.....	2,492,304
Number of days miners were idle because of lack of railroad cars.....	93
Estimate of output because of lack of cars.....	11,311

## DISTRIBUTION OF IOWA COAL PRODUCED IN 1927

Sold to local trade, not shipped.....	837,993
Shipped to points within the state.....	1,132,980
Shipped to points outside the state.....	116,153
Sold to railroads.....	908,044
Used at mines for mine purposes.....	57,872
Total.....	3,053,942

## GYPSUM PRODUCTS OF IOWA

1927

County	Tons of gypsum products produced	Miners and loaders employed	Other underground employees	Surface employees	Total number of employees	Number of mining machines in use	Number of horses and mules used at the mines
Webster.....	642,779	134	115	167	416	29	19
Appanoose.....	30,234	14	10	18	42	10	10
Total.....	673,013	148	125	165	458	31	29

1927

County	Tons of gypsum products produced	Total number of employees	Average days miners and loaders worked	Average other underground employees worked	Average days surface men worked	Kegs of black powder used at mines	Pounds of dynamite used at mines
Webster.....	642,779	416	245	244	243	20,128	451,371
Appanoose.....	30,234	42	250	250	250	10,000	10,000
Total.....	673,013	458	247.5	247	246.5	20,128	461,371

## GYPSUM MINING INDUSTRY

A number of years ago the mining laws of Iowa were amended by the legislature to include the inspection of the gypsum mines of the state by the mine inspection department. Since that time regular inspections of the gypsum mines as to safety and sanitary conditions have been made by this department, and reports of the same placed on file in the Mine Inspectors' Office.

In these inspections the gypsum mines of the state have been generally found in excellent condition. Where recommendations have been made, we have found the managers of the mines willing to comply with requests made. There has also been an excellent spirit of co-operation in carrying out the laws of the state relating to gypsum mining. We are also glad to note a desire on the part of the management of these mines to keep the mines in such condition that accidents may be reduced to a minimum. Owing to the thickness of the gypsum rock the character of the roof is good, thus lessening accidents occurring from falls of roof.

The Gypsum industry is confined to Webster and Appanoose counties. Webster produces about 95.5 per cent of the total production in Iowa. The rock is from 20 to 50 feet below the surface in Webster county, and about 550 feet in Appanoose.

The U. S. Gypsum Co. are using the strip method and are removing from 20 to 50 feet of earth from over the rock. This has been working quite satisfactory.

The above table shows the output, etc., of the gypsum mines in Iowa.

# REPORT OF FIRST INSPECTION DISTRICT W. E. Holland, Inspector

The counties comprising the first inspection district are as follows: Appanoose, Lucas, Monroe (part), Wayne, Adams, Page and Taylor. The number of mines, number of employes and the output of the mines are arranged by counties and districts in the front part of this report.

## FATAL ACCIDENTS IN DISTRICT NO. 1 1926

Date and Hour of Accident	Name, Nativity and Occupation	Age	Married or Single	No. of Children	Cause of Death	Employing Company and County
Aug. 6, 3:30 p. m.	Sam Boyerick, Croatian, loader.....	50	Married	4	Chain broke, struck side.....	Rathburn Coal Co., Appanoose
Sept. 24, 9:00 a. m.	William Deibert Martin, American, miner.....	50	Married	1	Fall of rock.....	Richardson Coal Co., Taylor
Oct. 10, 9:00 a. m.	Andro Rogno, Italian, miner.....	34	Married	1	Unknown.....	Rosebrook Coal Co., Appanoose
Nov. 13, 6:00 p. m.	Emery Burns, colored, shot fire.....	31	Married	3	Blow out shot afterdamps.....	Hocking No. 5 Mine, Monroe
Nov. 13, 6:00 p. m.	Thos. Lawson, English, shot fire.....	46	Married	7	Blow out shot afterdamps.....	Hocking No. 5 Mine, Monroe
Dec. 9, 11:00 a. m.	H. Elliott, American, miner.....	56	Married	5	Fall of rock.....	New Barrett Mine, Appanoose
Dec. 15, 1:00 p. m.	Chas. Langloss, American, miner.....	42	Married	3	Fall of rock.....	Pearson Coal Co., No. 6 Mine, Page

## FATAL ACCIDENTS IN DISTRICT NO. 1 1927

Date and Hour of Accident	Name, Nativity and Occupation	Age	Married or Single	No. of Children	Cause of Death	Employing Company and County
Oct. 21, 3:45 p. m.	John Quist, miner.....	67	Married	2	Fall of coal.....	High Test Coal Co., Appanoose
Dec. 23, 2:00 p. m.	S. B. Anamon, miner.....	63	Married	2	Fall of rock.....	Rock Valley Coal Co., Appanoose

## NON-FATAL ACCIDENTS IN DISTRICT NO. 1 1926

Date and Hour of Accident	Name and Occupation	Cause of Accident	Nature of Injury	Employing Company and County
Jan. 5, 12:00 noon	John Steele, trackman.....	Fall of slate.....	Fractured three ribs right side.....	Hocking No. 5, Monroe
Jan. 13, 3:00 p. m.	Wm. Lewis, driver.....	Thrown from car on curve.....	Dislocated right hip.....	Hocking No. 5, Monroe
Feb. 8, 2:00 p. m.	Lewis Dudley, driver.....	Caught foot under car.....	Fractured foot.....	Hocking No. 5, Monroe
Feb. 9, 11:00 a. m.	Robt. Haldaday, miner.....	Struck in eye with coal.....	Injured right eye.....	Hocking No. 5, Monroe
Feb. 27, 1:00 p. m.	Emery Burns, shot fireman.....	Bad shot, no lamp got lost.....	Gas and dust in lungs.....	Hocking No. 5, Monroe
Feb. 27, 10:00 a. m.	Joe Whitehead, driver.....	Chunk coal fell from car.....	Injured left foot and ankle.....	Hocking No. 5, Monroe
Mar. 1, 2:30 a. m.	Dewey Williams, driver.....	Two drivers meet on hill.....	Fractured pelvic bone.....	Hocking No. 5, Monroe
Mar. 4, 12:30 p. m.	Joe Warko, driver.....	Lifting car on track.....	Ruptured himself.....	Hocking No. 5, Monroe
April 4, 7:30 p. m.	Joe Viscello, miner.....	Caught wrist between car and roof.....	Fractured wrist.....	Hocking No. 5, Monroe
April 21, 2:00 p. m.	Geo. Robinson, miner.....	Prop fell on him.....	Fractured two ribs left side.....	Hocking No. 5, Monroe
May 1, 2:00 p. m.	Robt. Smille, miner.....	Lifting car on track.....	Ruptured right side.....	Hocking No. 5, Monroe
May 3, 2:00 p. m.	Cliff Corbett, boss driver.....	Car jumped track caught between car and rib.....	Fractured left leg.....	Hocking No. 5, Monroe
Aug. 27, 1:00 p. m.	Wm. Jones, timberman.....	Fall of slate.....	Fractured little toe on left foot.....	Hocking No. 5, Monroe
Sept. 18, 3:00 p. m.	Joe Bernard, miner.....	Fall of slate.....	Fractured ribs left side.....	Hocking No. 5, Monroe
Nov. 1, 2:00 p. m.	Joe Anderson, miner.....	Cutting coal right arm bruised.....	Infection in right arm.....	Hocking No. 5, Monroe
Jan. 27, 9:00 a. m.	Paul Conger, miner.....	Fall of coal at face.....	Fractured hip.....	Numa Coal Co., Appanoose
Feb. 11, 7:00 a. m.	Fred Lewis, company man.....	Moving empty cars, caught foot between.....	Bone in ankle broken.....	Graham Coal Co., Monroe
Nov. 11, 2:45 p. m.	Arthur Jones, driver.....	Caught hand between car and butt stick.....	Injured hand.....	Graham Coal Co., Monroe
July 20, 10:00 a. m.	Herbert Latham, miner.....	Loading rock piece fell on leg.....	Injured left leg.....	Graham Coal Co., Monroe
Aug. 20, 3:15 p. m.	John McMillan, driver.....	Ran into another driver.....	Right leg injured below knee.....	Graham Coal Co., Monroe
Jan. 27, a. m.	Pete Bordenson, miner.....	Fall of slate.....	Cut left wrist.....	Central Iowa Fuel Co. No. 2, Lucas
Mar. 5, 12:00 p. m.	Robt. Byron Folsom, miner.....	Fall of slate.....	Fractured fibia bone.....	Central Iowa Fuel Co. No. 2, Lucas
Mar. 6, a. m.	Ed Downs, trapper.....	Squeezed between two cars.....	Fractured clavicle.....	Central Iowa Fuel Co. No. 4, Lucas
Mar. 15, a. m.	D. W. Jones, motorman.....	Motor threw sand in eyes.....	Right eye injured.....	Central Iowa Fuel Co. No. 4, Lucas
Mar. 15, a. m.	Mike Mahall, miner.....	Fall of slate.....	Ankle injured.....	Central Iowa Fuel Co. No. 4, Lucas
Nov. 25, a. m.	Daniel Gordon, miner.....	Bar slipped struck abdomen.....	Double rupture.....	Central Iowa Fuel Co. No. 4, Lucas
Nov. 2, 2:30 p. m.	Herbert Coper, entry driver.....	Fall of coal at face.....	Fractured bone in ankle.....	Appanoose Co. Coal Co., Appanoose
Dec. 1, 2:00 p. m.	Wm. O'Hair, driver.....	Caught hand between two cars.....	One finger mashed, one amputated 1st joint.....	Appanoose Co. Coal Co., Appanoose



# REPORT OF SECOND INSPECTION DISTRICT

R. T. Ruys, Inspector

The counties comprising the second inspection district are as follows: Marion, Monroe (part), Wapello, Mahaska, Jasper, Van Buren, Keokuk, Davis and Jefferson. The number of mines, number employes, and the output of the mines are arranged by counties and districts in the front part of this report.

## FATAL ACCIDENTS IN DISTRICT NO. 2

1926

Date and Hour of Accident	Name, Nativity and Occupation	Age	Married or Single	No. of Children	Cause of Death	Employing Company and County
1926						
Feb. 10, 3:00 p. m.	Geo. Matkocich, Croation, loader	35	Married	5	Pre-mature explosion	Cons. Indiana No. 2, Marion
Feb. 23, 3:00 p. m.	Charley Harrie, Sr., Colored, miner	63	Married	4	Fall of slate	Superior No. 19, Monroe
Sept. 11, 9:30 a. m.	Marion Jobaai, Hollander, engineer	28	Married	1	Pushed empty car into shaft and followed	Prairie City Coal Co., Jasper
Nov. 6, 9:30 a. m.	William Coswell, American, miner	40	Married	5	Fall of rock	Wh. Freeman Coal Co., Marion
Nov. 2, 2:00 p. m.	Clyde Earl, American, miner	32	Married	5	Fall of slate	R. B. Cross Coal Co., Jefferson
Nov. 24, 1:30 p. m.	Berthold Beyer, American, top man	26	Married	5	Gear wheel broke struck in face	Bidwell Mining Co., Wapello
Feb. 10, 2:30 p. m.	Frank Provenza, Italian, miner	48	Married	6	Fall of slate and coal	Pershing No. 13, Marion

1927

Date and Hour of Accident	Name, Nativity and Occupation	Age	Married or Single	No. of Children	Cause of Death	Employing Company and County
1927						
May 16, 1:00 p. m.	John Carey, American, miner	68	Married	No	Fall of slate	Rutledge Coal Co., Wapello
Mar. 28, 12:30 p. m.	Robert L. Hale, Negro, miner	67	Single	No	Fall of slate	Superior Coal Co., Monroe
Aug. 20, 11:30 a. m.	Logan Johnson, Amer., machine runner	30	Married	No	Grounded from mining machine	Union Coal Co., Wapello
Aug. 20, 11:30 a. m.	Virgel Lester, American, machine runner	29	Single	No	Grounded from mining machine	Union Coal Co., Wapello

## NON-FATAL ACCIDENTS IN DISTRICT NO. 2, 1926

Date and Hour of Accident	Name and Occupation	Cause of Accident	Nature of Injury	Employing Company and County
June 1, 7:45 a. m.	Axel Anderson, miner	Chunk coal fell	Mashed left foot	Consolidated Ind. Coal Co., Monroe
May 15, 1:45 a. m.	Wm. Long, miner	Squeezed between car and rib	Right hip injured	Consolidated Ind. Coal Co., Monroe
May 28, 10:00 a. m.	James T. Crow, driver	Fell from car	Broke collar bone	Consolidated Ind. Coal Co., Monroe
May 29, 1:45 a. m.	Al Spears, miner	Setting prop fall of slate	Left instep injured	Consolidated Ind. Coal Co., Monroe
May 5, 6:00 a. m.	Wm. Roden, driver	Load stuck across bar fell behind mule	Broke collar bone	Consolidated Ind. Coal Co., Monroe
June 30, 11:00 a. m.	Andy Pearson, timberman	Picking hole for prop	Slate hit left eye	Consolidated Ind. Coal Co., Monroe
June 19, 10:00 a. m.	Robt. Child, timberman	Picking hole for prop	Sulphur hit right eye	Consolidated Ind. Coal Co., Monroe
June 25, 9:00 a. m.	Thos. Jamison, loader	Loading dirt slate fell	Broke little toe left foot	Consolidated Ind. Coal Co., Monroe
June 11, 9:30 a. m.	Lloyd Morgan, timberman	Accidently knocked prop slate fell	Broke shoulder	Consolidated Ind. Coal Co., Monroe
June 11, 1:30 p. m.	Justin Spols, loader	Chunk coal mashed little finger	Little finger on left hand mashed	Consolidated Ind. Coal Co., Monroe
May 29, 1:00 p. m.	Matt Copar, miner	Mining shot	Fractured and dislocated 13th dorsal vertebra	Consolidated Ind. Coal Co., Monroe
June 10, 2:00 p. m.	Carl Anderson, driver	Spraying car	Mashed right thumb	Consolidated Ind. Coal Co., Monroe
June 14, 2:00 p. m.	Fred Babson, loader	Loading coal	Wrenched right side	Consolidated Ind. Coal Co., Monroe
Aug. 27, 1:00 p. m.	J. R. Clagg, miner	Loading slate	Fell and hit small of back	Consolidated Ind. Coal Co., Monroe
Aug. 30, 8:00 a. m.	Henry Turner, loader	Loading coal had fall of slate	Cut and bruised face and back	Consolidated Ind. Coal Co., Monroe
Aug. 14, 9:30 a. m.	J. A. Penman, miner	Mining shot slate fell	Fractured and dislocated 13th dorsal vertebra	Consolidated Ind. Coal Co., Monroe
Sept. 17, 10:30 p. m.	R. E. Miller, driver	Coupling	Mashed first finger on right hand	Consolidated Ind. Coal Co., Monroe
Oct. 22, 1:00 p. m.	Jeffrey Hick, miner	Fall of slate	Injured head and shoulders	Consolidated Ind. Coal Co., Monroe
Oct. 21, 11:00 a. m.	Dan Ferguson, miner	Fall of slate	Injured both hips	Consolidated Ind. Coal Co., Monroe
Oct. 21, 2:00 p. m.	Jack Rupans, miner	Setting prop fall of slate	Injured both hips	Consolidated Ind. Coal Co., Monroe
Oct. 24, 9:00 a. m.	Matt Rapleh, timberman	Fall of slate	Injured back	Consolidated Ind. Coal Co., Monroe
Oct. 31, 1:20 p. m.	J. T. Skidmore, roustabout	Fell from platform on car of coal	Gashed head, dislocated left 3rd finger	Consolidated Ind. Coal Co., Monroe
Oct. 14, 2:00 p. m.	Wm. Morgan, driver	Chunk coal fell from car	Broke 2nd toe on left foot	Consolidated Ind. Coal Co., Monroe
Oct. 17, 12:45 a. m.	Joe Francis, driver	Brakes failed, car left rails	Cut right hand, bruised left	Consolidated Ind. Coal Co., Monroe
Nov. 12, 7:45 a. m.	Tony Pipino, loader	Lifting slate	Sprained left shoulder	Consolidated Ind. Coal Co., Monroe
Oct. 19, 2:30 p. m.	Gilbert Morman, miner	Lifting coal	Left leg sprained	Consolidated Ind. Coal Co., Monroe
Dec. 31, 11:00 a. m.	Albert Curran, miner	Mining shot chunk coal fell	Mashed big toe left foot	Consolidated Ind. Coal Co., Monroe

# NON-FATAL ACCIDENTS IN DISTRICT NO. 2, 1926—Continued

Date and Hour of Accident	Name and Occupation	Cause of Accident	Nature of Injury	Employing Company and County
Dec. 16, 9:00 a. m.	Alf Holt, loader.	Loading coal on car.	Caught wrist between coal and roof.	Consolidated Ind. Coal Co., Monroe
Dec. 22, 9:00 a. m.	Arthur Chinn, loader.	Fall of slate.	Injured left arm.	Consolidated Ind. Coal Co., Monroe
Aug. 2,	Rube Walker, loader.	Fall of rock.	Right eye bruised.	Gold Goose Coal Co., Marion
Aug. 26,	Wm. Stice, miner.	Bad air in place.	Lungs affected.	Gold Goose Coal Co., Marion
Aug. 11,	Arthur Stilwell, miner.	Fall of slate.	Left foot bruised.	Gold Goose Coal Co., Marion
Aug. 12,	Joe Stice, miner.	Setting timber.	Back wrenched.	Gold Goose Coal Co., Marion
Aug. 17,	Joe Gray, miner.	Fall of slate.	Left side of body, leg and back bruised.	Gold Goose Coal Co., Marion
July 31, 4:00 p. m.	Ernest Fuson, miner.	Fall of slate.	Foot injured.	Superior Coal Co. No. 19, Monroe
June 25, 11:30 a. m.	G. W. Vancendale, miner.	Fall of slate.	Right foot bruised.	Superior Coal Co. No. 19, Monroe
Aug. 27, 8:00 a. m.	Spencer Jones, driver.	Caught hand between car and rib.	Mashed fingers on right hand.	Superior Coal Co. No. 19, Monroe
Oct. 11, 11:00 a. m.	Arni Martin, miner.	Fall of coal.	Mashed right foot.	Superior Coal Co. No. 19, Monroe
Aug. 2,	Angus Conata, miner.	Wedging coal wedge slipped.	Forehead cut and bruised.	Gold Goose Coal Co., Marion
July 28,	Clair Stice, driver.	Caught hand between car and rib.	Injured little finger right hand.	Gold Goose Coal Co., Marion
Sept. 3,	Walt McCauley, dumper in tippie.	Lever on dirt chute struck abdomen.	Abdomen lacerated.	Gold Goose Coal Co., Marion
Oct. 18, 7:30 a. m.	Perry Lurch, miner.	Fall of slate.	Two fingers on left hand injured.	Gold Goose Coal Co., Marion
Nov. 12, 9:00 a. m.	Andy Smith, miner.	Fall of slate.	Left leg and arm injured.	Gold Goose Coal Co., Marion
Nov. 3, 1:00 p. m.	J. D. Tucker, miner.	Chunk of coal fell.	Great toe on right foot mashed.	Monroe Block Coal Co., Marion
July 10,	Elmer Lunstrom, miner.	Chunk of coal fell.	Foot bruised.	Monroe Block Coal Co., Marion
Aug. 2,	O. Lunstrom, miner.	Struck knee against chunk of coal.	Knee bruised.	Smokey Hollow Coal Co. No. 10, Monroe
Nov. 29,	Solon Shaw, miner.	Fall of slate.	Pelvic bone broken, cut about head.	Smokey Hollow Coal Co. No. 10, Monroe
Sept. 1,	J. R. Price, miner.	Fall of slate.	Head and foot bruised.	Smokey Hollow Coal Co. No. 10, Monroe
Sept. 28,	Bert Marinelli, driver.	Caught hand between car and rib.	Finger broken.	Smokey Hollow Coal Co. No. 10, Monroe
June 1, 8:00 a. m.	Mike Stviho, miner.	Mining shot.	2nd finger left hand mashed.	Pershing Coal Co. No. 12, Marion
Aug. 25,	John Smead, miner.	Lifting coal.	Left hand and arm injured.	Pershing Coal Co. No. 12, Marion
Aug. 25, 10:00 a. m.	Wm. Pyle, miner.	Fall of slate.	Body injured.	Pershing Coal Co. No. 12, Marion
Aug. 17, 3:00 p. m.	Chester Brooks, miner.	Chunk coal fell on foot.	Injured side.	Pershing Coal Co. No. 12, Marion
Aug. 23, 3:00 p. m.	Ed Sprague, miner.	Stumbled and fell.	Injured side.	Pershing Coal Co. No. 12, Marion
Aug. 24, 1:00 p. m.	Chas. White, miner.	Loading coal fell on hand.	Injured hand.	Pershing Coal Co. No. 12, Marion
Aug. 25, 1:00 p. m.	Harry Harding, miner.	Lifting coal.	Injured wrist.	Pershing Coal Co. No. 12, Marion
Aug. 5, 10:00 a. m.	Pete Terribrook, miner.	Mining shot.	Injured side.	Pershing Coal Co. No. 12, Marion
Oct. 19, 2:00 p. m.	Joe Miller, miner.	Lifting coal.	Ruptured bowels.	Pershing Coal Co. No. 12, Marion
Oct. 30, 1:00 p. m.	Chas. Current, miner.	Chunking caught finger.	First finger mashed.	Pershing Coal Co. No. 12, Marion
May 6, 1:00 p. m.	Oscar Wheeler, miner.	Cutting coal.	Piece of coal struck eye.	Superior Coal Co. No. 18, Monroe
April 18, 9:00 a. m.	Geo. Narvatine, miner.	Lifting chunk of coal.	Ruptured.	Superior Coal Co. No. 18, Monroe
June 23, 9:30 a. m.	Angelo Tolga, miner.	Cuppling loaded car.	Mashed right thumb.	Superior Coal Co. No. 18, Monroe
June 30, 10:00 a. m.	Raymond Brown, miner.	Fall of slate.	Right leg broken.	Superior Coal Co. No. 18, Monroe
July 28, 3:00 p. m.	Dan Waits, miner.	Fall of slate.	Lacerated shin bone, left ankle bruised.	Superior Coal Co. No. 18, Monroe
Aug. 9, 3:45 p. m.	Joe Langer, miner.	Fall of slate.	Left foot bruised.	Superior Coal Co. No. 18, Monroe
Aug. 11, 1:30 p. m.	Prosper Heck, coupler.	Coupling cars.	Right thumb mashed.	Superior Coal Co. No. 18, Monroe
Sept. 10, 2:00 p. m.	Rufus Thompson, shot examiner.	Mining shot caught hand between coal and bar.	Right shoulder injured.	Superior Coal Co. No. 18, Monroe
Nov. 5, 12:05 p. m.	Jor McGrath, miner.	Mining shot caught hand between coal and bar.	Crushed hand.	Superior Coal Co. No. 18, Monroe
Dec. 1, 11:30 a. m.	Enoc Turner, miner.	Caught finger between car and rib.	Mashed 1st finger left hand.	Superior Coal Co. No. 19, Monroe
Dec. 10, 3:00 p. m.	Tom Hurst, driver.	Coupling cars.	Mashed 2nd finger right hand.	Superior Coal Co. No. 19, Monroe
Dec. 10, 11:30 a. m.	John Barella, miner.	Cutting with pick.	Lacerated left ankle with pick.	Superior Coal Co. No. 19, Monroe
Dec. 22, 2:00 p. m.	J. T. Miller, miner.	Loading coal caught finger between coal and top.	Mashed 2nd finger on left hand.	Superior Coal Co. No. 19, Monroe
Dec. 19, 10:00 a. m.	H. W. Thomas, miner.	Prop fell out.	Bruised left side.	Superior Coal Co. No. 19, Monroe
Dec. 15,	August Argenta, miner.	Breaking coal wedge flew.	Bruised right eye.	Superior Coal Co. No. 19, Monroe
Dec. 17, 10:30 a. m.	John Owens, stopping man.	Caught between empty car and rib.	Lacerated and bruised hip.	Superior Coal Co. No. 19, Monroe
Dec. 3, 9:00 p. m.	Con Finch, top man (nights).	Timber struck jaw.	Bruised left jaw.	Superior Coal Co. No. 19, Monroe
Dec. 5, 2:00 p. m.	David Carter, timberman.	Block fell off.	Right 2nd finger and hand bruised.	Superior Coal Co. No. 19, Monroe
Dec. 10, 8:30 a. m.	Louis Reasby, miner.	Prop fell while setting.	Bruised left side face and neck.	Superior Coal Co. No. 19, Monroe
Dec. 17, 10:30 a. m.	Sam Magnara, miner.	Coal fell.	Bruised instep.	Superior Coal Co. No. 19, Monroe
Aug. 19, 2:45 p. m.	L. L'wellen, miner.	Fall of coal.	Bruised right arm.	Superior Coal Co. No. 19, Monroe
Aug. 19, 2:30 p. m.	A. L. Johnson, miner.	Lifting door.	Sprained back.	Superior Coal Co. No. 19, Monroe
Nov. 3, 8:00 a. m.	Thos. Carlson, miner.	Mining shot coal flew.	Broke nose, cut mouth.	Superior Coal Co. No. 19, Monroe
Oct. 21, 3:00 p. m.	John Braugh, construction work.	Bar fell.	Bruised left leg and foot.	Superior Coal Co. No. 19, Monroe
Oct. 18,	W. C. Morrison, driver.	Caught finger between car and rib.	Little finger left hand broken.	Superior Coal Co. No. 19, Monroe
Oct. 14,	Richard Olsen, miner.	Top coal fell while pulling down.	Right shoulder and hand bruised.	Superior Coal Co. No. 19, Monroe
Oct. 15, 2:00 p. m.	Ed. Jones Jr., motorman.	Coupling cars.	Mashed left hand.	Superior Coal Co. No. 19, Monroe
Oct. 18, 9:30 a. m.	Archib. Carpenter, miner.	Loading coal slate fell.	Bruised hip.	Superior Coal Co. No. 19, Monroe

# NON-FATAL ACCIDENTS IN DISTRICT NO. 2, 1926—Continued

Date and Hour of Accident	Name and Occupation	Cause of Accident	Nature of Injury	Employing Company and County
Nov. 24, 3:00 p. m.	Arthur Carter, miner	Loading coal	Mashed four fingers on left hand	Superior Coal Co. No. 19, Monroe
Nov. 8, 9:00 a. m.	Frank Peterson, miner	Struck wrist on knot on timber	Wrist lacerated	Superior Coal Co. No. 19, Monroe
Nov. 16, 1:30 p. m.	James Wheels Jr., miner	Fall of slate	Both eyes bruised and cut	Superior Coal Co. No. 19, Monroe
Nov. 10, 10:00 a. m.	Mike Juno, miner	Drilling	Right knee bruised	Superior Coal Co. No. 19, Monroe
Nov. 19, 2:00 p. m.	Henry Carter, miner	Drilling fell over powder keg	Injured right side	Superior Coal Co. No. 19, Monroe
Dec. 8, 8:30 a. m.	Ed. Miles, miner	Cutting with pick sulphur flew	Injured left eye	Superior Coal Co. No. 19, Monroe
Nov. 29, 11:00 a. m.	Alfred Swinscoe, miner	Lifting chunk of coal	Ruptured	Superior Coal Co. No. 19, Monroe
July 29, 11:00 a. m.	S. G. Kelsey, miner	Lifting chunk coal fell	Bruised right ribs	Superior Coal Co. No. 19, Monroe
May 18, 3:30 p. m.	Carl Blomgreen, miner	Lifting coal	Mashed left thumb	Superior Coal Co. No. 19, Monroe
May 26, 8:30 a. m.	Pete Carpan, miner	Fall of slate	Cut head, sprained back	Superior Coal Co. No. 19, Monroe
May 4, 3:00 p. m.	Orie Olliver, driver	Coupling cars	Mashed right hand	Superior Coal Co. No. 19, Monroe
April 27, 2:00 p. m.	W. L. Carter, motorman	Chunk coal fell from car	Bruised left leg	Superior Coal Co. No. 19, Monroe
May 12, 2:45 p. m.	Tom Erickson, motorman	Short in motor	Burned right arm	Superior Coal Co. No. 19, Monroe
June 22, 9:00 a. m.	James Taylor, miner	Moving slate	Mashed little finger on right hand	Superior Coal Co. No. 19, Monroe
May 27, 10:30 a. m.	A. I. Ball, miner	Fall of slate	Fractured little toe on right foot	Superior Coal Co. No. 19, Monroe
June 10, 3:00 p. m.	Vic Cappelline, miner	Cutting coal sulphur flew	Injured right eye	Superior Coal Co. No. 19, Monroe

## NON-FATAL ACCIDENTS IN DISTRICT NO. 2, 1927

Feb. 4, 12:30 p. m.	Fred Clements, miner	Loading coal	Sprained back	Gold Goose Coal Co., Albia
Jan. 15, 12:30 p. m.	Geo. Hancock, driver	Caught foot under car	Fractured ankle	Smokey Hollow Coal Co., Hiteaman
Feb. 2, 12:30 p. m.	Justin Brown, miner	Unloading rails	Two bones fractured in hand	Smokey Hollow Coal Co., Hiteaman
Feb. 7, 11:00 a. m.	Matt Burke, miner	Chunk of slate fell on foot	Fractured toe	Smokey Hollow Coal Co., Hiteaman
Mar. 6, 11:00 a. m.	Mike Popia, miner	Setting prop, fell on foot	Left foot injured	Pershing Coal Co., Pershing
Oct. 12, 9:00 a. m.	John Kay, miner	Fall of slate	Back, ribs and leg injured	Pershing Coal Co., Pershing
Oct. 18, 10:00 a. m.	Bob Jones, driver	Kicked by mule	Injured left knee	Pershing Coal Co., Pershing
Jan. 19, 2:30 p. m.	Ed Delashmunt	Jack slipped putting car on track	Mashed right thumb	Superior No. 19, Bucknell
Jan. 31, 10:30 a. m.	Mike Juno, miner	Mining shot piece coal hit arm	Right arm injured	Superior No. 19, Bucknell

Feb. 21, 12:45 p. m.	Joe Perano, miner	Loading coal	Mashed third finger on left hand	Superior No. 19, Bucknell
Feb. 2, 1:00 p. m.	Julius Washington, miner	Fell down while loading coal	Left side injured	Superior No. 19, Bucknell
Feb. 15, 9:30 a. m.	W. J. Jackson, miner	Fall of slate	Neck and shoulders injured	Superior No. 19, Bucknell
Jan. 14, 9:00 a. m.	Emett Olster, roadman	Making roller with ax	Cut arteries in hand	Carbon Coal Co., Lockman
Feb. 2, 1:30 p. m.	J. C. Hoover, loader	Fall of slate	Injured hand	Consolidated Indiana No. 2, Melcher
Feb. 28, 11:30 a. m.	Louis Redosevick, timberman	Taking down slate chunk	Fractured left leg	Consolidated Indiana No. 2, Melcher
Dec. 3, 11:15 a. m.	John Wilber, loader	Fall on leg	Fractured left shoulder	Consolidated Indiana No. 2, Melcher
Dec. 2, 7:30 a. m.	Tom Braslin, loader	Loading chunk of coal	Injured back	Consolidated Indiana No. 2, Melcher
Dec. 5, 12:30 p. m.	Fred Betten, loader	Fall of slate knocked prop against him	Injured side	Consolidated Indiana No. 2, Melcher
Dec. 12, 8:30 a. m.	R. C. Smith, driver	Caught between car and timber	Injured hips	Consolidated Indiana No. 2, Melcher

FATAL AND NON-FATAL ACCIDENTS IN DISTRICT NO. 2  
Classified by Cause of Accident and Occupation of Injured  
For the Years 1926 and 1927

30

REPORT IOWA MINE INSPECTORS

Cause of Accidents (U. S. Bureau of Mines Classification)																	
	Miners	Loaders	Drivers	Top men	Machine men	Entry men	Company men	Shot fire	Track men	Foremen	Engineer	Minor	Timbermen	Loader	Driver	Machine men	Entry men
1. Fall of roof (rock, slate, etc.)																	
At working face	3																
2. Fall of roof (rock, slate, etc.)																	
In room or chamber	10																
3. Fall of roof (rock, slate, etc.)																	
In road or entry	1																
4. Fall of coal:																	
(a) Fall of coal at face																	
(b) Fall of pillar coal																	
5. Mine cars and locomotives:																	
(a) Run over by car																	
(b) Caught between car and rib																	
(c) Caught between car and timber																	
(d) Caught between car and top																	
(e) Putting car on track																	
(f) Fall from car or motor																	
(g) Switching or spragging																	
(h) Coupling cars																	
(i) Fall from railroad car																	
(j) Runaway car on trip																	
(k) Caught between cars																	
(l) Pushing cars																	
(m) Cars jumping track and collisions																	
6. Electricity:																	
(a) High tension or mining machines																	
(b) Electric welders, etc.																	
7. Animals:																	
(a) Caught in harness																	
(b) Mule fell down																	
(c) Killed by mule																	
(d) Mule run away																	
(e) Squeezed by a mule																	
8. Miscellaneous:																	
(f) Shoeing mule or pony																	
(a) Caught in cage																	
(b) Flying particles hitting eye																	
(c) Loading coal, rock, slate and dirt																	
(d) Falling rails and timbers																	
(e) Caught in tail rope																	
(f) Caught in conveyors and cables																	
(g) Caught in trap door																	
(h) Repairing machinery																	
(i) Pieces broken machinery flying																	
(j) Persons falling down shaft																	
(k) Objects falling down shaft																	
(l) Using blow torch																	
(m) Persons falling or stumbling																	
9. Explosives:																	
(a) Premature and windy shots																	
(b) Dust explosion, fire and gas	1																
10. Hand tools:																	
Axes, bars, picks, shovels, nails, wedges, mining machines, weighing apparatus and mechanical devices																	

STATISTICS OF IOWA MINING

31

# REPORT OF THIRD INSPECTION DISTRICT

EDWARD SWEENEY, Inspector

The counties comprising the third inspection district are as follows: Polk, Boone, Dallas, Warren, Guthrie, Story, Greene and Hardin. The number of mines, number employes and the output of the mines are arranged by counties and districts in the front part of this report.

1926

Date and Hour of Accident	Name, Nativity and Occupation	Age	Married or Single	No. of Children	Cause of Accident	Employing Company and County
July 24, 7:30 a. m.	Thos. Beck, Jr., American mine foreman.	34	Single		Electrocuted	Beck Coal Co., Polk
Dec. 24, 10:00 a. m.	John Geafredi, Italian, miner.	36	Married	2	Tamping with iron bar, powder exploded	Scandia No. 5, Mine, Dallas

1927

Date and Hour of Accident	Name, Nativity and Occupation	Age	Married or Single	No. of Children	Cause of Accident	Employing Company and County
Jan. 27, 2:00 p. m.	Fred May, English, miner.	21	Single	No	Fall of coal.	Valley Coal Co., Webster
Jan. 30, 3:40 p. m.	Ben Goodrich, American, miner.	54	Married	3	Fall of slate.	Currier Coal Co., Boone
Mar. 8, 8:30 a. m.	Robt. Mingerl, Italian, miner.	42	Married	1	Fall of coal.	W. D. Johnson Coal Co., Boone
Mar. 30, 8:30 a. m.	Tom Ryan, American, miner.	55	Single	No	Fall of slate.	Scandia Coal Co., Boone
Oct. 20, 2:00 p. m.	Orel Meyers, American, miner.	22	Single	No	Fall of coal.	Scotch Ridge Coal Co., Warren
Nov. 22, 9:00 a. m.	Frank J. Mozial, Polish, utility man.	44	Married	5	Caught between car and prop.	Gibson Coal Co., Polk
Nov. 31, 9:00 a. m.	Clarence Kirkpatrick, American, miner.	30	Married	2	Fall of slate.	Indian Valley Glass Coal Co., Warren
Nov. 22, 11:45 a. m.	John Riley, American, miner.	26	Single	No	Fall of slate.	Dallas Products Co., Dallas
Dec. 22, 12:30 a. m.	William Post, American, miner.	49	Married	No	Fall of slate.	Norwood-White No. 5, Polk

## NON-FATAL ACCIDENTS IN DISTRICT NO. 3, 1926

Date and Hour of Accident	Name and Occupation	Cause of Accident	Nature of Injury	Employing Company and County
April 5, 2:00 p. m.	Ivan Whitebreast, driver.	Run over by car.	Fractured collar bone and right ankle.	Norwood-White Coal Co. No. 8, Dallas
April 2, 2:00 p. m.	Elly Vranich, timberman.	Cutting place for bar.	Piece of dirt in eye.	Norwood-White Coal Co. No. 8, Dallas
Mar. 8, 2:45 a. m.	J. H. Mitchell, miner.	Fall of slate.	Fractured left leg.	Norwood-White Coal Co. No. 8, Dallas
Mar. 13, 1:00 p. m.	D. Steffani, miner.	Fall of slate.	Crushed hips.	Norwood-White Coal Co. No. 8, Dallas
May 3, 1:45 p. m.	H. Meads, miner.	Fall of slate.	Injured small toe on left foot, body bruised.	Norwood-White Coal Co. No. 8, Dallas
Aug. 12, 8:00 a. m.	Frank Bertigli, miner.	Lifting slate.	Sprained back.	Norwood-White Coal Co. No. 8, Dallas
Aug. 20, 8:00 a. m.	L. Vignaroli, miner.	Fall of slate.	Injured nose and body.	Norwood-White Coal Co. No. 8, Dallas
Oct. 29, 1:30 p. m.	John Quicley, track layer.	Rail fell on foot.	Fractured left foot.	Norwood-White Coal Co. No. 8, Dallas
Nov. 8, 3:30 p. m.	E. Zafatti, miner.	Lifting slate.	Injured back.	Norwood-White Coal Co. No. 8, Dallas
Nov. 19, 1:30 p. m.	B. Marino, miner.	Fall of slate.	Fractured left foot, bruised left shoulder.	Norwood-White Coal Co. No. 8, Dallas
Nov. 24, 11:30 a. m.	Geo. Price, miner.	Fall of slate.	Injured left side of head.	Norwood-White Coal Co. No. 8, Dallas
Jan. 19, 2:30 p. m.	Matt Ruffe, miner.	Fall of slate.	Injured left foot.	Norwood-White Coal Co. No. 8, Dallas
Jan. 26, 8:15 p. m.	W. H. Vance, track layer.	Dropped latch wrench on foot.	Fractured left foot.	Norwood-White Coal Co. No. 8, Dallas
Mar. 1, 3:00 p. m.	Chas. Allen, miner.	Caught between car and prop.	Stomach injured.	Norwood-White Coal Co. No. 7, Dallas
Mar. 23, 1:00 p. m.	Ed. Davis, miner.	Squeezed between car and mule.	Right little finger mashed.	Norwood-White Coal Co. No. 7, Dallas
April 3, 10:00 a. m.	Tony Carso, miner.	Lifting chunk coal.	Injured back.	Norwood-White Coal Co. No. 7, Dallas
April 6, 2:00 p. m.	Mack Griffith, driver.	Struck by car.	Left hip bruised.	Norwood-White Coal Co. No. 7, Dallas
Sept. 25, 10:00 a. m.	Geo. Baker, engineer.	Repairing pump.	Cut and mashed finger on right hand.	Norwood-White Coal Co. No. 7, Dallas
April 18, 10:00 a. m.	Geo. Raykovich, miner.	Lifting car.	Injured back.	Norwood-White Coal Co. No. 7, Dallas
Sept. 30, 2:00 p. m.	Matt Kruzich.	Fall of coal.	Bruised both feet and ankles.	Norwood-White Coal Co. No. 7, Dallas
Dec. 30, 10:00 a. m.	Joe Lythe, miner.	Fall of slate.	Left hand bruised.	Norwood-White Coal Co. No. 7, Dallas
Dec. 12, 4:00 p. m.	Theo. White, miner.	Caught foot in tail rope sheave.	Left foot mashed.	Norwood-White Coal Co. No. 7, Dallas
June 21, 11:00 a. m.	Vance Massarini, miner.	Sharpening prop.	Cut finger on left hand.	Saylor Coal Co. No. 2, Polk
Sept. 18, 11:00 a. m.	Dony Maholovich, timberman.	Cutting board with ax.	Cut first finger on left hand.	Saylor Coal Co. No. 2, Polk
Oct. 12, 10:00 p. m.	Axel Lee, miner.	Fall of slate.	Right hip and two ribs broken.	Saylor Coal Co. No. 2, Polk
Sept. 23, 10:30 a. m.	Vance Iori, miner.	Pushing car into room, fall of slate.	Bruised right foot.	Saylor Coal Co. No. 2, Polk
Oct. 12, 11:00 a. m.	Ed. Bennett, miner.	Fall of slate while loading coal.	Right arm bruised, left ankle broken.	Saylor Coal Co. No. 2, Polk

NON-FATAL ACCIDENTS IN DISTRICT NO. 3, 1927

34

REPORT IOWA MINE INSPECTORS

Date and Hour of Accident	Name and Occupation	Cause of Accident	Nature of Injury	Employing Company and County
Oct. 4.	Jor Bevegess, miner	Shoveling coal, hand struck		
Nov. 3, 1:30 p. m.	John Fountain, miner	Prop	Bruised hand	Saylor Coal Co. No. 2, Polk
Aug. 25, 8:30 a. m.	Mike Moran, timberman	Loading chunk coal, slipped and fell	Ruptured	Saylor Coal Co. No. 2, Polk
Sept. 14,	C. Marchitts, miner	Fall of slate	Left leg broken	Bennett Bros. Coal Co., Polk
Oct. 22, 3:00 p. m.	Henry Watson, miner	Chunk of coal fell when loading	Injured knee	Bennett Bros. Coal Co., Polk
Sept. 27, 2:30 p. m.	John Leaverton, miner	Fall of slate	Injured back	Des Moines Coal Co., Polk
Nov. 4, 3:45 p. m.	Joe Pandolski, miner	Fall of slate	Injured hip and back	Scandia Coal Co. No. 5, Dallas
Nov. 22, 10:30 a. m.	Fred Felish, miner	Struck knee on car	One rib broken	Scandia Coal Co. No. 5, Dallas
Nov. 9, 9:30 a. m.	Frank Nicholson, driver	Fell under car of coal	Miners knee	Scandia Coal Co. No. 5, Dallas
Mar. 8, 1:30 p. m.	Wm. Gulick, miner	Breaking up slate	Fractured ribs and other injuries	Scandia Coal Co. No. 5, Dallas
May 5, 1:50 p. m.	Charles Riggs, miner	Fall of slate	Bruised eye ball	Scandia Coal Co. No. 5, Dallas
Nov. 27, 11:00 a. m.	Fred Gregorovich, miner	Fall of slate	Right hand, left thumb mashed, back injured	Radiant Coal Co. No. 1, Dallas
Dec. 8, 3:30 p. m.	G. V. Loose, top man	Slipped and fell	Toes on right foot broken	Radiant Coal Co. No. 1, Dallas
Dec. 17, 1:30 p. m.	Henry May, top foreman	Caught in belt of conveyor shaker	Four ribs broken left side	Radiant Coal Co. No. 1, Dallas
Feb. 23, 2:30 p. m.	Alvie Ansley, miner	Caught between car and rib	Right fore arm broken in three places	Radiant Coal Co. No. 1, Dallas
Mar. 13, 7:30 a. m.	Tony Dumski, miner	Fall of slate	Infection below knee	Norwood-White Coal Co. No. 8, Dallas
Mar. 19,	Sam Gilmoe, miner	Fall of slate	Back and internal injuries	Norwood-White Coal Co. No. 8, Dallas
Feb. 9, 9:00 a. m.	James Shanahan, miner	Fall of slate	Fractured large toe	Norwood-White Coal Co. No. 8, Dallas
F. b. 23, 10:30 a. m.	Tony Zelhin, miner	Fall of slate	Bruised face and back (?) collar bone fractured	Norwood-White Coal Co. No. 8, Dallas
Feb. 18, 2:30 p. m.	C. C. Bennett, miner	Fall of slate	Back, hips and left leg injured	Norwood-White Coal Co. No. 8, Dallas
Feb. 21, 2:45 p. m.	A. Wolant, miner	Mining shot, fall of coal	Back and shoulders injured	Norwood-White Coal Co. No. 8, Dallas
Feb. 19, 9:30 a. m.	L. Bianchi, miner	Fall of slate	Left leg and ankle injured	Norwood-White Coal Co. No. 8, Dallas
Mar. 2, 12:45 p. m.	Geo. Ansley, Sr., miner	Fall of slate	Fractured left thumb	Norwood-White Coal Co. No. 8, Dallas
Feb. 8, 3:30 p. m.	J. S. Piper, machine runner	Feed chain of machine broke	Back and internal injuries	Norwood-White Coal Co. No. 8, Dallas
Feb. 25, 11:00 a. m.	Joseph F. Hall, machine runner	Fall of slate	Piece of chain hit eye	Norwood-White Coal Co. No. 8, Dallas
Feb. 10, 3:00 p. m.	Vance Massarini, miner	Cutting coal	Injured back and legs	Des Moines Coal Co., Polk
Mar. 17, 1:00 p. m.	Frank Gregorovich, miner	Fell while lifting coal	Piece coal injured eye	Saylor Coal Co. No. 2, Polk
			Injured 2nd and 3rd finger left hand	Saylor Coal Co. No. 2, Polk
Mar. 22, 2:00 p. m.	Richo Tollari, miner	Breaking coal	Piece coal flew in eye	Saylor Coal Co. No. 2, Polk
Mar. 9, 9:00 a. m.	Attellio Beaul, miner	Lifting	Sprained back	Saylor Coal Co. No. 2, Polk
Not known exact time	Vance Cankovich, timberman	Don't know	Swollen knee	Saylor Coal Co. No. 2, Polk
Mar. 24, 2:30 a. m.	Alonso Brown, miner	Lifting	Sprained back	Saylor Coal Co. No. 2, Polk
Feb. 8, 10:00 a. m.	Lawrence Rodosivich, miner	Fall of coal	Left arm, back and hips bruised	Norwood-White Coal Co. No. 7, Dallas
Mar. 17, 10:00 a. m.	Pete Manulla, miner	Hit in mouth with drill handle	Knocked front teeth loose	Norwood-White Coal Co. No. 7, Dallas
Mar. 24, 10:00 a. m.	Gus Gulgh, miner	Lifting chunk coal	Strained side	Norwood-White Coal Co. No. 7, Dallas
Mar. 30, 1:00 p. m.	Matt Krugch, miner	Mining shot, fall of coal	Right side injured	Norwood-White Coal Co. No. 7, Dallas
Jan. 3, 11:00 a. m.	John Carry, miner	Fall of slate	Finger broken	Bennett Bros. Coal Co. No. 2, Polk
Feb. 3, 3:30 p. m.	Steve Dennis, miner	Chunk of coal fell	Broke toe	Bennett Bros. Coal Co. No. 2, Polk
Feb. 21, 3:30 p. m.	John Wallner, timberman	Making place for prop	Piece coal flew in eye	Bennett Bros. Coal Co. No. 2, Polk
Jan. 11, 2:00 p. m.	Jacob Jackson, mule driver	Car jumped track, caught hand	End of finger on right hand cut off	Des Moines Coal Co., Polk

STATISTICS OF IOWA MINING

**FATAL AND NON-FATAL ACCIDENTS IN DISTRICT NO. 2**  
Classified by Cause of Accident and Occupation of Injured  
For the Years 1926 and 1927

36

REPORT IOWA MINE INSPECTORS

Cause of Accidents (U. S. Bureau of Mines Classification)														
	Miners	Loaders	Drivers	Top men	Machine men	Entry men	Company men	Shot fire	Track men	Foreman	Engineer	Miner	Timberman	Loader
1. Fall of roof (rock, slate, etc.)														
At working face														
2. Fall of roof (rock, slate, etc.)														
In room or chamber														
3. Fall of roof (rock, slate, etc.)														
In road or entry														
4. Fall of coal:														
(a) Fall of coal at face														
(b) Fall of pillar coal														
5. Mine cars and locomotives:														
(a) Run over by car														
(b) Caught between car and rib														
(c) Caught between car and timber														
(d) Caught between car and top														
(e) Putting car on track														
(f) Fall from car or motor														
(g) Switching or spragging														
(h) Coupling cars														
(i) Fall from railroad car														
(j) Runaway car on trip														
(k) Caught between cars														
(l) Pushing cars														
(m) Cars jumping track and collisions														
6. Electricity:														
(a) High tension or mining machines														
(b) Electric Welders, etc.														
7. Animals:														
(a) Caught in harness														
(b) Mule fell down														
(c) Kicked by mule														
(d) Mule run away														
(e) Squeezed by a mule														
(f) Shoeing mule or pony														
8. Miscellaneous:														
(a) Caught in cage														
(b) Flying particles hitting eye														
(c) Loading coal, rock, slate and dirt														
(d) Falling rails and timbers														
(e) Caught in tail rope														
(f) Caught in conveyors and cables														
(g) Caught in trap door														
(h) Repairing machinery														
(i) Pieces broken machinery flying														
(j) Persons falling down shaft														
(k) Objects falling down shaft														
(l) Using blow torch														
(m) Persons falling or stumbling														
9. Explosives:														
(a) Premature and windy shots														
(b) Dust explosion, fire and gas														
10. Hand tools:														
Axes, bars, picks, shovels, nails, wedges, mining machines, weighing apparatus and mechanical devices														

STATISTICS OF IOWA MINING

37

**LIST OF OPERATING COAL COMPANIES, SUPERINTENDENTS, ETC., IN DISTRICT NO. 1  
APPANOOSE COUNTY**

38

REPORT IOWA MINE INSPECTORS

Name of Company and Mine Number	Superintendent	Address	Shaft or Slope	Plan of Working	How Ventilated	Power Used	Shipping or Local
Appanoose Coal & Fuel Co., No. 22	L. L. Ludwig	Mystic	Shaft	Longwall	Fan	Steam	C. M. & St. P. R. R.
Anchor Coal Co.	J. W. Woods	Centerville	Shaft	Longwall	Fan	Steam	C. R. I. & P. R. R.
Armstrong Coal Co.	Geo. Harrison	Cincinnati	Shaft	Longwall	Fan	Steam	C. B. & Q. R. R.
Barrett Coal Co.	John Barrett	Mystic	Slope	Longwall	Furnace	Electricity	C. M. & St. P. R. R.
Bradshaw Coal Co.	Dan Bradshaw	Dean Rt. 1	Shaft	Longwall	Fan	Horse	Local
Brand Coal Co.	Frank Brand	Plano	Shaft	Longwall	Fan	Horse	Local
Caldwell Coal Co.	Lars Johnson	Exline	Shaft	Longwall	Furnace	Gasoline	C. B. & Q. R. R.
Campbell Coal Co.	R. D. Campbell	Mystic, Rt. 1	Slope	Longwall	Furnace	Horse	Local
Centerville Block Coal Co., No. 2	Oliver Cross	Centerville	Shaft	Longwall	Fan	Steam	C. R. I. & P. R. R.
Centerville Block Coal Co., No. 2	Oliver Cross	Centerville	Shaft	Longwall	Fan	Steam	C. B. & Q. R. R.
Centerville Block Coal Co., No. 3	Oliver Cross	Centerville	Shaft	Longwall	Fan	Electricity	C. B. & Q. R. R.
Centerville Block Coal Co., No. 30	Oliver Cross	Centerville	Shaft	Longwall	Fan	Steam	C. R. I. & P. R. R.
Center Coal Co.	Louis Anderson	Centerville	Shaft	Longwall	Fan	Electricity	C. R. I. & T. P. R. R.
Citizens Coal Co.	W. H. Parker	Centerville	Shaft	Longwall	Fan	Electricity	So. Ia. Utility Co.
Clark Coal Co.	Dan Clark	Centerville	Shaft	Longwall	Fan	Steam	Local
Columbus Coal Co.	Frank Cassale	Centerville	Shaft	Longwall	Fan	Electricity	Local
Dennis Coal Co.	Boss Johnson	Centerville	Slope	Longwall	Fan	Horse	Local
Diamond Block Coal Co., No. 29	D. Lodwick	Mystic	Shaft	Longwall	Fan	Steam	C. M. & St. P. R. R.
Domestic Coal Co.	Nova Fowler	Cincinnati	Shaft	Room and Pillar	Fan	Steam	Local
Duff Coal Co.	G. R. Duffer	Mystic, Rt. 2	Shaft	Longwall	Fan	Horse	Local
Egypt Coal Co.	A. Vinnall	Mystic	Slope	Longwall	Fan	Steam	C. M. & St. P. R. R.
Empire Coal Co.	A. W. Judy	Centerville	Shaft	Longwall	Fan	Electricity	So. Ia. Utility Co.
Enterprise Coal Co.	Adam Engle	Numa	Shaft	Longwall	Furnace	Horse	Local
Fairlawn Coal Co.	J. R. Boyd	Centerville	Shaft	Longwall	Fan	Horse	Local
Fenton Coal Co.	T. Lundgren	Centerville	Shaft	Longwall	Fan	Electricity	Local
Fowler & Wilson Coal Co., No. 1	Lora Fenton	Plano, Rt. 1	Slope	Longwall	Furnace	Electricity	Local
Fowler & Wilson Coal Co., No. 2	Robert Hunter	Centerville	Shaft	Longwall	Fan	Steam	C. M. & St. P. R. R.
Friendship Coal Co.	R. Richardson	Cincinnati	Shaft	Room and Pillar	Fan	Steam	C. M. & St. P. R. R.
Garfield Coal Co.	G. S. Lodwick	Centerville	Shaft	Longwall	Fan	Horse	Local
Helman Coal Co.	Chas. Helman	Plano	Shaft	Longwall	Fan	Electricity	C. B. & Q. R. R.
High Test Coal Co.	Geo. Young	Mystic	Shaft	Longwall	Fan	Horse	Local
Hollenbeck Coal Co.	A. Hollenbeck	Centerville	Shaft	Longwall	Fan	Electricity	C. M. & St. P. R. R.
Howser Coal Co.	Frank Howser	Jerome 1	Shaft	Longwall	Fan	Horse	Local
Ideal Coal Co.	W. B. Dunham	Plano, Rt. 1	Shaft	Longwall	Fan	Horse	Local
Iowa Block Coal Co.	Exline	Exline	Shaft	Room and Pillar	Fan	Steam	C. B. & Q. R. R.
Kineade Coal Co.	Ernest Kineade	Centerville	Slope	Longwall	Fan	Horse	Local
Koontz Coal Co.	John Koontz	Centerville	Shaft	Longwall	Fan	Electricity	Local
Lee Coal Co.	Elijah Gorman	Mystic	Slope	Longwall	Furnace	Horse	Local
Lehill Coal Co.	Jas. Colgan	Mystic, Rt. 1	Slope	Longwall	Furnace	Horse	Local
Liberty Coal Co., No. 2	Jas. Colgan	Mystic	Slope	Longwall	Fan	Horse	C. M. & St. P. R. R.
Liberty Coal Co., No. 4	Jas. Colgan	Mystic	Slope	Longwall	Fan	Horse	C. M. & St. P. R. R.
Liberty Coal Co., No. 22	Jas. Colgan	Mystic	Slope	Longwall	Fan	Electricity	C. M. & St. P. R. R.
Little Walnut Coal Co.	John Ball	Mystic	Shaft	Longwall	Furnace	Horse	Local
Lowe Coal Co.	Willard Lowe	Brazil	Slope	Longwall	Furnace	Horse	Local
Maddalozza Coal Co.	V. Maddalozza	Mystic	Slope	Longwall	Furnace	Horse	Local
McConville & Sons Coal Co., No. 1	Ed McConville	Centerville	Shaft	Longwall	Fan	Electricity	So. Ia. Utility Co.
McConville & Sons Coal Co., No. 2	Ed McConville	Centerville	Shaft	Longwall	Fan	Electricity	C. B. & Q. R. R.
McConville & Sons Coal Co., No. 3	Ed McConville	Centerville	Shaft	Longwall	Fan	Electricity	So. Ia. Utility Co.
Moiner Coal Co.	Watt Hitebins	Centerville	Shaft	Longwall	Fan	Electricity	So. Ia. Utility Co.
Mystic Coal Co.	J. Horridge	Mystic	Shaft	Longwall	Fan	Steam	C. M. & St. P. R. R.
Colgan Coal Co.	Jas. Colgan	Mystic	Shaft	Longwall	Fan	Electricity	C. M. & St. P. R. R.
Diamond Lump Coal Co.	Wm. Douglas	Centerville	Shaft	Longwall	Fan	Electricity	C. R. & Q. R. R.
Gray Coal Co.	Elmer Gray	Centerville	Shaft	Longwall	Furnace	Horse	Local
Guinn Coal Co.	Ira Guinn	Coal City	Slope	Room and Pillar	Furnace	Horse	Local
Happy Hollow Coal Co.	Ray Irwin	Cincinnati	Slope	Room and Pillar	Furnace	Horse	Local
Hatner Coal Co.	Lee Minks	Cincinnati	Slope	Room and Pillar	Furnace	Horse	Local
Hern Coal Co.	H. Bumgarner	Numa	Shaft	Room and Pillar	Fan	Horse	Local
Old King Coal Co.	Jacob Ritter	Centerville	Shaft	Longwall	Fan	Electricity	C. B. & Q. R. R.
Old Oak Coal Co.	F. Stratton	Plano	Shaft	Longwall	Fan	Horse	Local
Red Bird Coal Co.	A. Rhodes	Seymour	Shaft	Longwall	Fan	Horse	Local
Samatvich Coal Co.	Ed Samatvich	Centerville	Shaft	Longwall	Fan	Horse	Local
Shord Creek Coal Co.	W. O. Day	Idell	Slope	Longwall	Furnace	Horse	Local
Tomatich Coal Co.	Tony Tomatich	Numa	Slope	Longwall	Furnace	Horse	Local
Peck Coal Co.	Geo. Peck	Mystic	Slope	Longwall	Furnace	Horse	Local
Pidgeon Creek Coal Co.	R. Caldwell	Exline	Slope	Longwall	Furnace	Horse	Local
Young Coal Co.	Wm. Epy	Centerville	Slope	Longwall	Furnace	Horse	Local
New Star Coal Co.	Stanford Pugh	Centerville	Slope	Room and Pillar	Fan	Horse	Local
North Hill Coal Co.	A. Goughnor	Centerville	Shaft	Longwall	Fan	Horse	Local
Numa Coal Co.	B. Arbogast	Numa	Shaft	Longwall	Fan	Electricity	C. R. I. & P. R. R.
Peacock Coal Co.	S. R. Lawton	Brazil	Slope	Longwall	Furnace	Horse	C. B. & Q. R. R.
Prairie Coal Co., No. 1	Robert Hunter	Centerville	Shaft	Longwall	Fan	Steam	C. R. I. & P. R. R.
Prairie Coal Co., No. 2	Robert Hunter	Centerville	Shaft	Longwall	Fan	Steam	C. R. I. & P. R. R.
Prospect Coal Co.	M. F. Hughes	Exline, Rt. 1	Slope	Longwall	Fan	Horse	Local
Raney Coal Co.	Ira Lowe	Centerville	Shaft	Longwall	Fan	Horse	Local
Rathburn Coal Co.	Roy Harbour	Rathburn	Slope	Longwall	Fan	Electricity	C. M. & St. P. R. R.
Rock Valley Coal Co.	Wm. Campbell	Centerville	Shaft	Longwall	Fan	Electricity	Local
Rosebrook Coal Co.	L. L. Lodwick	Mystic	Shaft	Longwall	Fan	Electricity	C. B. & Q. R. R.
Scratchfield Coal Co.	E. Scratchfield	Cincinnati, Rt. 1	Shaft	Longwall	Furnace	Horse	Local
Siar Coal Co.	A. Horrick	Mystic	Slope	Longwall	Fan	Horse	C. B. & Q. R. R.
Sterling Coal Co.	J. Q. Adams	Centerville	Shaft	Longwall	Fan	Electricity	So. Ia. Utility Co.
Sunshine Coal Co.	J. R. Hamn	Centerville	Shaft	Longwall	Fan	Electricity	C. B. & Q. R. R.
Thistle Coal Co.	Geo. Dinning	Cincinnati	Shaft	Room and Pillar	Fan	Steam	C. B. & Q. R. R.
Truby Coal Co.	J. A. Truby	Mystic, Rt. 1	Shaft	Longwall	Fan	Horse	Local
White Coal Co.	A. Hutchinson	Exline	Shaft	Longwall	Furnace	Horse	Local
Winnifred Coal Co.	L. L. Lodwick	Mystic	Shaft	Longwall	Fan	Steam	C. M. & St. P. R. R.

STATISTICS OF IOWA MINING

## LIST OF OPERATING COAL COMPANIES, SUPERINTENDENTS, ETC., IN DISTRICT NO. 1—Continued

## MONROE COUNTY

Name of Company and Mine Number	Superintendent	Address	Shaft or Slope	Plan of Working	How Ventilated	Power Used	Shipping or Local
Albia Coal Co.	H. H. Harris	Albia	Shaft	Room and Pillar	Fan	Steam	M. & St. L. R. R.
Chrisman Coal Co.	Bert Chrisman	Albia	Slope	Room and Pillar	Furnace	Horse	Local
Center Coal Co.	Gus Larson	Albia	Slope	Room and Pillar	Furnace	Horse	Local
Foster Coal Co.	Wm. Madison	Albia	Slope	Room and Pillar	Furnace	Horse	Local
Graham Coal Co.	A. C. Bridges	Albia	Shaft	Room and Pillar	Fan	Steam	C. B. & Q. R. R.
Hartley Coal Co.	J. W. Hartley	Albia	Shaft	Room and Pillar	Fan	Steam	Local
Hocking Coal Co.	A. E. Hutton	Hocking	Shaft	Room and Pillar	Fan	Electricity	M. & St. L. R. R.
Iowa South West Coal Co.	J. L. Hartshorn	Albia	Slope	Room and Pillar	Furnace	Horse	Local
Main Line Coal Co.	Frank Cook	Frederick	Slope	Room and Pillar	Fan	Horse	Local
White Oak Coal Co.	T. T. Williams	Albia	Shaft	Room and Pillar	Fan	Horse	Local

## LUCAS COUNTY

Briggs Coal Co.	Walter Briggs	Purdy, Rt. 1	Slope	Room and Pillar	Furnace	Horse	Local
Central Iowa Fuel Co., No. 2	W. M. Malone	Chariton	Shaft	Room and Pillar	Fan	Steam	C. R. I. & P. R. R.
Central Iowa Fuel Co., No. 4	W. M. Malone	Chariton	Shaft	Room and Pillar	Fan	Steam	C. R. I. & P. R. R.
Central Iowa Fuel Co., No. 5	W. M. Malone	Chariton	Shaft	Room and Pillar	Fan	Electricity	C. R. I. & P. R. R.
Lucas County Coal Co.	E. G. Daniels	Lucas	Shaft	Longwall	Fan	Horse	Local
Nussbaum Coal Co.	F. E. Nussbaum	Lacota	Slope	Room and Pillar	Furnace	Horse	Local
Ritchey Coal Co.	Thos. Gill	Russell	Slope	Room and Pillar	Furnace	Horse	Local
Union Coal Co.	Bert Hartzhorn	Lucas	Fan	Longwall	Fan	Horse	Local

## WAYNE COUNTY

Bennett Coal Co.	E. R. Benett	Promise City Rt. 2	Shaft	Longwall	Fan	Horse	Local
Hayburst Coal Co.	Alf Hayburst	Promise City Rt. 2	Shaft	Longwall	Fan	Horse	Local
Rissler Coal Co.	F. H. Rissler	Melrose, Rt. 3	Shaft	Longwall	Fan	Horse	Local
Seymour Coal Co.	Sidney Voice	Seymour	Shaft	Longwall	Fan	Horse	C. R. I. & P. R. R.
Shie Coal Co.	Art. McCannon	Myatie	Slope	Longwall	Furnace	Horse	Local
Violet Valley Coal Co.	Wm. Steffy	Seymour	Shaft	Longwall	Fan	Gasoline	Local

## ADAMS COUNTY

Black Diamond Coal Co.	E. G. Meggison	Nodaway, Rt. 2	Slope	Longwall	Fan	Horse	Local
Henton Coal Co.	John Henton	Carbon	Shaft	Longwall	Fan	Horse	Local
Hunter Coal Co.	F. A. Hunter	Carbon, Rt. 2	Slope	Longwall	Furnace	Horse	Local
McKinley Coal Co.	J. McKinley	Villisca, Rt. 2	Slope	Longwall	Fan	Horse	Local
Ruth Coal Co.	J. F. Ruth	Carbon	Shaft	Longwall	Furnace	Horse	Local
Smith Coal Co.	Percy Smith	Carbon	Shaft	Longwall	Furnace	Horse	Local
Villisca Coal Co.	A. E. Peterson	Villisca	Slope	Longwall	Fan	Horse	Local

## PAGE COUNTY

Evans Coal Co.	Geo. Evans	Clarinda	Shaft	Longwall	Fan	Electricity	Local
Pearson Coal Co., No. 1	Harley Pearson	Clarinda	Shaft	Longwall	Fan	Electricity	Local
Pearson Coal Co., No. 2	Harley Pearson	Clarinda	Shaft	Longwall	Fan	Electricity	C. B. & Q. R. R.

## TAYLOR COUNTY

Bean Coal Co.	John Bean	New Market	Shaft	Longwall	Fan	Horse	Local
Carbon Coal Co.	Sime Osborn	New Market	Slope	Longwall	Furnace	Horse	Local
Clean Coal Co.	Wm. Drake	Gravity	Shaft	Longwall	Fan	Electricity	Local
New Market Coal Co.	Jas. Pollen, Sr.	New Market	Shaft	Longwall	Fan	Electricity	C. B. & Q. R. R.

**LIST OF COAL COMPANIES, SUPERINTENDENTS, ETC., IN DISTRICT NO. 2  
WAPELLO COUNTY**

42

REPORT IOWA MINE INSPECTORS

Name of Company and Mine Number	Superintendent	Address	Shaft or Slope	Plan of Working	How Ventilated	Power Used	Shipping or Local
Indian Head Coal Co.		Ottumwa.	Shaft.	Room and Pillar.	Fan.	Electricity.	Local
Union Coal Co.	W. J. Sullivan.	Ottumwa.	Shaft.	Longwall.	Fan.	Steam.	Local
Big Four Coal Co.	John Genocchio.	Ottumwa.	Shaft.	Room and Pillar.	Fan.	Steam.	Local
Rutledge Coal Co.	John Howard.	Ottumwa.	Shaft.	Room and Pillar.	Fan.	Steam.	Local
Glendale Coal Co.	John Whitlam.	Ottumwa.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
Akers Coal Co.	Charles Akers.	Ottumwa.	Slope.	Longwall.	Natural.	Horse.	Local
Fleener Coal Co.	C. W. Fleener.	Ottumwa, R.F.D. No. 7.	Shaft.	Longwall.	Natural.	Horse and Gin.	Local
Bowers Coal Co.	Frank Bowers.	Ottumwa.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
Reese Coal Co.	Richard Reese.	Ottumwa.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
Simpson Bros. Coal Co.	William Simpson.	Ottumwa.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
William Miers Coal Co.	William Miers.	Ottumwa, R.F.D. No. 4.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
Utterback Coal Co.	A. H. Utterback.	Ottumwa, R.F.D. No. 6.	Slope.	Room and Pillar.	Natural.	Horse.	Local
Rogers Coal Co.	William Rogers.	Ottumwa, R.F.D. No. 8.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
Gibb Bros. Coal Co.	Thomas Gibb.	Ottumwa, R.F.D. No. 8.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
Shute Coal Co.	H. M. Shute.	Ottumwa.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
Larkin Coal Co.	William Larkin.	Ottumwa, R.F.D. No. 4.	Shaft.	Room and Pillar.	Natural.	Horse and Gin.	Local
Griffiths Bros. Coal Co.	Roger Griffiths.	Ottumwa, R.F.D. No. 8.	Slope.	Room and Pillar.	Natural.	Horse and Gin.	Local
Santen Coal Co.	Sam W. Yolt.	Blakesburgh, R. F. D. No. 3.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
Wignall Bros. Coal Co.	William Wignall.	Blakesburgh, R. F. D. No. 3.	Shaft.	Room and Pillar.	Natural.	Horse and Gin.	Local
Rowleys Coal Company.	Henry Rowley.	Blakesburgh, R. F. D. No. 3.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
Lipovac Coal Co.	Ralph Lipovac.	Ottumwa.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
L. A. Kellar Coal Co.	L. A. Kellar.	Ottumwa, R.F.D. No. 5.	Shaft.	Room and Pillar.	Natural.	Horse and Gin.	Local
Sells Coal Co.	Henry Sells.	Ottumwa.	Slope.	Room and Pillar.	Natural.	Horse and Gin.	Local
Carr Bros. Coal Co.	E. Carr.	Eldon.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
Weist Coal Co.	Homer C. Weist.	Eldon.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
Stribling Coal Co.	M. Stribling.	Eldon.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
McIntosh Coal Co.	Wm. McIntosh, Jr.	Eldon.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
Sickles Coal Co.	W. B. Sickles.	Eldon.	Slope.	Room and Pillar.	Natural.	Horse.	Local

Hartwig Coal Co.	H. D. Hartwig.	Eldon, R.F.D. No. 2.	Slope.	Room and Pillar.	Natural.	Horse.	C., R. I. & P. R. R.
Dawson Coal Co.	John W. Dawson.	Kirkville.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
John Davis Coal Co.	John Davis.	Kirkville.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local

**MONROE COUNTY**

Superior Coal Co., No. 18.	John Day.	Bucknell.	Shaft.	Room and Pillar.	Fan.	Steam.	C. & N. W. R. R.
Superior Coal Co., No. 19.	John Day.	Bucknell.	Shaft.	Room and Pillar.	Fan.	Electricity.	C. & N. W. R. R.
Rex Fuel Co., No. 5.	W. A. Flynn.	Albia.	Shaft.	Room and Pillar.	Fan.	Electricity.	C. & N. W. R. R.
Monroe Block Coal Co., No. 4.	W. A. Flynn.	Albia.	Shaft.	Room and Pillar.	Fan.	Steam.	C. & N. W. R. R.
Lovilia Coal Co.	James Smith.	Lovilia.	Shaft.	Room and Pillar.	Fan.	Steam.	C. & N. W. R. R.
Smoky Hollow Coal Co., No. 10.	William Jones.	Hiteman.	Shaft.	Room and Pillar.	Fan.	Steam.	C., B. & Q. R. R.
Smoky Hollow Coal Co., No. 12.	William Jones.	Hiteman.	Shaft.	Room and Pillar.	Fan.	Steam.	C., B. & Q. R. R.
Carbon Coal Co., No. 1.	Wm. Scott.	Albia.	Shaft.	Room and Pillar.	Fan.	Electricity.	M. & St. L. R. R.
Carbon Coal Co., No. 3.	Wm. Scott.	Albia.	Slope.	Room and Pillar.	Fan.	Steam.	M. & St. L. R. R.
Blackstone Coal Co.	C. C. Amber.	Lovilia, R.F.D. No. 1.	Shaft.	Room and Pillar.	Fan.	Horse and Gin.	Local
Bickford Coal Co.	Ed. Bickford.	Eddyville.	Slope.	Room and Pillar.	Natural.	Horse.	Local

**JEFFERSON COUNTY**

Star Coal Co.	J. Ellsworth.	Fairfield, R.F.D. No. 7.	Shaft.	Room and Pillar.	Fan.	Gasoline.	Local
Bonnett Coal Co.	Ed. Bonnett.	Fairfield, R.F.D. No. 7.	Slope.	Room and Pillar.	Natural.	Horse.	Local
Cross Coal Co.	R. B. Cross.	Birmingham, R.F.D. No. 2.	Slope.	Room and Pillar.	Natural.	Horse.	Local

STATISTICS OF IOWA MINING

43

## LIST OF COAL COMPANIES, SUPERINTENDENTS, ETC., IN DISTRICT NO. 2—Continued

## MAHASKA COUNTY

Name of Company and Mine Number	Superintendent	Address	Shaft or Slope	Plan of Working	How Ventilated	Power Used	Shipping or Local
Switzer Coal Co.	Chas. Switzer	Eddyville	Shaft	Room and Pillar	Fan	Steam	Local
Hynick Coal Co.	John Hynick	Given, R. F. D.	Shaft	Room and Pillar	Fan	Horse and Gin	Local
Fedro Coal Co.	Mike Fedro	Given, R. F. D.	Slope	Room and Pillar	Natural	Horse	Local
Oskaloosa Coal Mining Co.	William Ramsay	Oskaloosa	Slope	Room and Pillar	Fan	Gasoline	Local
Big Four Coal Co.	W. E. Bricker	Oskaloosa	Slope	Room and Pillar	Natural	Gasoline	Local
Adams Coal Co.	I. C. Adams	Oskaloosa	Slope	Room and Pillar	Natural	Gasoline	Local
Eddy Coal Co.	Evan Williams	Beacon	Slope	Room and Pillar	Natural	Horse	Local
Ellis Coal Co.	A. M. Ellis	Given	Slope	Room and Pillar	Natural	Steam	Local
Roberts Bros. Coal Co.	Richard Roberts	Oskaloosa	Shaft	Room and Pillar	Fan	Steam	Local
Dixon Coal Co.	Guy Cameron	Oskaloosa	Shaft	Room and Pillar	Fan	Gasoline	Local
Swanson & Hohm Coal Co.	Martin Hohm	Oskaloosa	Slope	Room and Pillar	Natural	Horse and Gin	Local
Borges & Woodward Coal Co.	Albert Woodward	Oskaloosa	Slope	Room and Pillar	Fan	Horse and Gin	Local
Edwards Bros. Coal Co.	Mathew Edwards	Oskaloosa	Slope	Room and Pillar	Natural	Horse and Gin	Local
Beadle & Clark Coal Co.	J. Beadle	Beacon	Slope	Room and Pillar	Natural	Horse	Local
O'Brien & Edwards Coal Co.	Jerry O'Brien	Beacon	Slope	Room and Pillar	Natural	Horse	Local
Evans Coal Co.	Thomas Evans	Evans	Slope	Room and Pillar	Fan	Horse and Gin	Local
Finchville Coal Co.	James Wilson	Evans	Slope	Room and Pillar	Natural	Steam	Local
Lewis Coal Co.	Thomas Lewis	Given	Slope	Room and Pillar	Natural	Horse and Gin	Local
Given Coal Co., No. 1	Roy Ellis	Given	Slope	Room and Pillar	Natural	Horse and Gin	Local
Given Coal Co., No. 2	Roy Ellis	Given	Slope	Room and Pillar	Natural	Horse and Gin	Local
Patterson Coal Co.	R. C. Patterson	Oskaloosa	Shaft	Room and Pillar	Fan	Horse and Gin	Local
Matrison Coal Co.	J. M. Matrison	Oskaloosa	Slope	Room and Pillar	Natural	Horse and Gin	Local
Herling & Matrison Coal Co.	John Matrison	Oskaloosa	Slope	Room and Pillar	Natural	Horse and Gin	Local
Thatcher Coal Co.	W. T. Thatcher	Oskaloosa	Slope	Room and Pillar	Natural	Horse and Gin	Local
Ahoweller Coal Co.	Chas. Ahoweller	Oskaloosa	Slope	Room and Pillar	Natural	Horse	Local
Mathes & Blanchard Coal Co.	C. A. Blanchard	Oskaloosa	Slope	Room and Pillar	Natural	Horse and Gin	Local
DePrehn Coal Co.	Wm. DePrehn	Oskaloosa	Slope	Room and Pillar	Natural	Horse and Gin	Local
Gasper & Gergely Coal Co.	Steve Gasper	Lakota	Slope	Room and Pillar	Natural	Gasoline	Local
Evans Brothers Coal Co.	David Evans	Eddyville	Slope	Room and Pillar	Natural	Horse	Local
Williams Coal Co.	E. F. Williams	New Sharon	Slope	Room and Pillar	Natural	Horse	Local
Furnald Coal Co.	R. H. Furnald	Oskaloosa	Slope	Room and Pillar	Natural	Horse and Gin	Local
Nelson Bros. Coal Co.	W. T. Nelson	Oskaloosa	Shaft	Room and Pillar	Natural	Horse and Gin	Local
White & Ferguson Coal Co.	Geo. H. White	Rose Hill	Shaft	Room and Pillar	Natural	Horse and Gin	Local
Canyon Coal Co.	D. C. Evieland	Beacon, R. F. D.	Shaft	Room and Pillar	Fan	Horse and Gin	Local
Kuntz Coal Co.	Joe Kuntz	What Cheer	Slope	Room and Pillar	Natural	Horse	Local

## JASPER COUNTY

Colfax Coal Co.	William Abram	Colfax	Shaft	Room and Pillar	Fan	Steam	Local
Hopkins Coal Co.	H. E. Hopkin	Colfax	Shaft	Room and Pillar	Fan	Steam	Local
Sunnybrook Coal Co.	John Warrick	Colfax	Shaft	Room and Pillar	Fan	Steam	Local
McCool Coal Co.	J. M. McKeever	Colfax	Shaft	Room and Pillar	Fan	Horse and Gin	Local
Prairie City Coal Co.	Chas. Conway	Prairie City	Shaft	Room and Pillar	Fan	Steam	Local
Boulard Coal Co.	W. Boulard	Prairie City	Shaft	Room and Pillar	Fan	Steam	Local
Wolfe Coal Co.	J. W. Wolfe	Prairie City	Slope	Room and Pillar	Natural	Horse	Local
Newton Coal Co.	John R. Coffman	Newton, R. F. D.	Shaft	Room and Pillar	Fan	Steam	Local
Jackson Coal Co.	J. E. Jackson	No. 4	Shaft	Room and Pillar	Fan	Horse and Gin	Local
Marshall Coal Co.	J. R. Marshall	Monroe	Slope	Room and Pillar	Natural	Horse	Local
G. W. Coal Co.	Merle Steins	Monroe	Slope	Room and Pillar	Natural	Horse and Gin	Local

## KEOKUK COUNTY

Big Four Coal Co.	Thomas Bell	What Cheer	Shaft	Room and Pillar	Fan	Steam	Local
Olive Coal Co.	Ollie Olive	Delta	Shaft	Room and Pillar	Natural	Horse and Gin	Local
Wileys Coal Co.	A. G. Wiley	Delta	Slope	Room and Pillar	Natural	Horse	Local

## MARION COUNTY

Consolidated Indiana Coal Co.	John Hall	Melcher	Shaft	Room and Pillar	Fan	Electricity	C., R. I. & P. R. R.
Red Rock Coal Co.	Charles Anderson	Melcher	Shaft	Room and Pillar	Fan	Steam	C., R. I. & P. R. R.
Pershing Coal Co.	J. E. Williams	Tracey	Shaft	Room and Pillar	Natural	Gasoline	Wabash Ry.
McElrea Coal Co.	Walter McElrea	Dallas	Slope	Room and Pillar	Natural	Horse	Local
Galtin Coal Co.	R. M. Galtin	Knoxville	Slope	Room and Pillar	Natural	Horse	Local
McAllister Coal Co.	Charles McAllister	Dallas	Slope	Room and Pillar	Natural	Gasoline	Local
Newton Coal Co.	John W. Newton	Dallas	Slope	Room and Pillar	Natural	Gasoline	Local
Knox Coal Co.	Alex Knox	Knoxville	Shaft	Room and Pillar	Fan	Gasoline	Local
Fortner Coal Co.	Charles Fortner	Knoxville, R. F. D.	Slope	Room and Pillar	Natural	Horse and Gin	Local
Kendall Coal Co.	C. C. Kendall	Marysville	Slope	Room and Pillar	Natural	Horse	Local
Wallace & Ahn Coal Co.	U. Wallace	Marysville	Slope	Room and Pillar	Natural	Horse	Local
Success Coal Co.	John Longden	Oley	Slope	Room and Pillar	Fan	Steam	Local
Honey Creek Coal Co.	Phil Bishop	Knoxville, R. F. D.	Slope	Room and Pillar	Natural	Gasoline	Local
Thompson Coal Co.	D. P. Thompson	Des Moines	Slope	Room and Pillar	Natural	Steam	Local
Hays Bros. Coal Co.	C. H. Hays	Knoxville, R. F. D.	Slope	Room and Pillar	Natural	Horse and Gin	Local
Six Coal Co.	L. H. Six	Knoxville, R. F. D.	Slope	Room and Pillar	Natural	Horse	Local
Cedar Creek Coal Co.	Clarence Bennett	Bussey	Slope	Room and Pillar	Fan	Horse and Gin	Local
Horse Shoe Coal Co.	O. Villant	Bussey	Shaft	Room and Pillar	Natural	Horse	Local
Johns Bros. Coal Co.	Harry Johns	Bussey	Slope	Room and Pillar	Natural	Horse	Local
Riggins Coal Co.	Chas. R. Riggins	Harvey	Slope	Room and Pillar	Fan	Gasoline	Local
Vernon & Booth Coal Co.	Leo B. Vernon	Pleasantville	Shaft	Room and Pillar	Fan	Gasoline	Local

LIST OF COAL COMPANIES, SUPERINTENDENTS, ETC., IN DISTRICT NO. 2—Continued  
MARION COUNTY—Continued

46

REPORT IOWA MINE INSPECTORS

Name of Company and Mine Number	Superintendent	Address	Shaft or Slope	Plan of Working	How Ventilated	Power Used	Shipping or Local
Hamilton Coal Co.	Fred Clements	Hamilton	Shaft	Room and Pillar	Fan	Steam	C., R. & Q. R. R.
Vanceunebrock Coal Co.	F. Vanceunebrock	Knoxville, R. F. D.	Slope	Room and Pillar	Natural	Gasoline	Local
Barnes Coal Co.	John Barnes	Percey	Slope	Room and Pillar	Natural	Horse	Local
Bryant Bros. Coal Co.	J. Bryant	Harvey	Slope	Room and Pillar	Natural	Horse	Local

VAN BUREN COUNTY

Daniels Coal Co.	John Daniels	Doubs	Shaft	Room and Pillar	Fan	Steam	Local
Ratcliff Coal Co.	R. A. Ratcliff	Doubs	Shaft	Room and Pillar	Fan	Horse and Gin	Local
Tweedy Coal Co.	James Tweedy	Doubs	Shaft	Room and Pillar	Natural	Horse and Gin	Local
Slaughter Coal Co.	Frank Friel	Farmington	Slope	Room and Pillar	Natural	Horse and Gin	Local
Blue Jacket Coal Co.	Chas. F. Howe	Farmington	Shaft	Room and Pillar	Natural	Horse and Gin	Local
Logan & Dodds Coal Co.	John Logan	Mt. Zion	Shaft	Room and Pillar	Natural	Horse and Gin	Local
Greer & Son Coal Co.	Chas. Greer	Mt. Zion	Shaft	Room and Pillar	Natural	Horse and Gin	Local
Burt Carr Coal Co.	Burt Carr	Doubs	Slope	Room and Pillar	Natural	Horse	Local
Albright Coal Co.	Frank Albright	Birmingham	Shaft	Room and Pillar	Natural	Horse and Gin	Local

DAVIS COUNTY

Lunsford Bros. Coal Co.	D. D. Lunsford	Bloomfield	Shaft	Room and Pillar	Fan	Steam	Local
Van Patten Coal Co.	Robt. Van Patten	Floris	Slope	Room and Pillar	Natural	Horse	Local
Lester Coal Co.	J. C. Lester	Ottumwa	Slope	Room and Pillar	Natural	Horse	Local
Carder Coal Co.	E. Carder	Ottumwa	Slope	Room and Pillar	Natural	Horse	Local
Mitchell Bros. Coal Co.	Joe Mitchell	Floris, R. F. D. No. 2	Slope	Room and Pillar	Natural	Horse	Local

LIST OF COAL COMPANIES, SUPERINTENDENTS, ETC., IN DISTRICT NO. 3  
POLK COUNTY

Name of Company and Mine Number	Superintendent	Address	Shaft or Slope	Plan of Working	How Ventilated	Power Used	Shipping or Local
Beck Coal & Mining Co.	John Beck	506 6th Ave., Des Moines	Shaft	Room and Pillar	Fan	Electricity	Local
Bennett Bros. Coal Co.	A. A. Bennett	437 Grand Ave., Des Moines	Shaft	Room and Pillar	Fan	Steam	Local
Central Service Co., No. 3	S. Blount	390 Maple St., Des Moines	Shaft	Room and Pillar	Fan	Electricity	Local
Commerce Coal Co.	Rex Greene	Commerce	Shaft	Longwall	Natural	Horse	Local
Des Moines Coal Co., No. 4	Fred Norwood	418 V. N. B. Bldg., Des Moines	Shaft	Room and Pillar	Fan	Electricity	Local
Diamond Joe Coal Co., No. 2	Robt. Sanford	Runnells	Shaft	Room and Pillar	Fan	Electricity	Local
Economy Coal Co., No. 2	John H. Ramsey	Des Moines	Shaft	Room and Pillar	Fan	Steam	C., R. I. & P. R. R.
Gibson Coal Co.	John Gibson	225 Iowa Bldg., Des Moines	Shaft	Room and Pillar	Fan	Electricity	C., M. & St. P. R. R.
Independent Coal Co.	Wm. Griffiths	Des Moines	Shaft	Room and Pillar	Fan	Steam	Local
Gross, J. R. Coal Co.	J. R. Gross	Des Moines	Shaft	Room and Pillar	Natural	Gasoline	Local
Norwood-White Coal Co., No. 8	J. D. Phillips	907 B. T. Bldg., Des Moines	Shaft	Room and Pillar	Fan	Electricity	Inter Urban Ry.
Preston Coal Co.	Preston	B. F. D., Des Moines	Slope	Room and Pillar	Natural	Gasoline	Local
Saylor Coal Co.	E. F. Roberts	606 Grand Ave., Des Moines	Shaft	Room and Pillar	Fan	Electricity	C. & N. W. R. R.
Shultz Coal Co.	F. D. Shultz	2450 E. Grand, Des Moines	Shaft	Room and Pillar	Fan	Gasoline	Local
Urbandale Coal Co.	Leroy Twining	408 11th St., Des Moines	Shaft	Room and Pillar	Fan	Steam	Inter Urban Ry.

DALLAS COUNTY

Dallas County Products Co.	Pete Haywood	Woodward	Shaft	Room and Pillar	Fan	Electricity	C., M. & St. P. R. R.
Norwood-White Coal Co.	J. D. Phillips	907 B. T. Bldg., Des Moines	Shaft	Room and Pillar	Fan	Electricity	Inter Urban Ry.
Scandia Coal Co.	Owen Reese	606 Grand Ave., Des Moines	Shaft	Room and Pillar	Fan	Steam	C., M. & St. P. R. R.
Shuler Coal Co.	H. M. Shuler	706 So. Surety, Des Moines	Shaft	Room and Pillar	Fan	Electricity	C., M. & St. P. R. R.

STATISTICS OF IOWA MINING

47

LIST OF COAL COMPANIES, SUPERINTENDENTS, ETC., IN DISTRICT NO. 3—Continued  
GUTHRIE COUNTY

Name of Company and Mine Number	Superintendent	Address	Shaft or Slope	Plan of Working	How Ventilated	Power Used	Shipping or Local
Butler Coal Co.	Jas. G. Butler	Guthrie Center	Shaft	Longwall	Fan	Horse	Local
Matt Mallon Coal Co.	Matt Mallon	Guthrie Center	Shaft	Longwall	Fan	Horse	Local
Jack Mansell Coal Co.	Jack Mansell	Guthrie Center	Shaft	Longwall	Fan	Horse	Local
W. H. Scott Coal Co.	W. H. Scott	Guthrie Center	Shaft	Longwall	Fan	Horse	Local
Sipe Coal Co.	H. M. Sipe	Guthrie Center	Shaft	Longwall	Fan	Horse	Local
Thomas Coal Co.	W. H. Thomas	Guthrie Center	Shaft	Longwall	Fan	Gasoline	Local
Elmer Renslow Coal Co.	Elmer Renslow	Guthrie Center	Shaft	Longwall	Natural	Horse	Local

WARREN COUNTY

Great Western Coal Co.	John Duro	201 Equitable, Des Moines	Shaft	Room and Pillar	Fan	Steam	C. G. W. R. R.
Grills & McGovern Coal Co.	Harry Grills	Hartford	Shaft	Room and Pillar	Natural	Horse	Local
Indian Valley Gloss Coal Co.	Virgil McCall	606 Obs. Bldg., Des Moines	Shaft	Room and Pillar	Fan	Steam	C., R. I. & P. R. R.
Central Service Coal Co.	S. Blount	100 Maple St., Des Moines	Slope	Longwall	Fan	Steam	C., R. I. & P. R. R.
King Bros. Coal Co.	Elmer King	Hartford	Slope	Longwall	Natural	Horse	Local
Lanti Miller Coal Co.	Lanti Miller	Lacoma	Shaft	Longwall	Natural	Horse	Local
Maple Leaf Coal Co.	Alexander	Lacoma	Slope	Longwall	Natural	Horse	Local
Oak Hill Coal Co.	Phos. Farley	Carlisle	Shaft	Longwall	Natural	Steam	Local

BOONE COUNTY

Benson Coal Co.	Wm. Benson	Boone	Shaft	Longwall	Fan	Steam	C. G. W. R. R.
Boone Coal Co.	W. D. Johnson	Boone	Shaft	Longwall	Fan	Steam	C. N. W. R. R.
Carpenter Coal Co.	Wood Carpenter	Boone	Shaft	Longwall	Fan	Gasoline	Local
Kennedy & Blosser Coal Co.	Robt. Kennedy	Pilot Mound	Shaft	Longwall	Natural	Horse	Local
Scandia Coal Co., No. 4	Owen Reese	606 Grand Ave., Des Moines	Shaft	Room and Pillar	Fan	Steam	C., M. & St. P. R. R.
Scandia Coal Co., No. 6	Owen Reese	606 Grand Ave., Des Moines	Shaft	Room and Pillar	Fan	Steam	C., M. & St. P. R. R.
Spring Valley Coal Co.	A. Pestotnick	Boone	Shaft	Longwall	Fan	Horse	Local

WEBSTER COUNTY

Riverside Coal Co.	A. Munson	Lehigh	Shaft	Longwall	Natural	Horse	Local
White Coal Co.	Richard Jordison	R. F. D., Ft. Dodge	Shaft	Longwall	Fan	Steam	Local
Valley Coal Co.	M. Williams	Lehigh	Slope	Longwall	Fan	Horse	Local

GREENE COUNTY

Creek Side Coal Co.	J. E. Garvin	Dawson	Shaft	Room and Pillar	Fan	Horse	Local
River Side Coal Co.	M. Felth	Rippey	Shaft	Room and Pillar	Fan	Horse	Local

1924-1927 AGREEMENT BETWEEN THE MEMBERS OF DISTRICT NO. 13, U. M. W. OF A., PARTIES OF THE FIRST PART, AND THE MEMBERS OF THE IOWA COAL OPERATORS' ASSOCIATION, PARTIES OF THE SECOND PART, APRIL 1, 1924 TO MARCH 31, 1927.

DES MOINES AGREEMENT

This contract, made and entered into by and between District No. 13, of the U. M. W. of A. and each member thereof, party of the first part, and the Iowa Coal Operators Association and each member thereof, party of the second part.

WITNESSETH: That it is understood and agreed that all of the terms and provisions herein contained are for the exclusive joint use and benefit of District No. 13 of the U. M. W. of A. and each member thereof, and each and every member of the Iowa Coal Operators Association, and this agreement is entered into with the hope and belief that the advance in wages will result in the increased production of coal and that the good relations existing between the members of the two Associations will continue without the interruption of local strikes called in violation of the Agreement which is not countenanced by either Association.

It is agreed that said contract shall take effect April 1, 1924, and remain in effect until March 31, 1927.

AGREEMENT MADE BY THE IOWA COAL OPERATORS ASSOCIATION OF IOWA AND THE UNITED MINE WORKERS OF DISTRICT NO. 13, EFFECTIVE APRIL 1, 1924, UNTIL MARCH 31, 1927, BOTH INCLUSIVE.

The prices to be paid for pick mined coal in the various sub-districts named below, of said District 13, during the period commencing April 1, 1924, and ending March 31, 1927, shall be as follows, per ton of two thousand pounds, mine run or lump coal, as hereinafter provided in the various sub-districts.

SUB-DISTRICT NO. ONE

The mines in Sub-District No. 1, will operate on a screened coal or handpicked basis at the option of the operator, except the mines in Missouri under our jurisdiction which shall be on an absolute mine run basis except where otherwise agreed to, and the screens shall be flat bars of not less than five-eighths ( $\frac{5}{8}$ ) of an inch surface, and not to exceed one and one-quarter ( $1\frac{1}{4}$ ) inches between the bars, and not to exceed seventy-two (72) square feet of superficial area, free from obstruction, and the bars of each screen shall rest upon a sufficient number of bearings to hold the bars in proper position. No screens provided for in this agreement shall be more than twelve (12) feet in length, except those now in use, nor have anything on or near them which will impede the progress of the coal over the screen and all screens shall have a sufficient pitch to clear themselves of all coal under ordinary conditions.

In the mines of Putnam county, Missouri, the miner must load his coal as free from impurities as is practicable. He shall at all

times remove his mining dirt before taking his fall of coal down, and when cutting a corner, he must cut the same in such a workmanlike manner as will permit the separating and removal of the clay band, and gob the same. Should any miner violate any of the provisions of this clause, he shall be fined 50 cents for the first offense, \$1.00 for the second, and for the third within thirty days from the time of the first offense, he shall be subject to discharge or a fine of \$2.00 at the option of the operator.

Mine Run Coal, Putnam County, Mo.	\$1.80
Hand Picked Coal, per ton	2.00
Screened Lump Coal, per ton	2.00
Eight-Foot Entry, per yard	2.78
Twelve-Foot Entry, per yard	2.15
Fourteen-Foot Entry, per yard	2.09
Room Turning, 12 to 14 foot doorway	3.60

Double shifting entries, 25 cents per yard extra. This is construed to mean where entry men are employed two separate shifts of eight hours each in twenty-four hours.

ROOM TURNING.

Where the neck is required to be cut a greater depth than 9 feet on either side, the entry yardage price shall apply.

TURNING ROOMS OFF OF SKIP ENTRIES AND LAYING OF SWITCHES.

It is agreed the company shall furnish extra cars on demand when needed, by the miners, driving skip entries, for the purpose of handling their dirt, and such cars will not be counted on the coal turn. It is also understood the above shall not apply when the miner has reasonable space in his place to gob his dirt. And switch must be laid by the company not later than the day following after pit boss has been notified that branch is ready, and on failure to comply with the above provision, said miner will have just cause for complaint, and be entitled to compensation for such loss.

It is understood that the miner is not entitled to compensation for the day he demands the switch, nor on the day the switch is laid. The miner has no claim for compensation for intervening time, unless he applies to the foreman for work, and is refused.

SCALE FOR LONG WALL CHAIN MINING MACHINES IN SUB-DISTRICT NO. 1.

DUTIES OF MACHINE CREW.

a. The machine crew shall mine in the clay as near the coal as practicable to clear the dutchman, remove the dirt cut by the machine from under the coal and gob same and leave not less than 2½ feet of space between gob and face of coal, provided that if there is not enough space to hold dirt cut by the machine as stated above then the company will furnish cars at first switch and if cars are not furnished as agreed, machine crew shall throw machine dirt in roadway to be removed at the expense of company.

They will also clean up, prop, and sprag the places ready for the loaders.

b. They shall make connection of machine wire to main wire on entry, and remove and replace all picks used for undercutting the coal, deliver dull picks to blacksmith shop on mine premises and receive sharpened ones once each day if necessary. The machine crew shall exercise reasonable caution in the care of tools.

c. Should the machine require the attention of the machinist, the machine crew shall notify the mine foreman, and if the machinist should require a helper to repair said machines, then one or more of the machine crew shall assist him at the rate of \$7.50 per day.

d. Should the machine crew fail or neglect to perform any of the duties, cares, or responsibilities set forth in Paragraph 'a' the mine foreman shall be notified by the aggrieved party who shall make such arrangements with the loader so as to cause him no loss of time and if they agree as to the time required in cleaning up the place the loader shall receive \$1.25 per hour and the amount agreed upon shall be deducted from the machine crew's account and paid to the party doing such work. Provided further that if they fail to agree either party may call on the mine president or the loader be given another place.

e. They are to remove and load all bump coal and check same to their credit. If the machine cuts up to the coal at any time, the machine crew can load out the coal, clean up the place same as a loader, and check the coal to their credit to be equally divided between runner, shoveller, and helper.

f. When any extra cutting is to be done the machine crew shall be given the preference over any one else.

#### DUTIES OF THE LOADER.

a. The loader shall have the same care and responsibility of the place as a pick miner. If a loader fails to clean up and make his place ready for the machine crew, or prop his place within three feet of the face, or neglects to prop as directed by the mine foreman, or to build his roadwall within three feet or gob within four feet of the working face, provided he has the material to gob with, and a fall occurs through such carelessness, he shall immediately clear his place of such fall, and refusing or failing to do so, the company may do such work and charge the expense thereof to the loader's account.

b. In any mine where the company does the brushing, the loader shall deliver his coal and receive his empty car at the switch.

#### WORKING RULES.

a. The places shall be taken on the rule of "first out, first in."  
b. Two men may work on one road under this agreement.  
c. That general resolutions applying to Sub-District No. 1 shall govern machine mines in said District.

d. In all machine mines the company shall lay the track.

e. The pit boss to furnish mule or pony and driver to move machine when necessary.

f. That all roads shall be kept high enough to permit the loading of the top coal less the flag coal, provided that no operator be compelled to brush in the cap rock, or rebrush a roadway when it has less than twenty feet to go. Rebrushing as used in this resolution is defined to mean brushing in the cap rock.

g. In the case of any deficiency arising in the place where the loader and pit boss cannot agree as to the price to be paid for same, the matter shall be taken up at once by the pit boss and the mine president. Should they fail to agree on a price for same by the ton, lump sum, or day wage, the place shall be loaded out by the loader and the following basis shall apply:

Twenty-seven cubic feet shall be the basis for measuring a ton of coal, measurement to be taken on basis of thirty inches deep, thirty inches in height on the width of the place and the price for each twenty-seven (27) cubic feet shall be the regular loading price. It is further agreed that all material coming between the top of the coal vein and the cap rock, except the draw slate, shall be paid four (4c) cents per ton extra per running inch average across the place. It is further agreed that should a loader be compelled to sledge his coal for a longer period than ten minutes, he shall be paid for the entire time put in. The operator shall have the option of doing the sledging.

h. When a loader, through no fault of the company, is absent from his working place which he has started to load out, the mine foreman may direct a loader, under the rule of "first out, first in" to load out and clean up such unfinished place, and such loader must take such place. Should he demand any extra payment for loading out and cleaning up such place, the mine foreman and the mine president shall determine the amount thereof, and the company shall deduct such amount, if any, from such loader's account and pay same to the party doing the work, and their decision shall be final. In case of accident causing injury to the loader, the deduction specified above, if any, shall not be made; nor in case where proper notice is not given within one-half hour after quitting time that there will be work.

i. Should a loader take a boy in with him, they shall be considered as one loader.

j. When a fall occurs on the roadway outward from the end of the roadwall, while the loader is at work in said room, exceeding one car load, the pit boss upon being notified, shall see that such fall is removed as soon as possible, or the loader shall remove same at 19 cents per car, and he shall be given extra cars to load out such fall. The word "Possible" is defined to mean that the loader shall not lose any time on account of such fall. When a loader is assigned to a room, if there is a fall on the roadway at that time the company shall remove the same upon being notified or the loader shall remove same at 19 cents per car.

k. When a machine is about to overtake unloaded coal in a room, the mine foreman may call upon another loader to help load out this coal, and six cents per ton extra shall be paid for each ton

of coal loaded out of such place after the second loader enters same. It is understood that if the place carries a deficiency settled with the first loader, the second loader will also receive the same deficiency price. In connection with this rule it is understood that machine work in longwall mines is single work, except in the emergency above provided. The second loader who enters the place shall be first out.

l. The machine may run double shift or it may run one shift each twenty-four hours, whether it is during the time the mine is running coal or not, provided one machine crew does not run a machine to exceed 48 hours per week when a mine runs every day, or as many hours as the mine runs coal and the machine crew may work overtime repairing their machines.

m. Fourteen loaders shall follow a single shift machine. If fourteen loaders are not enough to keep a machine in cutting, this number may be increased by one man at a time, provided the men are given a fair turn. If fourteen men are too many, the loading force shall be reduced in like manner.

If after six days' operation of the machine, the record shows that the loaders after it have not had an average turn amounting to nine cars for each day's operation of the machine then it shall be considered that a fair turn has not been given, provided the loader or loaders raising the question of turn can show that he could have loaded more cars, with coal, than he received.

n. Longwall chain machine shall be placed on a differential basis of twenty-five cents per ton.

o. Prices to be paid for	
Machine runners, per ton .....	\$ 15679
Machine shovellers, per ton .....	15679
Machine helpers, per ton .....	12362
Loaders, per ton .....	13128

#### PRICES GOVERNING UNDERGROUND DAY LABOR.

That any company man, not a regular track layer, working at laying iron track or switches will receive \$7.50 per day for the time so employed.

Head Track Layers, per day .....	\$7.50
Pipe Men, per day .....	7.42
Drivers and Trip Riders, per day .....	7.36
Motormen, per day .....	7.65
Cagers, per day .....	7.36
Boy Couplers, per day .....	4.71
Oilers and Trappers, per day .....	4.00
Pushers and all other inside adult labor, per day .....	7.25

Boy drivers may be used between partings but when used at regular switching they shall be considered as men and receive men's wages.

#### RULES GOVERNING UNDERGROUND LABOR.

That in accordance with the state law the company shall furnish all the necessary timbers and the miner shall keep his room securely

propped. If the miner working in the room fails to secure prop the same, or neglects to prop as directed by the pit foreman or to build his roadwall within three feet, or gob within four feet of the working face, provided he has material to gob with, and a fall occurs through such carelessness he shall immediately clear his place of such fall, and if he refuses or fails to do so, the company may do such work and charge the expense thereof to such miner.

In any mine where the company does the brushing the miner shall deliver his coal and receive his empty car at his switch; it is also further agreed that two men may work on one road under this agreement. It is further agreed that the miner shall be responsible for his working face up to the cap rock, except falls caused by slips or on account of mines being idle, and falls caused by first break in circle work, and in front of the roadway outward to the inside corner of his last road wall, and when a fall occurs on the roadway from the end of the roadwall, exceeding one car load, the pit boss shall, upon being notified, see that such fall is removed, as soon as possible, or the miner shall remove the same at 19 cents per car, and he shall be given extra cars to load out such fall. The word "possible" is defined to mean that the miner affected shall not be required to lose any time on account of such fall.

All roads shall be kept high enough to permit the loading of the top coal less the flag coal, provided that no operator be compelled to brush in the cap rock or rebrush a roadway when it has less than 20 feet to go. Rebrushing as used in this resolution is defined to mean brushing in the cap rock.

#### BLACKSMITHING.

The company shall do the sharpening, which means only the sharpening of picks and wedges, and the price of same shall not exceed three-fourths of 1 per cent of the gross earnings in pick mining, and shall not exceed one-half of 1 per cent of the gross earnings in machine mining, and miner's tools shall be given preference over all other work done by the blacksmith, and be sharpened in a workmanlike manner.

There shall be a suitable place provided for the miners to deliver and receive their tools. At shaft mines, in accordance with the state law, the company shall hoist the tools and return the same to the bottom.

The company shall exercise reasonable precautions in the care of tools.

#### TOP LABOR.

The wages of dumpers, chunkers, screening car men, box car men, outside drivers for outside work only, mine teamsters and all other common top labor shall be \$6.73 per day, provided those now receiving a higher rate of wages shall not be reduced.

Motormen, per day .....	\$7.13
Spraggers and Couplers, per day .....	4.71
Boy Slate Pickers and Oilers, per day .....	4.00

**CORNER CUTTING.**

Corner cutting on longwall shall be \$1.00 per yard; and corner cutting in semi-longwall shall be \$1.00 per yard for all permanent corners. What is considered a permanent corner is a corner next to the main entry, and the corner next to head of cross entry. Should a room at any time be more than 7 feet ahead of the inside room, the miner shall be given a place to work until the inside room is caught up.

**IRON TRACK.**

There shall be iron track and switches in all mines in Sub-District No. 1, and where the miner lays the track, the company shall furnish flat or sawed ties. Joint ties shall be flat on both sides, the side where rails are joined shall have sufficient flat surface to properly connect the rails. Center ties shall have at least one flat side. The company shall also furnish one pair of short rails, length not to exceed ten feet long, for temporary use.

In all room and pillar mines the company will drill or punch the rails and furnish suitable spikes.

In room and pillar work the miner is to deliver his loaded car and receive his empty car as heretofore.

The depth of rooms in room and pillar work shall not be more than 150 feet; in longwall work not more than 125 feet; except by mutual consent but a miner cannot be compelled to drive a place more than 125 feet. In the event that such work is done by mutual consent, the miner shall receive 16 cents per ton extra for the first twenty feet and 23 cents per ton extra over 145 feet, and in room and pillar this rule and price shall apply when driven more than 150 feet.

**BRUSHING.**

The minimum price for brushing 8-foot entries shall be 85 cents per yard and width of bottom brushing in longwall entries shall be 5 feet.

**CRIB BUILDING.**

The price for building cribs from clay to slate shall be \$1.00 each, the company to have the option of doing same, but where built by the company the miners shall not be delayed in their work.

**BLACK BATS.**

Black bats over three inches thick shall be considered as deficient work and paid for according to Resolution No. 10.

**PAY DAYS.**

Pay days during the six summer months of the year shall be considered holidays, and for the six winter months of the year the mines shall operate full eight hours. Holidays, it is understood, are to begin the first pay day in March, and the company to start paying not later than 1:30 p.m. and continue until 4:00 p.m., this not to deprive men who may be working at the mine on pay day from getting their pay that day.

**SUB-DISTRICT NO. TWO**

All mines in Sub-District No. 2 shall operate on an absolute mine run basis.

Mine Run Coal, per ton.....\$1.21

**ENTRY PRICES.**

Eight-Foot Entry, per yard.....\$3.98  
Twelve-Foot Entry, per yard.....2.72

The yardage prices provided above are made on the condition that the entry men must cut all normal entries, top and bottom, before they are shot. This shall not prevent the firing of practical lifting shots.

Agreements on the price of deficient eight-foot entry work:

Entry, 3½ to 4 ft. vein, deficient by having rock or other impurities, price including coal, per yard.....\$ 8.52

Entry, 3½ to 4 ft. vein, deficient by having rock or other impurities, not sufficient coal to cut, price including coal, per yard.....9.40

Entry, 4 to 5 ft. vein, deficient by having rock or other impurities, price including coal, per yard.....9.42

Entry, 4 to 5 ft. vein, deficient by having rock or other impurities, not sufficient coal to cut, price including coal, per yard.....10.31

Entry, 5 to 6½ ft. vein, deficient by having rock or other impurities, price including coal, per yard.....10.21

Entry, 5 to 6½ ft. vein, deficient by having rock or other impurities, not sufficient coal to cut, price including coal, per yard.....11.10

Entry, 6½ to 8 ft. vein, deficient by having rock or other impurities, price including coal, per yard.....11.68

Entry, 6½ to 8 ft. vein, deficient by having rock or other impurities, not sufficient coal to cut, price including coal, per yard.....12.16

Note: The above prices shall be in full payment, both for the yardage and the mining.

Where the vein is under three and one-half feet or over eight feet in thickness, or where jumpers to be used, entries shall be worked by the day, or at such price per yard as may be agreed upon between the entry men and the pit boss.

If by the day, the wages shall be \$7.65 per day, the company to furnish tools and supplies.

In deficient entries entrymen to load out rock or other impurities.

It is understood that the intent of this agreement is that the entrymen shall do the cutting in the same manner as he would if paid no deficiency, to-wit: when cutting in the bottom, to extend the cut upwards until an actual obstruction is encountered, and if the same is such that it can be readily broken with the sledge, the same shall be done and the cut carried to the top of the vein.

No top shots to be used except to break down the coal that lies above an actual obstruction. If the obstruction be near the bottom

and the cutting is done in top coal, the same rule to apply to bottom coal as above stated for top coal.

Whenever any entry that is now deficient becomes normal by the disappearance of bands of impurities or other obstructions which prevent cutting, the entrymen must square up and proceed to work it as a normal entry.

The occurrence of a sulphur ball or lump or other impurities which does not extend to a greater width than the cut, and which can be readily broken out, or a thin band of impurity which can be readily broken, will not be considered as preventing the cutting the full height of the vein.

At any mine in lieu of the above scale for deficient entries, such work may be paid for \$5.26 per yard and the coal. The miner to load out the impurities.

The adoption of the above deficient entry scale does not prevent individuals from doing this class of work with such allowance above the normal scale as may be agreed upon between the men concerned and the mine foreman. In case they disagree the gross yardage scale for deficient entries shall apply.

#### ROCK IN ROOMS.

Whenever a miner has rock shot down in his room that is in his way and which prevents him loading his coal, the company shall remove the large rock or pay the miner for doing the same at the rate of 93 $\frac{3}{4}$  cents per hour. Resolution No. 4, Section C, to govern as to notification of foreman and time of waiting.

But, in the event the rock is mixed with the miner's coal, the miner shall separate the same and throw all small rock into the gob.

#### ROOM TURNING.

Room turning with neck 8 feet wide not to exceed 9 feet deep, \$8.11. Rooms shall be considered turned when they are 18 feet deep and 18 feet wide at the face.

Where neck is required to be cut more than 3 feet on one side, \$3.60 additional shall be paid.

The company cannot require the miner to turn the rooms for the pick mining room turning price and then mine the rooms with machines after machines have once been installed in the mine.

#### DOUBLE SHIFTING.

Double shifting in entries, 25 cents per yard extra.

#### BREAK-THROUGHS.

Break-throughs between rooms and entries shall be made in accordance with the state law as to distance, and in rooms where break-throughs are required to be cut at entry widths they shall be paid at entry prices.

#### BRUSHING—WIDTH OF ROOMS—UNLOADING SLATE.

Brushing by taking up bottom or taking down top shall be 9-15 cents per inch, measured from the top or the bottom of the vein as

the case may be, and of sufficient width for roadway not to exceed 5 feet. This to apply to top and bottom of ordinary slate or clay material, but if of an unusually hard material, then the price to be agreed upon locally, and failing to agree, the company to do the brushing, in which case the said brushing shall be kept up to within 15 feet of the face. The minimum width of any room shall be 20 feet. Loading or unloading slate done by the miner, 28 cents per car, provided if there is any change in the capacity of the car there can be a readjustment of the price but there shall be no change in existing local agreements on the subject.

#### BLACKSMITHING.

The company shall do the sharpening, which shall mean only the sharpening of picks, augers, and wedges, the buttoning of scrapers and cutting off of augers, and the price of the same shall be  $\frac{3}{4}$  of one per cent of gross earnings, and the miners' tools shall be given preference over all other work done by the blacksmith, and be sharpened in a workmanlike manner.

It is further agreed that the operator will furnish a suitable place or places for the miners to receive their tools, and in first class mines, where it can be shown that it is necessary for the proper regulation of the tool question, to have them separated or handed out, the operator will furnish some one to do the work, and the question of wages and duties shall be left to the operator.

#### DAY WAGE SCALE.

Track layers, timbermen, cagers, per day.....	\$7.50
Drivers, Trip Riders and Water Haulers, per day.....	7.50
Track Layers and Timbermen Helpers, per day.....	7.25
Boy Couplers, per day.....	4.71
Trappers, per day.....	4.00
Motormen, per day.....	7.65
Oilers, per day.....	4.59
Spike Team Drivers, per day, when engaged in regular switch- ing.....	7.65
Drillers and Shooters, per day.....	7.50
All other inside adult labor, per day.....	7.25
Stable men to receive \$1.50 per day increase over wages for the month of July, 1920.	

Boy drivers may be used between partings, but when used at regular switching they shall be considered as men and receive men's wages.

#### ELECTRIC MINING MACHINE SCALE FOR SUB-DISTRICT NO. 2.

Loading, drilling, shooting and furnishing of explosives, mine run coal, per ton.....	\$0.97
Machine Runner, per day.....	7.91
Machine Helper, per day.....	7.65

It is understood that the day wage fixed for machine crew shall not prevent them from agreeing on a price per ton and yardage and

room turning; provided, the earnings be not less than the above day wage scale.

#### NARROW WORK.

Eight-Foot Entry, loaders, per yard.....\$1.594  
Twelve-Foot Entry, loaders, per yard..... 1.087  
Room Necks, same measurements as pick mining, loaders.... 3.244

Break-throughs between rooms and entries shall be paid for at same rate as entries of equal widths.

Loaders in narrow work and room turning to have the option of accepting tonnage and yardage rates, or being paid at the rate of \$7.65 per day, this to include use of miners' tools. The company to have the right to select loaders for this work who may be transferred at the company's option to a normal place to load or mine coal without loss of time. **Blacksmithing** shall be  $\frac{1}{2}$  of 1% of the loaders' gross earnings.

#### DUTIES OF MACHINE CREW.

The company shall furnish all parts and supplies to keep machines in repair. The machine crew shall perform the necessary labor for repairs, not exceeding thirty minutes at any one time, without extra compensation, all excess time shall be paid for at the rate of 93 $\frac{3}{4}$  cents per hour. The machine crew shall cut the coal within four (4) inches of the bottom unless prevented by physical conditions; if they fail to do so and a loader is required to do extra work the mine boss and mine president shall agree on the amount due the loader for this work, and this amount shall be deducted from the machine crew's earnings at the rate of 93 $\frac{3}{4}$  cents per hour.

The machine crew shall connect the machine wires to entry wires and take proper care of the machine and perform the necessary labor in moving from place to place. The machine crew shall receive and deliver bits and supplies at the same point at which pick miners receive their tools. Machines may run double shift or they may run one shift each twenty-four hours whether it is during the time the mine is running coal or not, provided one machine crew does not run a machine to exceed forty-eight hours a week when the mine runs every day, or as many hours as the mine runs coal; but the machine crew may work overtime in repairing their machines.

#### DUTIES OF LOADERS.

The loader shall have the same care and responsibility of the working place as the pick miner; he will take up to and including four inches of bottom coal left by the machine when the same is ordinary; (what is meant by ordinary is where it can be taken up in from 40 to 50 minutes across the room). If it takes more time, or if at any time the machine crew leaves more than four inches of bottom coal, whether caused by impurities or otherwise, the loader shall do the work at 98 $\frac{3}{4}$  cents per hour.

No restriction shall be placed on the amount of coal which machines may mine, or upon the number of places in which machines may cut, or upon the number of loaders who may work after one ma-

chine, provided loaders shall have sufficient number of places to keep them employed regularly while the mine is in operation and there shall not be more loaders employed at any mine than can be given a fair turn. Where pick and machine miners are employed in the same mine the turn shall be made equal in earnings.

Should any operator employ more loaders than machine can cut for, they shall be employed at 93 $\frac{3}{4}$  cents per hour until loading places can be furnished.

This guarantee of work shall not apply in cases of major accidents to machines or machinery or when power is off for an unreasonable length of time, nor for the last hour of the day or when the loader leaves his working place before quitting time the preceding day.

Note: The above paragraph is inserted so that it will not be necessary to close down the entire mine when a section of the mine is prevented from loading coal by any of the above causes.

Where required, the loader shall snub the coal before being shot and leave the place in proper condition for the machine crew. The loader shall not be held responsible for conditions beyond his control.

#### GENERAL PROVISIONS.

Any special work, such as making man holes, partings, mule barns, etc., can be done by the day at the wages guaranteed above. It is understood that the loader in timbering his place shall set props so as to clear the machine when practicable; if props are set as to interfere with the machine on account of safety the machine crew shall remove and re-set such props without compensation. The width of rooms shall be not less than twenty feet. The company shall have the right, whenever any loaders are absent, to place other loaders in the vacant places, either by the ton or by the day, at the option of the loader, in order that said machine crew will not be deprived of the use of said places. If at any time there is any dispute as to the loading out of any place, the case shall be taken up as provided by Resolution VIII of the Des Moines Agreement, and said loaders shall continue at work loading out said places pending settlement of same. All settlements shall date from the time question was raised.

Rules in the General Resolutions and Underground Working Conditions governing pick miners and operators shall also apply to machine loaders and crews and operators of machine mines.

#### TOP LABOR.

The wages of dumpers, chunkers, screening car men, box car men, outside drivers for outside work only, mine teamsters and all other common top labor shall be \$6.73 per day, provided those now receiving a higher rate of wages shall not be reduced.

Car Repairers, \$1.50 per day increase over wages for month of

July, 1920.

Motormen, per day.....\$7.13  
Boy Slate Pickers, per day..... 4.00

**SUB-DISTRICT NO. THREE**

All mines in Sub-District No. 3 shall operate on an absolute mine run basis.

Mine Run, per ton.....	\$1.23½
Eight-Foot Entry, per yard.....	3.18
Twelve-Foot Entry, per yard.....	3.10

The yardage prices provided above are made on condition that the entrymen must cut all normal entries, top and bottom, before they are shot. This shall not prevent the firing of practical lifting shots.

**ROOM TURNING.**

Room turning, 9 foot neck, 8 feet wide, each, \$8.11.

Rooms shall be considered turned when they are 18 feet deep and 18 feet wide at the face.

Each additional yard or fraction thereof to be paid at the rate of \$2.70 per yard.

Where the neck is required to be cut more than 3 feet on one side, \$3.60 additional shall be paid.

The company cannot require the miner to turn the rooms for the pick mining room turning price and then mine the rooms with machines after machines have once been installed in the mine.

**DOUBLE SHIFTING.**

Double shifting in entries, 25 cents per yard extra. This is construed to mean where entrymen are employed two separate shifts of eight hours each in twenty-four hours.

**BREAK-THROUGHS.**

Break-throughs between rooms and entries shall be made in accordance with the state law as to distance, and in rooms where break-throughs are required to be cut at entry widths they shall be paid at entry prices.

**BRUSHING.**

Brushing by taking up bottom or taking down top shall be 91-5 cents per inch measured from the top or the bottom of the vein, as the case may be, and of sufficient width for roadway not to exceed 5 feet. This to apply to top and bottom of ordinary slate or clay material, but if of an unusually hard material, then the price to be agreed upon locally, and failing to agree the company to do the brushing, in which case the said brushing shall be kept up to within 15 feet of the face.

**WIDTH OF ROOMS.**

The minimum width of any room shall be 20 feet.

**UNLOADING SLATE.**

Loading or unloading slate, when done by the miner, 28 cents per car, provided if there is any changes in the capacity of the car there can be a readjustment of the price but there shall be no change in existing local agreements on the subject.

**BLACKSMITHING.**

The company shall do the sharpening, which shall mean only the sharpening of picks, augers, and wedges, the buttoning of scrapers and cutting off of augers, and the price of the same shall be ¼ of one per cent of gross earnings, and miners' tools shall be given preference over all other work done by the blacksmith, and be sharpened in a workmanlike manner.

It is further agreed that the operator will furnish a suitable place or places for the miners to receive their tools, and in first class mines, where it can be shown that it is necessary for the proper regulation of the tool question, to have them separate or handed out, the operator will furnish some one to do the work, and the question of wages and duties shall be left to the operator.

**DAY WAGE SCALE.**

Track layers, timbermen, cagers, per day.....	\$7.50
Drivers, trip riders and water haulers, per day.....	7.50
Track layers and timbermen helpers, per day.....	7.25
Boy couplers, per day.....	4.71
Oilers, per day.....	4.59
Trappers, per day.....	4.00
Motormen, per day.....	7.65
Drillers and shooters, per day.....	7.50
Spike team drivers when engaged in regular switching, per day.....	7.65
All other inside adult labor, per day.....	7.25
Stable men to receive \$1.50 per day increase over wages for month of July, 1920.	

Boy drivers may be used between partings, but when used at regular switching they shall be considered as men and receive men's wages.

**TOP LABOR.**

The wages of dumpers, chunkers, screening car men, box car men, outside drivers for outside work only, mine teamsters and all other common top labor shall be \$6.73 per day, provided those now receiving a higher rate of wages shall not be reduced.

Motormen, per day.....	\$7.13
Boy Slate Pickers, per day.....	4.00

**ELECTRIC MINING MACHINE SCALE FOR SUB-DISTRICT NO. 3.**

Loading, drilling, shooting and furnishing of explosives, mine run coal, per ton.....	\$0.98½
Machine Runner, per day.....	7.91
Machine Helper, per day.....	7.65

It is understood that the day wage fixed for machine crew shall not prevent them from agreeing on a price per ton and yardage and room turning; provided, the earnings be not less than the above day wage scale.

**NARROW WORK.**

Eight-foot Entry, loaders, per yard.....	\$1.27
Twelve-foot Entry, loaders, per yard.....	1.24
Room necks, same measurement as pick mining, loaders.....	3.244

Break-throughs between rooms and entries shall be paid for at the same rate as entries of equal widths.

Loaders in narrow work and room turning to have the option of accepting tonnage and yardage rates, or being paid at the rate of 7.65 per day, this to include use of miners' tools. The company to have the right to select loaders for this work who may be transferred at the company's option to a normal place to load or mine coal without loss of time.

Blacksmithing shall be  $\frac{1}{2}$  of 1% of the loaders' gross earnings.

#### DUTIES OF MACHINE CREW.

The company shall furnish all parts and supplies to keep machines in repair. The machine crew shall perform the necessary labor for repairs, not exceeding 30 minutes at any one time, without extra compensation; all excess time shall be paid for at the rate of 93 $\frac{3}{4}$  cents per hour. The machine crew shall cut the coal within four inches of the bottom, unless prevented by physical conditions; if they fail to do so and a loader is required to do extra work the mine boss and the mine president shall agree on the amount due the loader for this work, and this amount shall be deducted from the machine crew's earnings at the rate of 93 $\frac{3}{4}$  cents per hour.

The machine crew shall connect the machine wires to entry wires and take proper care of the machine and perform the necessary labor in moving from place to place. The machine crew shall receive and deliver bits and supplies at the same point at which pick miners receive their tools. Machines may run double shift, or they may run one shift each twenty-four hours, whether it is during the time the mine is running coal or not, provided one machine crew does not run a machine to exceed forty-eight hours a week when the mine runs every day, or as many hours as the mine runs coal, but the machine crew may work overtime in repairing their machines.

#### DUTIES OF LOADERS.

The loader shall have the same care and responsibility of the working place as the pick miner; he will take up to and including four inches of bottom coal left by the machine when the same is ordinary (what is meant by ordinary is where it can be taken up in from 40 to 50 minutes across the room). If it takes more time, or if at any time the machine crew leaves more than four inches of bottom coal, whether caused by impurities or otherwise, the loader shall do the work at 93 $\frac{3}{4}$  cents per hour.

No restrictions shall be placed on the amount of coal which machines may mine, or upon the number of places in which machines may cut, or upon the number of loaders who may work after one machine, provided loaders shall have a sufficient number of places to keep them employed regularly while the mine is in operation, and there shall not be more loaders employed at any time than can be given a fair turn. Where pick and machine miners are employed in the same mine the turn shall be made equal in earnings.

Should any operator employ more loaders than machine can cut

for, they shall be employed at 93 $\frac{3}{4}$  cents per hour, until loading places can be furnished.

This guarantee of work shall not apply in cases of major accidents to machine or machinery or when power is off for an unreasonable length of time, nor for the last hour of the day or when the loader leaves his working place before quitting time the preceding day.

Note: The above paragraph is inserted so that it will not be necessary to close down the entire mine when a section of the mine is prevented from loading coal by any of the above causes.

Where required, the loader shall snub the coal before being shot and leave the place in proper condition for the machine crew. The loader shall not be held responsible for conditions beyond his control.

#### GENERAL PROVISIONS.

Any special work, such as making man holes, partings, mule barns, etc., can be done by the day at the wages guaranteed above. It is understood that the loader in timbering his place shall set props so as to clear the machine when practicable; if props are set as to interfere with the machine on account of safety the machine crew shall remove and re-set such props without compensation. The width of rooms shall be not less than twenty feet. The company shall have the right, whenever any loaders are absent, to place other loaders in the vacant places, either by the ton or by the day, at the option of the loader in order that said machine crew will not be deprived of the use of said places. If at any time there is any dispute as to the loading out of any place the case shall be taken up as provided by Resolution VIII of the Des Moines Agreement, and said loaders shall continue at work loading out said places pending settlement of same. All settlements shall date from the time question was raised.

Rules in the General Resolutions and Underground Working Conditions governing pick miners and operators shall also apply to machine loaders, and crews, and operators of machine mines.

#### SUB-DISTRICT NO. FOUR

##### SCREENS.

In Boone county the screens shall be of diamond bars, with  $\frac{3}{4}$  of an inch between the bars.

Screened Lump, per ton.....\$2.05

Mine run price, 10% less than screened lump price.

Entry Driving, per yard.....\$3.60

Room Turning, not to exceed 9 ft. neck, each..... 9.05

##### DOUBLE SHIFTING.

Double shifting entries 25 cents per yard extra. This is construed to mean where entrymen are employed two separate shifts of eight hours each in twenty-four hours.

Coal at Boone less than 27 inches thick shall be considered deficient work.

**DAY WAGE SCALE.**

Head Track Layer, per day.....	\$7.50
Head Timberman, per day.....	7.50
Drivers, Cagers, Trip Riders, per day.....	7.36
Boy Couplers, per day.....	4.71
Drillers and Shooters, per day.....	7.50
Oilers, Trappers, per day.....	4.00
All other inside adult labor, per day.....	7.25

**TOP LABOR**

The wages of dumpers, chunkers, screening car men, box car men, outside drivers for outside work only, mine teamsters, and all other top labor shall be \$6.73 per day, except those now receiving a higher rate of wages shall not be reduced.

Motormen, per day.....	\$7.13
Boy Slate Pickers, per day.....	4.00

**BLACKSMITHING.**

The company shall do the sharpening, which shall mean only the sharpening of picks, augers, and wedges, buttoning of scrapers and the cutting off of augers, the price of same shall be  $\frac{3}{4}$  of 1% of the gross earnings. Miners' tools shall be given preference over all other work done by the blacksmith and sharpened in a workmanlike manner.

It is further agreed that the operator will furnish suitable place or places for the miners to receive their tools.

**RULES AND CONDITIONS GOVERNING SUB-DISTRICT NO. 4, UNLESS OTHERWISE PROVIDED.**

1st. Pushing not to exceed 150 feet and no miner shall be required to push beyond the second switch from face of entry; if required to push more than 150 feet, 12 cents per ton extra shall be paid for the first 30 feet. Beyond that distance the price to be agreed upon locally.

2nd. All track on entry and room roads to be iron and laid at the expense of the company.

3rd. Brushing not to be more than 9 feet back from face of coal, company to build roadside buildings in entries and roadways. The miner shall leave the usual space on either side of track for said buildings, but in cases where the gob is entirely filled, the miner shall not be required to load out any dirt unless suitably compensated for so doing.

4th. Skips driven along old gobs shall be paid for at the rate of 12 cents per ton extra where it is necessary for the miner to move crushed coal or loose dirt.

**MINING MACHINE SCALE FOR LONGWALL WORK—4TH SUB-DISTRICT.**

Loaders, per ton, screened lump coal.....	\$1.3754
Mine run price 10% less than screened lump price.	
Machine Runners, per day.....	\$7.91

Machine Shovellers, per day.....	7.65
Machine Helpers, per day.....	7.50

It is understood that the day wage fixed for machine crew shall not prevent them from agreeing on a price per ton, provided their earnings be not less than the above day wage scale.

**DUTIES OF THE MACHINE CREW.**

They shall mine in the clay as near the coal as is practical, leaving not more than four inches of clay above the cutter bar. In case the runner leaves more than four inches of clay above the cutter bar, the company shall handle the clay so left, and in case it is the fault of the runner the amount so paid shall be deducted from the wages of the machine crew, if the crew is working by the ton. Any black jack or other impurities between the coal and clay shall be considered a part of the vein. They shall remove the dirt cut by the machine from under the coal and gob the same, clean up, sprag the coal, and prop the place ready for the loader. Make connection of machine wire to main wire on entry, remove and replace all picks used for undercutting the coal, deliver dull picks to blacksmith shop on mine premises and receive the sharpened ones once each day if necessary.

Blacksmithing to be  $\frac{1}{4}$  of 1% of gross earnings of loaders.

Should the machine require the attention of the machinist, the machine crew shall notify the mine foreman, and if the machinist should require a helper to repair said machine, then one or more of the machine crew shall assist him at the rate of 93 $\frac{3}{4}$  cents per hour.

They are to remove and load all bump coal and check same to their credit. If the machine cuts up to the coal at any time, the machine crew can load out the coal, clean up the place same as a loader, and check the coal to their credit to be divided equally between runner, shoveller, and helper. When the machine crew is working by the day all coal loaded by them shall be credited to the company. When necessary the company shall furnish mule and driver to move the machine.

The machine crew shall have the same care and responsibility of places as the pick miner. Should the machine crew fail or neglect to perform any of the cares, duties or responsibilities as set forth above, and it is necessary for the loader to perform such work, the mine foreman shall be notified by the party finding this condition, and in the absence of the interested party he shall call the mine president and the two shall agree on a price for such work, and the amount so agreed upon shall be deducted from the machine crew's account and paid to the party doing such work.

**LENGTH OF CUTTER BARS ON MACHINES.**

It is agreed that the length of the cutter bars on the machines in Boone shall not exceed three feet; in Ogden, four feet.

**DUTIES OF THE LOADERS.**

They shall have the same care and responsibility of places as the pick miners. The places shall be taken on the rule of "first out,

first in," and no restriction shall be placed on the number of loaders loading after a machine, but in case there are more loaders on the crew than there are places for them to load out, when requested by the loader, the company shall employ such loaders at company work at the rate of 93 $\frac{3}{4}$  cents per hour, until places are cut for them to load coal. This guarantee of work shall not apply in cases of accident to machines or machinery or unavoidable causes or delay, nor for the last hour of the day or where the loader leaves his working place before quitting time the preceding day.

Should they fail to clean up their places ready for the machine crew, the pit boss and mine president shall investigate the matter, and shall agree on the price for cleaning same and the amount so agreed upon shall be deducted from the pay of the loader leaving the place in bad condition, and paid to the party cleaning same.

Where cap rock breaks with the coal the loader shall handle same for the loading price up to and including eight inches in thickness. When it exceeds this thickness the company shall handle the same, provided it cannot be left up.

At Boone, coal below 27 inches in height shall be considered deficient. In case the loader and the pit boss fail to agree on a price for loading out a deficient place, the loader can appeal the case to the local president and superintendent of the mine or their representatives whose decision shall be final and the loader shall continue at work pending settlement.

#### **RUNNING TIME.**

A machine may run double shift or it may run one shift each twenty-four hours whether it is during the time the mine is running coal or not, provided one machine crew does not run a machine to exceed 48 hours a week when the mine runs every day, or as many hours as the mine runs coal, but the machine crew may work overtime in helping to repair machines.

#### **GENERAL RULES.**

Rules in the General Resolutions and Underground Working Conditions governing pick miners and operators shall also apply to machine loaders and crews and operators of machine mines.

If at any time it becomes necessary to load coal by the day the rate shall be \$7.60 per day, this to include the use of miners' tools.

#### **GENERAL RESOLUTIONS APPLYING TO DISTRICT NO. 13**

##### **RESOLUTION NO. ONE**

##### **DEFINITION OF EIGHT HOUR WORK DAY.**

(a) The above is based upon an eight hour work day and it is definitely understood and agreed that an eight hour day means eight hours' work in the mine at the usual working places for each individual employe, six days a week when required by the operator (Sundays and the following holidays excepted: New Year's Day, Washington's Birthday, April First, Decoration Day, Fourth of July, Labor Day, Thanksgiving Day, second Tuesday in December,

1924, and Christmas Day. The above named holidays shall be the only holidays under this agreement except as hereinafter provided regarding pay days.) This shall be exclusive of the time required in reaching said working places in the morning and returning from same at night.

Note: Should any of the above mentioned holidays fall on Sunday the following Monday shall be observed as same, except Washington's Birthday.

#### **PAY DAYS AND STATEMENT OF ACCOUNT.**

(b) On pay days work will be discontinued at the end of five consecutive hours of the operation of the mines (except in Sub-District No. 1) and the operator shall commence paying as soon as practicable after the mines have ceased operation.

The operators shall pay all wages earned during the first fifteen days of each month, not later than the first Saturday after the twentieth of said month; and for wages earned after the fifteenth of said month not later than the first Saturday after the fifth of the following month (except should pay day fall on any of the above mentioned holidays the operator agrees to pay on the preceding day in conformity with the provisions made for pay days), and statements properly dated shall be issued to employes before day payment is made, and if for any good reason an advance is asked and made it shall be done without discount, either directly or indirectly.

The shorter work day is granted employes on pay day with the express understanding that each individual employe will faithfully observe the rules of working eight hours, each working day and six days a week, as provided in clause (a) of this resolution. And all local unions and the individual members thereof shall adhere strictly to this rule, and in case the employes of any mine shall show a disregard for the same the operator affected may file his complaint with the Joint Board, who shall deprive the local union so offending of the privilege extended in this resolution.

#### **RULES GOVERNING DRIVERS.**

(c) Drivers shall take their mules to and from the stables and the time required in so doing shall not include any part of the day's labor, their work beginning at the place where they receive empty cars; but in no case shall a driver's time be docked while he is waiting for cars at the point named. And in no case shall the drivers be required to put in more than ten minutes extra time on the road each way with their mules from the stables to the place where they receive their empty cars, without compensation for the entire time, and the custom of harnessing and unharnessing the mules shall remain the same at each mine as heretofore. Where it is the practice to haul men in the trip, the latter shall leave the bottom at such time as the company may determine to be necessary for employes to reach their working places in time to begin work at the hour fixed. It is further agreed when the day men go down into the mine in the morning they shall have at least two hour's work. This not to apply

in case of accidents occurring where the men would have to be called out of the mine through a violation of the state mining law.

## RESOLUTION NO. TWO

### STARTING TIME.

The eight hour work day shall commence at 7 a. m. from April 1 to October 1, and 8 a. m. from October 1 to April 1, except when otherwise agreed locally, with one-half hour for noon where firing but once a day occurs, and one hour for noon where it is necessary to fire twice a day. In neither case shall such nooning be counted a part of the eight hour day.

## RESOLUTION NO. THREE

### PENALTIES FOR LOADING IMPURITIES.

(a) Both the miners and operators realizing the importance of getting clean coal, to insure the sale of same, it is mutually understood and agreed that the miners and loaders will produce their coal in such a manner as not to increase the percentage of fine coal either by carelessness or reckless shooting, and will load the coal free from impurities as nearly as possible.

(b) It is the duty of the miner and loaders to clean his coal in his working place and load it as nearly as possible free from slate, sulphur, and other impurities, and if any miner be docked for sending out dirty coal, he shall be notified by the mine foreman; if he be docked a second time, he shall be fined fifty cents (50 cents); if he be docked a third time within fifteen days from the time of the first offense, or if he at any time sends out large quantities of impurities in any one car, he shall be fined \$1.00 or discharged at the option of the operator. But before discharge the mine president and superintendent shall investigate such case, and if found guilty the discharge penalty may be enforced. It is understood local agreements shall govern the amount that constitutes a dock or large quantity at each mine. When there is no local agreement the local officers and superintendent of the company shall make such an agreement.

(c) It is hereby agreed that the local officers shall co-operate with the coal company to insure clean coal.

## RESOLUTION NO. FOUR

(Applies to Sub-Districts 2, 3 and 4.)

### RESPONSIBILITIES, TIMBERING AND CARE OF PLACES.

(a) In accordance with the state law, the company shall furnish all necessary timbers and the miner shall keep his room securely propped. If a miner working in a room fails to securely prop the same, or neglects to prop as directed by the mine foreman, or carelessly shoots down the props or timbers, and a fall of slate occurs through such failure, neglect or carelessness, he shall immediately clear his roadway of such falls of slate and do all necessary retimbering, and in case of his neglect to do so, the company may do such work and charge the expense thereof to such miner.

### DOUBLE TIMBERING.

(b) In case the room has been properly timbered as above set forth and the roof from any cause becomes dangerous so as to require double timbering the company shall, when notified by the miner, do the necessary work to protect the roadway.

### FALLS, ETC.

(c) When a fall of slate occurs between the inside props and the face of his room of an average thickness not to exceed three inches, he shall immediately remove such fall, and in case of his neglect to do so, the company may do such work and charge the expense thereof to such miner. If of a greater thickness he shall notify the mine foreman, and if the mine foreman or his representative fail to visit the miners' room within two hours after notification, the miner shall clean the fall at the rate of 93¾ cents per hour, but if, upon visiting the miner's room within the time specified above, the mine foreman and miner affected can agree on a price for cleaning said fall either by the inch, hour, or lump sum, they shall do so; if by the inch, it shall be 91-5 cents per inch per running yard; if by the hour it shall be 93¾ cents per hour; if they fail to agree on the lump sum or hour basis, the miner may remove same at 91-5 cents per inch. If he refuses to do this he shall immediately notify the mine foreman who shall furnish the necessary labor to make such removal. If the fall is not removed and the place properly secured within twenty-four hours, the miners affected thereby shall be given employment until the same is removed.

### MINERS' RIGHT OF APPEAL.

(d) If any miner is dissatisfied with any decision of the mine foreman, an appeal may be taken to the superintendent and the mine president, who shall decide the question, and their decision shall be final, but the miner shall continue at work pending decision.

## RESOLUTION NO. FIVE

### RIGHT TO HIRE AND DISCHARGE—COMPENSATION.

The right to hire and discharge, the management of the mine and the direction of the working force, are vested exclusively in the operator and the U. M. W. of A. shall not abridge this right. It is not the intention of this provision to encourage the discharge of employes or the refusal of employment to applicants because of personal prejudice or activity in matters affecting the U. M. W. of A., nor on account of creed, color or nationality. If any employe shall be suspended or discharged by the company, and it is claimed that an injustice has been done him, an investigation to be conducted by the parties and in the manner set forth in Resolution No. 8, of this agreement, shall be taken up promptly; and if it is proven an injustice has been done, the operator shall reinstate said employe and pay him full compensation for the time he has been suspended and out of employment; provided, that if no decision shall be rendered within five days, the case shall be considered closed in so far as compensation is concerned.

sation is concerned, except, in cases going to arbitration the compensation limit is extended to ten days.

### RESOLUTION NO. SIX

#### FATAL ACCIDENTS AND FUNERALS.

In the event of an instantaneous death by accident in the mine, the miners and the underground employees shall have the privilege of discontinuing work for the remainder of that day, but work at the option of the operator shall be resumed on the day following and continue thereafter. In case the operator elects to operate the mines on the day of the funeral of the deceased as above, or whether the death has resulted from an accident in the mine, or from any other cause, individual employes may at their option absent themselves from work for the purpose of attending such funeral, but not otherwise. In the event that the operator shall elect to operate the mine on the day of such funeral caused by instantaneous death in that mine, then from the proceeds of such day's operation each member of the U. M. W. of A. employed at the mine at which the deceased member was employed shall contribute 50 cents and the operator \$25.00 for the benefit of the family of the deceased or his legal representatives, to be collected through the office of the company. Except in fatal accidents as above the mine shall in no case be thrown idle because of any death or funeral; but in case of the death of any employe of the company, or member of his family, any individual employe may at his option absent himself from work for the purpose of attending such funeral, but not otherwise. Where the local union fails to prevent the abuse of the above resolution by parties absenting themselves from work and not attending the funeral the Joint Board shall impose proper penalties.

### RESOLUTION NO. SEVEN

(Applying to Shooting Coal Mines.)

#### TRACK LAYING BY THE MINER.

It is agreed that the miner shall lay the track in his working place, and the operator shall have the option of furnishing either wooden or iron track, provided, that if iron track is furnished the rails will be drilled and ready for use. Ties may be of wood or steel; if wood, they must be sawed off flat, and if steel they must be provided with suitable and convenient fastenings. The length of rails furnished by the operator shall not exceed twelve feet. Whenever necessary for temporary use, the miner shall be furnished short length rails.

### RESOLUTION NO. EIGHT

#### SETTLEMENT OF DISPUTES—DUTIES AND LIMITATIONS OF MINE PRESIDENT.

The duties of the mine president shall be confined to the adjustment of disputes between the pit boss and miners or mine laborers arising out of this agreement or any local agreement made in con-

nection herewith. The mine president and the superintendent are empowered to adjust, and in case of their disagreement it shall be referred in writing to the president of the Iowa Coal Operators' Association and the president of District 13, U. M. W. of A., who may decide the matter, either in person or by representatives; their decisions shall be subject to the review and approval of the presidents; should the presidents fail to agree, they must either submit the matter to arbitration or convene the Joint Board and submit in writing the question in dispute.

No case of discharge shall be submitted to the Joint Board, and in all cases the miners or mine laborers and parties involved (except discharged employes) must continue at work until a final decision is reached in the manner above set forth.

(The Joint Board shall consist of the executive committee of the Iowa Coal Operators' Association and the executive board of District No. 13, U. M. W. of A.)

(b) If any employe doing day work shall cease work because of a grievance which has not been taken up for adjustment in the manner herein provided, and such action shall seem likely to impede the operation of the mine, the mine president shall assist the company in obtaining a man or men to take such vacant place or places at the scale rate in order that the mine may continue at work. In case the mine is shut down in violation of these agreements, or any of them, the organization will at all times furnish all the men required by the operator at the scale rate to properly care for the mine.

It is further agreed and understood no person not an actual employe in the mine can officiate as the mine president.

Note: The superintendent or the mine president will have the right to demand the Local Executive Board, the meeting of said Board not to be held while the mine is in operation, and should they fail to adjust it, it shall be referred as stated above.

### RESOLUTION NO. NINE

#### FALSE TOP AND BOTTOM AND HOW PAID.

All false top or bottom, in shooting coal mines of an average thickness of over three inches, shall be paid 9-15 cents an inch per running yard; provided when the top can be left up, or the bottom left down, then the company shall not be required to pay the same.

### RESOLUTION NO. TEN

#### ADJUSTMENT OF DEFICIENT WORK.

That all deficient work not covered by this agreement shall be paid for at a price to be mutually agreed upon between the mine boss and the party concerned; if they cannot agree in any other manner, they may agree on a price per day, and failing to agree the matter shall be referred to the superintendent of the mine and the mine president for adjustment; and in case they fail to agree, it shall be referred for final settlement to the operator of the mine (or his representative), and the miners' state president (or some one acting

nated to represent him); the miner shall continue to work pending an investigation and whatever settlement is made shall date from the time the question of deficiency was raised; if the company decides to stop the place no investigation shall be made, but the miner shall be given another place.

#### RESOLUTION NO. ELEVEN

##### PRICE OF HOUSE COAL.

The price of house coal furnished employes for their own use in the several districts shall be as follows, per ton of 2,000 pounds at the mine:

##### First District—

Putnam County, Mo., mine run, per ton.....	\$3.35
Screened or hand picked lump coal, per ton.....	3.49

##### Second District—

Lump coal, per ton.....	\$3.17
Nut coal, per ton.....	1.97

##### Third District—

Lump coal, per ton.....	\$3.49
At shipping mines, and at local mines, per ton.....	3.81

##### Fourth District—

Lump coal, per ton.....	\$3.81
Steam coal, through regulation screen, per ton.....	2.10

#### RESOLUTION NO. TWELVE

##### PRICES FOR DEAD WORK.

All labor and dead work not covered in this agreement shall be paid an advance of 20 per cent.

#### RESOLUTION NO. THIRTEEN

##### ENGINEERS' DUTIES AND WAGES.

(a) Engineers, first class, lump coal, 300 tons and over, mine run 425 tons and over, \$218.16 per month; second class, lump coal 200 to 300 tons, mine run 285 to 425, \$211.15 per month; third class, lump coal 200 tons or less, mine run 285 tons or less, \$198.32 per month. Tail rope engineer's wages to be \$7.11 per day or \$198.32 per month, nine hours to constitute a day's work. Sunday work without extra pay shall be confined to customary care, but not operation of machinery or boilers, and such work shall not exceed four hours per day.

##### TONNAGE.

(b) The tonnage shall be determined by the average of the mine for the month of November of each year effective the following April, based on screened or mine run coal, and computed on the basis of the number of hours the mine operates. This scale of wages only applies to mines in operation at least one year, and in all new mines the wages of the engineer shall be advanced with the increased tonnage each month until the maximum rate is reached.

In no case shall the engineers, firemen or pumpers, be interfered with or asked to cease work by any local committee or local union official during the life of this agreement.

#### RESOLUTION NO. FOURTEEN

##### RULES AND WAGES—FIREMEN, PUMPERS, BLACKSMITHS AND NIGHTWATCHMEN.

(a) Firemen and pumpers shall be permitted to work such hours as may be mutually agreed upon between them and the operators, provided that the minimum rate shall be 84-1-8 cents for firemen, and the minimum wages for inside pumpers shall be 89.85 cents per hour.

(b) Twelve hours for night watchmen, eight hours for blacksmiths and mechanics, shall constitute a day's work, and their wages shall be advanced \$1.50 per day over wages for month of July, 1920, but no nightwatchman now working less than twelve hours shall be required to work more than present hours. All other company men shall be permitted to work 56 hours per week when necessary, but no company men, except those necessary to get men in and out of the mine shall be compelled to work regularly more than eight hours per day. In case of emergency, mechanics, blacksmiths and other necessary men to make repairs may work longer.

#### RESOLUTION NO. FIFTEEN

##### CHECK OFF.

The operators agree to check off all dues, initiation fees, assessments and hospital dues from the miners and mine laborers when desired and this agreement is their authority therefor. The U. M. W. of A., District No. 13, agrees to protect the operators where such checking is done, but no compensation shall be charged for such deductions; provided that not more than \$5.00 be deducted in any one pay from any one person.

#### RESOLUTION NO. SIXTEEN

##### PAYMENT AND DEDUCTIONS.

This agreement is based upon cash payments after deducting mine expenses, organization and hospital dues, accepted orders, house rent and fuel. No discrimination shall be made against any employe refusing to deal in the company store or live in a company house.

#### RESOLUTION NO. SEVENTEEN

##### WAGES OF MINERS TAKEN FROM FACE.

Miners taken from the face shall be paid \$7.50 per day and will be given their turn of cars for one day. Any one refusing to do day work may have his turn stopped; provided he is qualified by experience to do such work; and provided further, that no one shall be required to do such day work two consecutive days and such qualified men shall be called upon in their turn.

Boys cannot be compelled to leave the face to do day work, but if so used they shall be paid the rate of wages provided for that class of work performed, and be given the turn for that day.

## RESOLUTION NO. EIGHTEEN

### FRACTIONAL TIME.

When a mine works part of the morning the miners may continue at work until noon; when a mine works part of the afternoon the miners may continue at work for the balance of the day. The operator must notify men as soon as practicable after the mine shuts down.

No miner shall be permitted to work at the face on idle days to make coal ready and shall only be permitted to do work with permission of the mine president, the same to be in urgent cases.

This resolution to mean that no miner can work at the face to make coal ready or perform any other labor or do timbering on idle days in his place without the consent of the mine president, and in harmony with the above resolution it must be in urgent cases, and it is further understood that this resolution does not provide that where the company desires to secure miners to perform extra work that they must gain the consent of the mine president and that when such extra help is needed that they can call upon such competent help in their turn as long as they are not displacing any of the regular day men who are qualified to do such work.

## RESOLUTION NO. NINETEEN

### RULES GOVERNING FOREMAN DOING DAY WORK.

The foreman may lend a hand when working a crew, but the company cannot lay off a man and fill his place by working a foreman or boss.

It is not the intent of this resolution that the foreman will be prevented from doing anything that is necessary to keep the mine in operation.

## RESOLUTION NO. TWENTY

### DOUBLE SHIFTING OF ROOMS.

There shall be no double shifting of rooms without the consent of the miner or miners affected.

## RESOLUTION NO. TWENTY-ONE

### SHOT EXAMINERS' DUTIES AND QUALIFICATIONS.

(a) In all mines where coal is blasted from the solid, competent persons shall be employed by the company to examine all shots before they are charged. Said examiners shall have the power to prohibit the charging or firing of any shot, which, in their judgment is unsafe. Before entering upon the discharge of their duties, said examiners shall receive certificates of competency from the state mine inspector in the district in which the mine where they are em-

ployed is located. No mine foreman employed by the company shall be permitted to act as shot examiner. The state mine inspector shall have the power to refuse to give a certificate to any person to act as shot examiner who, in his judgment, is not sufficiently competent, or he may revoke the certificate granted should it appear that a shot examiner is negligent or careless in the performance of his work.

### WHEN SHOT EXAMINERS MAY ACT AS SHOT FIRERS.

(b) Whenever a majority of the miners in any mine so decide, they may employ shot firers for said mine, and whenever satisfactory arrangements can be made between the miners and the shot examiners for the same persons to act as shot examiners and shot firers, the same may be done.

### RULES GOVERNING SHOT FIRING.

(c) The operator shall decide as to the necessity of firing twice a day in mines that have been in operation less than one year, and a majority of the miners employed in any mine shall decide as to the necessity of firing twice a day in all mines that have been in operation more than a year; provided that in all mines where the majority of the miners decide to fire but once a day, they shall give the operator sufficient time to develop his mine so that the same working force and output per miner per day, shall not be reduced; and provided, further, that if after changing from twice to once a day firing, the majority of the miners in any mine shall decide to return to twice a day firing, or, if, after trying once a day firing for a period of thirty days that the mine is in operation, it shall be proven that the output per miner per day is less than when shooting twice a day, on account of the miner not being able to produce the coal, the operator shall have the right to return to twice a day firing.

### SAFETY OF EMPLOYEES AND DUTIES OF THE MINE FOREMAN.

(d) The miner shall keep his working place and the operator the entries as free from dust as practicable, and the entries shall be sprinkled as often as necessary to keep them in damp condition.

(e) In accordance with the state law only sand, soil, or clay shall be used for tamping which shall be placed in, or near each cross cut in entries, when rooms are being turned continuous. Where the block system is used it shall be placed in the center cross-cut on the entry between the rooms, and the shot holes shall be tamped solidly from the powder to the mouth of the hole, whether squibs or fuse are used to ignite the powder. Any shot having blown the tamping shall not be recharged and fired the second time.

(f) The wages of the shot examiners shall be \$8.44 per day, and they may be employed on fractional time at the above mentioned rate.

The operator shall have the privilege of installing electric shot firing machines, provided the expense of firing will be no greater on the miner than the present system.

(g) No person shall interfere with the shot examiner or shot firer in discharge of his duties, except those who have a right to do so, under the state law.

## RESOLUTION NO. TWENTY-TWO

### CONDITION OF WORKING PLACES.

(a) The company shall as far as practicable keep the water off the road and out of the working place. When a miner has to leave his working place on account of water through the neglect of the company, it shall employ said miner at company work; provided that said miner is competent to do such work, or he will be given another working place until such water is taken out of his place.

(b) Where it is an established condition or agreement that the track shall be laid by the company, and a miner has to leave his working place on account of such track not being laid through the neglect of the company, it shall employ said miner at company work when practicable, provided said miner is competent to do such work, or he shall be given another place until such time as such track is laid in his place. In shooting coal mines, it is understood that under ordinary conditions, the miner can demand his switch when his place is in fifteen feet.

## RESOLUTION NO. TWENTY-THREE

### SIGNALS.

In all mines when the men are going to and from their work at regular starting and quitting time, the company shall employ men at the top and bottom of the shaft, whose duty shall be to attend to signal bells.

## RESOLUTION NO. TWENTY-FOUR

### PRICE AND QUALITY OF POWDER.

"The price of powder shall be \$2.20 per keg, and powder and other explosives shall be delivered at the miners' working places as early as practicable and to be of standard grade and quality."

Dynamite caps and fuse shall be sold at cost at the mines and shall be handled as in the past, with no additional charge. The above prices on explosives shall take effect on deliveries of June 9, 1920.

### REGULATING CHARACTER OF POWDER TO BE USED IN COAL MINES AND TO CONFORM TO THE FOLLOWING SPECIFICATIONS.

(a) It shall have a specific gravity of not less than 1.74 nor more than 1.90.

(b) It shall have a moisture content of not to exceed one per cent at the time when shipped by the manufacturer or his agent.

(c) Said powder shall be sold for use in coal mines only in seven sizes of granulation to be determined as follows:

CCC shall be powder which shall pass through a screen having

round hole perforation of 40-64 of an inch in diameter and remain on a screen having round hole perforation of 32-64 of an inch in diameter.

CC shall be powder which shall pass through a screen having round hole perforation of 36-64 of an inch in diameter and remain on a screen having round hole perforations of 26-64 of an inch in diameter.

C shall be powder which shall pass through a screen having round hole perforation of 27-64 of an inch in diameter and remain on a screen having round hole perforations of 18-64 of an inch in diameter.

F shall be powder which shall pass through a screen having round hole perforations of 20-64 of an inch in diameter and remain on a screen having round hole perforations of 12-64 of an inch in diameter.

FF shall be powder which shall pass through a screen having round hole perforations of 14-64 of an inch in diameter and remain on a screen having round hole perforations of 7-64 of an inch in diameter.

FFF shall be powder which shall pass through a screen having round hole perforations of 9-64 of an inch in diameter and remain on a screen having round hole perforations of 3-64 of an inch in diameter.

FFFF shall be powder which shall pass through a screen having round hole perforations of 5-64 of an inch in diameter and remain on a screen having round hole perforations of 2-64 of an inch in diameter.

In testing powder for size of granulation as herein required, it shall be permissible for a given size to contain not to exceed  $7\frac{1}{2}$  per cent by weight of grains of the size next larger and  $7\frac{1}{2}$  per cent by weight of grains of the size next smaller.

When there is any complaint against the brand of powder in use in any mine a joint investigation shall be made under the authority of the Joint Board and their decision shall be final.

## RESOLUTION NO. TWENTY-FIVE

### SINKING AND DEVELOPMENT OF NEW MINES.

Sinkers per day of eight hours, \$7.65. This rate of wages shall apply to men employed in opening new slopes and retimbering shafts or enlarging same. Sinkers may be continued at the above wage to complete the bottom partings and any other work in connection therewith, and if the mine is not prepared by that time to operate under the terms of this agreement and the development of entry work begins under this condition, the tonnage and yardage prices as provided for in this agreement to govern the various sub-districts, shall prevail, and twenty-seven (27) cubic feet shall be the basis for measuring a ton of mine run coal.

This to apply to normal entries. In case the entries should be abnormal, then extra compensation for such deficiency shall be

allowed, the same to be determined as herein provided for the government of deficient work.

#### RESOLUTION NO. TWENTY-SIX

##### REGARDING MAN TRAIN.

It is hereby agreed that this agreement does not in any way govern the operation of railroad trains, and where such are operated for the purpose of hauling men to and from the mine, all questions affecting the same must be settled without interfering with the operation of the mine. If any disagreement occurs locally, the question shall be referred to the district presidents of the two associations.

#### RESOLUTION NO. TWENTY-SEVEN

##### AMBULANCES, BANDAGES, ETC.

At all mines the operator shall keep a supply of blankets, oil, bandages, and stretchers, and in case of accidents, shall furnish a suitable conveyance to care for and convey the injured persons to their homes.

The Joint Board shall encourage "First-Aid to the Injured" work, and a committee of three operators and three miners shall be appointed for this purpose.

#### RESOLUTION NO. TWENTY-EIGHT

##### RAILROAD CAR QUESTION.

It is understood that an operator shall not ask the miners to go to work when he has no assurance of cars, or less than enough to provide two hours' work, but when the operator has the assurance that cars will be received within two hours from the starting time, the men shall go to their working places.

If cars are not received at the end of two hours, the operator must notify the men immediately, and the miners shall not be required to go to work the next day, unless enough cars are at the mine for at least one-half day's continuous operation. If an operator abuses this resolution he shall be fined \$25.00 for each offense.

#### RESOLUTION NO. TWENTY-NINE

##### SQUARE TURN.

In all mines, the mine foreman must keep a square turn as nearly as possible, and the turn must be made even once each day or oftener, if practicable.

#### RESOLUTION NO. THIRTY

##### PENALTIES FOR VIOLATION OF AGREEMENT.

(a) Should any local union or its members employed at any mine cause the mine or a part of the mine to shut down, in violation of this agreement (where the state mining law is now being violated)

each member of the U. M. W. of A. employed at said mine, except those who continue at work, shall be fined two dollars (\$2.00) for each day or part of a day the mine is thus thrown idle.

When the miners shut a mine down, or part of the mine, because they claim the state mining law is being violated, and the above fine is assessed, and it should be proven upon investigation that said law was being violated, as they claimed, then the operator shall be fined two dollars (\$2.00) per day per man affected; provided that the miners have handed to the operator or his representative a written statement, signed by officers of the local union at the time of said shut down and before they leave the premises, setting forth why the shut down occurred, also how and wherein the said law was being violated.

(b) Should any operator, or his representatives, cause the mine or a part of the mine to shut down in violation of this agreement, where the state mining law is not being violated, he shall be fined two dollars (\$2.00) per man affected, for each day or part of a day the mine is thus thrown idle.

(c) Any U. M. W. of A. officer or committeeman who shall advise or encourage any employee to refuse or cease work, where he has a right to work under this agreement, may be discharged.

(d) Any operator, who, through his mine foreman or any other representative, refuses to live up to this agreement, as interpreted by joint authority or refuses to redeem any written promise he makes an employee, or causes any employee to lose work that he is entitled to under this agreement shall be fined five dollars (\$5.00) for each offense.

(e) Whenever at any mine one or more men regularly employed at day work refuse or fail to work, because of any grievance he or they shall be fined two dollars (\$2.00) for each day or part of a day.

(f) Not more than five days' fine can be assessed, by either party for any one shut down in violation of this agreement.

(g) All fines assessed against employees under this agreement shall be collected by the operator from the pay for the half month in which the fine is applied in accordance with Paragraph (i) of this resolution, or the first money due thereafter, and the operator shall remit the same to the treasurer of the Joint Board within twenty days after collection, with an itemized statement of the same for the U. M. W. of A. and the Coal Operators Association. A failure on the part of the operator to do so shall make him liable to a penalty of 50 per cent of the amount involved.

(h) All fines assessed against the operator shall be remitted to the treasurer of the Joint Board within twenty days after official notice is given in writing. Said notice shall be given within two weeks from the alleged violation, stating the cause of the fine from the local union to the operator affected.

(i) Before any fine is assessed under the above provision an investigation as to whether the agreement has been violated shall be made by three miners and three operators selected by the presidents of the two organizations within three days after shut down

has been reported, and if they fail to agree, the question shall be arbitrated within one week from the time of their appointment.

It is further agreed that where any employe enters suit in the civil courts to recover any fine collected in accordance herewith the District Organization shall reimburse the operator for expense incurred on account of such suit.

The Joint Board may use all the monies received from fines for such worthy purposes as it may deem proper.

#### RIGHT OF APPEAL.

If any local union or operator claims that a fine has been collected contrary to the terms of this agreement, they shall have the right of appeal to the Joint Board. Any appeal not settled within thirty (30) days must be arbitrated.

#### RESOLUTION NO. THIRTY-ONE

##### LABOR SAVING MACHINERY.

The operators have the right to install labor saving machinery in any mine, and such machine work not now covered by this agreement, shall be governed by such scale as the Joint Board may determine, and until such scale is made by Joint Board the machines shall be operated on the following basis by the day:

Runner, per day.....	\$7.91
Shoveller, per day.....	7.65
Loader, per day.....	7.65

Loader to furnish his own tools for the above prices.

#### RESOLUTION NO. THIRTY-TWO

In all new shooting coal mines opened during the term of this agreement there shall be end doors in mine cars. This shall not prevent the use of open end cars for the handling of dirt.

#### RESOLUTION NO. THIRTY-THREE

##### DISTRICTS.

The districts provided for in this agreement shall be understood as follows: District No. 1, all mining coal mines in Appanoose and Wayne counties, Iowa. District No. 2, all shooting coal mines in Wapello, Marion, Monroe, Davis, Warren, Lucas, Mahaska and Keokuk counties. District No. 3, all shooting mines of Polk, Jasper, Dallas and Boone counties. District No. 4, all mining coal mines of Boone and Webster counties.

When a new mine is opened and there is any question as to which district it should be placed in, the Joint Board shall decide as to the district, or if it is found necessary to have a special scale for said mine, the Joint Board shall make such scale as to them seems just and proper.

#### RESOLUTION NO. THIRTY-FOUR

##### TIME LIMIT IN WHICH CASES SHALL BE TAKEN UP AND DISPOSED OF.

It is understood that all cases arising out of this agreement shall be taken up for investigation and settlement, within the time limits herein specified.

(1) All discharge cases must be taken up and settled within one week from date discharge occurs.

(2) All deficiency cases must be disposed of within two weeks from date case was placed in the hands of the officers.

(3) All other cases arising out of this agreement shall be disposed of within thirty (30) days including cases going to the Joint Board.

#### RESOLUTION NO. THIRTY-FIVE

##### LOCAL DEMANDS.

There shall be no demands made locally which are in conflict with this agreement and all established working local agreements and customs heretofore existing not in conflict with the present agreement, shall remain in force, unless changed by mutual consent.

Signed on behalf of the Operators,

E. C. SMITH,

President.

GEORGE HEAPS, JR.,  
Secretary.

Signed on behalf of the Miners.

J. H. MORRIS,

President.

JNO. GAY,  
Secretary.