

REPORT OF THE STATE INSPECTOR OF  
MINES FOR THE YEAR 1909.

BY

JAMES EPPERSON.

## LETTER OF TRANSMITTAL.

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OFFICE OF INSPECTOR OF MINES,  
INDIANAPOLIS, February 23, 1910.

*Prof. W. S. Blatchley, State Geologist:*

Dear Sir—I have the honor to submit to you herewith my eleventh annual report as Inspector of Mines, covering the calendar year of 1909, and being the Thirty-first Annual Report of this department and Nineteenth made to the Department of Geology and Natural Resources.

I trust it will receive your approval and be found worthy of consideration by the public.

JAMES EPPERSON,  
Inspector of Mines.

## CONTENTS.

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	Page
Letter of transmittal .....	278
Introduction .....	280
Summary .....	281
Monthly table, production and wages .....	283
Review of coal trade .....	285
Labor troubles .....	287
Table of average wages, block mines .....	289
Table of average wages, bituminous mines .....	290
Table of block mine employees .....	291
Table of bituminous mine employees .....	292
Local mines .....	297
General table, production wages .....	298
New mines .....	310
Improvements .....	312
Changes in ownership .....	314
Abandoned mines .....	315
Table showing kegs of powder used in block coal machine mines .....	316
Table showing kegs of powder used in block coal hand mines .....	316
Table showing kegs of powder used in bituminous hand mines .....	316
Table showing kegs of powder used in bituminous machine mines .....	316
Examinations .....	317
Fatalities and injuries to mine employes .....	320
Table of causes of accidents to mine employes .....	320
Description of fatal accidents .....	321
Summary of fatal accidents .....	351
Comparative table of fatal accidents 1898 to 1909 .....	353
Table showing different occupations of persons injured .....	353
Permanent, serious and minor accidents .....	354
Summary of permanent accidents .....	355
Summary of serious accidents .....	356
Monthly table of causes of accidents .....	369
Law enforcement .....	373
Recommended legislation .....	378
Accidents to mine property .....	382
Mine directory .....	386

# Thirty-First Annual Report of the Inspector of Mines for the State of Indiana.

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## GENERAL INFORMATION RELATING TO THE MINING INDUSTRY FOR THE YEAR ENDING DECEM- BER 31, 1909.

In preparing this report we present no topic that is not required of us by statute. The same general subjects are included as in our former reports, viz., Coal Production, Condition of Coal Trade, Mining Statistics, Mine Accidents and Recommended Legislation.

In arranging and treating each of these subjects we have endeavored to meet the requirements of the general public and those directly interested in the business of mines and mining.

The past year has brought the usual numerous inquiries for specific information concerning each of the subjects embraced in the report, and, prompted by such inquiries, we have changed the arrangement of some of the statistical tables, making the information more complete.

In arranging the table of mine employes for the present report the total number of each class and the aggregate number of employes for the State are given, subdivisions are made, and those employed in the block and bituminous mines, the machine and hand mines are each exhibited separately. The number of accidents to mine employes and the different causes of accidents are reported more accurately than heretofore, and under recommended legislation we recommend amendments to a number of the present mining laws and the enactment of new laws for the prevention of such accidents.

A reference to each of the various subjects included in the report may be found in the following summary, which contains all the important totals and averages for the year:

## SUMMARY OF TOTALS AND AVERAGES FOR THE YEAR 1909.

Number of coal-producing counties .....	18
Number of counties having shipping mines.....	13
Number of coal seams operated.....	6
Number of new coal companies organized.....	6
Total number of coal companies operating in the State.....	104
Number of new block coal mines opened.....	2
Number of new bituminous mines opened.....	10
Total number of new mines opened.....	12
Number of block coal mines abandoned.....	1
Number of bituminous mines abandoned.....	11
Number of block coal machine mines in operation.....	4
Number of block coal hand mines in operation .....	22
Number of block coal hand mines idle during entire year...	4
Number of block machine mines idle during entire year....	0
Number of bituminous hand mines in operation.....	72
Number of bituminous machine mines in operation.....	62
Number of bituminous hand mines idle during entire year...	23
Number of bituminous machine mines idle during entire year	3
Total number of machine mines in the State.....	69
Total number of hand mines in the State.....	121
Total number of mines employing more than ten men.....	190
Number of hand miners, block mines.....	1,132
Number of machine runners and helpers, block mines.....	40
Number of loaders, block mines.....	137
Number of inside day and monthly employees, block mines...	386
Number of outside day and monthly employees, block mines..	158
Total employees, block mines.....	1,853
Number of hand miners, bituminous mines.....	6,638
Number of machine runners and helpers, bituminous mines..	1,008
Number of loaders, bituminous mines.....	4,572
Number of inside day and monthly employees, bituminous mines .....	3,478
Number of outside day and monthly employees, bituminous mines .....	1,359
Total number of employees, bituminous mines .....	17,055
Total number of mine employees .....	18,908
Number of mules used, block mines .....	152
Number of mules used, bituminous mines .....	1,340
Total number of mules used in all mines.....	1,492
Number of kegs powder used in block mines .....	44,831
Number of kegs powder used in bituminous mines .....	376,715
Total number of kegs of powder used in the State.....	421,546
Aggregate number of days block coal mines were operated...	4,295
Average number of days, per mine, block machine mines were operated .....	195
Average number of days, per mine, block hand mines were op- erated .....	155.4
Aggregate number of days bituminous mines were operated..	22,749

Average number of days, per mine, bituminous hand mines were operated .....	151.3
Average number of days, per mine, bituminous machine mines were operated .....	191.2
Tons hand-mined block coal.....	594,038
Tons machine-mined block coal.....	124,175
Total tons of block coal produced.....	718,213
Tons hand-mined bituminous coal.....	5,975,680
Tons machine-mined bituminous coal.....	6,998,196
Total tons bituminous coal produced.....	12,973,876
Total production for the State.....	13,692,089
Tons block coal shipped outside the State.....	470,432
Tons block coal consumed in the State.....	247,781
Tons bituminous coal shipped outside the State.....	5,376,037
Tons bituminous coal consumed in the State.....	7,597,839
Total tons coal shipped outside the State.....	5,846,469
Total tons coal consumed in the State.....	7,845,620
Wages paid to block coal miners.....	\$632,553.29
Wages paid to inside day and monthly employes, block mines	\$239,381.87
Wages paid to outside day and monthly employes, block mines	\$115,427.19
Total wages paid to block coal employes.....	\$987,362.35
Wages paid to bituminous miners .....	\$7,191,064.45
Wages paid to inside day and monthly employes, bituminous mines .....	\$2,321,162.26
Wages paid to outside day and monthly employes, bituminous mines .....	\$880,461.98
Total wages paid to bituminous mine employes.....	\$10,392,688.69
Grand total wages paid to mine employes.....	\$11,380,051.04
Average earning per mine employ for the year.....	\$601.86
Total average cost per ton for mining block coal .....	\$1.37
Total average cost per ton for mining bituminous coal .....	.80.1
Total average cost per ton for entire production of the State	.83.1
Total money expended on improvement.....	\$68,743.32
Number of fatal accidents .....	50
Number of permanent accidents .....	8
Number of serious accidents .....	525
Number of minor accidents .....	546
Total number of accidents to mine employes.....	1,129
Number of accidents to mine property.....	8

TABLE

Showing by Months and by Counties the Number of Tons Mined and Wages Paid to Employes for the Year 1909 at Mines Employing More Than Ten Men.

MONTH.	CLAY COUNTY.		DAVISS COUNTY.	
	Tonnage.	Wages.	Tonnage.	Wages.
January.....	97,786	\$85,370 66	3,300	\$4,391 00
February.....	80,734	83,526 68	2,927	3,856 35
March.....	75,942	82,834 78	2,800	799 45
April.....	76,331	75,109 31	2,650	665 91
May.....	57,428	63,625 97	2,579	3,509 08
June.....	73,510	60,064 74	2,317	3,134 00
July.....	53,510	78,268 57	1,850	1,270 00
August.....	68,126	80,281 25	3,718	3,081 44
September.....	69,792	91,580 06	5,313	4,483 96
October.....	83,257	96,961 18	6,448	5,602 20
November.....	88,442	95,974 09	6,489	5,423 09
December.....	83,709	95,635 83	7,381	6,633 90
Total.....	912,567	\$989,233 12	47,772	\$42,850 38

MONTH.	FOUNTAIN COUNTY.		GIBSON COUNTY.	
	Tonnage.	Wages.	Tonnage.	Wages.
January.....	No mines operating.		21,578	\$20,665 46
February.....			21,819	19,568 15
March.....			17,603	15,730 14
April.....			10,134	10,171 17
May.....			9,865	8,660 85
June.....			9,629	8,525 79
July.....			11,584	11,247 46
August.....			16,888	15,976 69
September.....			18,534	19,619 29
October.....			23,665	21,690 16
November.....			22,484	20,614 45
December.....			24,871	21,895 25
Total.....			208,654	\$194,364 86

MONTH.	GREENE COUNTY.		KNOX COUNTY.	
	Tonnage.	Wages.	Tonnage.	Wages.
January.....	281,571	\$146,986 97	35,438	\$27,321 55
February.....	225,119	163,531 76	34,253	28,926 06
March.....	244,596	178,843 37	43,345	32,493 52
April.....	180,181	134,583 80	42,168	31,235 04
May.....	174,213	131,480 99	38,625	28,712 36
June.....	181,183	139,768 10	40,444	29,177 38
July.....	175,606	141,790 76	38,411	27,537 94
August.....	190,086	146,407 96	42,498	30,508 16
September.....	215,272	166,209 82	40,058	29,326 68
October.....	246,044	188,619 52	54,660	38,516 53
November.....	239,045	182,233 68	71,117	49,367 80
December.....	249,960	188,937 20	73,926	49,545 67
Total.....	2,692,876	\$1,909,393 93	559,943	\$402,668 69

MONTH.	PARKE COUNTY.		PERRY COUNTY.	
	Tonnage.	Wages.	Tonnage.	Wages.
January.....	58,826	\$56,899 62		
February.....	57,206	56,851 34		
March.....	52,991	52,700 15		
April.....	49,967	49,282 08	706	\$663 30
May.....	48,359	48,751 90	602	579 15
June.....	49,720	49,118 72		
July.....	58,889	52,446 92		
August.....	55,200	64,288 95		
September.....	66,816	68,649 61		
October.....	71,664	70,852 01		
November.....	67,961	68,156 37		
December.....	65,415	63,883 04		
Total.....	703,014	\$701,880 71	1,308	\$1,242 45

MONTH.	PIKE COUNTY.		SULLIVAN COUNTY.	
	Tonnage.	Wages.	Tonnage.	Wages.
January.....	40,097	\$33,793 80	253,916	\$194,360 17
February.....	37,104	30,783 28	220,675	178,252 31
March.....	28,337	24,770 22	200,821	183,413 60
April.....	24,150	19,118 24	204,523	171,891 44
May.....	21,303	17,267 57	164,217	155,506 75
June.....	14,011	11,380 20	152,663	135,006 60
July.....	16,351	13,176 29	177,823	154,417 48
August.....	20,297	22,203 08	194,635	170,356 25
September.....	35,064	22,032 19	257,305	207,561 70
October.....	38,217	29,130 20	300,006	241,435 82
November.....	36,687	28,320 62	318,743	251,030 26
December.....	50,564	38,359 43	335,243	271,207 83
Total.....	372,182	\$290,535 12	2,800,570	\$2,314,440 21

MONTH.	VANDERBURGH COUNTY.		VERMILION COUNTY.	
	Tonnage.	Wages.	Tonnage.	Wages.
January.....	22,843	\$26,594 72	117,901	\$94,079 17
February.....	28,470	23,817 15	95,820	83,754 82
March.....	23,266	22,400 26	103,564	85,594 47
April.....	15,259	14,899 43	123,803	96,956 38
May.....	8,245	9,437 42	100,057	88,565 97
June.....	11,124	12,205 67	108,441	97,762 40
July.....	12,312	13,386 13	111,354	96,081 23
August.....	15,756	14,654 73	86,315	79,867 09
September.....	18,142	17,720 06	92,451	83,556 99
October.....	29,020	26,060 40	127,242	100,843 78
November.....	24,532	22,181 01	137,902	118,159 66
December.....	38,257	32,590 43	145,203	126,182 00
Total.....	250,218	\$235,949 41	1,350,053	\$1,151,403 96



MONTH.	VIGO COUNTY.		WARRICK COUNTY.	
	Tonnage.	Wages.	Tonnage.	Wages.
January.....	347,319	\$224,140 18	31,883	\$22,798 30
February.....	315,311	315,178 66	27,207	20,682 97
March.....	263,126	217,817 01	35,876	23,820 78
April.....	257,312	212,055 32	23,069	16,589 87
May.....	188,564	210,200 36	27,234	19,017 75
June.....	257,757	216,416 29	23,846	17,326 21
July.....	240,466	213,388 25	25,585	17,632 76
August.....	286,097	220,613 05	27,552	18,309 06
September.....	267,894	233,180 64	34,914	24,077 19
October.....	311,637	269,000 93	40,599	27,846 28
November.....	366,790	256,585 95	45,576	32,235 78
December.....	388,076	281,842 27	49,242	35,332 34
Total.....	3,490,349	\$2,870,418 91	392,583	\$275,669 29

## REVIEW OF COAL TRADE AND MINING CONDITIONS.

The mining situation in Indiana during the year 1909 was peculiar in some respects. From January 1 to the latter part of March market demands were fairly good and the mines generally were operated better than three-fourths time. Selling prices for that period ranged from 90 cents to \$1 per ton for mine run bituminous coal f. o. b. cars at the mine. During the period beginning the latter part of March and extending over into the early part of August the coal business was in an exceedingly depressed condition; market demands were poorer than for years, competition strong, selling prices phenomenally low, ranging from 75 to 90 cents; practically all the mines in the State were operated considerably less than one-half time and hundreds of employes were idle. During the month of August, however, conditions began to improve; the market grew much stronger, and with an increasing demand for coal and for labor, by September 1 a majority of the larger producing mines were operated to their full capacity, furnishing employment to all the idle labor. Selling prices also advanced during the last four months in the year, ranging from 90 cents per ton in September to \$1.40 in December.

Practically the same conditions prevailed in the block coal field as in the bituminous, with the exception of the difference in the selling price per ton.

Notwithstanding the above mentioned period of business depression, the total production for the year was 13,692,089 tons, an increase of 441,374 tons, or a fraction over 3 per cent. greater than any preceding year in the history of the State. Of this tonnage 12,973,876 tons were bituminous and 718,213 tons block coal. This

shows an increase of 1,829,532 tons, or a fraction over 16 per cent. in bituminous production for 1909 over 1908, and 134,747 tons, or a fraction over 18½ per cent. less produced of block coal in 1909 than in 1908. This large increase in tonnage comes mainly from Greene, Sullivan, Vermillion and Vigo counties, and the greater portion was produced from machine mines. Vigo, with an increase of 872,434 tons, shows a larger increase than any other county, and of this increase 645,285 tons were bituminous machine mined coal.

The aggregate of wages reported for the year was \$11,380,051.04, or an increase of \$1,075,181.60 over 1908. Of the aggregate wages reported, \$10,392,688.69 was paid to bituminous employes, making a cost of 80.1+ per ton for production. The average selling price for bituminous mine run coal for the year would be approximately \$1 per ton f. o. b. car at the mine. The total wages reported for the block coal mines was \$987,362.35, a cost of \$1.23+ per ton for production. The selling prices for block coal ranged from \$1.75 to \$2.45 per ton for screened coal f. o. b. car at the mine. The lower prices prevailed during the dull season and the higher prices when the market demands were good. This would probably give an average selling price for the year at \$2.45 per ton.

Of the total production, 7,845,620 tons, or 57 per cent., was consumed in Indiana. This shows an increase of about 1 per cent. gain in home consumption of the yearly production over any previous year.

The total number of mine employes reported was 18,908, a decrease of 184 in number under 1908, and the aggregate wages being \$11,380,051.04, shows an average earning of \$601.86 per mine employe, an increased earning of \$62.12 per employe over 1908.

It has always been the policy of this department to make every reasonable effort to secure a conformance to the mining laws on the part of persons amenable to such laws without resorting to the courts, and each assistant to the department has instructions to that effect. Notwithstanding such efforts, we were compelled to make prosecutions in 1909 for violations of practically every mining statute relating to sanitary and safety conditions in mines. In many instances these prosecutions have caused an extremely bitter feeling toward the department on the part of the persons prosecuted. This is especially true of the miners and some of the mine bosses and mine owners in the Clinton field. The threats made in this field against the lives of some of our assistants have become so numerous that it is not deemed safe to permit an assistant to inspect

some of the mines alone, and as a result two are required to make such inspections.

The manner in which we have enforced the mining laws, however, has resulted in a betterment of mining conditions generally, and so far as safety and sanitary conditions are concerned, Indiana mines will compare favorably with those of any other State in the Union.

Our report shows a total of fifty fatal accidents occurring to employes in and around the mines during the year, or a rate of one death for each 273,841 tons of coal produced, as against one death for each 266,606 tons in 1908. We deplore this great loss of life, yet our report shows several thousand tons greater production per death than any of the reports of other states we have examined. We also report a total of 8 permanent, 525 serious and 546 minor accidents occurring in 1909, the greatest number of accidents our report has ever shown in any one year. This, though, does not indicate that accidents in our mines are on the increase.

The table given in this report showing the different occupations of persons injured exhibits a list of twenty-two different occupations or classes of workmen, and the table of causes shows twenty different causes of accidents exclusive of miscellaneous, under which head a large number of serious and minor accidents are classed.

In a mine employing from 100 to 350 persons at the many different kinds of labor, and the numerous sources whereby accidents occur, there is seldom a day that some one is not injured more or less seriously.

We require a report of each and every accident, no matter how trivial, and have made numerous prosecutions for failure to report. As a result our record of accidents for 1909 is more complete than for any previous year.

### LABOR TROUBLES.

There were but four strikes of consequence during the year. Those occurring affected only individual mines and were of short duration.

#### PIKE COUNTY.

May 10 the employes of the Pike County Coal Company, operating the Winslow Nos. 4 and 5 mines, came on strike on account of the company failing to meet its pay roll. The mine has been idle

since that date, and we have not learned whether the company settled with its employees or not.

#### GREENE COUNTY,

July 16 the employees of the Summit Coal and Mining Company came on strike over the company refusing to pay for handling the dirt band or binder which divides the coal seam, and for the reinstatement of the mine committee who were discharged during the controversy. Pay for the time lost by the committee was also demanded. The mine remained idle until the 28th, when work was resumed pending a settlement of the difficulty by National President T. L. Lewis. Mr. Lewis rendered his decision September 16, by which decision persons working in that part of the mine affected by the slate band were transferred to other places, and the mine committee were to be reinstated without pay for the time lost.

The question of pay for handling the slate band was referred back to the officials of the mine local and the company officials, for settlement, and was finally adjusted by the company agreeing to pay to the loader three cents per lineal yard in rooms having 6 inches and over of slate, and three cents per lineal yard in entries having 3 inches or over of slate.

#### VIGO COUNTY.

During the first of July the employees at the Grant No. 3 mine refused to go into the mine one morning on account of the condition of the approach to the escape shaft, which they contended was wet and muddy. The company claimed the stopping of the mine was in violation of the contract, and assessed a fine of \$1 on each employe for the day's work lost, upon which the miners came on strike, and after an idleness of twelve days the matter was referred to President Lewis, who rendered an opinion in favor of the miners.

#### CLAY COUNTY.

During the month of July a difference came up between the O. S. Richardson Coal Company and its employees as to the price to be paid the miners for mine-run coal. Failing to agree on a price the miners came on strike and were idle twelve days, when the matter was settled in their favor and the mine resumed operations.

The average wages of all classes of employees are exhibited in the following table:

TABLE

*Exhibiting the Number of Miners, the Number of Inside Day and Monthly Employees, the Number of Outside Day and Monthly Employees, the Total Wages Earned by Each Class of Labor, and the Average Earnings per Employee in the Block and Bituminous Mines, Each Shown Separately.*

## BLOCK COAL HAND MINES.

COUNTY.	Number of Miners.	Total Wages.	Average Wages.	Inside Employees.	Total Wages.	Average Wages.	Outside Employees.	Total Wages.	Average Wages.
Clay.....	737	\$379,056 39	\$517 83	198	\$139,409 89	\$704 09	83	\$65,790 89	\$792 66
Parke.....	333	127,784 70	383 73	101	43,181 44	427 53	34	25,403 80	744 20
General average.....	1,070	\$506,841 09	\$473 68	299	\$182,591 33	\$610 67	117	\$91,194 69	\$779 44

## BLOCK COAL MACHINE MINES.

Parke.....	43	\$37,197 07	\$865 05	27	\$19,705 32	\$729 82	10	\$7,157 52	\$715 75
Vigo.....	196	88,515 13	451 61	60	37,085 22	618 08	31	17,074 98	550 80
General average.....	239	\$125,712 20	\$525 99	87	\$56,790 54	\$652 76	41	\$24,232 50	\$591 03
General average for all block mines.....	1,309	\$632,553 29	\$483 23	386	\$239,381 87	\$620 16	158	\$115,427 19	\$730 55

## BITUMINOUS HAND MINES.

COUNTY.	Miners.	Total Wages.	Average Wages.	Inside Employees.	Total Wages.	Average Wages.	Outside Employees.	Total Wages.	Average Wages.
Clay.....	250	\$68,763 59	\$275 05	74	\$25,291 82	\$341 78	20	\$9,889 86	\$494 49
Daviess.....	104	28,394 45	273 02	19	8,054 72	423 93	16	6,401 21	400 07
Fountain.....	308	144,237 40	468 30	85	37,624 07	442 63	41	17,111 10	417 34
Greene.....	172	132,372 89	769 34	56	45,836 47	818 50	21	16,155 50	769 30
Gibson.....	24	8,928 99	372 04	7	7,590 32	1,084 31	5	3,453 42	690 68
Knox.....	233	119,713 46	513 79	68	36,125 26	531 25	30	14,935 07	497 83
Parke.....	12	721 05	60 08	2	298 55	148 27	2	222 85	111 42
Perry.....	364	134,430 80	369 31	101	40,660 75	402 58	50	19,657 03	393 14
Pike.....	323	94,921 43	293 87	103	32,549 62	316 01	52	22,820 02	438 84
Sullivan.....	298	156,892 90	526 48	79	48,174 25	609 80	47	30,882 26	657 06
Vanderburgh.....	1,154	801,811 52	694 81	254	175,681 08	353 48	75	42,276 29	563 68
Vermillion.....	1,986	1,248,795 05	628 79	497	389,654 55	784 01	167	128,316 14	768 36
Vigo.....	151	29,525 36	195 53	26	10,095 42	388 28	25	5,064 05	202 56
Warrick.....									
General average.....	5,379	\$2,969,508 89	\$552 05	1,371	\$857,636 88	\$325 55	551	\$317,184 80	\$575 65

## BITUMINOUS MACHINE MINES.

Clay.....	294	\$196,490 91	\$668 33	73	\$74,143 80	\$1,015 67	31	\$30,395 97	\$980 51
Greene.....	1,807	1,185,122 12	655 84	592	388,663 03	656 52	192	136,636 21	711 65
Knox.....	414	266,821 50	644 49	104	71,286 23	685 44	52	44,588 23	857 46
Parke.....	219	174,291 02	795 84	79	71,895 19	910 05	27	24,490 86	907 07
Pike.....	168	60,929 63	368 62	29	20,067 74	691 99	23	14,789 17	643 00
Sullivan.....	2,458	1,392,444 58	525 81	858	573,959 05	659 53	324	197,745 51	610 32
Vermillion.....	146	111,707 84	765 12	30	17,508 14	583 53	12	2,421 09	201 75
Vigo.....	995	670,530 50	673 90	270	207,548 68	768 67	94	82,898 66	881 90
Warrick.....	338	163,217 46	482 89	72	38,455 52	534 13	53	29,311 48	553 04
General average.....	6,839	\$4,221,555 56	\$617 27	2,107	\$1,463,525 38	\$694 69	808	\$563,277 18	\$697 12
Total general average bituminout mines.....	12,218	\$7,191,064 45	\$588 56	3,478	\$2,321,162 26	\$667 38	1,359	\$880,461 98	\$647 87
General average for all mines.....	13,527	\$7,823,617 74	\$578 37	3,864	\$2,590,544 13	\$662 68	1,517	\$995,889 17	\$656 48

Total employees in State 18,908. Total wages, \$11,380,051.04. Average wages, \$601.86.

NOTE.—Machine runners, helpers and loaders are classed as miners.

## TABLE

Showing Number of Miners, Machine Runners and Helpers, Loaders, Inside Day and Monthly Men, Persons Employed Outside; Total Number of Employees at Each Mine, Number of Days Worked and Number of Mules Used; Totals by Counties, the Block and Bituminous Mines Shown Separately.

## BLOCK HAND MINES.

## CLAY COUNTY.

NAME OF MINE.	Miners.	Inside Employees.	Outside Employees.	Total Employees.	Days Worked.	Mules Used.	Powder.
Brazil Block Coal Co. No. 1.	31	11	4	46	248	6	1,578
Brazil Block Coal Co. No. 4.	100	30	11	141	218	13	4,694
Superior No. 4.	61	17	6	84	157	7	1,933
Crawford No. 2.	32	18	6	56	194	4	874
Crawford No. 6.	51	17	5	73	175	8	1,595
Crawford No. 8.	21	5	4	30	182	2	799
Crawford No. 9.	39	9	5	53	21	4	2,264
Crawford No. 10.	51	12	6	69	164	3	2,769
Indiana Block No. 1.	37	8	5	50	189	3	1,158
Plymouth No. 2.	72	16	6	94	187	7	3,933
Monarch.	24	7	2	33	299	5	1,132
Eureka No. 5.	93	22	8	123	176	9	4,251
Treager.	8	2	1	11	252	1	443
Harrison No. 5.	13	1	2	16	104	1	1,868
Wizard.	60	14	5	79	169	4	1,276
Progressive.	27	7	5	39	87	4	299
German.	17	2	2	21	117	1	175
Shefferman.							
Pyrah.							
Total.	737	198	83	1,018	2,939	82	31,041

## PARKE COUNTY.

Brazil Blk. No. 9.	43	12	6	61	80	8	858
Brazil Block No. 12.	21	6	4	31	69	2	181
Superior No. 2.	78	27	8	113	131	11	2,200
Superior No. 3.	71	19	7	97	69	8	736
Superior No. 5.	120	37	9	166	191	14	5,603
Moore.	Less than	ten men.					
Total.	333	101	34	468	540	43	9,578
Totals for block hand mines.	1,070	299	117	1,486	3,479	125	40,619

## BLOCK COAL MACHINE MINES.

## PARKE COUNTY.

NAME OF MINE.	Miners.	Machine Runners and Helpers.	Loaders.	Inside Employees.	Outside Employees.	Total Employees.	Days Worked.	Number Mules Used.	Powder.
Mary No. 1.	6	10	27	27	10	80	246	9	352
Total.	6	10	27	27	10	80	246	9	352

## REPORT OF STATE GEOLOGIST.

## VIGO COUNTY.

NAME OF MINE.	Miners.	Machine Runners and Helpers.	Loaders.	Inside Em- ployes.	Outside Em- ployes.	Total Em- ployes.	Days Worked.	Number Mules Used.	Powder.
Mary No. 2.....	17	8	18	9	8	60	205	2	718
Plymouth No. 1.....	37	10	39	21	9	116	195	7	2,726
Domestic Block No. 1.	2	12	53	30	14	111	134	9	418
Total.....	56	30	110	60	31	287	534	18	3,860
Total for machine block mines.....	62	40	137	87	41	367	780	27	4,212
Total for all block mines....	1,132	40	137	388	158	1,853	4,259	152	44,831

## BITUMINOUS HAND MINES.

## CLAY COUNTY.

NAME OF MINE.	Miners.	Inside Em- ployes.	Outside Em- ployes.	Total Em- ployes.	Days Worked.	Mules Used.	Powder.
Vivian No. 1.....	Idle.						
Klondyke No. 3.....	37	14	7	58	51	2	244
Gifford No. 2.....	38	8	7	53	213	4	2,407
Vandalia No. 65.....	175	52	6	233	88	18	2,221
Total.....	250	74	20	343	352	24	4,872

## DAVIESS COUNTY.

Winterbottom.....	12	2	3	17	176	1	405
Mutual.....	62	12	7	81	132	7	1,695
Mandabach.....	Idle.						
Winklebeck.....	Idle.						
Pine Island.....	Idle.						
Montgomery No. 4.....	30	5	6	41	170	2	1,088
Total.....	104	19	16	139	478	10	3,188

## FOUNTAIN COUNTY.

All Mines Idle in 1909.

## GREENE COUNTY.

Dickason.....	Idle.						
Sponsler.....	80	15	7	102	227	12	5,138
Antioch.....	Idle.						
N. Linton.....	Idle.						
Vandalia No. 3.....	46	20	8	74	68	8	745
Vandalia No. 4.....	60	26	10	96	4	5	65
Vandalia No. 6.....	Idle.						
Queen.....	87	18	7	112	219	7	4,490
Cherry Hill.....	20	3	6	29	41	3	358
Letsinger.....	Idle.						
P. & I.....	Idle.						
Enterprise.....	15	3	3	21	158	2	721
Total.....	308	85	41	434	717	37	11,526



## GIBSON COUNTY.

NAME OF MINE.	Miners.	Inside Employees.	Outside Employees.	Total Employees.	Days Worked.	Mules Used.	Powder
Oswald.....	137	44	12	193	225	23	7,366
Ft. Branch.....	27	10	6	43	189	2	1,408
Francisco.....	8	2	3	13	116	2	182
Total.....	172	56	21	249	530	27	8,958

## KNOX COUNTY.

	Idle.						
Bicknell.....	24	7	5	36	142	3	630
Wheatland.....							
Total.....	24	7	5	36	142	3	630

## PARKE COUNTY.

Fairview.....	84	15	9	108	181	8	3,119
Mecca No. 3.....	28	4	4	34	72	3	504
Vandalia No. 318.....	111	46	15	172	166	20	3,501
Harrison.....	12	3	2	17	100	2	1,000
Total.....	233	68	30	331	519	33	8,124

## PERRY COUNTY.

Lincoln.....	12	2	2	16	100	2	600
Total.....	12	2	2	16	100	2	600

## PIKE COUNTY.

Ayrshire No. 3.....	46	12	9	67	84	5	861
Ayrshire No. 4.....	113	31	19	163	118	10	3,294
Muren.....	40	12	8	60	140	5	593
Blackburn No. 1.....	21	5	4	30	108	3	746
Littles.....	144	41	10	195	154	14	4,928
Petersburg.....	Idle.						
Winslow No. 4 and 5.....	Idle.						
Muren.....	40	12	8	60	140	5	993
Hartwell No. 1.....	Idle.						
Hartwell No. 2.....	Idle.						
Hartwell No. 3.....	Idle.						
Total.....	364	101	50	515	604	37	10,822

## SULLIVAN COUNTY.

Citizens.....	21	6	6	33	139	5	476
Keystone.....	61	15	9	85	175	7	2,218
Viola.....	51	20	13	84	185	7	2,702
Freeman.....	51	20	10	81	24	7	333
Hudson.....	129	37	9	175	40	13	1,300
Bellevue.....	10	5	5	20	141	1	287
Larsh.....	Idle.						
Total.....	323	103	52	478	704	40	7,316

## VANDERBURGH COUNTY.

NAME OF MINE.	Miners.	Inside Employes.	Outside Employes.	Total Employes.	Days Worked.	Mules Used.	Powder.
Diamond.....	42	10	10	62	140	6	1,624
Ingleside.....	62	18	10	90	175	9	1,552
Sunnyside.....	38	9	6	53	133	5	1,440
Unity.....	111	34	12	157	206	11	5,254
First Avenue.....	45	8	9	62	246	6	1,773
Total.....	298	79	47	424	900	37	11,643

## VERMILION COUNTY.

	Idle.						
Dering No. 5.....							
Dering No. 7.....	109	33	10	152	99	12	3,008
Dering No. 8.....	165	45	11	221	228	19	9,967
Eureka No. 1.....	11	3	2	16	19	3	70
Crown Hill No. 1.....	251	40	13	304	255	20	16,490
Crown Hill No. 2.....	225	40	13	278	269	20	18,056
Oak Hill.....	24	8	6	38	127	2	1,132
Maple Valley.....	Idle						
Buck Eye No. 2.....	240	63	10	313	193	29	16,073
Klondyke 19.....	129	22	10	161	184	8	7,952
Total.....	1,154	254	75	1,483	1,374	113	72,754

## VIGO COUNTY.

Riverside.....	15	4	2	21	49	1	353
Vandalia No. 66.....	117	44	12	173	213	20	5,164
Vandalia No. 67.....	184	54	16	254	215	29	6,822
Vandalia No. 81.....	73	27	12	112	252	11	4,484
Lawton.....	119	27	13	159	202	22	3,716
Victor No. 1.....	45	8	5	58	25	4	435
Lower Vein.....	200	45	10	255	200	19	9,586
Miami No. 1.....	66	20	7	93	271	6	3,103
Miami No. 2.....	99	27	8	134	294	13	5,085
Miami No. 3.....	63	25	9	97	209	11	4,087
Miami No. 4.....	133	20	7	160	275	8	8,159
Miami No. 5.....	New Mine.	no report.					
Fauvre No. 1.....	36	14	7	57	31	5	377
Fauvre No. 2.....	51	10	8	69	211	4	3,565
Deep Vein No. 5.....	80	17	9	106	125	9	1,223
Ray No. 2.....	240	48	11	299	192	21	6,982
Sugar Valley.....	41	5	3	49	298	3	2,263
Dering No. 6.....	223	65	9	297	238	33	13,933
National.....	38	6	3	47	223	4	1,804
Pittsburg No. 1.....	101	17	9	127	276	5	No report.
Atherton.....	62	14	7	83	229	10	5,345
Total.....	1,986	497	167	2,650	4,028	238	86,536

## WARRICK COUNTY.

Chandler.....	22	4	3	29	88	2	542
Red Shaft.....	Idle.						
Castle Garden.....	25	5	4	34	51	2	256
Brizius.....	37	6	4	47	129	4	789
Elberfeld.....	24	5	5	34	92	3	350
Korff.....	21	3	4	28	43	1	180
Sargent.....	22	3	5	30	45	2	128
Total.....	151	26	25	202	448	14	2,245
Total for bituminous hand mines.....	5,379	1,371	551	7,301	10,896	615	229,204

## BITUMINOUS MACHINE MINES.

## CLAY COUNTY.

NAME OF MINE.	Miners.	Machine Runners and Helpers.	Loader.	Inside Em- ployes.	Outside Em- ployes.	Total.	Days Worked.	Mules Used.	Powder.
Lewis.....	15	16	45	11	7	94	105	5	478
Vivian No. 2.....	10	14	54	25	11	114	215	11	1,383
Island Valley No. 4.....	30	16	94	37	13	190	277	22	5,042
Total.....	55	46	193	73	31	398	597	38	6,903

## GREENE COUNTY.

Black Creek.....	53	6	30	33	10	132	238	9	4,786
Vandalia No. 2.....	14	26	63	34	12	149	156	9	1,444
Vandalia No. 5.....	36	18	88	55	23	220	252	16	2,562
Vandalia No. 8.....	4	24	150	66	18	262	231	17	2,292
Vandalia No. 9.....	2	18	175	60	17	272	245	14	3,241
Vandalia No. 20.....	6	6	5	5	5	41	284	2	490
Vandalia No. 21.....	24	99	30	15	168	247	11	1,901	
Gillmore.....	22	18	121	59	18	238	170	16	6,015
Summit No. 2.....	3	18	98	52	9	180	194	25	1,468
Green Valley.....	22	131	38	12	203	176	11	2,574	
Lattas Creek.....	47	32	146	84	25	334	177	17	9,896
Northwest.....	20	14	85	30	12	161	235	10	1,839
Twin No. 4.....	14	8	34	19	7	82	176	6	889
Twin No. 5.....	23	12	78	27	9	149	194	10	1,936
Total.....	233	245	1,323	592	192	2,591	2,975	173	41,329

## KNOX COUNTY.

Knox.....	7	14	62	22	13	118	142	7	1,273
Lynn.....	10	8	40	18	8	84	188	9	1,170
Freeman.....	19	16	95	33	18	185	139	14	3,189
Tecumseh.....	42	101	23	13	182	175	11	2,237	
Total.....	33	80	298	104	52	570	643	41	7,869

## PARKE COUNTY.

Parke No. 11.....	47	26	45	43	12	173	263	13	3,934
Lyford No. 1.....		34	67	36	15	152	274	16	2,370
Total.....	47	60	112	79	27	325	537	29	6,304

## PIKE COUNTY.

Ayrshire No. 5.....	5	8	33	12	8	66	198	6	954
Blackburn No. 2.....	58	6	12	11	8	95	112	4	1,484
Peacock No. 2.....	8	6	32	6	7	59	162	3	683
Total.....	71	20	77	29	23	220	472	13	3,121

## REPORT OF STATE GEOLOGIST.

## SULLIVAN COUNTY.

NAME OF MINE.	Miners.	Machine Runners and Helpers.	Loader.	Inside Em- ployes.	Outside Em- ployes.	Total.	Days Worked.	Mules Used.	Powder.
Rainbow.....	2	18	112	34	23	189	98	18	2,693
Phoenix No. ....		20	104	50	17	191	92	14	3,167
Hoe'ing.....		16	85	41	17	159	46	10	1,060
Sunflower.....		12	85	26	13	136	167	11	1,178
Consolidated No. 25.....		24	91	48	16	179	261	15	2,422
Consolidated No. 26.....	Idle.								
Consolidated No. 28.....	Idle.								
Consolidated No. 30.....		12	73	34	18	137	188	12	1,412
Consolidated No. 32.....		2	16	5	6	29	43	2	91
Consolidated No. 33.....	27	28	166	89	19	329	264	22	3,415
Vandalia 10.....	1	20	118	75	20	234	159	13	2,195
Jackson Hill No. 2.....		20	115	37	16	188	172	22	1,434
Jackson Hill No. 4.....		20	117	38	15	190	178	22	1,619
Dering No. 13.....		14	77	37	14	142	202	17	1,488
Dering No. 14.....	3	18	101	53	18	193	230	15	1,725
Mammoth Vein.....	2	14	83	44	18	161	52	12	1,458
Shirley Hill No. 1.....	35	10	42	25	13	126	217	9	2,773
Shirley Hill No. 3.....	6	10	64	19	12	111	218	5	1,215
Little Giant.....	172	14	93	74	21	374	256	16	9,794
Clover Leaf.....	94	8	50	53	15	220	237	17	5,306
Pearl.....	4	10	56	27	12	109	162	12	688
Reliance.....	2	12	77	35	12	138	193	10	1,039
Hamilton.....	Idle.								
Black Hawk.....	60	8	15	13	9	105	174	5	2,745
Total.....	408	310	1,740	858	324	3,640	3,609	279	48,917

## VERMILLION COUNTY.

Crown Hill, No. 3.....	32	42	72	30	12	188	262	9	2,635
Total.....	32	42	72	30	12	188	262	9	2,635

## VIGO COUNTY.

Vandalia No. 63.....	22	16	67	48	13	166	266	16	2,212
Forrest.....	180	12	34	52	20	298	180	19	5,752
Wabash.....	20	16	129	42	10	217	268	13	3,108
Minshall.....	81	16	55	25	8	185	269	12	6,111
Grant No. 3.....	12	44	98	49	19	222	280	13	2,788
Glenn Ayr No. 1.....	9	18	91	35	12	165	212	11	2,413
Glenn Ayr No. 2.....	2	4	13	5	5	29	43	2	480
Deep Vein No. 4.....	17	6	33	14	7	77	231	7	1,821
Plymouth No. 1.....	Idle.								
Total.....	343	132	520	270	94	1,359	1,749	93	24,685

## WARRICK COUNTY.

Big Four.....		18	54	10	16	98	188	7	1,330
De Forrest.....	11	4	12	4	2	33	107	3	201
Electric.....	18	8	33	22	9	90	105	11	913
Dawson.....		16	35	11	6	68	293	7	876
Erie Canal.....		8	44	14	8	74	125	7	752
Polk No. 5.....		18	59	11	12	100	191	5	1,676
Total.....	29	72	237	72	53	463	1,009	40	5,748
Total for bituminous machine mines.....	1,259	1,008	4,572	2,107	808	9,754	11,853	725	147,511
Total for all bituminous mines.....	6,638	1,008	4,572	3,478	1,359	17,055	22,749	1,340	376,715
Grand total for all all mines in the State.....	7,770	1,048	4,709	3,864	1,517	18,908	17,008	1,492	421,546

## LOCAL OR WAGON MINES.

During the year 1909 the location of 327 mines, employing from one to nine men, and operated for wagon or local trade only, was ascertained by our department. An effort was made to secure from the operators of such mines a report showing the number of tons of coal produced, number of kegs of powder used, and the number of men employed during the year. These mines are located in nineteen different counties, five of which, viz., Dubois, Martin, Owen, Spencer and Warren, have no shipping mines and have not been previously mentioned in our annual reports. The remaining fourteen counties have shipping mines, the statistical reports of which are included each year in our annual report.

Of the aggregate number of small mines, 202 are bituminous and 125 block. The block mines are located in Clay, southeast part of Fountain, east part of Green, Owen, Parke, Perry, Spencer and Warren counties.

Reports were obtained from thirty-six of the block mines, showing a production of 26,251 tons of coal, and 188 employes. Reports were also received from fifty-two bituminous mines, giving a production of 113,120 tons of coal and 209 employes, or a total production of 139,371 tons of both kinds of coal, and a total of 397 employes.

Basing our opinion on mines that have reported and other information concerning those that have not reported, we estimate the total production of block coal produced by all the local or wagon mines in the State to be 50,000 tons, and a total of 360 employes, and the total production of bituminous coal at 300,000 tons, with a total working force of 475 employes, or a total production of 350,000 tons of both kinds of coal and a total working force of 835 employes.

TABLE.

Showing by Counties the Name of Mine, Number of Tons of Screened, Slack, Nut and Mine Run Coal, Total Tons of all Grades of Coal Produced and the Distribution Thereof, the Production of Block and Bituminous Coal, Each Being shown Separately, as is the Machine and Pick or Hand-Mined Coal.

## BLOCK COAL MACHINE MINES.

## PARKE COUNTY.

NAME OF MINE.	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Mary No. 1.....	39,007	6,573	.....	45,580	4,383	937	.....	5,320	4,421	46,479	\$37,197 07	\$19,705 32	\$7,157 52	\$64,059 91
Total.....	39,007	6,573	.....	45,580	4,383	937	.....	5,320	4,421	46,479	\$37,197 07	\$19,705 32	\$7,157 52	\$64,059 91

## VIGO COUNTY.

Mary No. 2.....	9,366	1,911	.....	11,277	5,314	1,318	.....	6,632	2,010	15,899	\$16,340 57	\$7,450 48	\$5,581 19	\$29,372 24
Plymouth No. 1.....	29,883	6,886	.....	36,769	21,179	6,048	.....	27,227	22,057	41,939	48,366 25	15,932 00	6,403 30	70,751 55
Domestic Block No. 1.....	25,152	5,397	.....	30,549	98	97	.....	195	10,108	20,636	23,808 31	13,652 74	5,090 49	42,551 54
Total.....	64,401	14,194	.....	78,595	26,591	7,463	.....	34,054	34,175	78,474	\$88,515 13	\$37,085 22	\$17,074 98	\$142,675 33
Total machine mined block coal.....	103,408	20,767	.....	124,175	30,974	8,400	.....	39,374	38,596	124,953	\$125,712 20	\$56,790 54	\$24,232 50	\$206,735 24

## BLOCK HAND OR PICK MINES.

## CLAY COUNTY.

NAME OF MINE.	PICK MINES.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Brazil Block No. 1.....	17,222	3,450	.....	20,672	4,178	16,494	\$18,900 27	\$7,899 65	\$7,454 93	\$34,254 85
Brazil Block No. 4.....	57,501	5,766	.....	63,267	11,107	52,160	61,436 13	19,520 33	9,039 17	89,995 63
Superior No. 4.....	23,371	5,640	97	29,108	13,262	15,846	27,600 24	11,250 34	5,633 86	44,484 44
Crawford No. 2.....	16,745	3,440	.....	20,185	6,511	13,674	18,657 35	12,692 80	4,612 72	35,962 87
Crawford No. 6.....	19,786	4,375	.....	24,161	6,000	18,161	20,453 28	10,927 80	4,106 59	35,487 67
Crawford No. 8.....	10,415	2,155	.....	12,570	3,182	9,388	10,892 77	3,888 82	2,620 89	17,402 48
Crawford No. 9.....	23,414	5,150	.....	28,564	19,675	8,889	25,065 71	8,851 36	5,240 56	39,157 63
Crawford No. 10.....	23,909	5,225	.....	29,134	9,787	19,347	28,243 71	9,531 57	4,395 35	42,170 63
Indiana No. 1.....	9,810	1,150	6,989	17,949	3,244	14,705	16,221 08	5,194 79	3,442 50	24,858 37
Plymouth No. 2.....	33,568	9,070	830	43,468	5,227	38,241	37,746 60	10,821 35	4,851 05	53,419 00
Monarch.....	.....	.....	10,661	10,661	10,661	.....	12,000 00	10,306 85	1,374 38	23,681 23
Eureka No. 5.....	43,131	9,650	108	52,889	15,856	37,033	47,587 23	12,769 01	5,593 36	65,949 60
Treager.....	5,396	1,548	.....	6,944	6,944	.....	5,436 90	1,370 27	659 00	7,466 17
Harrison No. 5.....	1,868	350	.....	2,218	2,218	.....	2,203 30	332 10	500 45	3,035 85
Schefferman.....	Idle.	.....	.....	.....	.....	.....	.....	.....	.....	.....
Wizard.....	31,898	5,921	30	37,849	29,201	8,648	38,348 93	11,053 00	3,879 00	53,280 93
Pyrah.....	Working less	than ten men	.....	.....	.....	.....	.....	.....	.....	.....
Progressive.....	2,591	.....	1,895	4,486	4,486	.....	5,262 89	1,999 85	1,476 08	8,738 82
German.....	.....	.....	2,493	2,493	2,493	.....	3,000 00	1,000 00	911 00	4,911 00
Total.....	320,625	62,890	23,103	406,618	154,032	252,586	\$379,056 39	\$139,409 89	\$65,790 89	\$584,257 17

## PARKE COUNTY.

Brazil No. 9.....	12,428	2,400	.....	14,828	7,931	6,897	\$12,744 90	\$5,018 17	\$5,147 63	\$22,910 70
Brazil No. 12.....	2,241	465	.....	2,706	370	2,336	2,357 11	1,234 94	1,742 39	5,334 44
Superior No. 2.....	26,689	6,520	1,222	34,431	34,431	.....	30,715 22	12,239 55	6,169 69	49,124 46
Superior No. 3.....	9,971	2,450	.....	12,421	12,421	.....	10,722 53	4,402 66	2,201 22	17,326 41
Superior No. 5.....	67,460	16,200	.....	83,660	.....	83,660	71,244 94	20,286 12	10,142 87	101,673 93
Moore.....	Working less	than ten men	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	118,789	28,035	1,222	148,046	55,153	92,893	\$127,784 70	\$43,181 44	\$25,403 80	\$196,369 94
Total pick mined block coal....	439,414	90,925	24,325	554,664	209,185	345,479	\$506,841 09	\$182,591 33	\$91,194 69	\$780,627 11
Total machine mined block....	134,382	29,167	.....	163,549	38,596	124,953	\$125,712 20	\$56,790 54	\$24,232 50	\$206,735 24
Total block.....	573,796	120,092	24,325	718,213	247,781	470,432	\$632,553 29	\$239,381 87	\$115,427 19	\$987,362 35

## BITUMINOUS HAND OR PICK MINES.

## CLAY COUNTY.

NAME OF MINE.	PICK MINES.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Klondyke No. 3.....	2,262	1,480	3,383	7,125	6,918	207	\$3,766 54	\$4,091 24	\$1,047 05	\$8,904 83
Gifford No. 2.....	31,321	10,340	180	41,841	23,631	18,210	29,608 81	8,793 82	4,882 13	43,284 79
Vivian No. 1.....	Idle.									
Vandalia No. 65.....	3,014	1,519	55,235	59,768	55,679	4,089	35,388 21	12,406 76	3,960 68	51,755 68
Total.....	36,597	13,339	58,798	108,734	86,228	22,505	\$68,763 59	\$25,291 82	\$9,889 86	\$103,945 27

## DAVISS COUNTY.

Winterbottom No. 3.....			8,010	8,010	8,010		\$4,393 45	\$1,019 72	\$1,958 21	\$7,371 38
Mutual.....	8,550	3,600	15,000	27,150	17,300	9,850	22,451 00	5,910 00	3,443 00	31,804 00
Mandabach.....	Idle.									
Winklepeck.....	Idle.									
Pine Island No. 1.....	Idle.									
Montgomery No. 4.....	7,162	3,290	2,160	12,612	11,012	1,600	1,550 00	1,125 00	1,000 00	3,675 00
Total.....	15,712	6,890	25,170	47,772	36,322	11,450	\$28,394 45	\$8,054 72	\$6,401 21	\$42,850 38



## GREENE COUNTY.

Dickason	Idle.									
Sponsor	30,697	11,152	77,116	118,965	73,235	45,730	\$76,402 45	\$20,177 51	\$8,581 19	\$103,161 15
Antioch	Idle.									
North Linton	Idle.									
Vandalia No. 3	13,498	6,688	2,561	22,747	22,617	130	13,829 41	3,504 43	1,693 70	18,827 54
Vandalia No. 4			1,200	1,200	1,200		720 00	250 00	200 00	1,170 00
Vandalia No. 6	Idle.									
Queen	15,604	15,204	51,740	82,548	80,148	2,400	39,764 00	11,175 00	5,650 00	56,589 00
Cherry Hill	4,336	2,442	1,892	8,670	8,670		5,470 52	351 37	917 77	6,739 66
Letzinger	Idle.									
P. & I.	Idle.									
Enterprise			19,334	19,334	19,334		8,251 02	2,165 76	2,068 44	12,485 22
Total	64,135	35,486	153,843	253,464	205,204	48,260	\$144,237 40	\$37,624 07	\$17,111 10	\$198,972 57

## GIBSON COUNTY.

Gerald	64,385	81,750	30,268	176,403	176,403		\$111,433 57	\$38,166 34	\$11,557 66	\$161,157 57
Ft. Branch	11,445	11,100	6,381	28,926	28,926		18,630 58	7,268 13	4,185 15	30,083 86
Francisco	917	543	1,865	3,325	3,325		2,308 74	402 00	412 69	3,123 43
Total	76,747	93,393	38,514	208,654	208,654		\$132,372 89	\$45,836 47	\$16,155 50	\$194,364 86

## FOUNTAIN COUNTY.

Indio	Idle.									
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## KNOX COUNTY.

Bicknell	Idle.									
Wheatland			14,383	14,383	14,383		\$8,928 99	\$7,590 32	\$3,453 42	\$19,972 73
Total			14,383	14,383	14,383		\$8,928 99	\$7,590 32	\$3,453 42	\$19,972 73

## PARKE COUNTY.

NAME OF MINE.	PICK MINES.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Fairview .....	29,251	20,319	10,807	60,377	36,512	23,865	\$43,717 86	\$9,909 85	\$5,710 33	\$59,338 04
Mecca No. 3 .....	6,153	1,672	592	8,417	4,687	3,730	6,986 41	2,443 32	1,078 39	10,508 12
Vandalia No. 316 .....	48,493	31,014	5,422	84,929	78,413	6,516	61,972 93	21,753 59	7,188 35	90,914 87
Harrison .....			12,129	12,129	12,129		7,036 26	2,018 50	958 00	10,012 76
Total .....	83,897	53,005	28,950	165,852	131,741	34,111	\$119,713 46	\$36,125 26	\$14,935 07	\$170,773 79

## PERRY COUNTY.

Lincoln .....	200	103	1,005	1,308	1,268	40	\$721 05	\$298 55	\$222 85	\$1,242 45
Total .....	200	103	1,005	1,308	1,268	40	\$721 05	\$298 55	\$222 85	\$1,242 45

## PIKE COUNTY.

Ayrshire No. 3 .....	17,538	6,479	10,030	34,047	25,028	9,019	\$13,199 62	\$3,605 49	\$1,899 35	\$18,704 46
Ayrshire No. 4 .....	26,613	26,887	14,536	68,036	39,675	28,361	40,135 23	12,244 57	7,608 66	59,988 46
Muren .....			23,300	23,300	12,000	11,300	13,591 00	5,259 00	2,225 00	21,075 00
Blackburn No. 1 .....			14,603	14,603	14,603		8,053 52	1,783 79	1,616 15	11,453 46
Littles .....	28,967	38,734	38,639	106,340	74,773	31,567	59,451 43	17,767 90	6,307 87	83,527 20
Petersburg .....	Idle									
Winslow Nos. 4 and 5 .....	Idle									
Hartwell Nos. 1, 2 and 3 .....	Idle									
Total .....	73,118	72,100	101,108	246,326	166,079	80,247	\$134,430 80	\$40,660 75	\$19,657 03	\$194,748 58

## SULLIVAN COUNTY.

Citizens.....			10,210	10,210	10,210		\$6,710 00	\$1,810 00	\$2,020 00	\$10,540 00
Keystone.....	24,430	22,542	4,058	51,030	40,000	11,030	33,261 72	10,245 25	6,640 32	50,147 29
Viola.....	7,691	12,353	20,695	40,739	29,444	11,295	29,555 44	10,140 27	7,736 97	47,432 08
Freeman.....	4,536	2,259	4,445	7,240	5,424	1,816	4,676 64	1,507 77	1,097 28	7,281 09
Hudson.....	16,260	13,493	29,753	59,506	29,753	29,753	17,968 85	6,997 63	2,418 66	27,385 14
Bellevue.....	2,643		1,919	4,562	4,562		2,748 78	1,848 70	2,906 79	7,504 27
Larsh.....	Idle.									
Total.....	55,560	50,647	67,080	173,287	119,393	53,894	\$94,921 43	\$32,549 62	\$22,820 02	\$150,291 07

## VANDERBURGH COUNTY.

Diamond.....	21,335	13,255	5,778	40,368	40,368		\$26,418 20	\$5,754 19	\$4,697 12	\$36,869 51
Ingleside.....	4,744	5,354	29,630	39,728	39,728		21,918 80	8,819 05	4,374 26	35,112 11
Sunnyside.....	18,989	10,290	3,211	32,490	28,382	4,108	19,372 00	7,312 00	7,601 00	34,285 00
Unity.....	25,100	22,912	50,130	98,142	98,142		63,974 68	18,900 10	8,940 11	91,814 89
First Avenue.....	22,944	13,182	3,364	39,490	39,490		25,209 22	7,388 91	5,269 77	37,867 90
Total.....	93,112	64,993	92,113	250,218	246,110	4,108	\$156,892 90	\$48,174 25	\$30,882 26	\$235,949 41

## VERMILION COUNTY.

Dering No. 5.....	Idle.									
Dering No. 7.....	32,098	20,872	9,111	62,081		62,081	\$34,161 77	\$9,736 80	\$3,262 41	\$47,160 98
Dering No. 8.....	94,753	106,234	56,345	257,332		257,332	141,520 24	50,608 77	7,389 25	199,518 26
Eureka.....			2,363	2,363			901 67	1,134 81	868 82	2,905 30
Crown Hill No. 1.....	96,204	39,879	114,884	250,967	54,931	196,036	191,552 58	30,865 10	3,627 12	226,044 80
Crown Hill No. 2.....	71,172	23,889	153,797	248,658	46,117	202,541	193,826 89	28,809 40	3,826 59	226,462 88
Oak Hill.....	2,277	1,637	8,609	12,523		12,523	8,961 44	4,239 90	2,417 05	15,618 39
Maple Valley.....	Idle.									
Buckeye No. 2.....	65,641	37,537	159,128	262,306	32,661	229,645	149,088 30	37,258 30	11,654 45	198,001 05
Klondyke No. 1.....	25,840	16,024	87,221	129,085	120,761	8,324	81,798 63	13,028 00	9,230 60	104,057 23
Total.....	387,985	245,872	591,458	1,225,315	256,833	968,482	\$801,811 52	\$175,681 08	\$42,276 29	\$1,019,768 89

## VIGO COUNTY.

NAME OF MINE.	PICK MINES.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Riverside.....	2,479	1,637	894	5,010	4,751	259	\$4,310 65	\$521 30	\$866 85	\$5,698 80
Vandalia No. 66.....	65,573	51,842	6,731	124,146	124,146		67,463 63	23,390 09	7,169 90	98,023 62
Vandalia No. 67.....	14,442	6,999	168,070	189,511	172,321	17,190	112,181 94	28,636 26	9,988 66	150,806 86
Vandalia No. 81.....	43,641	35,056	5,893	84,590	53,503	31,087	49,200 19	17,071 61	7,212 75	73,484 55
Atherton.....	40,223	20,090	66,596	126,909		126,909	55,319 88	25,979 85	10,834 25	92,133 98
Lawton.....	61,042	38,401	692	100,134	100,134		56,591 70	21,059 90	8,283 55	85,935 15
Victor.....	8,099	4,488	784	13,371	13,371		7,592 35	1,629 10	1,033 90	10,255 35
Lower Vein No. 1.....	81,939	52,539	33,896	168,374	168,374		96,276 96	28,111 18	6,510 08	133,898 22
Miami No. 1.....	42,745	29,546	26,173	98,464		98,464	55,883 50	20,230 28	6,818 41	82,932 19
Miami No. 2.....	50,732	47,460	39,486	137,678		137,678	82,071 54	27,780 64	12,889 94	122,742 12
Miami No. 3.....	49,757	40,426	36,564	126,747		126,747	75,561 78	23,603 64	7,002 59	106,168 01
Miami No. 4.....	50,946	37,007	92,196	180,149		180,149	114,636 51	29,227 46	9,593 75	153,457 72
Miami No. 5.....	New mine;	no report.								
Fauvre No. 1.....	2,257	1,982	1,601	5,840	5,840		3,504 89	1,566 23	488 00	5,559 12
Fauvre No. 2.....	33,549	26,997	4,108	64,654	59,827	4,827	34,183 52	9,297 77	3,575 32	47,056 61
Deep Vein No. 5.....	5,565	3,712	5,929	15,206	15,206		9,721 93	3,002 24	1,841 13	14,565 30
Ray No. 2.....	51,276	24,343	108,739	184,358	152,016	32,342	118,598 50	26,054 10	8,024 24	152,676 84
Sugar Valley.....	12,400	18,428	9,180	39,988	39,988		25,506 82	4,679 84	4,318 63	34,505 26
Dering No. 6.....	182,577	79,403	35,167	297,147		297,147	184,408 33	54,048 51	7,136 00	245,592 84
National.....	6,891	5,584	19,609	31,884	29,522	2,362	19,925 51	4,791 51	4,684 28	29,401 28
Pittsburg No. 1.....	57,211	45,547	55,618	158,376	68,808	89,568	75,854 92	38,973 04	7,043 96	121,871 92
Total.....	863,144	571,486	717,906	2,152,536	1,007,807	1,144,729	\$1,248,795 05	\$389,654 55	\$128,316 14	\$1,766,765 74

## WARRICK COUNTY.

Chandler.....			10,542	10,542	10,542		\$6,256 69	\$1,573 66	\$884 50	\$8,714 85
Red Shaft.....	Idle.									
Castle Garden.....			5,101	5,101	5,101		3,052 15	537 90	504 05	4,094 10
Brizius.....	7,649	3,222	6,526	17,397	17,397		10,646 30	3,048 62	2,255 91	15,950 83
Elberfeld.....	916	914	7,904	9,734	9,734		4,780 97	2,145 99	1,072 34	7,999 30
Epworth.....	No report.									
Korff.....	2,780	1,853		4,633	4,633		3,000 00	2,000 00	190 00	5,190 52
Sargent.....			2,590	2,590	2,590		1,769 25	789 25	157 25	2,735 75
Total.....	11,345	5,989	32,663	49,997	49,997		\$29,525 36	\$10,095 42	\$5,064 05	\$44,684 83
Total hand mined bituminous coal.....	1,761,552	1,213,303	1,922,991	4,897,846	2,530,019	2,367,827	\$2,969,508 89	\$857,636 88	\$317,184 80	\$4,144,330 57

## BITUMINOUS MACHINE MINES.

## CLAY COUNTRY.

NAME OF MINE.	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Lewis.....	10,385	18,389	8,637	37,411					23,722	13,689	\$13,334 43	\$8,098 36	\$7,607 50	\$29,040 29
Vivian No. 2.....	29,729	11,659	38,675	80,063	4,804	1,930	6,645	13,379	50,877	42,565	46,046 98	26,057 32	9,102 02	81,206 32
Island Valley No. 4.....	80,399	35,253	97,660	213,312	17,863	9,135	26,052	53,050	74,945	191,417	137,109 50	39,988 12	13,686 45	190,784 07
Total.....	120,513	65,301	144,972	330,786	22,667	11,065	32,697	66,429	149,544	247,671	\$196,490 91	\$74,143 80	\$30,395 97	\$301,030 68

## GREENE COUNTY.

Black Creek.....	30,233	11,911	5,322	47,466	53,759	22,034	15,643	91,436	80,491	58,411	\$86,858 08	\$28,680 96	\$9,759 70	\$125,298 74
Vandalia No. 2.....			92,400	92,400			5,318	5,318	97,718		47,265 13	15,126 96	6,245 27	68,637 36
Vandalia No. 5.....	95,051	52,638	2,283	170,937	16,088	8,008	1,744	21,880	162,345	34,422	102,672 89	34,459 75	15,298 01	152,430 65
Vandalia No. 8.....	107,458	59,902	64,663	232,023	2,430	1,190	1,300	4,920	214,114	22,829	121,490 90	42,673 45	14,463 53	178,627 88
Vandalia No. 9.....	107,040	46,980	137,834	291,854	829	408	1,635	2,872	274,813	19,913	147,916 63	42,285 00	14,018 60	204,220 23
Vandalia No. 20.....	22,571	11,681	3,771	38,023					38,023		20,582 64	3,835 60	4,347 76	28,766 00
Vandalia No. 21.....			163,771	163,771					163,771		75,603 99	17,698 40	10,905 40	104,207 00
Gilmour.....			124,484	124,484					38,740	85,744	79,589 00	30,878 00	8,948 00	119,415 00
Summit No. 2.....	40,745	51,943	96,937	179,645					179,645		88,580 37	42,115 39	9,392 93	140,088 69
Green Valley.....	55,710	30,165	144,003	229,878					134,966	94,912	110,224 32	32,758 18	10,550 09	153,532 59
Lattas Creek.....			211,473	211,473					64,953	146,520	129,385 00	48,390 00	143,15 00	192,090 00
North West.....	59,595	31,112	46,232	136,939	4,338	2,526	3,411	10,275	135,733	11,481	73,853 37	20,950 34	6,759 89	101,563 60
Twin No. 4.....	23,890	8,029	22,698	54,617	6,334	1,370	3,471	11,175	31,373	34,419	29,171 60	11,147 55	2,931 70	43,250 85
Twin No. 5.....	99,705	14,405	85,300	199,410	6,848	2,427	15,391	24,666	102,104	121,972	71,928 20	17,663 45	8,703 15	98,291 80
Total.....	641,998	318,766	1,212,156	2,172,920	90,626	37,963	47,903	176,492	1,718,789	630,623	\$1,185,122 12	\$388,663 03	\$136,636 21	\$1,710,421 36

## KNOX COUNTY.

NAME OF MINE.	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Knox.....	13,087	6,997	71,086	91,170	776	312	5,151	6,239	62,170	35,239	\$45,933 06	\$15,063 62	\$10,630 49	\$71,627 17
Lynn.....	16,420	7,786	42,926	67,132	1,063	562	4,594	6,222	72,174	1,180	32,266 84	14,223 30	7,435 29	53,925 43
Freeman.....	33,041	13,725	125,518	172,284	2,860	.....	5,114	7,974	130,429	49,829	91,164 08	24,143 26	14,629 07	129,936 41
Tecumseh.....	32,652	16,682	145,205	194,539	.....	.....	.....	.....	136,130	58,409	97,457 52	17,856 05	11,893 38	127,206 95
Total.....	95,200	45,190	384,735	525,125	4,702	874	14,859	20,435	400,903	144,657	\$266,821 50	\$71,286 23	\$44,588 23	\$382,695 96

## PARKE COUNTY.

Parke No. 11.....	.....	.....	101,550	101,550	.....	.....	67,324	67,324	146,820	22,054	\$91,248 29	\$40,630 30	\$12,392 83	\$144,271 42
Lyford No. 1.....	19,908	12,666	136,768	169,342	.....	.....	.....	.....	34,153	135,189	83,042 73	31,264 69	12,098 03	126,405 65
Total.....	19,908	12,666	238,318	270,892	.....	.....	67,324	67,324	180,973	157,243	\$174,291 02	\$71,895 19	\$24,490 86	\$270,677 07

## PIKE COUTNY.

Avrshire No. 5.....	22,246	15,986	20,120	58,352	.....	.....	.....	.....	39,618	18,734	\$28,777 17	\$8,146 21	\$5,754 12	\$42,677 50
Blackburn No. 2.....	.....	.....	1,850	1,850	522	611	23,593	24,726	23,691	2,894	14,416 72	4,303 80	2,946 63	21,667 15
Peacock No. 2.....	24,397	15,522	.....	40,919	.....	.....	.....	.....	35,905	5,014	17,735 74	7,617 73	6,088 42	31,441 89
Total.....	47,643	31,508	21,979	101,130	522	611	23,593	24,726	99,214	26,642	\$60,929 63	\$20,067 74	\$14,789 17	\$95,786 54

## SULLIVAN COUNTY.

Rainbow			59,850	59,850					29,690	30,160	\$39,692 00	\$10,420 00	\$7,568 00	\$57,680 00
Phoenix No. 4			63,341	63,341					31,221	32,120	42,074 00	16,297 00	5,877 00	64,248 00
H'eking			21,310	21,310					10,410	10,900	12,930 00	5,355 00	2,485 00	20,770 00
Sunflower	75,691	30,493	18,204	124,388					38,255	86,133	32,244 98	10,771 17	17,671 91	60,688 06
Consolidated No. 25	66,105	34,656	37,204	137,965	758	206	90	1,054	46,005	93,014	81,046 76	42,537 95	12,636 41	136,221 12
Consolidated No. 26	Idle.													
Consolidated No. 28	Idle.													
Consolidated No. 30	72,724	29,277	2,134	104,135					45,989	58,146	54,396 40	25,116 56	10,909 99	90,422 95
Consolidated No. 32	1,974	452	5,512	7,938					7,938		3,355 84	1,995 35	2,111 21	7,462 40
Consolidated No. 33	199,150	83,855	49,310	322,315	3,281	778	1,279	5,338	46,760	280,893	174,394 30	81,257 83	19,474 14	275,126 27
Vandalia No. 10	44,890	17,374	117,253	179,517	184	90	975	1,249	137,619	43,147	91,971 35	39,599 12	11,149 17	142,719 64
Jackson Hill No. 2	104,478	41,251	63,256	208,985					145,912	63,073	103,432 11	42,736 01	10,843 95	157,012 07
Jackson Hill No. 4	108,656	61,973	19,930	190,559					57,776	132,783	96,171 74	34,908 29	10,427 41	141,507 44
Dering No. 13	80,771	40,119	12,995	133,885						133,885	61,084 66	32,958 86	7,184 64	101,228 16
Dering No. 14	89,290	83,867		173,157						173,157	86,373 26	50,219 93	14,334 79	150,927 98
Mammoth Vein			34,994	34,994					15,974	19,020	21,218 00	8,835 00	3,528 00	33,581 00
Shirley Hill No. 1	7,558	7,114	16,710	31,382	10,154	4,449	21,203	37,806	69,188		55,845 71	11,610 14	5,474 70	72,930 55
Shirley Hill No. 3	42,079	17,337	38,303	95,719	1,496	401	529	2,426	98,145		41,597 43	14,949 80	7,955 50	64,502 73
Little Giant	19,358	8,772	99,644	127,774	33,998	12,589	112,999	159,586	287,360		158,434 64	43,431 06	12,620 05	214,485 75
Clover Leaf	16,927	8,487	15,017	40,431	63,543	42,897	40,622	147,062	187,493		121,191 37	48,593 34	12,973 91	182,758 62
Pearl	32,327	14,726	13,323	60,376	745	271	141	1,157	43,349	18,184	31,425 37	13,301 05	6,979 94	51,706 36
Reliance	46,955	18,512	12,551	78,018	1,972	759	231	2,962	80,980		42,315 57	30,433 77	10,201 36	82,950 70
Hamilton	Idle.													
Black Hawk	9,833	6,190	3,580	19,603	27,160	18,148	7,693	53,001	24,249	48,355	41,249 09	8,631 82	5,338 43	55,219 34
Total	1,008,766	504,455	702,421	2,215,642	143,291	80,588	187,762	411,641	1,404,313	1,222,970	\$1,392,444 58	\$573,959 05	\$197,745 51	\$2,164,149 14

## VERMILLION COUNTY.

Crown Hill No. 3	57,185	19,619	47,934	124,738					40,851	83,923	\$111,707 84	\$17,506 14	\$2,421 09	\$131,635 07
Total	57,185	19,619	47,934	124,738					40,815	83,923	\$111,707 84	\$17,506 14	\$2,421 09	\$131,635 07

## VIGO COUNTY.

NAME OF MINE.	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Tons of Screened Coal.	Tons of Slack and Nut.	Tons of Mine Run.	Total Tons of All Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages.
Vandalia No. 69.....	49,362	30,103	31,124	110,589	12,578	6,220	5,330	24,128	129,610	5,107	\$85,046 38	\$28,372 82	\$9,754 11	\$103,173 31
Forrest.....			38,825	38,825				75,953	67,800	46,985	79,234 00	25,040 00	9,395 00	113,669 00
Plymouth No. 1.....	29,883	6,886		36,769	21,179	6,048		27,227	22,057	41,939	48,366 25	15,982 00	6,403 30	70,751 55
Wabash.....	84,644	32,001	115,835	232,480	11,021	340	20,451	31,812	219,039	45,253	131,922 30	31,423 05	9,614 15	172,959 50
Minshall.....	4,924	6,745	41,294	52,933	8,216	3,972	90,235	102,423	151,283	4,103	103,276 10	19,920 20	8,847 95	129,044 25
Grant No. 3.....	41,029	35,344	110,958	187,331					21,454	165,877	95,843 92	40,664 77	17,129 44	153,638 13
Glenn Ayr No. 1.....	48,434	32,658	76,598	157,630	5,548	2,724	5,599	13,871	149,334	22,137	53,069 51	22,831 17	12,643 91	118,544 59
Glenn Ayr No. 2.....	15,452	9,649	20,935	46,036					33,980	12,056	19,250 15	4,962 91	2,309 38	26,522 44
Deep Vein No. 4.....	24,733	16,486	21,781	63,000	8,918	5,842	9,395	24,155	20,302	66,853	47,521 89	18,351 76	6,801 42	72,675 07
Total.....	298,461	169,872	457,260	925,593	67,460	25,146	206,965	299,571	814,859	410,305	\$670,530 50	\$207,548 68	\$32,898 66	\$960,977 84

## WARRICK COUNTY.

Big Four.....	8,171	5,450	72,767	86,388					85,31		\$40,370 98	\$7,387 83	\$9,334 3	\$57,093 17
De Forrest.....	1,600	892	200	2,692	1,440	930	1,111	3,481	6,1		3,485 73	1,108 33	848 79	5,442 85
Electric.....			33,702	33,702			7,735	7,735	4,92	26,515	18,514 01	7,337 02	3,870 20	29,721 32
Dawson.....	15,013	5,382	37,568	57,961					7,61	50,344	30,248 82	8,753 44	3,919 46	42,921 72
Erie Canal.....			47,318	47,318					40,001	7,317	19,884 72	6,404 50	3,828 4-	30,117 70
Polk No. 5.....			103,309	103,309					103,309		50,713 20	7,464 40	7,510 10	65,687 70
Total.....	24,784	11,724	294,862	331,370	1,440	930	8,846	11,216	258,419	84,176	\$163,217 46	\$38,455 52	\$29,311 48	\$230,984 46
Total bituminous machine mined coal	2,314,458	1,179,101	3,504,637	6,998,196	330,708	157,177	589,949	1,077,834	5,067,820	3,008,210	\$4,221,555 56	\$1,463,525 38	\$563,277 18	\$6,248,358 12



# RECAPITULATION.

*Showing Total Production and Wages of Indiana Mines for 1909.*

## TOTAL PRODUCTION OF BLOCK COAL.

	MACHINE MINED.				PICK MINED.				DISTRIBUTION.		WAGES PAID.			
	Tons of Screened Coal.	Tons of Slack and Nut Coal.	Tons of Mine Run Coal.	Total Tons of all Kinds of Coal Produced.	Tons of Screened Coal.	Tons of Slack and Nut Coal.	Tons of Mine Run Coal.	Total Tons of all Kinds of Coal Produced.	Tons of Indiana.	Tons of Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages Paid.
Total mach. mined block coal. ....	103,408	20,767	.....	124,175	30,974	8,400	.....	39,374	38,596	124,953	\$125,712 20	\$56,790 54	\$24,232 50	\$206,735 24
Total pick mined block coal. ....	.....	.....	.....	.....	439,414	90,925	24,325	554,664	209,185	345,479	506,841 09	182,591 33	91,194 69	780,627 11
Total block coal.	103,408	20,767	.....	124,175	470,388	99,325	24,325	594,038	247,781	470,432	\$632,553 29	\$239,381 87	\$115,427 19	\$987,362 35

## TOTAL PRODUCTION OF BITUMINOUS COAL.

Total bituminous machine mined coal. ....	2,314,458	1,179,101	3,504,637	6,998,196	330,708	157,177	589,949	1,077,834	5,067,820	3,008,210	\$4,221,555 56	\$1,463,525 38	\$563,277 18	\$6,248,358 12
Total bituminous pick mined coal. ....	.....	.....	.....	.....	1,761,552	1,213,303	1,922,991	4,897,846	2,530,019	2,367,827	2,969,508 89	857,636 88	317,184 80	4,144,330 57
Total bituminous coal. ....	2,314,458	1,179,101	3,504,637	6,998,196	2,092,260	1,370,480	2,512,940	5,975,680	7,597,839	5,376,037	\$7,191,064 45	\$2,321,162 26	\$880,461 98	\$10,392,688 69
Total machine mined coal. ....	2,417,866	1,199,868	3,504,637	7,122,371	361,682	165,577	589,949	1,117,208	5,106,416	3,133,163	\$4,347,267 76	\$1,520,315 92	\$587,509 68	\$6,455,093 36
Total pick mined coal. ....	.....	.....	.....	.....	2,200,966	1,304,228	1,947,316	5,452,510	2,736,204	2,713,306	3,476,349 98	1,040,228 21	408,379 49	4,924,957 68
Grand total. ....	4,980,514	2,669,673	6,041,902	13,692,089	.....	.....	.....	.....	7,845,620	5,846,469	\$7,823,617 74	\$2,560,544 13	\$995,889 17	\$11,380,051 04

Total estimated tonnage local mines. .... 350,000 tons.  
 Grand total for all mines in the State. .... 14,042,089 tons.

## NEW COAL COMPANIES AND NEW MINES.

Six new coal companies were organized, and began operating mines in Indiana during the year, with headquarters located as follows:

The Alliance Coal Company, main offices Chicago, Ill., with suboffices in Terre Haute; German Coal Company, Brazil; Pittsburg Coal Company, Terre Haute; Henry Korff Coal Company, Boonville; Sargent Coal Company, Evansville, and the Gibson & Moore Coal Company, Evansville.

Eleven shipping mines and one wagon or local mine, employing more than ten men, were opened, developed and became competitors in the general market.

The annexed table exhibits the names of the companies owning these mines, and the names by which each mine is known; the location by section, township, county, railroad, and proximity to town or city of each mine; whether bituminous or block; thickness of seam in feet and inches; depth of shaft, and the month in which the first shipment of coal was made.

# TABLE OF NEW MINES.

## CLAY COUNTY.

NAME OF COMPANY.	Name of Mine.	Location of Mine.	Railroad.	Pick or Machine.	Geological No. of Seam.	Block Bituminous.	Thickness of Seam.	Depth of Shaft.	Size of Shaft.	Month First Shipment Was Made.
German Coal Co.....	German.....	2 mi. se. Brazil, nw $\frac{1}{4}$ Sec. 5, T. 12 n., R. 6 w., Jackson Tp.	Wagon mine.....	Pick.....	IV	Block..	4'	61	8x16	July.
C. Ehrlich Coal Co.....	Klondike No. 3.....	2 $\frac{1}{2}$ mi. w. Brazil, nw $\frac{1}{4}$ Sec. 11, T. 12 n., R. 7 w., Posey Tp.	Vandalia.....	Pick.....	III	Bitum..	7'6"	100	9x20	September.

## DAVIESS COUNTY.

Davies County Coal Co...	Montgomery No. 4...	1 $\frac{1}{2}$ mi. w. Montgomery, Sec. 28, T. 3 n., R. 6 w., Barr Tp.	B. & O. S. W.....	Pick.....	V	Bitum..	3'8"	96	7x18	March.
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## KNOX COUNTY.

Washington-Wheatland...	Wheatland.....	$\frac{1}{2}$ mi. w. Wheatland Donation, 106, T. 3 n., R. 8 w., Steen Tp.	B. & O. S. W.....	Pick.....	V	Bitum..	5'6"	238	.....	March.
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## VIGO COUNTY.

Otter Creek Coal Co.....	Mary No. 2.....	2 mi. n. Fontanet, sw $\frac{1}{4}$ nw $\frac{1}{4}$ Sec. 1, T. 13 n., R. 8 w., Nevins Tp.	C. & E. I.....	Machine..	III	Block..	3'9"	245	8x21	February.
Pittsburg Mining Co.....	Pittsburg No. 1.....	7 mi. w. Terre Haute, Sec. 34, T. 12 n., R. 10 w., Fayette Tp.	Big Four.....	Pick.....	VII	Bitum..	5'8"	260	8x15	Dec., 1908.
Glenn Ayre Coal Co.....	Glenn Ayre No. 2.....	5 mi. e. Terre Haute, ne $\frac{1}{4}$ Sec. 21, T. 12 n., R. 8 w., Lost Creek Tp.	Vandalia.....	Electric Mach.	IV	Bitum..	5'1"	74	8x14	June.
Coal Bluff Mining Co.....	Riverside.....	2 $\frac{1}{2}$ mi. nw. W. Terre Haute, Sec. 8, T. 12 n., R. 9 w., Sugar Creek Tp.	Big Four.....	Pick.....	V	Bitum..	4'5"	165	9x18	November.
Miami Coal Co.....	Miami No. 5.....	Sw $\frac{1}{4}$ ne $\frac{1}{4}$ Sec. 36, T. 13 n., R. 7 w., Nevins Tp.	C. & E. I.....	Pick.....	III	Bitum..	5'6"	40	8x17	December.

## WARRICK COUNTY.

Big Four Coal Co.....	Big Four No. 3.....	1 mi. se. Boonville, Sec. 6, T. 6 s., R. 7 w., Boon Tp.	Southern.....	Pick.....	IV	Bitum..	5'	Slope.	.....	December.
Henry Korff.....	Korff.....	2 $\frac{1}{2}$ mi. w. Boonville, s. $\frac{1}{4}$ ne $\frac{1}{4}$ Sec. 32, T. 5 s., R. 8 w., Boone Tp.	E. S. & N.....	Pick.....	V	Bitum..	6'	50	7x14	June.
Sargent Coal Co.....	Sargent.....	$\frac{1}{2}$ mi. n. Newburg, Sec. 34, T. 6 s., R. 9 w., Ohio Tp.	E. & E.....	Pick.....	V	Bitum..	4'	93	6x14	January.

## IMPROVEMENTS.

The improvements of various kinds made in and around Indiana mines during the year 1909 represents an expenditure aggregating \$68,743.32. We give herewith a statement of the more important of the improvements made and the money expended, where such information could be obtained.

The Coal Bluff Mining Company made extensive repairs on the haulage roads in their Plymouth No. 1 mine at a cost of \$800.

The Vivian Colliers Company expended \$655 on general repairs in the Vivian No. 2 mine.

The Queen Coal Company expended \$800 in constructing a motor haulage road; also installed motor haulage, the cost of which we were unable to obtain.

The Wyoming Coal Company remodeled the tippie at their Francisco mine and bought new cages, screens, etc., at a cost of \$2,000.

The Robertson Bros. expended \$575 improving the tippie at their Cherry Hill mine.

The Peacock Coal Company installed a compressed air punching machine plant at their Peacock No. 2 mine at a cost of \$3,200.

The Ayrshire Coal Company made extensive improvements in their Ayrshire No. 4 mine in laying about one mile of 35-pound steel rail for motor haulage, equipping the haulage road with electric lights, installing an electric fan and in the purchase of two 7½-ton Goodman mine motors, representing a total expenditure of \$15,000.

The Shirley Hill Coal Company expended \$8,467 on Shirley Hill No. 1 mine in constructing a motor haulage road laid with 30-pound steel rails and equipping the mine with motor haulage, the 10-ton Jeffrey type of motor being used. This same company equipped their Little Giant and Clover Leaf mines with high-speed Sullivan ventilating fans at a cost of \$3,500 each.

The Vandalia Coal Company erected a new tippie at their No. 10 mine at a cost of \$5,000, the construction of which necessitated laying the mine idle during the months of July and August and a part of June.

The Gibson & Moore Coal Company made general repairs in their Ingleside mine amounting to \$1,400.

The Sunnyside Coal Company expended \$1,838 in building a brick blacksmith shop and making general underground improvements in their Sunnyside mine.

The Crown Hill Nos. 1 and 3 mines were equipped with Sullivan high-speed ventilating fans at a cost of \$3,500 each.

The Otter Creek Coal Company equipped their Mary No. 2 mine with electric mining machines, using the Morgan-Gardner chain type. The cost of this plant we were unable to obtain.

The Vandalia Coal Company installed motor haulage in their No. 69 mine, using 7½-ton Goodman motors; also installed three new type Sullivan long wall electric mining machines and constructed a motor haulage road, altogether expending about \$12,000. The same company also installed at their No. 67 mine a 26x30 Norfolk air compressor to be used in driving the mine pumps, also a 15-foot Crawford-McCrimmon ventilating fan.

The National Fuel Company expended \$1,269 repairing the tipples at their National mine and improved the mine switches, etc.

The Coal Bluff Mining Company equipped their Wabash mine with a high-speed Sullivan ventilating fan having sufficient capacity to ventilate both the Wabash and their Riverside mines, the two mines being but a few hundred feet apart but operating separate veins. We did not learn the cost of this fan.

The Grant Coal and Mining Company expended \$15,924 in equipping their Grant No. 3 mine with electric haulage and in the purchase of new mining machines.

The Sugar Valley Coal Company built a new boiler house and installed a new boiler at their Sugar Valley mine, expending \$2,425.

The Glenn Ayr Coal Company equipped their Glenn Ayr No. 1 mine with motor haulage, the cost of which we have not learned.

The T. D. Scales Coal Company expended \$1,200 on new cages and general repairs in their Electric mine.

## CHANGES IN OWNERSHIP AND MANAGEMENT OF MINING PROPERTIES.

Transfers in the ownership and the management of mining properties were made during the year as follows:

The Rush Coal Company's Indio mine, located in Fountain County, was taken charge of in May by the circuit court of that county, to be sold in the settlement of labor claims, some three or four months in arrears, due miners and other employes.

The management of the mines owned and operated by the Dering and the Consolidated Indiana Coal Companies changed hands in April, being leased by the Brazil Block Coal Company.

The Cedar Creek Coal Company's mines Nos. 4 and 5, located in Pike County, changed hands during the year and are now operated by the Pike County Coal Company.

The mines owned and operated by the Southern Indiana and the Indiana Southern Coal Companies, located in Greene, Sullivan and Vigo counties, were sold at receiver's sale during the month of July and were taken over by the Alliance Coal Company, the management of the properties remaining in the hands of the former officials.

The Cayuga Pressed Brick Coal Company's Eureka mine, located in Vermillion County, was leased in August by the Silverwood Coal Company, who formerly operated in Fountain County.

The management of the mine and disposition of the product of the Kettle Creek Coal Company's Pearl mine, located in Sullivan County, was assumed by Clem Richards & Sons, of Terre Haute, during the month of May, since which time the mine has been operated very successfully.

The Home Coal Company, operating the Bicknell mine, located at Bicknell, Knox County, suspended operation in December and the mine was leased to a company of eight coal miners.

The Atherton Splint Coal Company's Atherton mine, located in Vigo County, was placed in the hands of a receiver December 6th, Mr. Paul N. Bogatt, of Terre Haute, being appointed receiver.

The Gibson & Moore Coal Company assumed control of the Ingleside mine at Evansville early in the year, expending some \$1,400 in general repairs, and now have the mine in first-class condition.

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## ABANDONED MINES.

Twelve mines were abandoned during the year, situated in the different counties as follows: Clay County, one block and one bituminous, both hand mines; Greene County, one bituminous, hand; Parke County, one bituminous, hand; Pike County, one bituminous, hand; Vermillion County, one bituminous, hand, and Vigo County, four bituminous, hand mines. The following table exhibits the names of the companies owning these mines, the date on which each mine was abandoned, the railroad on and the county in which each mine is located:

TABLE.  
CLAY COUNTY.

NAME OF COMPANY.	Name of Mine.	Date.	Railroad.
Vandalia Coal Co.....	Vandalia No. 65.....	July 10.....	Vandalia.
Crawford Coal Co.....	Crawford No. 8.....	November 10.....	E. & I.

GREENE COUNTY.

Vandalia Coal Co.....	Vandalia No. 3.....	June 3.....	I. & V.
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PARKE COUNTY.

Mecca Coal and Mining Co.....	Mecca No. 3.....	April 3.....	C. & E. I.
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PIKE COUNTY.

Ayrshire Coal Co.....	Ayrshire No. 3.....	June 30.....	Southern.
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VERMILLION COUNTY.

Brazil Block Coal Co.....	Dering No. 7.....	July 2.....	C. & E. I.
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VIGO COUNTY.

M. D. West Coal Co.....	Chicago No. 6.....	1908.....	C. & E. I.
Fauvre Coal Co.....	Fauvre No. 1.....	February 27.....	Vandalia.
Coal Bluff Mining Co.....	Victor.....	April 3.....	Big Four.
Miami Coal Co.....	Miami No. 3.....	October.....	C. & E. I.
Miami Coal Co.....	Miami No. 1.....	December.....	C. & E. I.
Coal Bluff Mining Co.....	Lawton.....	October 29.....	Big Four.

TABLE.

*Showing by Counties the Total Number of Miners and Total Number of Kegs of Powder Used in 1909, the Number of Kegs per Miner, the Total Tons of Coal Produced and the Number of Tons Produced per Keg of Powder—The Block and Bituminous Mines Each Shown Separately, as are the Machine and Hand Mines—Also a General Average of Tons Produced per Keg in All the Mines in the State Combined.*

## BLOCK COAL MACHINE MINES.

COUNTY.	Tons Produced.	Kegs Powder.	Number Miners.	Kegs per Miner.	Tons per Keg.
Parke.....	50,900	352	43	8.18+	14.6+
Vigo.....	112,649	3,860	196	19.7—	29.2—
General average.....	163,549	4,212	239	17.6—	38.8+

## BLOCK COAL HAND MINES.

Clay.....	406,618	31,041	737	42.1+	13.0+
Parke.....	148,046	9,578	333	28.7+	15.4+
General average.....	554,664	40,619	1,070	37.9+	13.6+
Total general average for block mines..	718,213	44,831	1,309	34.2+	16.0+

## BITUMINOUS HAND MINES.

Clay.....	108,734	4,872	250	19.5—	22.3+
Davless.....	47,772	3,178	104	30.5+	15.0+
Mountain.....	No mines operating during the year.				
Green.....	253,464	11,526	308	37.4+	21.1+
Gibson.....	208,654	8,958	172	52.0+	23.3—
Knox.....	14,383	630	24	26.2+	22.8+
Park.....	165,852	8,124	233	34.9—	20.4+
Perry (see note).....	1,308	600	12	(See foot note.)	
Pike.....	246,326	10,822	364	29.7+	22.7+
Sullivan.....	173,287	7,316	323	22.6+	23.6+
Vanderburgh.....	250,218	11,643	298	39.0+	21.4+
Vermillion.....	1,225,315	72,754	1,154	63.0+	16.8+
Vigo.....	2,152,536	86,536	1,986	43.5+	24.9+
Warrick.....	49,997	2,245	151	14.8+	22.3+
General average.....	4,897,846	229,204	5,379	42.6+	21.3+

NOTE.—All the powder for Perry County was not reported, hence no average could be made.

## BITUMINOUS MACHINE MINES.

Clay.....	397,215	6,903	294	23.8+	57.5+
Green.....	2,349,412	41,329	1,807	22.8+	56.8+
Knox.....	545,560	7,869	414	19.0+	69.3+
Park.....	338,216	6,304	219	28.7+	53.6+
Pike.....	125,856	3,121	168	18.5	40.3+
Sullivan.....	2,627,283	48,917	2,458	19.9+	53.7+
Vermillion.....	124,738	2,635	146	18.0+	47.3+
Vigo.....	1,225,164	24,685	995	24.8+	49.6+
Warrick.....	342,586	5,748	338	17.0+	59.6+
General average.....	8,076,030	147,511	6,839	21.5+	54.7+
Total general average for bituminous mines.....	12,973,876	376,715	12,218	30.8+	34.4+
Total general average for the state....	13,692,089	421,546	13,527	31.1+	22.5—

NOTE.—Machine Runners, Helpers and Loaders are classed as Miners.

## EXAMINATIONS.

Examinations for applicants for certificates of competency to serve as mine bosses, fire bosses and hoisting engineers were held at three different times during the year in the city of Terre Haute. The annexed table shows the date on which each examination was held, the number of applicants examined each time, the number passing a successful examination and the number who failed:

DATE.	TOTAL APPLICANTS.			PASSED.			FAILED.		
	M. B.	F. B.	H. E.	M. B.	F. B.	H. E.	M. B.	F. B.	H. E.
April 7 and 8.....	22	20	22	11	9	13	11	11	9
August 25 and 26.....	31	21	17	15	11	7	18	10	11
December 29 and 30....	23	5	16	12	2	9	11	2	7
Total.....	76	46	55	38	22	29	38	24	26

We give herewith the name and address of each person receiving a certificate, the number of each certificate and the per cent. grade made by the holder thereof:

## MINE BOSS.

Examination Held April 7 and 8, 1909. Total Number of Candidates 22.  
Total Number Passed 11.

*Certificate*

No.	Name and Address.	Per Cent.
1.	D. N. Curry, Farmersburg.....	87
2.	Thomas Shouse, Linton.....	79
3.	Wm. Gardner, Jasonville.....	82
4.	John Thompson, Bicknell.....	81
5.	David Lewis, Jasonville.....	80
6.	J. S. Townsley, Clinton.....	82
7.	Emile Dubrueille, Linton.....	83
8.	Frank B. Posey, Evansville.....	89
9.	C. T. Connaughton, Montgomery.....	81
10.	Wm. Moody, Evansville.....	90
11.	Bismarck Schrepferman, Brazil.....	77

Examination held August 25 and 26, 1909. Total Number of Candidates 31.  
Total Number Passed 15.

*Certificate*

No.	Name and Address.	Per Cent.
12.	W. C. Ehrlich, Staunton.....	81
13.	Charles H. Coleman, Oakland City.....	84
14.	Wm. F. McDonald, Linton.....	82
15.	W. A. Wildon, Shelburn.....	76

*Certificate*

<i>No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
16.	John Stiles, Coalmont.....	76
17.	Reed Aleshire, Burnett.....	78
18.	Dora Benjamin, Terre Haute.....	80
19.	James D. Lewis, Burnett.....	77
20.	E. G. Sargent, Newburg.....	80
21.	David McPhail, Linton.....	83
22.	James S. Deeble, West Terre Haute.....	82
23.	W. H. Johnson, Brazil.....	88
24.	John Clark, Terre Haute.....	77
25.	C. I. Duckworth, Hymera.....	78
26.	Lemuel C. Fulkerson, Boonville.....	79

Examination Held December 29 and 30, 1909. Total Number of Candidates  
23. Total Number Passed 12.

*Certificate*

<i>No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
20.	Joseph Overend, West Terre Haute.....	76
21.	Hugh Walker, Jasonville.....	83
22.	H. L. Rector, Gilmour.....	79
23.	Charles H. Menden, Evansville.....	86
24.	John O. Laughlin, Boonville.....	82
25.	Wm. Straker, Evansville.....	81
26.	Samuel Dickie, Linton.....	80
27.	Boyd Walters, Sullivan.....	82
28.	William Gose, Terre Haute.....	77
29.	Zollie Duckworth, Shelburn.....	81
30.	William McDaniel, Shelburn.....	78
31.	Frank D. Chadwick, Spring Valley.....	90

## FIRE BOSS.

Examination Held April 7 and 8, 1909. Total Number of Candidates 20.  
Total Number Passed 9.

*Certificate*

<i>No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
1.	John Clark, Terre Haute.....	79
2.	Joseph Herron, Evansville.....	83
3.	Clarence Filbert, Linton.....	78
4.	Wm. Strachan, West Terre Haute.....	94
5.	Silas Johnson, Jasonville.....	78
6.	Pete Hardesty, Paxton.....	77
7.	Leopold Escaffee, Hymera.....	83
8.	Wm. F. Brown, Clinton.....	85
9.	Louis Rouslan, Terre Haute.....	80

Examination Held August 25 and 26, 1909. Total Number of Candidates 21.

*Certificate* Total Number Passed 11.

<i>No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
9.	George A. Sage, Bicknell.....	79
10.	B. L. Smith, Burnett.....	76
11.	Genio C. Potter, Augusta.....	82
12.	Jas. C. Anderson, Princefon.....	76
13.	Hugh Rice, Linton.....	83
14.	William Wilson, Linton.....	88
15.	James Challenger, Bicknell.....	77
16.	Calvin Wilson, West Terre Haute.....	80
17.	Louis Wautelet, Linton.....	91
18.	William Jardine, Clinton.....	78
19.	H. M. Stewart, Shelburn.....	78

Examination Held December 29 and 30, 1909.

*Certificate*

<i>No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
20.	Robert Weston, Edwards.....	82
21.	Thomas Hall, Chandler.....	79

#### HOISTING ENGINEER.

Examination Held April 7 and 8, 1909. Total Number of Candidates 22.

*Certificate* Total Number Passed 13.

<i>No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
1.	Cornelius Schrepferman, Brazil.....	79
2.	George Rudock, Diamond.....	79
3.	Charles H. Coleman, Oakland City.....	80
4.	Edward L. Cox, Sullivan.....	80
5.	Carl Alumbaugh, Sullivan.....	80
6.	Samuel Gambill, Hawesville.....	76
7.	William Forbs, Linton.....	84
9.	Willey Almer Poole, Linton.....	82
10.	Thomas Huntley, West Terre Haute.....	80
11.	Neal Watts, Brazil.....	80
12.	Charles Lawtor, Clinton.....	79
13.	N. E. Day, Burnett.....	78
14.	Cecil M. Stewart, Fontanet.....	80

Examination Held August 25 and 26, 1909. Total Number of Candidates 17.

*Certificate* Total Number Passed 7.

<i>No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
15.	H. E. Stevenson, Brazil.....	83
16.	Walter W. Robertson, Linton.....	81
18.	Charles H. Hagg, Bicknell.....	79
19.	Arthur McFarland, Oakland City.....	79
20.	George W. Rudolph, Boonville.....	81
21.	J. L. Austren, Newburg.....	79
22.	George Grabe, Clay City.....	80

Examination Held December 29 and 30, 1909. Total Number of Candidates  
16. Total Number Passed 9.

*Certificate*

<i>No.</i>	<i>Name and Address.</i>	<i>Per Cent.</i>
23.	Joe N. Vansickle, Clinton.....	78
24.	Carl F. Hughes, Shelburn.....	84
25.	Elza Hutchison, Dugger.....	82
26.	Jasper Boyd, Coalmont.....	77
27.	Frank Letterman, Linton.....	80
28.	Wm. Armstrong, Sullivan.....	75
29.	Harvey Marlowe, Bridgeton.....	78
30.	Bert Norris, Hymera.....	80
31.	Homer West, Dugger.....	77

## FATALITIES AND INJURIES TO MINE EMPLOYES.

A compilation of the monthly reports of mine bosses, coal companies, and the reports of inspections made to this office during the year 1909 shows a total of 1,129 accidents to persons employed in and around Indiana mines. These accidents are divided into four different classes, each class being treated separately.

The annexed table of causes exhibits the different heads under which the accidents are treated, the total number of each class of accidents occurring and the different causes thereof:

TABLE OF ACCIDENTS.

CAUSE.	Fatal.	Permanent.	Serious.	Minor.	Total.
Falling coal.....	1	.....	46	46	93
Falling slate.....	24	6	141	92	263
Mine cars.....	4	1	174	206	385
Mining machine.....	1	1	32	24	58
Mine motors.....	0	0	4	2	6
Smoke and dust explosion.....	6	0	0	0	6
Smoke explosion.....	1	0	4	0	5
Exploding powder.....	1	0	11	2	14
Explosion of fire damp.....	0	0	13	19	32
Explosion of gasoline.....	1	0	1	0	2
Premature blasts.....	2	0	2	1	5
Delayed blasts.....	0	0	1	3	4
Windy shots.....	0	0	4	1	5
Shots through pillar.....	1	0	3	2	6
Mine cages.....	3	0	16	2	21
Falling down shaft.....	2	0	0	0	2
Coal falling down shaft.....	1	0	2	11	14
Kicked by mules.....	.....	0	21	34	55
Railroad cars.....	1	0	1	2	4
Electric shock.....	1	.....	9	5	15
Miscellaneous.....	.....	.....	40	94	134
Total.....	50	8	525	546	1,129

## DESCRIPTION OF FATAL ACCIDENTS.

Each of the above fatal accidents has been investigated, either by myself or one of my assistants, acting in conjunction with the coroners of the different counties in which the accidents occurred. We give herewith a brief statement of facts, circumstances and conditions attending each fatality, as brought forth at such investigation:

## VIGO COUNTY.

January 5—Vandalia No. 67 Mine: Zigmund Falevich, miner, twenty-one years of age, Polander, single, was fatally injured by a fall of dirt band located near the top of the coal seam.

The coal seam here is divided into three benches, as follows: Beginning at the bottom of the seam there are 32 inches of coal called the lower bench, on top of this a smooth parting, then 29 inches of coal called the upper bench; following this a binder, or band, 9 inches in thickness, composed of a mixture of slate, fire clay and bone coal, called the dirty band, and above this 20 inches of coal which is usually kept up for roof.

The lower and upper benches are each mined separately, the upper bench being advanced first, and the dirty band, although separated from the coal by a smooth parting, is broken with each shot and should be taken down with the coal. Miners frequently become careless, however, and permit it to hang back several feet from the face, making an exceedingly dangerous roof to work under.

An examination of decedent's working place after his accident evidenced the fact that he had permitted the dirty band to remain up and hang back a distance of  $7\frac{1}{2}$  feet from the face without props or other support under it.

About 8 o'clock the morning of the accident he was at work under this ledge, mining off a loose shot in the upper bench, when suddenly, without warning, the ledge gave away, falling on him and inflicting injuries from which he died one and one-half hours later.

## SULLIVAN COUNTY.

January 30—Larsh Mine: Alpha Thomas, mine boss, thirty-eight years of age, American, wife and five children, met his death at the bottom of the north side of the hoisting shaft.

There were no eye-witnesses to this accident.

When found deceased was lying in the water in the north sump of the shaft, dead. It is presumed that while working around the

shaft bottom he was struck and knocked into the sump by the descending north cage and that the cage following on down crushed him to death against the timbers in the bottom of the sump.

#### PARKE COUNTY.

February 1—Mary No. 1 Mine: Patrick Daugherty, jerryman, fifty-six years of age, American, who leaves a dependent wife, was fatally injured by falling slate. At the time he met his accident decedent and a fellow-workman by the name of John Swain were at work closing a break-through between rooms 1 and 2 in the second east entry with dirt and slate, which they were shoveling from the gob in room No. 2. About 12:30 o'clock, while so engaged, a large piece of slate measuring 6 feet in length, 4 feet in width and 4 inches thick, suddenly gave away, falling on them and crushing Daugherty through the ribs and abdomen, inflicting injuries from which he died at 9:45 o'clock a. m. the 4th inst. Swain was also seriously injured by the fall. Both men had examined and tested the slate before commencing to work under it and pronounced it in their judgment safe.

#### GREENE COUNTY.

February 12—Twin No. 5 Mine: Walter Masterson, machine helper, twenty-eight years of age, Scotch, who leaves a wife and one child, was killed by falling slate.

On the morning of the accident Masterson and his machine runner, Edd Pigg, were at work with an electric chain mining machine undercutting room No. 22 on the third south entry, which they had partially undercut the day previous. Before commencing work they were advised by James Gill, "loader for room No. 22," that he had noticed a slip in the roof which had been uncovered by the previous fall, and that they had better examine the roof before starting the machine.

Both Masterson and Pigg examined the roof and sounded it with a pick. Pigg, remarking that it would stand all right, proceeded with his work. They had completed one run or undercut, and about 3 feet of the second one, when suddenly a piece of slate measuring 21 feet in length, 7 feet in width, ranging from 1 to 5 inches in thickness, gave away and fell on them, killing Masterson instantly. Pigg, who was struck by the outer edge of the fall, was injured slightly.



## PIKE COUNTY.

February 13—Muren Mine: John Merwin, motorman, forty-seven years of age, American, who leaves a wife, was fatally burned by an explosion of gasoline.

The motor which Merwin was driving was one of the gasoline type, and at the time he met his accident it was standing idle on one of the entries, the engine having run out of gasoline. Decedent was filling the tanks from a can, and at the time had his lighted lamp on his head within a few inches from the mouth or the top of the tank into which he was pouring gasoline. In some way his lamp was knocked off his head and fell in the tank, exploding the gasoline, burning him about the face, hands and body, and so injuring him that he died at 5 o'clock p. m. the following day.

## CLAY COUNTY.

February 16—Pyrarh Mine: Thomas Race, mine boss, thirty-four years of age, American, wife and five children, was fatally injured by falling slate.

This mine is operated for local trade only and employs but seven miners, the mine boss being required to serve in the capacity of timber man, track man, bottom shooter, or any other work necessary to keep the mine going.

About 1:30 o'clock p. m. the day of the accident decedent had gone into the working place of James Flockheart for the purpose of drilling a bottom shot. Flockheart was loading a car at the time, which was standing where the shot was to be drilled in the bottom, and in order to hurry matters along Race started to mine off a block of coal under some bad roof. He had mined but a few minutes when some small pieces of slate fell on him, warning him of his danger. Before he could reach a place of safety, however, a large piece of slate 10 feet in length, 2 feet in width and 1 foot thick, fell on him, crushing him through the stomach and bowels, inflicting injuries from which he died at 5 o'clock of the same evening.

## VERMILLION COUNTY.

March 2—Prince Mine: John Dardana, shot firer, twenty-six years of age, Italian, who leaves a dependent mother, was killed in an explosion of gases generated from powder used in excessively overcharged blasts, combined with the gases distilled from coal dust which had been used in tamping shots, coming in contact with the large volume of flame produced by the overcharges of powder.

From evidence brought forth at the investigation of this accident it was learned that decedent and a fellow-miner by the name of Adam Meskewich were employed as regular shot firers in this mine; also that an explosion occurred in the mine the evening of the 21st before they had completed the firing of all the shots.

Fortunately they were in a place of safety when this explosion occurred and both escaped without injury. The mine, however, was damaged to such extent that they could not complete their work until repairs had been made.

About 5 o'clock the evening of the accident, the necessary repairs having been made and the ventilating current restored, they again went into the mine for the purpose of firing the remaining shots left over from the previous evening.

On this occasion they commenced the shot fire on the first and second northeast cross-entries, decedent going up through the rooms on the second, facing the return air, and his buddy through the rooms on the first, traveling with the air, each splitting the ends of the fuse in the shots but not lighting the fuse.

It should be stated that the purpose of splitting the fuse was to expose the powder, which would render them more quickly lighted. It is customary for each shot firer to take an entry and light all the shots thereon, lighting them one after another in rapid succession without waiting for any of those lighted first to explode.

When they met at the head of the first and second northeast entries, decedent had split the ends of the fuse in 19 shots and his buddy those in 22.

Turning at the head of the entry, each retraced his way through the same workings, lighting the shots one after another as quickly as possible.

In this manner decedent had lighted 18 shots and his buddy 20, or a total of 38 shots lighted in about nine minutes, when the explosion occurred.

This was probably the most destructive explosion that has occurred in the Clinton field. A number of buntings were torn out in the main hoisting shaft, mine cars and mine doors were demolished, heavy iron rails torn up from the mine tracks and twisted or bent double; in fact, the mine was almost completely wrecked.

As soon as possible a rescue party entered the mine in search of the shot firers. Dardana was found lying near the north rib between rooms 7 and 8, on the second east entry, dead, his clothing being almost completely burned off him.

Mesewich escaped with his life, but was seriously burned and bruised and suffered intensely from the effect of the after-damp he inhaled.

An examination of the mine was made the 4th inst. by Assistant Inspectors O'Connor and Irving for the purpose of ascertaining, if possible, the exact cause of the explosion. They reported conditions found as follows:

(1) Room No. 8 is the first room working on both the first and second northeast cross-entries.

(2) All the shots on each entry had been fired except those in room No. 8 on each entry.

(3) A total of 38 shots, i. e., 20 on the first entry and 18 on the second entry, had been fired.

(4) That the charges contained in these shots represented not less than 225 pounds of powder.

(5) That each and every shot was excessively overcharged.

(6) Evidence was found that the drill dust had been used extensively in stemming the shots.

(7) Drill holes were found that measured  $3\frac{1}{2}$  inches in diameter.

(8) That the 38 shots were fired in a fraction less than nine minutes, or one shot for less than each 15 seconds.

(9) Three powder kegs were found burst from the inside, indicating them to have been burst by powder exploding in them.

. From the foregoing it is evident that a large volume of carbon monoxide was produced from the excessive amount of powder burned; add to this a perhaps larger quantity of the same gas distilled from the drill dust produced by the blasts in grinding and breaking down the coal, each coming in contact with the flame from the overcharged shots, and considering the fact that the lower explosive limit of CO is 1 volume of gas to 13 of air, and that the mixture continues to be explosive until the proportions of 1 of gas to 75 of air is reached, also that in the firing of 38 shots at intervals of perhaps 15 seconds the mixture is brought up to the proper temperature to ignite readily, we have conditions just ripe for an explosion, and all that is required to produce one is the flame of a blown-out shot projected into the mixture.

It is the opinion of those who made the investigation that the explosion had its origin at the face of room No. 8 on the first northeast and was brought on by the flame from the last shot fired on that entry. The drill hole in this shot measured  $3\frac{1}{2}$  inches in di-

ameter, and the shot was excessively overcharged and evidently produced a large sheet of flame, which was projected into the mixture as above described. The debris found along the roadway and the damage done at this point indicate the opinion to have been the correct one.

#### CLAY COUNTY.

March 6—Vandalia No. 65 Mine: Walter Neice, miner, thirty-five years of age, American, single, was fatally injured by falling slate.

About 11:40 o'clock a. m. decedent was engaged mining off a standing shot, when suddenly, without warning, a large piece of draw slate 10 feet in length, 5 feet wide and 7 inches in thickness, under which he was working, gave away, falling on him, breaking his spinal column in two places, also crushing him through the chest, inflicting injuries from which he died May 18 following.

#### VERMILLION COUNTY.

March 9—Dering No. 7 Mine: Patrick Fair, day laborer, forty-four years of age, Irish, who leaves as dependents two children, was fatally injured by falling slate.

A few moments previous to the accident decedent had assisted in pushing an empty car to the working face of one of the rooms, and was leaning on the outside end of the car apparently resting a few moments before leaving the room, when a piece of slate 6 feet in length, 3 feet in width and 3 inches thick fell on him, crushing his breast down against the end of the car and so injuring him that he died at 10:30 o'clock p. m. of the 13th, following, in St. Anthony Hospital at Terre Haute.

#### VIGO COUNTY.

March 19—Wabash Mine: Frank Hogue, loader, thirty years of age, American, who leaves a wife, was fatally burned by an explosion of powder.

About 3 o'clock p. m. decedent and his buddy, Joe Morris, having completed their day's work, were sitting in a break-through a short distance back from the face of their working place, where they kept their powder, oil, tools, etc., waiting for the shot firing to commence.

Hogue at the time was sitting on an almost full keg of powder from which the slide opening had been removed, leaving the open-

ing in the top of the keg uncovered. While in this position he picked up some loose grains of powder lying on the mine floor and began exploding them on his lamp blaze within a few inches of the uncovered opening in the powder keg, thus not only endangering the lives of his buddy and himself, but polluting the mine air with powder smoke as well. His buddy warned him of the danger and requested him to quit burning the powder. He continued placing the grains one at a time on his lamp blaze, however, until the result to be expected followed, i. e., one of the grains of powder flashed into the open keg, exploding the powder, burning him about the face, hands and body and so injuring him that he died at 9 p. m. of the same day. Morris was also severely burned.

#### GREENE COUNTY.

March 20—Lattas Creek: Joseph Reed, top laborer, forty-four years of age, American, wife and three children, was killed by being run over by a railroad car.

About 11 o'clock a. m. decedent was dropping an empty railroad car down to the tipple when in some way he slipped and fell directly under the moving car, which crushed him through the breast and bowels, killing him instantly.

#### VANDEBURGH COUNTY.

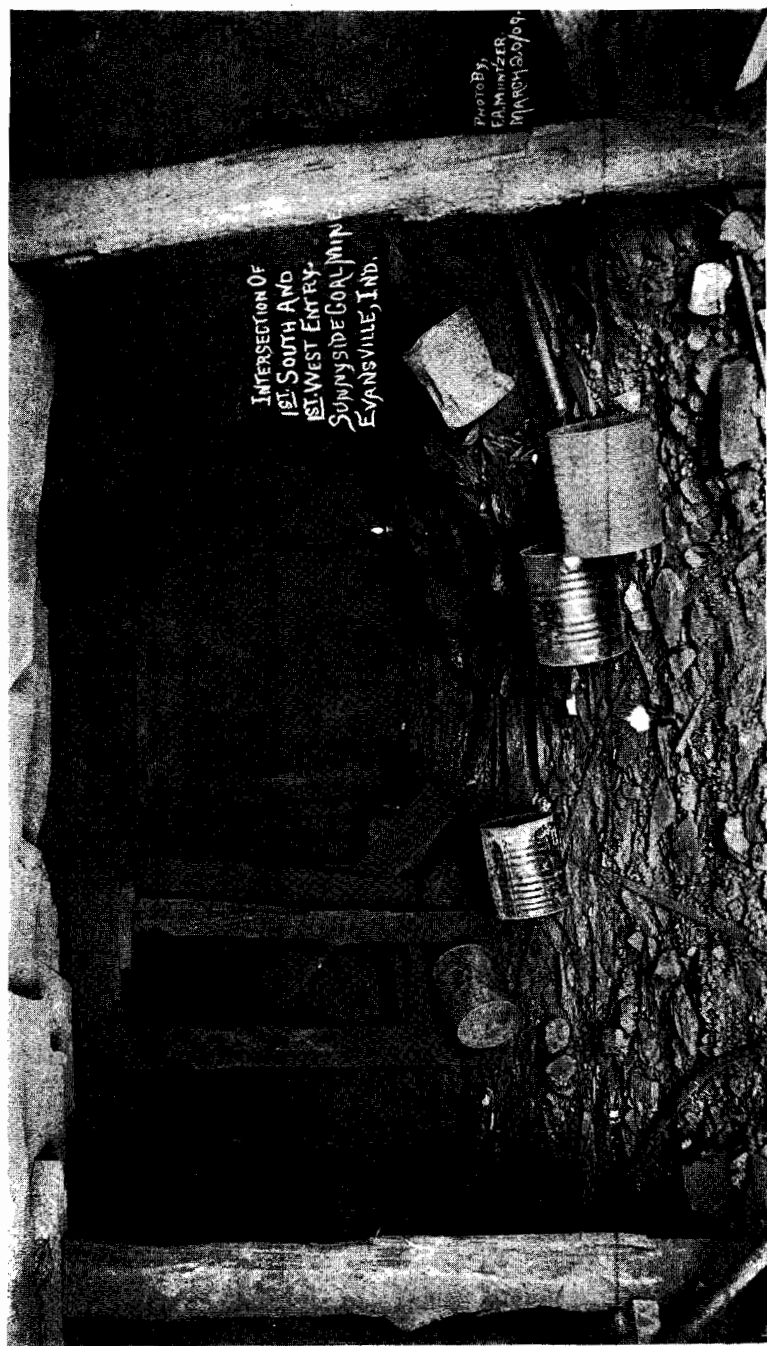
March 20 dates the most disastrous mine accident for the year concerning the loss of life.

About 12 o'clock midnight of this date an explosion occurred in the Sunnyside mine at Evansville, resulting in the death of six persons, five of whom were taken out of the mine dead and one so badly injured that he died some twelve hours later.

The causes responsible for this disaster were identical with those causing the explosion March 2 in the Prince mine, Vermillion County.

An examination of the mine was made the day following the explosion by myself, my assistants, the coroner of Vanderburgh County, the mine superintendent, mine boss and a number of miners who were working in the mine when the explosion occurred. The following are the facts and conditions that were developed through this examination:

(1) The explosion had its origin at the face of room No. 6, the last room on the first southwest cross-entry, in what is known as



INTERSECTION OF  
1ST SOUTH AND  
1ST WEST ENTRY.  
SUNNYSIDE COAL MINE  
EVANSVILLE, IND.

Photo By,  
EAMUNSTER  
MARCH 30/09

Photograph No. 1.

the new workings of the mine. (See photograph No. 1, showing intersection of first west and first south entries, at which point five bodies were found.)

(2) In room No. 1 we found one shot tamped on fuse with drill dust, but not exploded.

(3) In room No. 2 two shots not exploded, both tamped with drill dust, one of which was tamped so loosely that the fuse, with its knotted end, was easily drawn out of the charge through three or four feet of drill dust tamping.

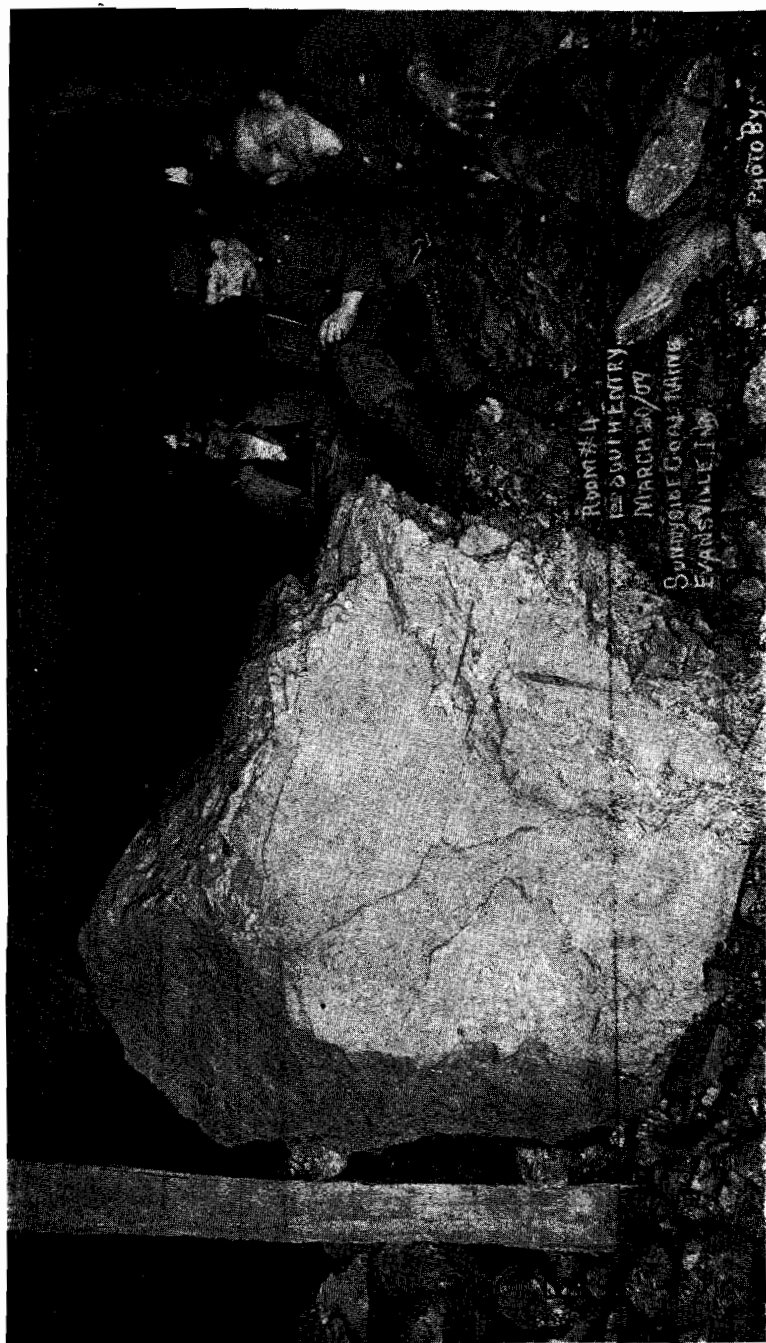
(4) In room No. 4 we found a shot that had evidently been fired the evening the explosion occurred. This shot was eight feet wide at the point, measured at right angles to the drill hole, drilled eighteen inches past the cutting or loose end and was excessively overcharged, the coal being thrown back down the room a distance of forty-four feet. Approximately 40 per cent. of the powder contained in this charge was in excess of that required to break down the coal, and was expended in the mine air in the form of carbon monoxide. (See photograph 2.)

(5) In room No. 5 two shots had been fired, both excessively overcharged, the coal being thrown back down the roadway thirty feet or more.

At least 25 per cent. of the energy in each of these charges was expended in the mine air.

(6) In room No. 6, where the explosion had its origin, two shots had been fired. These shots had been laid facing each other, one of which was drilled pointing toward the north rib and the other one toward the south rib of the room, the mouths of the two holes being but a few feet apart. Both shots were very heavily overcharged, and the coal brought down by them was broken very fine, much of it ground into a dust and a portion of the coal thrown the full length of the room and across the entry a distance of about sixty feet. All the props on the north side of the roadway were swept out a distance of thirty feet back from the face, indicating that an unusually large amount of powder had been exploded in this room. (See photograph No. 3, showing interior of room, and No. 4, showing mouth of room.)

(7) At the face of the first south entry much the same conditions were found as in room No. 6. A cutting shot had been placed in the southwest corner of the entry which measured 4 feet in length, 22 inches in width at the point, and a few inches thicker at the heel. This shot was literally pulverized, and no doubt created



Room # 4  
122 SOUTH ENTRY  
MARCH 20/07  
SUNNYGIRL COAL MINE  
EVANSVILLE, IN

Photo By:

Photograph No. 2. Showing conditions in Room No. 4.





Photograph No. 3. Showing interior of Room No. 6.

a large quantity of very fine coal dust. Less than twenty-five per cent. of the powder used in this charge would have been ample to perform the work intended, leaving at least seventy-five per cent. of the energy to be expended in the mine air, to which must be added the large quantity of carbon monoxide distilled from the coal dust burned in the flame from the shot. (See photograph No. 5, showing conditions at the face of the entry.)

NOTE.—Quoting an eminent authority on properties of coal dust: One pound of inflammable coal dust exposed to the flame of a blown-out shot or other explosion will produce a volume of carbon monoxide equal to 31.5 cubic feet, measured at sixty degrees Fahrenheit, and 14.7 pounds pressure per square inch.

CO has a lower explosive limit at the proportions of 1 volume of gas to 13 of air and a higher explosive limit at 1 part of gas to 75 parts of air, which, being true, 1 pound of coal dust will produce sufficient gas to render explosive a maximum volume of mixture equal to  $31.5 \times 75$  equals 2,362.5 cubic feet. Thus it can be readily understood that a small amount of coal dust under favorable conditions can be made to produce sufficient gas to render explosive a large volume of air, and that the use of drill dust, or even coal slack, in tamping shots is an extremely dangerous practice.

After completing our inspection of the mine we then assisted the coroner in examining witnesses, sixteen of whom were examined. This part of the investigation occupied two days' time and no questions were unasked that would tend to throw light on the cause of the explosion. Invitations were also extended the miners' committee, miners or other persons present to ask any questions touching on the matter.

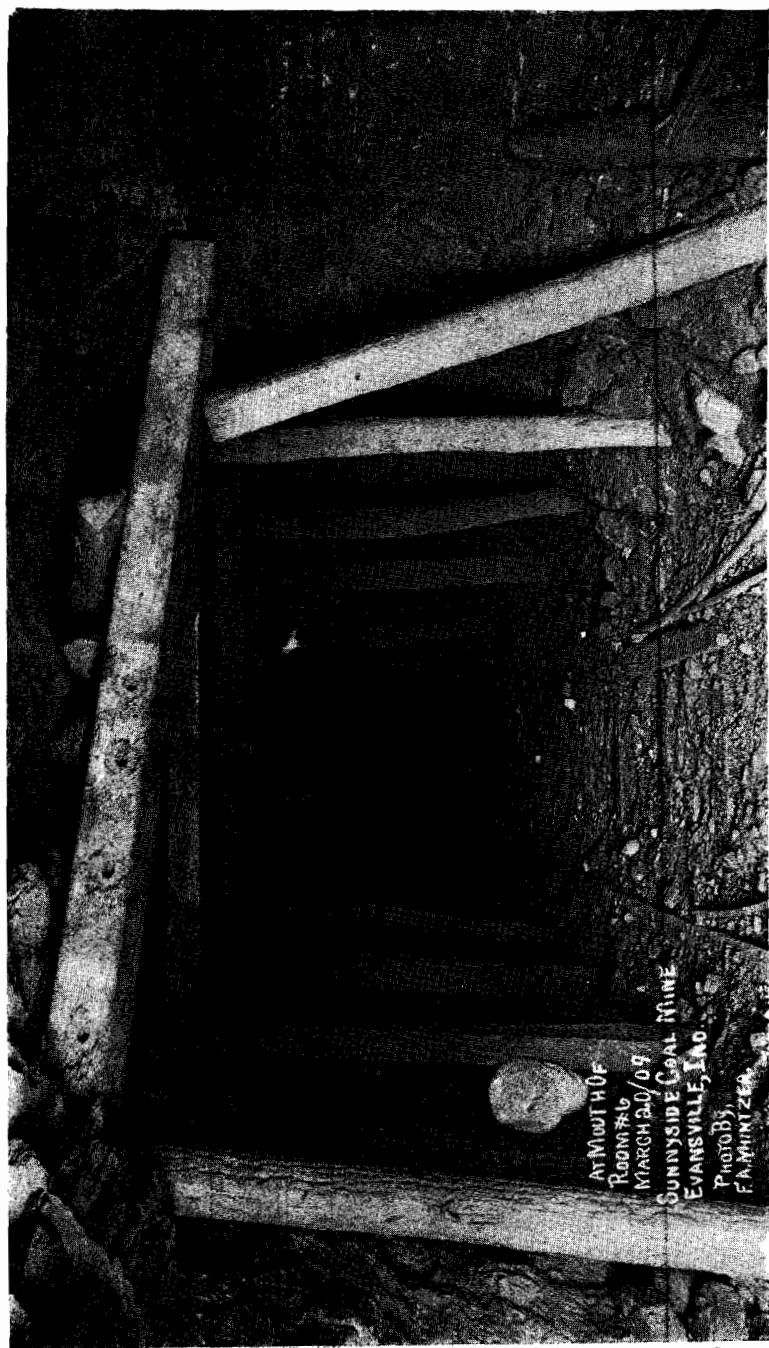
From our examination of the premises, together with evidence brought forth in the examination of witnesses, we established the following facts:

- (1) That it was a common practice throughout the mine for miners to tamp their shots with drill dust or dry coal slack.

- (2) That in numerous instances the tamping was shoved back against the powder loosely, with the button on the end of the scraper, instead of being tamped solid with tamping bar, which is necessary to confine the charge.

- (3) That the greater number of shots in the mine were fired with fuse.

- (4) That where a miner had more than one shot to fire, it was customary for him to light each one before leaving his place.



AT MOUTH OF  
ROOM 756  
MARCH 20/09  
SUNNYSIDE COAL MINE  
EVANSVILLE, IND.  
PHOTO BY  
F. A. MANTZKE

Photograph No. 4. Showing conditions at mouth of Room No. 6.

(5) That at firing time it was customary for the person first on turn to fire, to light his shot or shots, run past the working place of the next in turn and call "All right;" he in turn would light his shots and run past the next in turn, calling "all right."

In this manner the shots were lighted one after another in quick succession without waiting for any of those first lighted to explode. The fuse in perhaps a dozen or more shots are burning at the same time, and as the fuse is cut at different lengths to suit the length of the drill holes, a number of the shots would explode simultaneously.

(6) That the statute relating to the thickness of shots and drilling past the cutting or loose end was violated in numerous instances.

(7) That the ventilation in that section of the mine where the explosion occurred was exceptionally good.

(8) That there was a total absence of fire damp.

Summing up all the foregoing facts, it is my opinion, which opinion is concurred in by the coroner and those who assisted in the investigation, that this was purely an explosion of gases produced from the explosion of powder and the gases distilled from the coal dust used in tamping shots and that produced in blasting down the coal, each coming in contact with the volume of flame from such blasts.

Also that the two shots placed facing each other in room No. 6 were directly responsible for the explosion. These two shots were evidently tamped on fuse and both lighted at the same time, one exploding a few seconds after the other, the flames from the second shot igniting the gases generated by the first one, these in turn communicating to the gases generated in the first south entry.

The following are the names, ages, nationality and occupation of the persons killed and the number of dependents left by each:

Joseph Shanks, miner, 54, American, wife, four children,

Samuel Coomer, miner, 51, American, wife, three children.

N. Willenham, miner, 48, colored, one child.

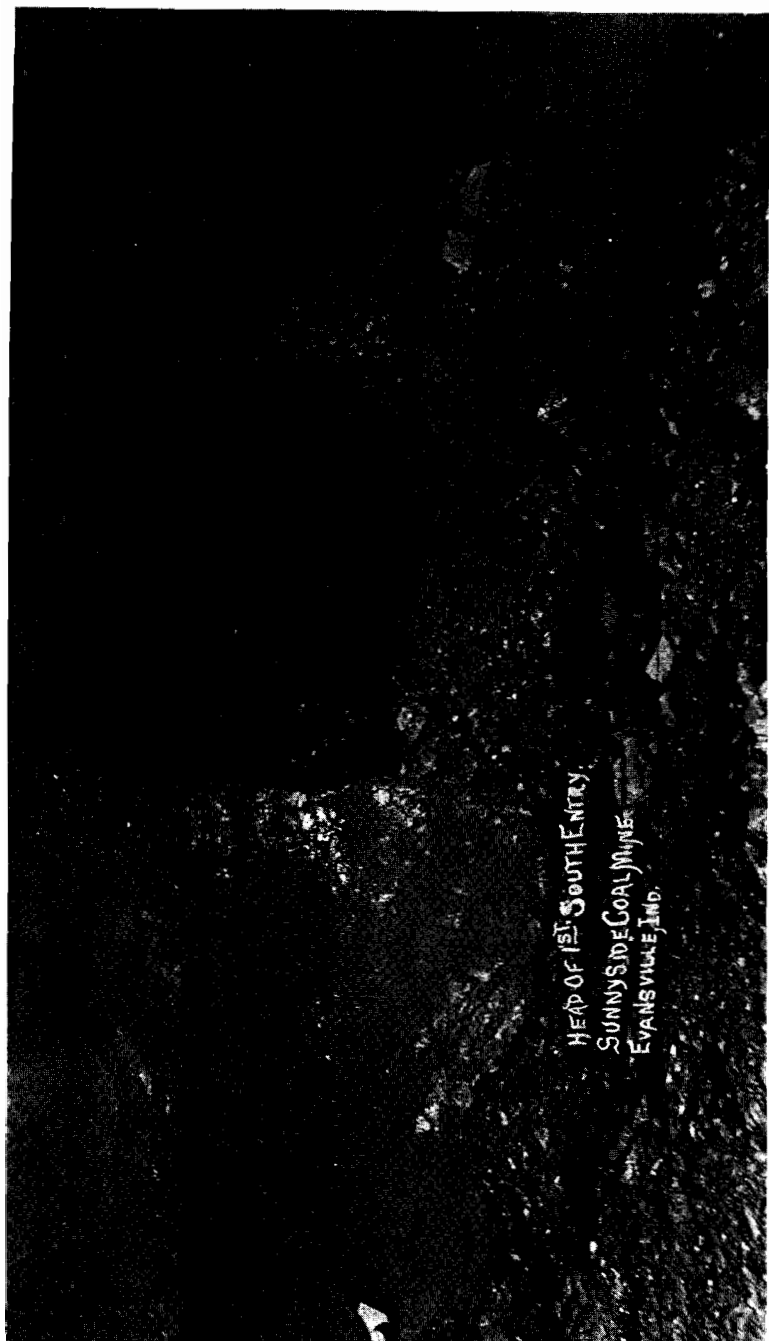
Frank James, miner, 18, colored.

John Pettitt, miner, 52, American, wife, one child.

Wm. Schnute, miner, 49, American, wife, one child.



Photograph No. 4. Showing conditions at mouth of Room No. 6.



Photograph No. 5. Showing conditions at face of first south entry.

About 10 o'clock a. m. a loaded trip was pulled out of the fifth west, and decedent then should have set the switch so that the motor could pass that point when going in after the following trip. This he forgot to do, however, and when he heard the motor returning with a train of empty cars a few minutes later he opened the trap door between the two entries and stepped into the mouth of the fifth west, thinking to let the train pass him.

The switch not having been changed, the trip ran into the entry, the front car pinning him against the entry side, crushing and injuring him so badly that he died within a few minutes.

#### VERMILLION COUNTY.

April 20—Prince Mine: Oliver Bowen, cager, thirty-three years of age, colored, wife and four children, was struck and fatally injured by a piece of coal falling down the hoisting shaft. About 8 o'clock a. m., while caging a car of coal on the west cage, decedent for some reason (presumably for the purpose of raising the keepers which hold the car in position on the cage) leaned out over the edge of the car into the shaft, and while in that position a piece of coal weighing nearly two and one-half pounds fell from the top landing, a distance of something over 300 feet, striking him on the head and fracturing his skull and inflicting injuries from which he died at 9 o'clock p. m. of the same date.

#### GREENE COUNTY.

April 30—Vandalia No. 9 Mine: Desire Simon, loader, thirty-three years of age, French, wife and one child, was killed by falling slate.

About 8 o'clock a. m. decedent and his buddy were engaged drilling the face of their working place preparatory to shooting down the undercut which had been recently made. Simon had finished his work on one side of the room and was crossing over to commence drilling on the opposite rib, when, just opposite the head of his roadway, a large piece of slate 9 feet in length, ranging from 3 to 5 feet in width and from 8 to 12 inches in thickness, suddenly gave way, falling on him and killing him instantly.

#### KNOX COUNTY.

May 18—Lynn Mine: Egbert Cleghorn, loader, thirty-five years of age, American, who leaves a wife and one child, was killed by falling slate.

At the time he met with his accident deceased was working under a piece of roof which he knew to be loose and dangerous and which the mine boss had ordered him to timber a few hours previous to his death.

Regardless of the orders given him by the mine boss and his knowledge that the slate was loose and dangerous, he continued loading coal and performing other work, neglecting to set the props necessary to protect his life.

About 11:30 a. m., while engaged mining down some loose top coal, a piece of slate 7 feet in length, 5 feet wide, ranging from 3 to 12 inches in thickness, gave way, falling on him and killing him instantly.

From the foregoing it is evident that decedent contributed to his own accident and death. Notwithstanding this fact, the mine boss was also negligent of his duty in not forbidding empty cars to be given decedent to load coal in, or permitting him to perform work of any kind in his working place until he had properly secured it with props or other timbers.

#### VERMILLION COUNTY.

May 24—Crown Hill No. 3 Mine: Joe Shertoe, machine helper, thirty-five years of age, Austrian, who leaves a wife and five children, was killed by falling slate.

About 6:50 o'clock a. m. deceased and John Vargo, machine runner, were going into the mine preparatory to commencing their day's work, when opposite room No. 7, in the third east off first north entry, a large piece of slate 16 feet in length, 6 feet wide, ranging from 1 to 14 inches in thickness, suddenly gave way, falling on Shertoe and killing him instantly. Vargo was also struck by the slate and seriously injured.

#### GREENE COUNTY.

June 5—Vandalia No. 5 Mine: Lewis Hogue, machine helper, thirty-four years of age, American, wife and four children, was fatally injured by the bitt chain of an electric mining machine.

About 9 o'clock a. m. deceased and his buddy, M. K. Lackey, machine runner, had set up and started their machine on an undercut. The helper usually occupies a kneeling position facing the coal seam near the left side of the bed frame of the machine, from which point he shovels back the cuttings as they are delivered on that side of the machine by the bitt chain.



On this occasion Hogue for some reason took his position with his back toward the coal face, and just when the machine had gotten fairly started his shovel in some way caught in the chain and he was dragged over against the side of the machine. The machine bitts, which protrude outside the bed frame and travel at the rate of about 275 feet per minute, catching his left leg, almost severed it from his body.

The loss of blood and the shock incident to his injury resulted in his death about 4 o'clock p. m. following.

#### VIGO COUNTY.

June 9—Dering No. 6 Mine: James Picco, miner, thirty-six years of age, wife and three children, was killed by falling down the hoisting shaft.

From evidence adduced at the investigation of this accident it was learned that on the morning of above date an accumulation of white damp (CO) produced by the shots fired the previous evening was found to have collected in the working places on the ninth and tenth west cross-entries to such an extent that the miners and other workmen were compelled to leave that section of the mine, some of whom did not begin their day's work; others, making an effort to work, remained in their places a short time. Among the latter was deceased, who remained at work until ordered out by the driver.

On coming to the shaft bottom, although affected by the white damp, he was able to walk and apparently was able to take care of himself and got on the cage with eight other persons to be hoisted to the surface.

When within about 30 feet of the top of the shaft he fell over against one of the shaft buntings and was dragged through an 8-inch space between the bottom of the cage and the buntings, falling to the bottom of the shaft, a distance of 90 feet, killing him instantly.

It is presumed that the effect of the white damp caused him to become dizzy on reaching the fresh air, which, with the motion of the cage, caused him to fall.

#### VERMILLION COUNTY.

June 17—Dering No. 8 (Brazil Block No. 8): Frank Moliskie, driver, twenty-three years of age, Polander, wife and three children, was fatally injured by falling slate.

About 12:30 o'clock p. m. decedent brought a loaded trip of cars to the shaft bottom and passed with his mule through the cross-cut into what is known as the west lead, or empty siding, for a trip of empty cars.

At this time there was but one empty car standing in the lead, to which he hitched his mule, and while standing waiting for cars sufficient to make up his trip a piece of slate 18 by 24 inches, 5 inches thick, suddenly gave way, falling on his head, crushing him down on the mine floor and inflicting injuries from which he died thirty minutes later.

#### VERMILLION COUNTY.

June 23—Crown Hill No. 1 Mine: Hubert Eller, trip rider, twenty-two years of age, American, single, was crushed to death by loaded mine cars.

About 9:30 a. m. Eller and Frank Jeffreys, motorman, were coming out of the mine with an electric motor coupled to a trip of eighteen loaded cars.

When some 400 or 500 feet from the bottom of the shaft they were signalled to stop, and a few minutes later were signalled to advance. When starting the trip in response to the latter signal the front drawbar in the twelfth car from the motor gave way, leaving seven cars of the trip standing.

When they had delivered the eleven cars on the siding at the shaft bottom they ran the motor back after the remainder of the trip, and using a ten-foot chain, one end of which was hooked in the drawbar of the motor and the other end passed through under the first car and hooked in the drawbar of the second one, the trip was started for the shaft bottom.

Eller was riding on the front end of the first car, standing with one foot on the car bumper and the other on the chain ready to take up the chain when it was cut loose from the motor at the shaft bottom.

When near the empty siding at the bottom of the shaft the motorman cast off the chain, and Eller, stooping to pick it up, in some way lost his footing and fell under the front car of the rapidly moving trip, in which position he was dragged and rolled along the roadway about twenty feet, killing him instantly.

## SULLIVAN COUNTY.

June 26—Phoenix No. 4 Mine: William Phillips, room boss, twenty-four years of age, American, who leaves a wife, was killed by falling slate.

At the time he met with the accident Phillips and a driver by the name of James Snapp were cleaning up some slate in room No. 16, on the fifth northeast cross-entry, preparatory to making a double parting. While so engaged the roof under which they were working was discovered to be loose and dangerous and Phillips ordered Snapp out from under the loose slate until he (Phillips) could secure it with props. This he proceeded to do, and had set one prop and was in the act of setting the second one, when a large piece of the slate, 12 feet in length, 6 feet wide and 12 inches in thickness, gave way, falling on him and killing him instantly.

## VIGO COUNTY.

July 19—Atherton Mine: Adolph Mosk, miner, twenty-eight years of age, Polander, single, was fatally injured by falling slate.

At the time he met with the accident deceased was at work shoveling loose coal out from the north side of the face of his room. He had been so engaged for some little time and had shoveled a considerable pile of the coal back about six feet from the face, when a large piece of slate, 7 feet in length, 2 feet wide and 10 inches in thickness, suddenly gave way. The outer edge, falling first on the pile of coal, toppled over on him, breaking his back and injuring him otherwise, from which injuries he died the following day in St. Anthony Hospital at Terre Haute.

## VERMILLION COUNTY.

August 4—Klondyke Mine: Andrew Verbic, miner, thirty-three years of age, Austrian, single, was fatally injured by a blast.

The morning he met with the accident was decedent's first work in the mine, and on examining the working place assigned him he discovered a shot that had not been fired.

The place had been standing idle for several days, and thinking the powder contained in the charge, having lain so long, had become damp, he proceeded to drill out the tamping for the purpose of recharging the shot.

In removing the tamping he was using a punch drill having a steel bitt, and had struck but four or five blows on the tamping when the charge exploded, burning and so injuring him that he died

at 9:30 o'clock a. m. on the 13th, following, in St. Anthony Hospital at Terre Haute, where he had been taken for treatment.

It is not known what caused the charge to explode. It is presumed, though, that it was covered with only a few inches of tamping and that he uncovered the powder sooner than expected, and the steel bitt probably coming in contact with a piece of sulphur about that time, emitted a spark which ignited the powder.

#### SULLIVAN COUNTY.

August 13—Consolidated Indiana No. 30 Mine: Bert Riggles, driver and jerryman, twenty-one years of age, American, who leaves a wife, was fatally injured by falling slate.

On the afternoon of the accident Riggles, in company with some other workman, were engaged in constructing an overcast on one of the cross-entries. In order to make space for the overcast it was necessary to shoot down some slate, which after being shot down was loaded in mine cars. Riggles and a fellow-workman were hauling and unloading the slate in old workings. They had hauled a car into the mouth of an abandoned room and unloaded it at 3:28 o'clock p. m. Decedent, who was serving as driver, was in the act of bringing his mule around to the outside end of the car, when a piece of draw slate, about 5 feet wide, 9 feet in length, ranging from  $3\frac{1}{2}$  to  $3\frac{3}{4}$  inches in thickness, suddenly gave way, falling on him and injuring him so that he died about three hours later.

#### GREENE COUNTY.

August 17—Vandalia No. 8 Mine: Henry Wessel, miner, forty-one years of age, wife and one child, killed by falling slate.

About 11:30 o'clock a. m. decedent was engaged loading a car of coal when a piece of slate measuring 6 feet in length, 4 feet wide and 14 inches in thickness suddenly gave way, falling on him and killing him instantly.

#### GREENE COUNTY.

September 3—Vandalia No. 9 Mine: Thomas Smith, loader, forty-one years of age, wife and five children, was killed by falling coal.

About 10:30 o'clock a. m. deceased was at work snubbing one of his working places which had been recently undercut.

The snubbing, i. e., breaking down the bottom of the coal seam at the edge of the undercut being necessary to permit the coal to fall over when blasted.

While engaged at this work a piece of coal weighing probably 350 pounds gave way, striking his head, crushing it against the mine floor, and killing him almost instantly.

#### VIGO COUNTY.

September 12—Deep Vein Mine No. 1: Charles Benson, cager, forty-one years of age, American, wife and six children, was killed by falling down the hoisting shaft.

There are two seams of coal operated at this mine, the coal from each being hoisted through the same opening.

The two seams are respectively known as numbers IV and V, and lie about 105 feet apart, No. V being the lower seam. There are two gates placed at the No. V seam (as required by statute), one for the north and one for the south stage landing. The purpose of these gates is to prevent persons or mules from walking into the shaft or mine cars from being pushed or otherwise falling into the shaft when the cages are not at the landings, and these gates are required to be kept closed at all times except when opened to afford access to the cages.

There were about thirty miners employed at night, mining and loading coal in No. V, and decedent was employed as cager for this night shift. About 1:30 a. m. he caged a loaded car on the north cage which was hoisted to the tippie. At this time, notwithstanding the fact that the south cage was at the lower, or No. IV, level, he opened the south gate and left it standing open.

A few minutes later, presumably forgetting the location of the south cage and thinking it at the proper landing, he pushed a loaded car over into the empty compartment. Involuntarily clutching the car as it started to fall he was jerked over and fell with the car to the bottom of the shaft, killing him instantly.

#### VERMILLION COUNTY.

September 14—Dering Mine No. 8: Frank Costa, miner, thirty-seven years of age, Italian, single, was fatally injured by falling slate.

On the morning of the accident, decedent, having his working place full of loose coal and no other work to perform while waiting for empty cars, was spending his time visiting other workmen in the near locality. He had visited a number of rooms, among which was room No. 9, located on the same entry he was driving. About 8:30 a. m., while coming out of this room, when within 18 feet of the

entry, a piece of slate 5 feet in length,  $3\frac{1}{2}$  feet wide and 5 inches in thickness, under which he was passing, gave way and fell on him, crushing him about the face, head and back. He was taken to St. Anthony Hospital in Terre Haute the evening of the same date, where he died of the injuries received, at 6 p. m. of the 16th following.

#### SULLIVAN COUNTY.

September 15—Shirley Hill No. 1 Mine: Alex L. Rogers, fire boss, forty-one years of age, American, wife and one child, was fatally injured by falling slate.

Rogers and a number of other persons were employed on night shift cleaning up the mine and making repairs.

About 1.30 o'clock the morning of the accident, having completed their shift, they were sitting in a break-through near the mouth of the fourth southeast cross-entry taking a short rest before going home. At the time Rogers and James Peckaliske were sitting between a prop and one of the break-through ribs, the prop being set about  $3\frac{1}{2}$  feet out from the coal. They had been seated but a few minutes when a piece of slate 5 feet in length and 3 feet wide gave way, falling on both men, crushing them about the back and also injuring them internally.

Peckaliske was permanently disabled and Rogers died from his injuries October 8th following.

#### CLAY COUNTY.

September 20—Vivian Mine No. 2: Charles Bennet, miner, thirty-five years of age, American, who leaves a wife and one child, was killed by an electric shock.

The coal seam in the mine is undercut with electric coal cutting machines, and the electric current of 250 volts by which the machines are driven is conducted to the machines at the working faces by an exposed copper wire, strung on insulators alongside of the main entry, which also serves as a main haulage and traveling road for employes and mules. Decedent was not an employe of the company, and on the afternoon of the accident had gone down in the mine with his brother, John Bennet, who was an employe, for the purpose of examining a working place in the main south entry which he had asked the mine boss for. After examining the working place in question they started to leave the mine, and while passing through a small body of water some 6 or 8 inches deep

lying on the roadway, decedent's foot slipped, causing him to fall on the electric wire mentioned above, striking it with the back of his neck. In his struggle to free himself he also grasped the wire with both hands, thus completing the circuit through his body. His brother, who at the time was a few feet behind him, on hearing his outcry when he fell, ran forward and took hold of him and, though receiving a severe shock while so doing, succeeded in pulling him off the wire, not in sufficient time however to save his life. The contact probably lasted less than one minute, but life was practically extinct when decedent was extricated from the wire.

Three hundred volts of electricity are considered by expert electricians as the minimum voltage dangerous to human life, yet in this instance the engineer in charge of the electric machinery testified under oath that the load on his dynamo at the time the accident occurred did not exceed 250 volts, proving conclusively that under proper conditions, 250 volts, and in accidents of previous record even a less voltage, will cause death. There is no good reason, except a small amount of added expense, why such wires should not be insulated or strung in places other than on a main traveling road for employes, and there should be a statute enacted compelling this precaution against accidents such as above.

#### SULLIVAN COUNTY.

September 24—Rainbow Mine: Romain Saude, miner, sixty-five years of age, of French nationality, who leaves a wife and seven children, was killed by an ascending cage.

This accident was investigated by assistant inspector, Mr. Frank Pearce, and from evidence adduced at the investigation, together with his examination of the hoisting shaft and the mine cage on which the accident occurred, it was learned, that about 3:35 p. m. (quitting time) decedent and eight other persons got on the east cage for the purpose of being hoisted out of the mine.

Decedent at the time had with him a coal pick, a powder keg, and his dinner pail, and was standing near the northeast corner of the cage without holding to the rings or devices suspended from the cross-head of the cage to be used as supports by persons ascending or descending the shaft; in fact, having the above named articles in his hands it would have been practically impossible for him to have held on to these supports.

The proper signals were exchanged between the cager at the shaft bottom and the hoisting engineer, and the engineer commenced

to hoist the cage at the regular rate of speed, when, about 15 or 20 feet up the shaft, decedent in some way lost his balance and fell over the north edge of the cage bottom and was caught and dragged between the cage and the shaft curbing up to within about 20 feet of the surface, a distance of probably 50 to 60 feet, from where he was precipitated to the shaft bottom, 75 feet below. He was immediately removed to the surface, but was unconscious at the time and died a few minutes later.

#### KNOX COUNTY.

September 27—Tecumseh Mine No. 1: Earl Vale, driver, twenty-six years of age, American, who leaves a wife, was fatally injured in a collision of mine cars.

On investigating this accident it was learned that decedent, who was employed as a regular driver in this mine, had for his run, or places from which he had hauled coal, the north and east entries.

The switch leading to the east entries is turned off the main north, and the roadway leads through a cutoff or break-through in the pillar between the main entry and air course.

A swinging trap door is placed across the roadway in the cutoff for the purpose of conducting the air current past that point to the main workings. There was no flagman or trapper stationed at this point, and when more than one driver was making a trip in the north and east entries, in order to avoid collisions it was customary for each when approaching the east parting to make his presence known by whistling.

On the morning of the accident decedent and another driver by the name of Obey Holt were both hauling coal from the two above-named entries. About 9:25 a. m. decedent went into the east air course for a trip and Holt into the north. A few minutes later, with a loaded car each, they both approached the parting at about the same time. The door in the cutoff prevented their seeing and to some extent from hearing, each other, and each thinking the other had gone out, neither knew the other was approaching until Vale came through the door, by which time the cars were so close to the junction it was impossible to prevent a collision.

When decedent saw the cars were going to collide, in order to prevent being crushed between the cars, he tried to save himself by jumping across the north roadway, and in so doing fell under the rapidly moving car from the north, being crushed through the chest and head, death resulting twenty minutes later.



## VIGO COUNTY.

October 1—Vandalia No. 69 Mine: Warren Berry, cager, thirty years of age, American, single, was fatally injured by a falling cage.

About 11 o'clock a. m. a trip of loaded cars which were being brought down to the shaft bottom had gained such headway that it was impossible to stop them before the first car in the trip ran into the shaft sump.

The coupling between this car and the second one in the trip was so bent and twisted that it was impossible to uncouple the cars without first cutting the coupling loose.

There being no tools in the shaft bottom it was necessary to send some one to the surface for a cold chisel, and the signal was given the engineer that men were coming up. While waiting for the return signal from the engineer giving notice to get on the cage, decedent for some unknown reason attempted to cross the cage. Just at this time the engineer, who testified that he heard but one bell, thinking he had been signaled to hoist coal, gave his engine a full head of steam and hoisted the cage up, catching decedent against the brow timber at the shaft bottom, crushing and injuring him so that he died ten minutes later.

There was a passage or traveling way at the east end of the shaft, and absolutely no cause for decedent to risk his life in the manner described.

## VIGO COUNTY.

October 5—Lawton Mine: Anthony Marsh, miner, seventy-two years of age, English, single, was fatally injured by falling coal.

About 3:15 o'clock a. m. decedent was engaged mining off a loose shot when suddenly without warning a large mass of coal and draw slate, whose combined weight would probably be 2,500 pounds, gave way, falling on him and so injuring him that he died the day following in St. Anthony Hospital, Terre Haute.

## CLAY COUNTY.

November 3—Plymouth No. 2 Mine: Victor Lafaver, miner, fifty-two years of age, French, single, was killed by a blast.

At 3:30 o'clock p. m. (firing time) decedent was trying to light a shot in his working place, when the charge exploded prematurely, killing him instantly.

The exact cause of this accident was not learned. It is presumed, though, that he had ignited the powder in the fuse and was not aware of the fact and was vainly trying to light it again.

#### GREENE COUNTY.

November 10—Vandalia No. 9 Mine: John James, night mine boss, fifty-two years of age, Welsh, wife and two children, was killed by falling slate.

At the time he met his death James and a fellow-miner by the name of John Goodwin were engaged in cleaning up a fall of slate in a room neck on one of the cross-entries. Goodwin thought the roof under which they were working was loose and dangerous, and so informed James, who sounded and examined the roof and pronounced it safe and proceeded with the work of cleaning up the fall. He at the time was breaking up the slate in small pieces and Goodwin loading it into an empty car. About 11 o'clock p. m. decedent again examined the roof and pronounced it safe, and while yet making the statement a piece of the slate 11 feet in length, 3 feet wide and 1 foot thick suddenly gave way, falling on him and killing him instantly.

#### SULLIVAN COUNTY.

November 17—Little Giant Mine: Edward Price, miner, fifty-three years of age, American, who leaves a wife, was killed by falling slate.

There were no eye-witnesses to this accident. Decedent was last seen alive some time during the forenoon. Shortly before 12 o'clock noon the driver, Raymond Hale, pulled a loaded car which had been off the track at the mouth of his room and called to Price to come and get the empty car he was leaving for him. Returning about 1 o'clock the driver was surprised to find the car standing where he had left it.

He called to Price, and not receiving an answer, went up to the face of his room and found him lying dead under a piece of slate which measured 17 feet in length, 5 feet wide and 1 foot thick.

#### CLAY COUNTY.

November 18—Vivian No. 2 Mine: William Butts, miner, twenty-two years of age, American, single, was killed by falling rock.

About 10:30 o'clock a. m. decedent was engaged at work near the face of his room when a large mass of sandstone (which forms

the roof over the seam) weighing probably twenty tons suddenly gave way the inner edge of the fall striking and killing him instantly.

#### VIGO COUNTY.

November 22—Ray No. 2 Mine: William File, shot firer, twenty-two years of age, American, wife and one child, was killed by a shot blowing through a pillar.

File and a fellow-miner by the name of James Hyde were employed as regular shot firers in the mine, and on the evening of above date were at their usual work, firing the shots that had been prepared during the day by the miners.

About 5:30 o'clock p. m. they had completed their work up to rooms Nos. 7 and 8 on what is known as the cutoff between the fifth and sixth northwest cross-entries. There were seven shots to fire in these two rooms, i. e., four in room 7 and three in room 8. One of the shots in No. 7 was located in the pillar between the two rooms, and, as later developments proved, was drilled within about 1 foot of being through the pillar.

Lighting the fuse in four shots in room No. 7, they proceeded into room No. 8, and were tamping the third hole in this room, at the time working just opposite to the shot located in the pillar in room No. 7; in fact, were not over 3 feet distant from the charge in the shot, which when it exploded, broke through the pillar, pieces of the flying coal striking File and killing him instantly. Hyde was also seriously injured.

#### SULLIVAN COUNTY.

November 23—Reliance Mine: Thomas Rogers, loader, thirty-six years of age, American, single, was killed by falling slate.

About 2:45 o'clock p. m. decedent was engaged loading a car of coal, having the car about one-third full, when a large piece of slate measuring 11 feet in length, 9 feet wide and 9 inches in thickness, fell on him, killing him instantly.

#### VERMILLION COUNTY.

December 1—Dering No. 8 Mine: William Burrows, fire boss, fifty-eight years of age, English, who leaves a wife, was killed by falling slate.

There were no eye-witnesses to this accident. Decedent was last seen alive on the evening of Novembr 30, when he entered the mine to begin his duties as fire boss.

At 6:20 the following morning, he not having reported at the surface, the mine boss sent a searching party into the mine to look for him, when he was found lying under a fall of slate, dead, about 140 feet from the face of the fourth southwest cross-entry.

#### SULLIVAN COUNTY.

December 10—Mammoth Mine: John F. Eldridge, loader, thirty-two years of age, American, wife and two children, was killed by falling slate.

About 10 o'clock a. m. deceased and his brother, Sam Eldridge, were at work loading a car of coal. They had the car about level full and deceased was bending over the edge of the car leveling down the coal when a large piece of draw slate 16 feet in length, 6 feet wide, and ranging from 3 to 4 inches in thickness, suddenly fell, catching him on the edge of the car, breaking his back and his neck, also crushing him through the chest, causing instant death.

#### GREENE COUNTY.

December 27—Gilmore Mine: George Waldoroff, loader, thirty-eight years of age, German-American, wife and one child, was killed by falling slate.

About 8:10 o'clock a. m. deceased was engaged loading a car which he had just bedded level full of coal. A piece of slate 9 feet in length, 4 feet wide, and ranging from 1 to 4 inches in thickness, suddenly gave way, falling on and killing him instantly.

The following summary of fatal accidents shows the date on which each fatality occurred, the name, age and occupation of each person killed, dependents left at each death, the cause of the accident, the name of the mine in which the accident occurred, and the county in which the mine is located:

TABLE.

## Summary of Fatal Accidents

Date.	NAME.	Occupation.	Age.	Cause of Accident.	Mine.	County.	DEPENDENTS.		Nationality.
							Wife.	Child- ren.	
Jan. 5	Zigmond Falevich	Miner	21	Falling slate	Vandalia No. 67.	Vigo			Polander.
Jan. 30	Alpha Thomas	Mine boss	33	Descending cage	Larsh	Sullivan	1	5	
Feb. 1	Patrick Daugherty	Jerry	56	Falling slate	Mary No. 1	Parke	1		American.
Feb. 12	Walter Masterson	Machine helper	28	Falling slate	Twia No. 5	Greene	1	1	Scotch.
Feb. 13	John Merwin	Motorman	47	Explosion, gasoline	Muren	Pike	1		American.
Feb. 16	Thomas Race	Mine boss	31	Falling slate	Pyrah	Clay	1	5	American.
Mar. 2	John Dardana	Shot firer	26	Explosion, powder gases	Prince	Vermillion			Italian.
Mar. 6	Walter Niece	Miner	35	Falling slate	Vandalia No. 65	Clay			American.
Mar. 9	Patrick Fair	Jerry	44	Falling slate	Dering No. 7.	Vermillion		2	Irish.
Mar. 19	Frank Hogue	Loader	30	Explosion, powder	Wabash	Vigo	1		American.
Mar. 20	Joseph Reed	Topman	44	Railroad cars	Lattas Creek	Greene	1	3	American.
Mar. 20	Samuel Coomes	Miner	51	Smoke and dust explosion	Sunnyside	Vanderburgh	1	3	American.
Mar. 20	William Schnut	Miner	49	Smoke and dust explosion	Sunnyside	Vanderburgh	1	1	American.
Mar. 20	Joseph Shanks	Miner	54	Smoke and dust explosion	Sunnyside	Vanderburgh	1	4	American.
Mar. 20	N. Willenham	Miner	48	Smoke and dust explosion	Sunnyside	Vanderburgh	1		Colored.
Mar. 20	Frank James	Miner	18	Smoke and dust explosion	Sunnyside	Vanderburgh			Colored.
Mar. 20	John Pettit	Miner	52	Smoke and dust explosion	Sunnyside	Vanderburgh	1	1	American.
Mar. 31	Clarence Britton	Driver	19	Crushed between mine cars	Jackson Hill No. 2	Sullivan			American.
April 16	Henry Bohnert	Switchman	52	Run down by mine cars	Gilmour	Greene	1	2	American.
April 20	Oliver Bowen	Cager	39	Coal falling down shaft	Prince	Vermillion	1	4	Colored.
April 30	Desire Simon	Loader	33	Falling slate	Vandalia No. 9	Greene	1	1	French.
May 18	Egbert Cleghorn	Loader	35	Falling slate	Lynn	Knox	1	1	American.
May 24	Joseph Shertoe	Machine helper	37	Falling slate	Crown Hill No. 3.	Vermillion	1	5	Austrian.
June 5	Lewis Hogue	Machine helper	34	Caught in bitt chain	Vandalia No. 5	Greene	1	4	American.
June 9	James Picco	Miner	36	Fell down hoisting shaft	Dering No. 6	Vigo	1	3	Italian.
June 17	Frank Moleskie	Driver	23	Falling slate	Dering No. 8	Vermillion	1	3	Polander.
June 23	Hubert Ellis	Trip rider	22	Crushed by pine cars	Crown Hill No. 1.	Vermillion			American.
June 26	William Phillips	Room boss	24	Falling slate	Sullivan	Phoenix No. 4	1		American.
July 19	Adolph Mark	Miner	28	Falling slate	Atherton	Vigo			Polish.
Aug. 4	Andrew Verbie	Miner	33	Premature blast	Klondyke	Vermillion			Austrian.
Aug. 13	Bert Riggles	Jerry	21	Falling slate	Ind. Consolidated No. 30	Sullivan	1		American.
Aug. 17	Henry Werrel	Miner	41	Falling slate	Vandalia No. 8.	Greene	1	1	American.

## SUMMARY OF FATAL ACCIDENTS—Continued.

Date.	NAME.	Occupation.	Age.	Cause of Accident.	Mine.	County.	DEPENDENTS.		Nationality.
							Wife.	Child- ren.	
Sept. 3	Thomas Smith	Loader	41	Falling coal and slate.	Vandalia No. 9	Greene	1	5	American.
Sept. 12	Charles Benson	Cager	42	Falling down shaft.	Deep Vein	Vigo	1	6	American.
Sept. 14	Frank Costa	Miner	37	Falling slate.	Dering No. 8	Vermillion			Italian.
Sept. 15	A. L. Rogers	Fire boss	41	Falling slate.	Shirley Hill No. 1	Sullivan	1	1	American.
Sept. 20	Charles Bennett	Miner	35	Electrocuted	Vivian No. 2	Clay	1	1	American.
Sept. 24	Romain Pande	Miner	64	Ascending cage	Rainbow	Sullivan	1	7	French.
Sept. 27	Earl Vale	Driver	26	Collision mine cars	Tecumseh	Knox	1		American.
Oct. 1	Warren Berry	Cager	30	Ascending cage	Vandalia No. 69	Vigo			American.
Oct. 5	Anthony Marsh	Miner	72	Falling coal.	Lawton	Vigo			English.
Nov. 3	Victor Lafaver	Miner	52	Premature blast	Plymouth No. 2	Clay			French.
Nov. 10	John James	Night mine boss	52	Falling slate.	Vandalia No. 9	Greene	1	6	Welsh.
Nov. 17	Ed. Price	Miner	53	Falling slate.	Little Giant	Sullivan	1		American.
Nov. 18	William Butts	Miner	22	Falling rock	Vivian No. 2	Clay			American.
Nov. 22	William Fife	Shot firer	32	Shot through pillar	Ray No. 2	Vigo	1	1	American.
Nov. 23	Thomas Rogers	Miner	32	Falling slate	Reliance	Sullivan	1		American.
Dec. 1	William Burrows	Fire boss	58	Falling slate	Dering No. 8	Vermillion	1		English.
Dec. 10	John F. Eldridge	Miner	32	Falling slate	Mammoth	Sullivan	1	2	American.
Dec. 27	George Waldorf	Loader	38	Falling slate	Gilmour	Greene	1	1	American.

TABLE.

*Showing the Number of Tons of Coal Mined, the Number of Persons Employed, the Number of Fatalities and the Number of Tons of Coal Produced per Each Fatality Each Year from January 1, 1898, to January 1, 1910.*

YEAR.	Tons Produced.	Employees.	Fatalities.	Tons per Fatality.
1898.....	5,146,920	No report.	22	233,950
1899.....	5,864,975	7,366	15	390,997
1900.....	6,253,063	8,858	18	348,059
1901.....	7,019,203	10,296	24	292,466
1902.....	8,763,197	13,139	24	365,133
1903.....	9,992,563	15,128	15	181,683
1904.....	9,872,404	17,838	34	290,304
1905.....	10,995,972	17,856	47	233,956
1906.....	11,422,027	19,562	31	368,450
1907.....	13,250,715	19,009	53	250,013
1908.....	11,997,304	19,092	45	266,606
1909.....	13,692,089	18,908	50	273,841

TABLE OF OCCUPATIONS.

*Showing the Total\* Number of Fatal, Permanent and Serious Accidents Occurring in 1909, and the Different Occupations of Persons Fatally or Otherwise Injured*

OCCUPATION.	Fatal.	Permanent.	Serious.	Total.
Miners.....	21	2	116	139
Machine runners.....			30	30
Machine helpers.....	3	1	20	24
Loaders.....	5	2	68	75
Motor men.....	1		5	6
Drivers.....	3	2	184	189
Road men.....			5	5
Timber men.....			13	13
Jerries.....	3	1	23	27
Trappers.....			9	9
Cagers.....	3		7	10
Pumpers.....			3	3
Electricians.....	1		2	2
Trip riders.....			7	8
Car couplers.....			1	1
Boss drivers.....			1	1
Mine bosses.....	4		2	6
Superintendents.....			2	2
Fire bosses.....	2		4	6
Shot firers.....	2		9	11
Flag men.....	1		2	3
Top men.....	1		12	13
Total.....	50	8	525	583

### PERMANENT, SERIOUS AND MINOR ACCIDENTS.

Under the head of permanent accidents we include injuries to persons resulting in a broken or dislocated spine, the amputation of a limb, or other injuries unfitting them to follow their usual occupation.

Under serious accidents we include those resulting in broken or dislocated limbs, cuts, bruises, internal or other injuries such as we think should receive special mention.

Minor accidents include those resulting in slight cuts, bruises, etc., which cause the injured party little loss of time, hence no mention of this class will be made except in the tables of causes, showing the aggregate number that occurred during the year.

The following summary tables of permanent and serious accidents exhibit the dates on which each accident occurred, the name, age and occupation of each person injured, number of dependents, the nature and extent of injury, time lost where same could be learned, name of mine in which the accident occurred, and the county in which the mine is located.



TABLE OF PERMANENT ACCIDENTS.

Date.	NAME.	Age.	Occupation.	DEPENDENTS.			Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.				
Feb. 6	James Holden	35	Miner	1	3		Back dislocated	Falling slate	Monarch	Clay
May 5	John Watt	21	Driver				Left leg mashed; right leg amputated	Falling slate	Vandalia No. 10	Sullivan
July 12	Joe Bartlett	32	Loader				Back broken	Falling slate	Union	Sullivan
Sept. 15	James Peckalaski	25	Jerry	1			Back broken	Falling slate	Shirley Hill No. 1	Sullivan
Sept. 21	John Mannick	32	Loader				Back dislocated	Falling slate	Vandalia No. 9	Greene
Oct. 7	Richard Railsback	26	Miner	1			Leg crushed; amputation necessary	Falling boulder	Ind. Con. No. 33	Sullivan
Dec. 15	Press Dent		Driver	1			Foot amputated	Run over by mine car	Atherton	Vigo
Dec. 24	Gilbert Feurcel	20	Machine helper				Right leg mangled; amputation necessary	Mining machine chain	Vandalia No. 8	Greene

TABLE.

*Exhibiting the Number of Serious Accidents Occurring in 1909, the Name, Age and Occupation of Persons Injured, the Number of Persons Dependent on them for Support, the Length of Time They Were Idle by Reason of Injuries (Where Same Could be Learned), the Name of County and the Mine Wherein the Accident Occurred.*

Date.	NAME.	Age.	Occupation.	DEPENDENTS.				Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.	Days Lost.				
Jan. 4	Curt Sullivan		Loader			2	16	Face and head	Flying coal from blast	Vandalia No. 21	Greene.
Jan. 5	Wm. Timmins	34	Electrician	1			12	Wrist	Mine cars	Phoenix	Sullivan.
Jan. 5	G. H. Palmer	35	Machine runner	1			14	Foot crushed	Falling coal	Phoenix	Sullivan.
Jan. 5	Pearl Timmerman	16	Miner					Hands, face burned	Explosion of powder	Lyford	Parke.
Jan. 6	James F. Harrison	30	Miner	1	1			Nose broken	Falling slate	Citizens	Sullivan.
Jan. 6	George Smith	26	Driver				6	Hands mashed	Falling coal	Deep Vein	Vigo.
Jan. 7	Robert Williams	45	Machine runner	1	6			Finger broken	Machine jack	Grant No. 3	Vigo.
Jan. 11	Robert Holden	28	Driver					Back sprained	Mine car	Vandalia No. 65	Clay.
Jan. 11	W. A. Bedwell		Loader	1	3		16	Leg crushed	Falling slate	Lattas creek	Greene.
Jan. 12	Frank Sills	30	Cager	1	2			Hips crushed	Mine car	Forrest	Vigo.
Jan. 16	Charles Walker	27	Driver	1	1			Back sprained	Mine car and mule	Crown Hill No. 3	Vermillion.
Jan. 16	John Mulax		Driver					Back sprained	Crushed by mine car	Lattas Creek	Greene.
Jan. 18	Clarence Davidson	25	Loader				75	Wrist crushed	Mine car and prop.	Vandalia No. 9	Greene.
Jan. 18	J. C. Lewis	31	Machine runner	1	1			Foot broken	Mining machine	Consolidated No. 30	Sullivan.
Jan. 19	R. F. Bonham	35	Driver				56	Arm broken	Fell on iron rail	Vandalia No. 9	Greene.
Jan. 19	Bigge Waldon	38	Miner				14	Leg crushed	Falling slate	Miami No. 1	Vigo.
Jan. 19	Andrew Stanley	45	Loader	1	6		136	Back and leg	Falling slate	Phoenix No. 4	Sullivan.
Jan. 22	Robert Johnson	27	Loader	1	1			Back	Falling slate	Gilmour	Greene.
Jan. 23	Olie Moreland	25	Motorman	1	1			Hips crushed	Mine cars	Wabash	Vigo.
Jan. 25	John Koone	25	Miner		1			Face burned	Explosion fire damp	Citizens	Sullivan.
Jan. 25	F. M. Cotton	32	Driver	1				Back and hips	Fell off cage	Dering No. 6	Vigo.
Jan. 26	Thomas Hall	21	Driver					Foot mashed	Mine car	Vandalia No. 3	Greene.
Jan. 26	Perry Brady	27	Cager	1	3			Leg crushed	Mine car	Glen Ayre	Vigo.
Jan. 27	George Dockery	40	Miner	1	4		17	Fingers crushed	Struck by sledge	Vandalia No. 5	Greene
Jan. 27	Irvin Rowe	22	Loader				57	Foot broken	Falling slate	Vandalia No. 9	Greene.
Jan. 27	Samuel James	23	Driver	1	1			Side and shoulder	Car and boulder	Lower Vein	Vigo.
Jan. 29	George Seldomridge	40	Machine runner	1	2		61	Leg broken	Falling slate	Vandalia No. 10	Sullivan.
Jan. 30	Mike Myers	24	Miner	1	1			Back bruised	Falling slate	Superior No. 4	Clay.
Feb. 1	John Swain	39	Jerry	1	4		14	Hips and breast	Falling slate	Mary No. 1	Parke.
Feb. 1	Pat Daugherty	56	Bottom shoveler	1				Three ribs broken	Falling slate	Mary No. 2	Parke.
Feb. 2	G. N. Bilbo	40	Miner	1			6	Back bruised	Mine car	Sponsler	Greene.

Feb. 2	Robert McCoy	25	Driver				Arm fractured	Mine car	Lyford	Parke
Feb. 2	Frank Dowell	17	Miner				Leg fractured	Falling slate	Lawton	Vigo
Feb. 3	Robert Beiler	50	Mine boss	1	2	41	Ankle fractured	Falling slate	National	Vigo
Feb. 3	John Lohner	45	Miner	1	1		Breast and back	Falling coal	Buckeye	Vernillion
Feb. 4	Wm. Dudley	37	Motorman	1	2		Fingers off	Mine car	Jackson Hill No. 2	Sullivan
Feb. 5	Eliza West	21	Driver				Hips crushed	Mine car	Vandalia No. 316	Parke
Feb. 8	Michael McMahon	59	Driver				Leg fractured	Falling slate	Plymouth No. 1	Vigo
Feb. 8	Carl Dixon	30	Jerry	1	1		Ribs broken	Falling slate	Vandalia No. 9	Greene
Feb. 10	Jack Jones	38	Driver	1	2		Leg crushed	Mine car	Miami No. 2	Vigo
Feb. 11	John Hudak	17	Loader				Hips and head	Falling slate	Latta's Creek	Greene
Feb. 13	W. B. Graham	41	Motorman	1	3	21	Face, hands burned	Gasoline explosion	Muren	Pike
Feb. 16	Sephias Gilbert	34	Driver	1			Finger off	Mine car	Vandalia No. 65	Clay
Feb. 16	Levi Gambil	40	Machine helper	1			Foot and ankle	Propeller chain	Gilmour	Greene
Feb. 16	Sol Wyman	47	Loader	1	3		Hand mashed	Mine car	Jackson Hill No. 2	Sullivan
Feb. 18	Jule Fancher		Loader				Leg broken	Falling coal	Summit No. 2	Greene
Feb. 19	James Johnson	35	Driver				Hips crushed	Mine car	Freeman	Knox
Feb. 23	Bert Pelzer	25	Driver				Hips and abdomen	Mine car	Lyford	Parke
Feb. 26	Emil Dessent	16	Trapper				Foot mashed	Mine car	Vandalia No. 10	Sullivan
Feb. 27	Henry Buck	39	Driver	1	1		Foot broken	Mine car	Consolidated No. 30	Sullivan
Feb. 27	George Froshaure	37	Driver	1	3		Leg mashed	Mine cars	Lower Vein	Vigo
Mar. 1	J. B. Wilson	35	Cager	1	3		Shoulder dislocated	Mine cars	Vandalia No. 3	Greene
Mar. 1	Arch Curry	34	Machine helper	1			Ankle dislocated	Mine car	Parke No. 11	Parke
Mar. 2	Herb Compton		Loader			11	Back injured	Falling slate	Forrest	Vigo
Mar. 2	Hugh Graham	27	Driver				Hips injured	Mine cars	Green Valley	Greene
Mar. 2	John Roderick	33	Machine runner	1			Ribs fractured	Mining machine	Green Valley	Greene
Mar. 2	John Wessel	41	Loader	1	2	14	Head cut	Falling slate	Vandalia No. 8	Greene
Mar. 2	Clifford Bennit	22	Loader			13	Leg injured	Drill	Vandalia No. 20	Greene
Mar. 5	Frank McDaniel	55	Miner		1		Leg broken	Falling slate	Fort Branch	Gibson
Mar. 5	John Johnson	17	Bitt boy			23	Fingers mashed	Mine car	Forrest	Vigo
Mar. 6	Mark Payne	32	Loader			225	Leg broken	Falling coal	Vandalia No. 5	Greene
Mar. 8	Rufus Hatcher	33	Driver	1			Back injured	Mine car	Gilmour	Greene
Mar. 8	Roy Cline	25	Driver			28	Finger off	Mule	Shirley Hill	Sullivan
Mar. 8	Pete Myers	21	Driver	1			Finger broken	Mine car	Minshall	Vigo
Mar. 9	John Vanmeter	33	Driver				Thigh, knee	Mule	Blackburn No. 2	Pike
Mar. 10	Wm. Lovelace	26	Driver	1	1		Leg bruised	Car and mine door	Ind. Con. No. 30	Sullivan
Mar. 10	Andy Hess	40	Miner	1	3		Leg broken	Falling slate	Miami No. 2	Vigo
Mar. 11	Ira Latta	19	Miner				Ribs broken	Falling slate	Vandalia No. 65	Clay
Mar. 11	Charles Hand	28	Driver	1	4		Hips injured	Mine cars	Shirley Hill No. 1	Sullivan
Mar. 13	Archie McTavish		Loader				Leg broken	Falling slate	Little's	Sullivan
Mar. 15	Dick Bledsoe	23	Driver				Crushed chest	Mine car	Island Valley No. 9	Clay
Mar. 15	John Wilson	30	Driver	1	1		Ribs fractured	Mine cars and roof	Lower vein	Vigo
Mar. 16	Ray Fox	16	Trapper			60	Foot crushed	Mine cars	Freeman	Knox
Mar. 16	Wm. Kerns	25	Miner	1		31	Ankle injured	Falling slate	Derring No. 8	Sullivan
Mar. 16	Remy Rank	40	Miner	1			Face and hands burned	Explosion fire damp	Little Giant	Sullivan
Mar. 16	Bert Sherwood	40	Engineer	1	3	14	Face burned	Bursting steam pipe	Shirley Hill No. 1	Sullivan
Mar. 17	Henry Savigus	35	Driver				Hand smashed	Mine car	Vandalia No. 66	Vigo
Mar. 19	Ike Morris	38	Loader	1	3		Face and hands burned	Explosion powder	Wabash	Vigo
Mar. 19	Charles Morrison	16	Driver				Finger broken	Mine car and door	Glen Ayr	Vigo

TABLE OF SERIOUS ACCIDENTS—Continued.

Date.	NAME.	Age.	Occupation.	DEPENDENTS.			Days Lost.	Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.					
Mar. 22	Thomas Riggs .....	26	Bottom shooter .....	1	...	...	...	Hand crushed .....	Falling slate .....	Plymouth No. 2 .....	Clay.
Mar. 25	Joe Lang .....	46	Driver .....	1	5	...	25	Ribs fractured .....	Mine cars .....	Latta's Creek .....	Greene.
Mar. 26	Lee Johnson .....	29	Loader .....	1	...	...	30	Back injured .....	Falling slate .....	Reliance .....	Sullivan.
Mar. 26	Wm. Baughman .....	24	Driver .....	1	2	...	...	Ribs broken .....	Mine cars .....	Vandalia No. 66 .....	Vigo.
Mar. 26	Wm. Drake .....	39	Jerryman .....	1	...	...	...	Ribs fractured .....	Mine car and entry rib .....	Glen Ayr .....	Vigo.
Mar. 27	Joe Gaddon .....	14	Flag man .....	1	...	...	...	Leg broken .....	Mine car .....	Ind. Con. No. 33 .....	Sullivan.
Mar. 29	J. J. Miller .....	32	Driver .....	1	...	...	...	Hips injured .....	Mine cars .....	Glen Ayr .....	Vigo.
Mar. 29	Wm. McCurdy .....	48	Machine helper .....	...	...	...	...	Rib broken .....	Mining machine .....	Vandalia No. 69 .....	Vigo.
Mar. 30	George Vosley .....	30	Miner .....	...	...	...	...	Legs bruised .....	Falling coal .....	Mary No. 2 .....	Vigo.
Mar. 31	Homer Erlinger .....	28	Timberman .....	1	...	...	42	Leg broken .....	Falling slate .....	Union .....	Sullivan.
Mar. 31	Ralph Haynes .....	...	Machine helper .....	1	...	...	6	Back injured .....	Mining machine .....	Grant No. 3 .....	Vigo.
Mar. 31	Charles Morris .....	19	Driver .....	...	...	...	...	Ankle injured .....	Mine cars .....	Glen Ayr .....	Vigo.
April 1	Parker Davis .....	18	Driver .....	...	...	...	...	Foot and ankle .....	Mine cars .....	Vandalia No. 10 .....	Sullivan.
April 5	Hud Watson .....	27	Driver .....	1	1	...	...	Internal .....	Mine car and door .....	Green Valley .....	Greene.
April 6	L. Lap .....	21	Driver .....	...	...	...	...	Foot cut .....	Mining machine .....	Ins. Cons. No. 30 .....	Sullivan.
April 6	Otto Seldomridge .....	21	Loader .....	...	...	...	30	Finger off .....	Car wheel and sprag .....	Vandalia No. 10 .....	Sullivan.
April 7	Herman Hunt .....	18	Car coupler .....	...	...	...	33	Ankle injured .....	Mine cars .....	Latta's Creek .....	Greene.
April 7	Milton Cox .....	50	Loader .....	1	4	...	36	Ankle crushed .....	Falling slate .....	Vandalia No. 10 .....	Sullivan.
April 8	Scott Ehrnhart .....	53	Miner .....	1	1	...	35	Back and shoulder .....	Falling slate .....	Crawford No. 9 .....	Clay.
April 8	Wm. Jones .....	37	Miner .....	1	1	...	...	Legs broken .....	Falling slate .....	Fort Branch .....	Gibson.
April 8	Wm. Bridgewater .....	20	Driver .....	...	...	...	7	Back .....	Falling slate .....	Lawton .....	Vigo.
April 10	Wade Turner .....	25	Driver .....	1	...	...	18	Back and hips .....	Car and rib .....	Vandalia No. 5 .....	Greene.
April 10	George Vatrul .....	34	Miner .....	1	2	...	41	Face and shoulder .....	Went back on fuse .....	Latta's Creek .....	Greene.
April 10	Harry Johnson .....	30	Driver .....	1	2	...	18	Hips crushed .....	Mine car and mule .....	Miami No. 4 .....	Vigo.
April 13	Alphonso Bernard .....	29	Loader .....	1	2	...	30	Toe broken .....	Falling coal .....	Vandalia No. 10 .....	Sullivan.
April 14	Walter Gilchrist .....	28	Machine helper .....	1	...	...	...	Leg broken .....	Falling coal .....	Glen Ayr .....	Vigo.
April 17	James Chaney .....	33	Driver .....	1	...	...	19	3 ribs broken .....	Mine cars .....	Mary No. 1 .....	Parke.
April 17	Ras Smith .....	40	Machine helper .....	1	...	...	10	Shoulder injured .....	Falling coal .....	Union .....	Sullivan.
April 17	Fred Funk .....	23	Machine helper .....	...	...	...	35	Foot cut .....	Mine bitt .....	Domestic block .....	Vigo.
April 19	Pearl Adams .....	23	Driver .....	...	...	...	...	Teeth knocked out .....	Kicked by mule .....	Phoenix No. 4 .....	Sullivan.
April 19	Ed. M. Inglett .....	59	Miner .....	...	...	...	...	Collar bone .....	Falling coal .....	Lower Vein .....	Vigo.
April 20	Will Parrish .....	54	Miner .....	1	...	...	14	Head cut .....	Falling slate .....	Parke No. 11 .....	Parke.
April 20	Mahlon Ellingsworth .....	33	Timberman .....	1	3	...	...	Back injured .....	Falling slate .....	Calora .....	Greene.
April 20	Pete Myers .....	20	Driver .....	1	...	1	...	Foot and ankle .....	Mine car and rib .....	Minshall .....	Vigo.
April 23	Lee Johnson .....	32	Driver .....	1	...	...	...	Rib broken .....	Falling coal .....	Knox .....	Knox.
April 26	George Harvey .....	24	Loader .....	1	2	...	...	Shoulders .....	Falling slate .....	Calora .....	Greene.

April 26	James Scott	18	Driver		21	Foot broken.	Mine car	Freeman	Knox.
April 26	John Mellon	27	Machine runner	1 1	25	Foot crushed.	Falling slate.	Grant No. 3.	Vigo.
April 26	John Waugh	40	Miner	1 3	21	Ribs and shoulder blade broken	Falling coal.	Miami No. 2	Vigo.
April 27	John Peters	41	Pumper			Legs injured.	Motor and mine car.	Vandalia No. 10.	Sullivan.
April 27	James Lyman	21	Driver			Stomach.	Kicked by mule.	Keystone.	Sullivan.
April 29	Alonso Grant	43	Shot firer.	1 3		Face burned.	Powder gases.	Sunnyside.	Vanderburgh.
April 29	James McNutt	47	Shot firer.	1 3		Face and hands burned.	Powder gases.	Sunnyside.	Vanderburgh.
April 30	Adolph Delaise	36	Loader.	1	7	Back injured.	Falling slate.	Vandalia No. 3.	Greene.
May 1	Grover Day	25	Fireman			Shoulder dislocated.	Valve blown off steam pipe.	Vandalia No. 316.	Parke.
May 1	Marve City	36	Driver			Ribs fractured.	Kicked by mule.	Vivian No. 2.	Clay.
May 1	Angelo Bancei.	43	Loader.	1 3		Ankle dislocated.	Falling slate.	Crown Hill No. 3.	Vermillion.
May 3	Thomas D. Jones.	56	Loader.			Hand mashed.	Falling coal.	Grant No. 3.	Vigo.
May 7	Joe Maslauski.	23	Driver			Shoulder injured.	Mine car and mule.	Vandalia No. 6.	Greene.
May 7	Emmet Gentry.	32	Cager	1 2	11	2 fingers broken	Coal falling down shaft.	Vandalia No. 8.	Greene.
May 7	Elmer Fiscus.	33	Loader.	1 3	7	Back injured.	Falling slate.	Grant No. 3.	Vigo.
May 7	Michel Higgins.	32	Miner	1	35	Eye injured.	Struck with coal pick.	Lawton.	Vigo.
May 10	Charles Mullins.		Load dropper.	1 3	8	Knee mashed.	Mine cars.	Island Valley No. 4.	Clay.
May 11	Len Smith.	27	Driver	1 3	30	Back and thigh.	Mine cars.	Island Valley No. 4.	Clay.
May 11	Shelby Evans.		Trapper			Lost an eye.	Electric shock.	Ind. Con. No. 25.	Sullivan.
May 11	John Rodman.	43	Car trimmer	1 2	86	Foot fractured.	Car	Little Giant.	Sullivan.
May 12	Roll. Terrill.	30	Miner	1 3		Foot broken.	Falling slate.	Little Giant.	Sullivan.
May 13	Wm. C. Ratcliff.	29	Driver	1 2		Leg broken.	Falling coal.	Little Giant.	Sullivan.
May 13	John Morrison.	41	Miner	1	21	Hand broken.	Falling coal.	Glen Ayr.	Vigo.
May 14	W. B. Ward.	40	Miner		17	Foot injured.	Stepped on nail.	De Forest.	Vigo.
May 15	Samuel Miller.	23	Loader.	1		Collar bone broken.	Falling slate.	Gilmour.	Greene.
May 17	John Cunningham.	27	Machine helper			Rib fractured.	Mining machine.	Glen Ayr.	Vigo.
May 18	Everet Chambers.	41	Fireman	1		Ankle injured.	Miscellaneous.	Reliance.	Sullivan.
May 18	William Crawford.	25	Driver	1 1	21	Face, hands burned.	Mine car and mule.	Indiana Con. No. 25.	Sullivan.
May 18	Gay Ellison.	16	Miner			Face, hands burned.	Explosion of powder.	Little Giant.	Sullivan.
May 18	Henry Givister.	26	Miner			Head burned.	Explosion of powder.	Little Giant.	Sullivan.
May 18	Dan Ellison.	50	Miner	1 2		Head injured.	Explosion of powder.	Little Giant.	Sullivan.
May 19	Wm. A. Parrish.	54	Miner	1		Head injured.	Miscellaneous.	Parke No. 11.	Parke.
May 20	John Corres.	30	Miner			Head injured.	Coal pick.	Little Giant.	Sullivan.
May 20	Robert Pen.	15	Miner		14	Finger mashed.	Mining machine.	Grant No. 2.	Vigo.
May 21	Pat Brannon.	25	Boss Driver.			Foot crushed.	Mine cars.	De Forest.	Vigo.
May 22	Dave Dowdell.	37	Flat trimmer.	1 3	9	Leg injured.	Miscellaneous.	Phoenix No. 4.	Sullivan.
May 24	James H. Eddy.		Driver.	1 1		Breast injured.	Mine cars.	Citizens.	Sullivan.
May 24	John Vargo.	37	Machine runner.	1 6		Hips and leg.	Falling slate.	Crown Hill No. 3.	Vermillion.
May 25	Joel Gomer.	29	Driver	1 1		Foot broken.	Mine cars.	Ind. Con. No. 33.	Sullivan.
May 25	John Kinsner.	28	Miner	1 2		Back and foot.	Falling top coal.	Vandalia No. 69.	Vigo.
May 26	James Thompson.	22	Driver	1 1		Back injured.	Mine cars.	Green Valley.	Greene.
May 26	James Green.	40	Miner	1 3	23	Hips injured.	Falling slate.	De Forrest.	Vigo.
May 28	Charles Helleges.	23	Miner		14	Body bruised.	Falling slate.	Wizard.	Clay.
May 28	W. H. Jackson.	37	Top boss.	1 3	81	Bone crushed.	Railroad cars.	Vandalia No. 9.	Greene.
May 28	Ray Tribble.	17	Loader.		60	Leg broken.	Falling slate.	Grant No. 3.	Vigo.
May 29	Eliza Helton.	17	Miner	1 2		Two ribs broken.	Falling coal.	Brasil Block No. 4.	Clay.
June 1	William Barrows	28	Driver		6	Arm broken.	Falling slate.	Miami No. 3.	Vigo.

TABLE OF SERIOUS ACCIDENTS—Continued.

Date.	NAME.	Age.	Occupation.	DEPENDENTS.				Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.	Days Lost.				
June 2	Wm. Hathaway.	35	Driver.	1	1		10	Hand mashed.	Tail chain and prop.	Jackson Hill No. 2.	Sullivan.
June 2	James Smith.	50	Miner.	1	5		28	Back injured.	Falling slate.	Wizard.	Clay.
June 2	Wm. Brown.	26	Jerryman.	1				Arm cut.	Falling timbers.	Crown Hill No. 1.	Vermillion.
June 2	James Brumno.	35	Jerryman.				6	Hand cut.	Drill bitt.	Grant No. 3.	Vigo.
June 3	Elijah Lucas.	30	Miner.	1	2			Neck and shoulders.	Falling coal.	Crawford No. 10.	Clay.
June 3	Wm. Huffman.	47	Loader.	1	1			Leg broken.	Falling slate.	Grant No. 3.	Vigo.
June 5	Taylor Hill.	21	Miner.		1			Foot and ankle mashed.	Falling coal.	Ray No. 2.	Vigo.
June 5	Job Wallon.	32	Loader.	1				Head and face cut.	Miscellaneous.	Green Valley.	Greene.
June 5	Oye Butler.	20	Driver.					Back injured.	Mine car.	Gilmour.	Greene.
June 8	Charles Shadley.	23	Rope rider.					Arm mashed.	Mine cars.	Parke No. 11.	Parke.
June 7	Wm. Beek.	36	Miner.	1	1			Ribs fractured.	Falling slate.	Miami No. 3.	Vigo.
June 10	Thomas Cregg.	21	Driver.					Back injured.	Mine car.	Pittsburg No. 1.	Vigo.
June 10	John Thomas.	29	Cager.	1	3			Finger mashed off.	Mine car and timbers.	De Forrest.	Vigo.
June 11	Ralph Johnson.	19	Driver.					Side injured.	Falling slate.	Indiana Con. No. 33.	Sullivan.
June 11	Earl Godfrey.	26	Miner.	1			38	Foot mashed.	Falling coal.	Keystone.	Sullivan.
June 12	Fred M. Woods.	28	Miner.		1	1		Head and leg.	Draw slate.	Lawton.	Vigo.
June 14	McColough.	23	Loader.					Hips, stomach and bowels.	Falling slate.	Island Valley No. 4.	Clay.
June 14	Cecil Craig.	24	Driver.	1	1		9	Hips injured.	Mine car and prop.	Vandalia No. 8.	Greene.
June 14	Marmon Boger.	16	Loader.					Arm fractured.	Mine car and prop.	Phoenix No. 4.	Sullivan.
June 14	Nels Pecosta.	35	Track layer.					Hips and legs.	Mine car and rib.	Crown Hill No. 2.	Vermillion.
June 20	Wm. Cunningham.	29	Timberman.	1				Jaw bone broken.	Falling timbers.	Summit No. 2.	Greene.
June 21	Robert Wilson.	33	Miner.		6		7	Foot mashed.	Falling slate.	Latta's Creek.	Greene.
June 21	Grover Cragger.	22	Top man.				23	Foot injured.	Stepped on nail.	Vandalia No. 10.	Sullivan.
June 21	Bert Price.	24	Driver.	1	2			Rib broken.	Falling boulder.	Buckeye.	Vermillion.
June 21	George Scott.	22	Machine helper.					Head and foot.	Falling coal.	Glen Ayr.	Vigo.
June 22	Roy Edwards.	21	Driver.	1	1		20	Chest and shoulders.	Mine car and roof.	Vandalia No. 8.	Greene.
June 22	Harry Merrigold.	24	Driver.					Three ribs broken.	Kicked by mule.	Ind. Con. No. 33.	Sullivan.
June 23	Wm. Vaughn.	32	Machine runner.		2			Body bruises.	Falling slate.	Wabash.	Vigo.
June 23	Ira Dickerson.	50	Loader.	1	3			Head and back.	Falling slate.	Vandalia No. 9.	Greene.
June 23	H. P. Shields.	30	Machine helper.	1	1			Back injured.	Falling slate.	Polk No. 5.	Warrick.
June 23	Ora Sparks.	27	Driver.	1			21	Hand injured.	Hand injured.	Ind. Con. No. 25.	Sullivan.
June 23	Alva W. Shields.	23	Machine runner.		1			Back injured.	Falling slate.	Polk No. 5.	Warrick.
June 24	Louis Costa.	30	Miner.	1	2	2		Left leg.	Engineer lost control of cage.	Klondyke.	Vermillion.
June 24	Emil Yonson.		Miner.					Both legs fractured.	Engineer lost control of cage.	Klondyke.	Vermillion.
June 24	Charles Predis.	49	Miner.	1	1			Ankle, knee and neck.	Control of cage.	Klondyke.	Vermillion.
June 24	Frank Casorota.	29	Miner.	1		1		Back injured.	Engineer lost control of cage.	Klondyke.	Vermillion.

June 24	George Kapolo	29	Miner	1	2	1	Fractured ankle	Engineer lost control of cage	Klondyke	Vermillion.
June 24	John Barron		Miner				Concussion of brain	Engineer lost control of cage	Klondyke	Vermillion.
June 24	Frank Neimeien	27	Miner	1	3	1	Right ankle dislocated	Engineer lost control of cage	Klondyke	Vermillion.
June 24	Joe Suboleski		Miner				Right leg fractured	Engineer lost control of cage	Klondyke	Vermillion.
June 24	Frank Norda	34	Miner	1	5	1	Left leg compound fracture	Engineer lost control of cage	Klondyke	Vermillion.
June 24	Victor Bonucci	21	Miner				Left leg fractured	Engineer lost control of cage	Klondyke	Vermillion.
June 24	John Stella	25	Miner	1	1		Ribs fractured	Engineer lost control of cage	Klondyke	Vermillion.
June 25	Wm. Brannon	19	Driver				Crushed in chest	Mine car and rib	Forrest	Vigo.
June 25	Robert Stalcup	27	Miner	1	1		Collar bone and ribs broken	Falling slate	Miami No. 1	Vigo.
June 25	Louis Baker	22	Driver	1			Side and back	Falling slate	Miami No. 1	Vigo.
June 27	Saml Ashby	28	Driver	1			Left arm broken	Falling slate	Caledonia	Warrick.
June 28	Benson Jewel	41	Machine helper	1			Foot injured	Machine pick	Plymouth No. 1	Vigo.
June 29	George Phillips	40	Machine runner		2		Hand mashed	Mining machine	Parke No. 11	Parke.
June 30	Allen Brown	26	Track layer				Foot injured	Slipped on nail	Wabash	Vigo.
July 1	Louis Georges	42	Miner				Head injured	Mine door	Elberfeld	Warrick.
July 2	Saml Roebuck	32	Fire boss	1	3		Rib fractured	Mine car	Vandalia No. 10	Sullivan.
July 2	Frank Wisner	38	Miner	1			Legs crushed	Falling coal	Freeman	Knox.
July 2	W. B. Winterbottom	55	Fire boss	1	4		Foot and leg		Fauvre No. 2	Vigo.
July 3	Frank Martin	17	Loader				Back	Falling slate	Reliance	Sullivan.
July 6	Harley Shepard	17	Driver				Hip dislocated	Mine cars	Knox	Knox.
July 6	Paul Cotton	38	Loader	1	1		Back injured	Mine cars, prop	Vandalia No. 9	Greene.
July 7	Thomas Baughman	23	Miner	1	1		Ankle broken	Falling slate	Consolidated No. 25	Sullivan.
July 7	Thomas Skinner	19	Driver				Back injured	Mine cars	Gilmour	Greene.
July 8	Clarence Ladron	23	Topman				Finger broken	Engine gear	Rainbow	Sullivan.
July 9	William Sheridan	38	Machine helper	1	3		Foot mashed	Machine bar	Consolidated No. 30	Sullivan.
July 10	John Atkinson	31	Miner	1	2		Back injured	Falling coal	Miami No. 1	Vigo.
July 10	Wesley Webster	56	Miner	1	2		Arm broken	Falling slate	Miami No. 1	Vigo.
July 12	Henry Haines	49	Trackman	1	1		Ribs broken	Falling slate	Lawton	Vigo.
July 13	Charles Secrest	20	Driver	1			Leg broken	Falling slate	Gilmour	Greene.
July 13	David Brassman	33	Driver	1	3		Head cut	Falling slate	Ray No. 2	Vigo.
July 14	Andy Vanhook	50	Jerry	1			Ankle dislocated	Falling slate	Superior No. 5	Parke.
July 15	George Bare	38	Machine runner	1	3		Foot mashed	Machine truck	Island Valley No. 4	Clay.
July 16	Homer Inman	28	Loader	1	1		Leg fractured	Mine cars	Latta's Creek	Greene.
July 16	James Deihl	52	Topman	1			Finger off		Plymouth No. 1	Vigo.
July 17	George Miller		Timberman	1	2		Leg broken	Crossbar	Ind. Bk. No. 1	Clay.
July 19	Andrew Castle	38	Jerry	1	5		Arms, face burned	Powder explosion	Superior No. 5	Parke.
July 19	Charles Bernady	41	Miner	1	7		Arms, face burned	Powder explosion	Superior No. 5	Parke.
July 19	Roe Brown	48	Loader	1	5		Back injured	Mine cars	Dering No. 13	Sullivan.
July 20	Claud Lawger	33	Machine runner	1	3		Finger off	Machine jack	Latta's Creek	Greene.
July 21	James Lundy	42	Loader				Nose broken	Falling slate	Latta's Creek	Greene.
July 21	Saml Chaney	53	Loader	1	1		Leg broken	Falling slate	Mary No. 1	Parke.
July 23	Wm. Cox	24	Driver				Crushed chest	Mine cars	Oswald	Gibson.
July 27	Saml Ringo	22	Driver				Foot broken	Mine car	Consolidated No. 25	Sullivan.
July 28	W. H. Arnold	32	Mine superintend't				Face, hands, arms burned	Fire damp	Bellevue	Sullivan.
July 28	Thomas St. Clair	55	Timberman		2		Face, arms, hands burned	Fire damp	Bellevue	Sullivan.
July 29	James Jones	18	Water bailer				Arm burned	Fire damp	Knox	Knox.
July 30	Thomas Stanley	33	Miner				Back and face burned	Fire damp	Keystone	Sullivan.
July 30	John Boyd	23	Driver		2		Foot broken	Mine cars	Miami No. 3	Vigo.

TABLE OF SERIOUS ACCIDENTS—Continued.

Date.	NAME.	Age.	Occupation.	DEPENDENTS.				Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.	Days Lost.				
Aug. 2	James Beatty	27	Machine helper.	1	2			Hand mashed.	Mining machine.	Black hawk.	Sullivan.
Aug. 2	Charles Cole	24	Trip rider.					Arm broken.	Falling slate.	Latta's Creek.	Greene.
Aug. 3	Wm. Stineberger.	42	Jerry.	1				Hip dislocated.	Car and ribs.	Vandalia No. 67.	Vigo.
Aug. 4	Cliff Jackson.	30	Driver.	1				Arm and side.	Mine cars.	Vandalia No. 69.	Vigo.
Aug. 4	Phil Krufing.	15	Miner.					Arms and abdomen burned.	Flames from shot.	Klondyke.	Vermillion.
Aug. 4	Robert Robeson.	25	Driver.					Hips injured.	Fell off tail chain.	Vandalia No. 316.	Parke.
Aug. 4	Herbert Jukes.	30	Fireman.					Foot scalded.	Hot water.	Parke No. 11.	Parke.
Aug. 5	Bert Christie.	30	Dumper.	1	1			Hips crushed.	Conveyor.	Vandalia No. 5.	Greene.
Aug. 5	Elmer Steward.	25	Driver.	1	1			Hand mashed.	Mine cars.	Crawford No. 6.	Clay.
Aug. 6	Clifford Allen.	20	Miner.					Thumb broken.	Falling slate.	Lawton.	Vigo.
Aug. 6	William Steward.	21	Driver.					Hand mashed.	Mine cars.	Dormestie Block No. 1.	Vigo.
Aug. 7	Orey Booksberry.	17	Miner.					Back.	Falling slate.	Little Giant.	Sullivan.
Aug. 8	John Pelton.	27	Timberman.	1	2			Foot mashed.	Axe.	Lyford No. 1.	Parke.
Aug. 9	James J. Johnson.	33	Machinist.					Back.	Falling slate.	Minshall.	Vigo.
Aug. 10	Herbert Jackson.	36	Machine runner.	1	2			Arm and foot.	Falling slate.	Little Giant.	Sullivan.
Aug. 11	Mark Price.	19	Driver.					Leg injured.	Mine car.	Glen Ayre.	Vigo.
Aug. 12	Clarence Joyce.	23	Driver.	1	1			Hand mashed.	Mine car.	Island Valley No. 4.	Clay.
Aug. 13	John Stearley.	20	Driver.					Hand mashed.	Car and rib.	Dormestie Block No. 1.	Vigo.
Aug. 13	Stanko Maslauski.	20	Driver.					Jaw bone and leg broken.	Mine car.	Vandalia No. 8.	Greene.
Aug. 13	C. E. Perry.	47	Loader.	1	1			Hips injured.	Falling slate.	Crown Hill No. 3.	Vermillion.
Aug. 14	D. M. Roberts.	50	Cager.	1				Leg injured.	Car and prop.	Knox.	Knox.
Aug. 14	Frank Jones.	40	Timberman.					Head cut.	Falling slate.	Clover Leaf.	Vigo.
Aug. 16	Soot Ehrhart.	53	Miner.	1				Hips injured.	Falling slate.	Crawford No. 9.	Clay.
Aug. 16	S. T. Ogden.	48	Machine helper.	1	6			Hand mashed.	Mining machine.	Fauvre No. 2.	Vigo.
Aug. 17	Lon Burden.	29	Jerry.	1	1			Hips.	Mine car.	Jackson Hill No. g.	Sullivan.
Aug. 17	John Webber.	40	Weighboss.	1	2			Pack.	Fell down chute.	Twin No. 4.	Greene.
Aug. 17	Pete Duffy.	20	Miner.	1				Finger broken.	Falling slate.	Superior No. 5.	Clay.
Aug. 18	George Keschela.	58	Miner.	1	5			Two ribs broken.	Falling slate.	Vandalia No. 8.	Greene.
Aug. 18	Roy Coulter.	22	Driver.					Ribs broken.	Roof and mine car.	Vandalia No. 9.	Greene.
Aug. 19	John Bateman.	19	Driver.					Leg broken.	Mine cars.	Black Creek.	Knox.
Aug. 20	Ben Remington.	40	Loader.	1	1			Foot trashed.	Falling coal.	Freeman.	Knox.
Aug. 20	F. Cunningham.	38	Shiftboss.	1	4			Rib broken.	Falling slate.	Latta's Creek.	Greene.
Aug. 20	Robert Hinkle.	55	Miner.	1	2			Foot and side.	Falling coal.	Enterrise.	Greene.
Aug. 21	William McWhiney.	39	Electrician.					One rib broken.	Mining machine.	Consolidated No. 33.	Sullivan.
Aug. 21	John Alexander.	50	Miner.	1				Side injured.	Falling slate.	Vandalia No. 69.	Vigo.
Aug. 21		29	Miner.	1	2			Knee.	Falling slate.	Wabash.	Vigo.



Aug. 23	Dan Feldwick	33	Machine helper.	1			Foot mashed.	Falling coal	Big Four	Warrick.
Aug. 24	Fred Crawford.	33	Machine helper.	1	2		Hip and back.	Falling slate.	Consolidated No. 25.	Sullivan.
Aug. 24	Herb Compton.	31	Miner.	1	1		Head injured.	Falling slate.	Forrest.	Vigo.
Aug. 26	Albert Parrish.	39	Loader.	1	3		Arm and breast.	Falling slate.	Domestic Block No. 1	Vigo.
Aug. 29	Al Webster.	38	Miner.	1	1		Hips injured.	Shot through pillar.	Vandalia No. 9.	Greene.
Aug. 27	George Sargent.	48	Fire boss.	1			Face and hands burned.	Fire damp.	Phoenix No. 4.	Sullivan.
Aug. 27	Harry Longstaff.	32	Machine Runner.	1	2		Back and legs.	Shot through pillar.	Vandalia No. 9.	Greene.
Aug. 28	Grover Merelith.	24	Driver.	1	2		Hips and thigh.	Mine cars.	Island Valley No. 4.	Clay.
Aug. 29	Ernest Johnson.	32	Roadman.	1	1		Back and ankle.	Falling slate.	Crown Hill No. 2.	Vermillion.
Aug. 31	William Priest.	23	Driver.	1			Bruised chest.	Car and roof.	Green Valley.	Greene.
Aug. 31	Frank Littleton.	31	Miner.	1			Jaw fractured.	Falling slate.	Vandalia No. 9.	Greene.
Sept. 3	Orville Watson.	32	Loader.	1			Hand mashed.	Mine car.	Phoenix No. 4.	Sullivan.
Sept. 4	Lewis Roberts.	21	Loader.	1			Ankle crushed.	Falling slate.	Vandalia No. 21.	Greene.
Sept. 4	Robert Fowler.	15	Trapper.	1			Thumb broken.	Mine cars.	Vandalia No. 5.	Greene.
Sept. 4	William Purcell.	28	Driver.	1			Knee.	Mule.	Summit No. 2.	Greene.
Sept. 4	Albert Fenny.	32	Driver.	1			Finger off.	Mine car.	Jackson Hill No. 2.	Sullivan.
Sept. 4	George Goldman.	45	Miner.	1			Leg crushed.	Drilling machine.	Deep Vein.	Vigo.
Sept. 6	Edward Dureffer.	23	Miner.	1			Foot mashed.	Mine car.	Superior No. 4.	Clay.
Sept. 7	Frank Richardson.	39	Loader.	1			Elbow broken.	Falling slate.	Kettle Creek.	Sullivan.
Sept. 7	S. C. Risher.	58	Superintendent.	1	7		Back and leg.	Falling slate.	Forrest.	Vigo.
Sept. 8	Joseph Bradley.	16	Driver.	1			Face injured.	Falling slate.	Twin No. 4.	Greene.
Sept. 9	Archie Maxwell.	25	Bottom shooter.	1			Arm and shoulder.	Falling slate.	Brazil No. 4.	Clay.
Sept. 9	Richard Brane.	33	Machine runner.	1			Foot mashed.	Mining machine.	Little Giant.	Sullivan.
Sept. 9	J. R. Jones.	32	Driver.	1	2		Ankle crushed.	Mine car.	Miami No. 2.	Vigo.
Sept. 9	Andrew Cutter.	53	Loader.	1	5		Hand mashed.	Mine car.	Grant No. 3.	Vigo.
Sept. 9	Ellis Hester.	22	Driver.	1			Hip and thigh.	Mine car.	Elberfeld.	Warrick.
Sept. 11	John Arnsamine.	53	Miner.	1	5		Chest and leg.	Mine car.	Atherton.	Vigo.
Sept. 11	William Strachan.	33	Shot firer.	1			Face, hands burned.	Explosion fire damp.	Wabash.	Vigo.
Sept. 12	John Moss.	35	Timberman.	1			Toe broken.	Falling slate.	Deep Vein.	Vigo.
Sept. 13	J. J. Cliff.	70	Miner.	1			Head, eyes injured.	Falling slate.	Superior No. 5.	Clay.
Sept. 13	John Clark.	51	Loader.	1	2		Leg fractured.	Falling slate.	Reliance.	Sullivan.
Sept. 13	Alfred Walker.	32	Driver.	1	2		Hips injured.	Mine cars.	Atherton.	Vigo.
Sept. 13	Walter Green.	32	Pumper.	1	11		Side and hip.	Falling slate.	Forrest.	Vigo.
Sept. 13	Ernest V. Falls.	17	Machine helper.	1			Foot mashed.	Mining machine.	Grant No. 3.	Vigo.
Sept. 14	Roy Cunningham.	17	Driver.	1			Ankle broken.	Mine car.	Sponsler.	Greene.
Sept. 14	Park Busher.	68	Car trimmer.	1			Foot mashed.	Falling coal.	Rainbow.	Sullivan.
Sept. 14	Floyd Jewel.	19	Miner.	1			Leg broken.	Falling coal.	Vandalia No. 81.	Vigo.
Sept. 15	Victor Lefever.	50	Miner.	1	4	14	Finger cut off.	Falling coal.	Sponsler.	Greene.
Sept. 15	Eara Roberts.	28	Loader.	1	1	30	Hand mashed.	Falling coal.	Green Valley.	Greene.
Sept. 15	David Book.	35	Loader.	1			Wrist broken.	Falling coal.	Ind. Con. No. 33.	Sullivan.
Sept. 15	John Camp.	45	Miner.	1	2	35	Ribs broken.	Falling coal.	Oswald.	Gibson.
Sept. 16	Charles Frasure.	43	Miner.	1	9		Foot injured.	Falling slate.	Brazil No. 1.	Clay.
Sept. 16	Frank Lenn.	39	Machine runner.	1			Ankle mashed.	Falling slate.	Peacock.	Pike.
Sept. 16	William Wilt.	24	Driver.	1	1		Leg injured.	Nail in track.	Jackson Hill No. 2.	Sullivan.
Sept. 17	Steve Butler.	54	Loader.	1	1	7	Foot mashed.	Falling coal.	Vandalia No. 5.	Greene.
Sept. 17	Richard Basley.	26	Driver.	1			Leg injured.	Kicked by mule.	Vandalia No. 317.	Parke.
Sept. 17	Pete Hardesty.	30	Fire boss.	1			Face and hands burned.	Explosion fire damp.	Shirley Hill No. 1.	Sullivan.
Sept. 17	Maurie Beon.	25	Driver.	1	1		Face and hands burned.	Explosion fire damp.	Shirley Hill No. 1.	Sullivan.

TABLE OF SERIOUS ACCIDENTS—Continued.

Date.	NAME.	Age.	Occupation.	DEPENDENTS.			Days Lost.	Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.					
Sept. 18	Wm. Keltner	19	Driver					Leg mashed.	Mine cars	Vandalia No. 317	Parke.
Sept. 18	Earl Pollen	21	Driver					Foot mashed.	Mine car and rib	Klondyke	Vermillion.
Sept. 18	George M. Perry	49	Miner	1	4		7	Hips injured.	Falling slate.	Crown Hill No. 1	Vermillion.
Sept. 20	Thomas Nolan	23	Driver					Chest injured.	Kicked by mule.	Freeman	Knox.
Sept. 20	Bert Hooker	24	Machine helper	1				Ribs broken.	Mining machine	Grant No. 3	Vigo.
Sept. 21	Robert Davidson	27	Timberman					Back, leg, ribs	Falling slate.	Union	Sullivan.
Sept. 23	Joe Howell	27	Jerry	1	1			Back injured	Falling slate.	Dering No. 8	Vermillion.
Sept. 25	Thomas Wirt	34	Driver	1	2		35	Back, leg, hand	Falling slate.	Plymouth No. 1	Vigo.
Sept. 25	Dow Cleghorn	18	Loader					Head and neck burned.	Explosion of powder	Parke No. 11	Parke.
Sept. 25	E. Baldwin		Trip rider	1	3			Fingers broken.	Falling slate.	Wabash	Vigo.
Sept. 27	Daniel Vote	24	Driver	1				Foot mashed.	Mine cars	Crown Hill No. 1	Vermillion.
Sept. 27	I. E. Newcome	44	Machine runner	1	6			Leg injured.	Mining machine	Lyford No. 1	Parke.
Sept. 27	William Bolin	24	Driver					Nose broken.	Kicked by mule	Ayrshire No. 5	Pike.
Sept. 27	Andrew Sisco	22	Driver					Hand mashed.	Mine car	Buckeye	Vermillion.
Sept. 28	Leslie Reynolds	22	Driver					Thumb broken.	Kicked by mule	Wizard	Clay.
Sept. 28	W. E. Radlus	41	Electrician	1	5			Rib broken.	Mine motor.	Dering No. 14	Sullivan.
Sept. 28	Wm. S. Mahan	44	Machine runner	1	5			Foot mashed.	Mining machine	Consolidated No. 30	Sullivan.
Sept. 28	Walter Jeffrey	21	Driver					Hand mashed.	Mine car	Consolidated No. 33	Sullivan.
Sept. 28	James E. Bader	25	Machine runner	1	2			Arm and breast.	Mining machine	Grant No. 3	Vigo.
Sept. 29	James Johnson	35	Driver	1				Arm and breast.	Mine car	Freeman	Knox.
Sept. 29	W. A. Carpenter	53	Loader	1	6			Back injured.	Falling slate.	Reliance	Sullivan.
Sept. 29	John Pastria	34	Machine runner	1	1			Hand mashed.	Mining machine	Crown Hill No. 3	Vermillion.
Sept. 29	Frank Edington	49	Track man	1				Back injured.	Falling slate.	Crown Hill No. 3	Vermillion.
Sept. 30	W. R. Boles	65	Jerryman	1	3			Arm broken.	Falling coal.	Rainbow	Sullivan.
Sept. 30	Oscar Phillips	29	Driver	1				Fingers mashed.	Mine car	Jackson Hill No. 4	Sullivan.
Sept. 30	Charles Chesterfield	23	Driver					Hip injured.	Mine cars	Crown Hill No. 3	Vermillion.
Sept. 30	Roy Haines	20	Machine helper	1				Eye injured.	Pit lamp	Grant No. 3	Vigo.
Oct. 1	James Darnell	24	Miner					Back and arm	Falling slate.	Lawton	Vigo.
Oct. 1	Millard McNealy	33	Driver	1				Foot mashed.	Mine car	Vandalia No. 69	Vigo.
Oct. 1	Lem Hogger	27	Machine runner					Foot broken.	Mining machine	Jackson Hill No. 4	Sullivan.
Oct. 1	Charles Stergan	19	Miner					Foot mashed.	Falling slate.	Vandalia No. 316	Parke.
Oct. 2	Fred Klingner	60	Miner					Leg broken.	Windy shot	Ingleside	Vanderburgh.
Oct. 2	Lawrence Swillorsioik	33	Loader	1	4			Foot mashed.	Mining machine	Latta's Creek	Greene.
Oct. 2	Joseph Will	22	Loader					Leg broken.	Falling slate.	Latta's Creek	Greene.
Oct. 3	W. D. Van Horn	45	Miner					Foot mashed.	Falling coal.	Pittsburg No. 1	Vigo.
Oct. 3	Pete S. Hull	21	Driver					Arm mashed.	Mine car and mule	Pittsburg No. 1	Vigo.

Oct. 3	Thomas Gregg	21	Driver			Back injured	Mine car	Pittsburg No. 1	Vigo.
Oct. 3	Pat Crane	38	Timberman			Leg injured	Falling crossbar	Crown Hill No. 3	Vermillion.
Oct. 4	John Wilson	26	Driver			Leg injured	Mine car	Phoenix No. 4	Sullivan.
Oct. 4	Walter Shade	22	Driver			Teeth out	Kicked by mule	Oswald	Gibson.
Oct. 4	Mike Urban	26	Machine runner	1		Knee cap split	Mining machine	Mary No. 2	Vigo.
Oct. 5	Walter Jones	20	Loader			Collar bone	Falling slate	Vandalia No. 10	Sullivan.
Oct. 5	Frank Blake	24	Machine runner	1	1	Leg crushed	Mining machine	Vandalia No. 21	Greene.
Oct. 6	Pete Mereta	29	Loader			Leg and hip	Falling slate	Grant No. 3	Vigo.
Oct. 6	C. M. House	33	Top-man			Breast and neck	Mining car	Knox	Knox.
Oct. 7	Clyde Lacer	26	Driver			Legs crushed	Kicked by mule	Caledonia	Warrick.
Oct. 7	John Cryrees	30	Driver	1	3	Legs fractured	Mine car	Dering No. 13	Sullivan.
Oct. 8	Ed. A. Kelton	31	Loader		2	Leg fractured	Falling slate	Reliance	Sullivan.
Oct. 8	Arthur Barnhart	22	Driver			Toe broken	Mine car	Consolidated	Sullivan.
Oct. 8	Raymond Olmie	25	Trackman			Leg injured	Mine car	Mary No. 1	Parke.
Oct. 8	Ervin Singer	21	Loader			Abdomen	Falling slate	Calora	Greene.
Oct. 9	Burt Coonrad	27	Machine runner			Side injured	Falling slate	Freeman	Knox.
Oct. 9	Ollie Huff	22	Driver			Foot broken	Miscellaneous	Calora	Greene.
Oct. 9	James Allsip	59	Miner	1	2	Toe broken	Falling coal	Crawford No. 6	Clay.
Oct. 11	John Miller	30	Driver			Foot crushed	Mine car	Bicknell	Knox.
Oct. 13	Frank Mulis	22	Driver			Finger mashed	Mine car and rib	Twin No. 4	Greene.
Oct. 13	Henry Buck	45	Loader	1	2	Ribs fractured	Miscellaneous	Phoenix No. 4	Sullivan.
Oct. 13	Cecil Brock	16	Trapper			Hips bruised	Mine cars	Black Creek	Greene.
Oct. 15	J. T. Maxwell	16	Pumper			Arm fractured	Mine car	Vivian No. 2	Clay.
Oct. 15	James Everett	42	Machine runner	1	4	Ribs fractured	Mining machine	Glen Ayre No. 1	Vigo.
Oct. 15	William Keller	35	Miner	1	3	Shoulder and side	Falling slate	Clover Leaf	Sullivan.
Oct. 15	John Ford	32	Head dropper			Hand mashed	Miscellaneous	Freeman	Knox.
Oct. 15	Charles Morgan	28	Loader	1		Ankle crushed	Falling slate	Vandalia No. 8	Greene.
Oct. 16	C. C. Jeffreys	22	Driver			Two ribs broken	Miscellaneous	Jackson Hill No. 4	Sullivan.
Oct. 16	Henry Squires	53	Loader	1	7	Head and face	Falling slate	Vandalia No. 9	Greene.
Oct. 16	Alva Johnson	18	Trapper			Leg broken	Mine cage	Gilmour	Greene.
Oct. 18	Sant Carico	34	Miner			Hips and head cut	Falling coal	Vandalia No. 67	Vigo.
Oct. 18	Lora Childers	16	Trapper			Head and arms bruised	Explosion of powder	Twin No. 4	Greene.
Oct. 18	James Hodson	23	Miner			Face, neck, arms burned	Explosion powder	Twin No. 4	Greene.
Oct. 19	Lee Hammond	50	Timberman	1	5	Leg broken	Falling slate	Green Valley	Greene.
Oct. 19	E. E. Oberlin	46	Miner			Leg broken	Falling slate	Queen	Greene.
Oct. 19	John Thompson	46	Jerry			Ankle dislocated	Falling slate	Knox	Knox.
Oct. 19	James Suttie	15	Trapper			Foot bruised	Falling coal	Wizard	Clay.
Oct. 19	William Lundson	62	Shot firer	1		Face and hands burned	Explosion fire damp	Reliance	Sullivan.
Oct. 20	Jason Wilson	27	Shot firer			Rib broken	Windy shot	Knox	Knox.
Oct. 20	William Thompson	22	Driver	1	1	Knee sprained	Mine car	Dering No. 13	Sullivan.
Oct. 21	James Turner	28	Miner	1	1	Hand mashed	Falling coal	Wizard	Clay.
Oct. 21	E. G. Lewis	36	Miner	1	4	Rib broken	Mine cage	Grant No. 3	Vigo.
Oct. 22	Oden Puckett	23	Driver			Foot mashed	Falling slate	Island Valley No. 4	Clay.
Oct. 23	J. W. Moss	35	Timberman			Leg broken	Kicked by mule	Deep Vein No. 4	Vigo.
Oct. 25	Bert Peters	24	Driver	1		Wrist sprained	Reliance	Union No. 25	Sullivan.
Oct. 27	Owen Evans	27	Machine runner	1	3	Leg injured	Miscellaneous	Reliance	Sullivan.
Oct. 27	Arthur Banfield	20	Sorvegger			Knee crushed	Mine car	Phoenix No. 4	Sullivan.
Oct. 27	Arthur Keithley	26	Driver	1		Hip and foot bruised	Mine car	Sugar Valley	Vigo.

TABLE OF SERIOUS ACCIDENTS—Continued.

Date.	NAME.	Age.	Occupation.	DEPENDENTS.				Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.	Days Lost.				
Oct. 29	Robert Jacobs	22	Driver					Back injured	Mine cars	Deep Vein No. 4.	Vigo.
Oct. 29	John Barhard	21	Driver					Finger broken	Kicked by mule	Little Giant	Sullivan.
Oct. 29	Lou Hatcher	19	Driver					Hand mashed	Miscellaneous	Latta's Creek	Greene.
Oct. 30	J. P. Boughard	55	Jerry	1	6			Foot broken	Falling slate	Dering No. 13.	Sullivan.
Nov. 1	Charles Young	40	Machine runner					Foot mashed	Mining machine	Glen Ayre No. 1	Vigo.
Nov. 1	Samuel Ashley	37	Driver					Hips bruised	Mine car and rib	Freeman	Knox.
Nov. 1	David Anman	20	Driver					Hand mashed	Mine car	Superior No. 5.	Clay.
Nov. 2	Vachiel Young	36	Driver	1				Finger off	Mine car	Lower Vein	Vigo.
Nov. 2	Thomas Commerson	35	Jerry	1	2			Wrist	Mine car	Miami No. 5.	Vigo.
Nov. 3	Steve Butler	54	Miner	1	1			Hip dislocated	Falling slate	Vandalia No. 5.	Vigo.
Nov. 3	Mike Shelby	19	Driver					Hand cut	Mine car	Superior No. 5.	Clay.
Nov. 4	Mac Luck	32	Shot firer					Hips and legs bruised	Smoke explosion	Klondyke	Vermillion.
Nov. 4	Mac Bunch	23	Driver					Hips injured	Mine cars	Hocking	Sullivan.
Nov. 4	Charles Scheffler	36	Driver					Ankle sprained	Mine car	Consolidated No. 25.	Sullivan.
Nov. 4	Joseph Lisrey	36	Miner	1	1			Ankle sprained	Falling slate	Sponsler	Greene.
Nov. 5	Peter Bernard	64	Miner					Leg bruised	Falling coal	Vandalia No. 67	Vigo.
Nov. 5	Curtis McAltie	23	Driver					Rib fractured	Mine cars and rib	Summit No. 2	Greene.
Nov. 6	P. C. Lawler	40	Miner	1				Head cut	Coal from shot	Glen Ayre No. 1	Vigo.
Nov. 8	Edward Bowen	27	Driver					Hips and chest	Mine car and mule	Vandalia No. 8.	Greene.
Nov. 9	John Busher	40	Miner	1	3			Leg broken	Falling coal	Atherton	Vigo.
Nov. 9	William Hollingsworth	41	Loader					Foot fractured	Falling slate	Freeman	Knox.
Nov. 9	John Emmons	32	Loader					Ribs fractured	Miscellaneous	Freeman	Knox.
Nov. 9	John Gardner	24	Loader					Hand mashed	Miscellaneous	Calora	Greene.
Nov. 11	Ezra Roberts	38	Miner	1	2			Hand mashed	Falling coal	Vandalia No. 67	Vigo.
Nov. 11	Lawrence Evans	31	Driver					Leg injured	Mine car	Elckburn No. 2	Pike.
Nov. 15	Jessie Thomas	33	Miner	1	2			Hip injured	Falling slate	Citizens	Sullivan.
Nov. 15	Perry Roe	22	Driver			1		Leg and ankle sprained	Mine cars	Parke No. 11	Parke.
Nov. 15	George Reichart	17	Miner					Ankle soained	Falling slate	Crawford No. 10.	Clay.
Nov. 16	Walter Butt	38	Driver	1	3			Ankle dislocated	Mine car	Ray No. 2	Vigo.
Nov. 16	Anton Beltrock	35	Miner	1	4			Leg injured	Falling coal	Vandalia No. 67	Vigo.
Nov. 16	Hosea Crosby	18	Loader					Arm dislocated	Falling slate	Mammoth	Sullivan.
Nov. 16	Elmer Pegg	32	Driver	1	2			Head and ear cut	Mine car	Clover Leaf	Sullivan.
Nov. 16	Elmer Hamilton	30	Spragger					Leg cut	Mine car	Mammoth	Sullivan.
Nov. 16	L. J. Tennis	50	Caper	1	3			Fingers broken	Miscellaneous	Dering No. 13.	Sullivan.
Nov. 16	Mike Crushack	25	Driver					Back and shoulders	Falling slate	Queen	Greene.
Nov. 18	John W. Robinson	27	Miner	1	2			Back and shoulders	Falling rock	Vivian No. 2.	Clay.

Nov. 19	Clarence Harpool.	28	Miner.	1	1	Back injured.	Falling coal.	Wabash.	Vigo.
Nov. 19	Domemick Dana.	28	Shot firer.			Face and hands.	Blown out shot.	Crown Hill No. 1.	Vermillion.
Nov. 19	Earl Robinson.	19	Machine helper.			Arm broken.	Falling slate.	Clover Leaf.	Sullivan.
Nov. 19	Charles Clinger.	26	Driver.			Collar bone broken.	Mine car and rib.	Jackson Hill No. 2.	Sullivan.
Nov. 19	Henry Chapman.	24	Driver.			Back.	Mine car.	Tecumseh No. 1.	Knox.
Nov. 20	William Denene.	38	Driver.	1	1	Back.	Mine car.	Electric.	Warrick.
Nov. 20	Theodore Parish.		Miner.			Hand mashed.	Mine car.	Atherton.	Vigo.
Nov. 20	Thomas Cody.	34	Motorman.	1		Hand broken.	Mine motor.	Shirley Hill No. 1.	Sullivan.
Nov. 22	James Hyde.	39	Shot firer.	1	3	Head and shoulders cut.	Shot through pillar.	Ray No. 2.	Vigo.
Nov. 24	Butler Smiser.	26	Driver.	1		Two ribs broken.	Kicked by mule.	Knox.	Knox.
Nov. 24	John Harris.	21	Jerry.			Foot mashed.	Mine car.	Crawford No. 10.	Clay.
Nov. 27	Arthur Peek.	20	Driver.	1	1	Injured internally.	Kicked by mule.	Crown Hill No. 2.	Vermillion.
Nov. 27	Gus Letto.	18	Driver.			Ribs broken.	Kicked by mule.	Consolidated No. 33.	Sullivan.
Nov. 29	William Morgan.	32	Driver.	1	2	Hips and leg.	Mine cars.	Pittsburgh No. 1.	Vigo.
Nov. 29	Jessie Walford.	19	Driver.		1	Back and hips.	Falling slate.	Gilmour.	Greene.
Nov. 30	John Broady.	22	Driver.			Leg.	Mine car.	Jackson Hill No. 4.	Sullivan.
Nov. 30	James Denwiddle.	28	Miner.			Face and hands.	Explosion fire damp.	Wabash.	Vigo.
Nov. 30	Thomas Ganger.	20	Driver.			Finger off.	Mine car.	Consolidated No. 30.	Sullivan.
Dec. 1	Emil Koman.	23	Shot firer.	1		Face and hands burned.	Smoke explosion.	Crown Hill No. 3.	Vermillion.
Dec. 1	Cecil Johnson.	20	Miner.			Hand mashed.	Mine car.	Vandalia No. 316.	Parke.
Dec. 2	Mart Conder.	40	Machine runner.	1	7	Leg broken.	Miscellaneous.	Ayrshire No. 5.	Pike.
Dec. 3	Robert Moore.	20	Miner.			Foot broken.	Mine cage.	Sargent.	Warrick.
Dec. 3	Oscar Bledsoe.	19	Driver.			Hips injured.	Kicked by mule.	Clover leaf.	Sullivan.
Dec. 3	Ray Watson.	19	Driver.			Collar bone broken.	Mine cars.	Black Hawk.	Sullivan.
Dec. 3	Thomas Green.	22	Driver.	1		Collar bone broken.	Mine cars.	Tecumseh.	Knox.
Dec. 4	John McKillop.	28	Driver.	1	1	Collar bone broken.	Mine cars.	Minshall.	Vigo.
Dec. 4	John Ritchford.	25	Driver.			Mashed hand.	Mine car and prop.	Vandalia No. 10.	Sullivan.
Dec. 6	Arthur Waugh.	27	Driver.	1	2	Leg mashed.	Mine cars.	Grant No. 3.	Vigo.
Dec. 6	Jessie Hutton.	22	Driver.	1	2	Leg injured.	Caught between cars.	Vandalia No. 66.	Vigo.
Dec. 6	Homer Inman.	33	Jerry.	1	1	Foot injured.	Miscellaneous.	Latta's Creek.	Greene.
Dec. 7	Glen Lackey.	18	Driver.			Shoulder dislocated.	Mine cars.	Vandalia No. 10.	Sullivan.
Dec. 7	Robert Watson.	25	Driver.	1		Intrenal injuries.	Kicked by mule.	Consolidated No. 33.	Sullivan.
Dec. 7	A. A. Pesler.	42	Timberman.	1	5	Leg broken.	Falling slate.	Jackson Hill No. 4.	Sullivan.
Dec. 7	Lee Johnson.	30	Driver.	1		Arm fractured.	Mine car.	Freeman.	Knox.
Dec. 8	Claud Vanmeter.	23	Driver.	1		Leg crushed.	Mine car.	Tecumseh.	Knox.
Dec. 8	Charles Gill.	21	Loader.			Hips crushed.	Falling coal.	Twin No. 4.	Greene.
Dec. 9	Benjamin Wake.	20	Driver.			Head cut.	Miscellaneous.	Crown Hill No. 1.	Vermillion.
Dec. 10	William St. Clair.	25	Driver.			Jaw bone.	Mine cars.	Pittsburg No. 1.	Vigo.
Dec. 10	Otis Peaks.	24	Driver.	1		Head and breast.	Mine car and mule.	Jackson Hill No. 4.	Sullivan.
Dec. 11	Alex Harmon.	19	Driver.			Hip and leg.	Kicked by mule.	Vandalia No. 9.	Greene.
Dec. 13	Jack Scott.	35	Miner.			Face and hands burned.	Explosion of fire damp.	Viola.	Sullivan.
Dec. 13	Charles Taylor.	27	Driver.	1	3	Chest.	Falling slate.	Union No. 25.	Sullivan.
Dec. 13	Ethelbert Engle.	27	Machine runner.	1	3	Toe mashed off.	Machine.	Dering No. 13.	Sullivan.
Dec. 13	John Bledsoe.	41	Miner.	1		Leg broken.	Falling slate.	Gilmour.	Greene.
Dec. 14	Walter Conrad.	34	Machine runner.	1		Foot crushed.	Mining machine.	Freeman.	Knox.
Dec. 14	William Dill.	52	Loader.		2	Legs and arm broken.	Falling slate.	Peacock No. 1.	Pike.
Dec. 14	Note Fry.	28	Miner.	1	2	Leg broken.	Falling slate.	Gilmour.	Greene.
Dec. 14	Shelby Potter.	23	Driver.			Leg injured.	Mine car.	Green Valley.	Greene.

TABLE OF SERIOUS ACCIDENTS—Continued.

Date.	NAME.	Age.	Occupation.	DEPENDENTS.			Days Lost.	Injury.	Cause of Accident.	Mine.	County.
				Wife.	Children.	Other Dependents.					
Dec. 14	Thomas Nichols.....	27	Miner.....	1	1			Hand mashed.....	Falling coal.....	Wizard.....	Clay.
Dec. 15	Chester Neuby.....	24	Driver.....					Hips injured.....	Mine car.....	Electric.....	Warrick.
Dec. 15	William Edwards.....	45	Jerry.....	1				Fingers broken.....	Miscellaneous.....	Grant No. 3.....	Vigo.
Dec. 15	Press Dent.....		Miner.....					Body.....	Miscellaneous.....	Atherton.....	Vigo.
Dec. 16	Jessie Bennings.....	16	Trapper.....					Foot mashed.....	Mine car.....	Vandalia No. 69.....	Vigo.
Dec. 16	E. Nicholson.....	20	Driver.....	1	1			Hips injured.....	Mine car.....	Crown Hill No. 3.....	Vermillion.
Dec. 16	George Gregg.....	32	Loader.....	1	2			Head injured.....	Miscellaneous.....	Jackson Hill No. 4.....	Sullivan.
Dec. 17	Albert Carmichael.....	15	Miner.....					Hand mashed.....	Car wheel.....	Vandalia No. 69.....	Vigo.
Dec. 17	William Thompson.....	29	Driver.....	1	2			Side injured.....	Kicked by mule.....	Clover Leaf.....	Sullivan.
Dec. 17	John Gaskins.....	32	Miner.....	1	2			Shoulder and ankle.....	Falling slate.....	Crawford No. 10.....	Clay.
Dec. 20	Evert Stultz.....	28	Driver.....	1	2			Toes broken.....	Mine car.....	Forrest.....	Vigo.
Dec. 20	Melvin Mackey.....	24	Driver.....					Foot cut.....	Mine car.....	Freeman.....	Knox.
Dec. 21	James R. Shaw.....	27	Jerry.....					Finger off.....	Mine cage.....	Consolidated No. 33.....	Sullivan.
Dec. 22	Grover Hague.....	25	Driver.....	1	2			Broken collar bone.....	Mule and car.....	Rainbow.....	Sullivan.
Dec. 22	Samuel Newton.....	22	Driver.....					Ankle dislocated.....	Falling slate.....	Ayrshire No. 4.....	Pike.
Dec. 22	Roy Goodwine.....	25	Loader.....					Broken leg.....	Falling slate.....	Freeman.....	Knox.
Dec. 22	Paul Cotton.....	36	Loader.....	1	1			Back injured.....	Falling coal.....	Vandalia No. 9.....	Greene.
Dec. 23	Charles Starkie.....	28	Driver.....	1	4			Leg fractured.....	Mine car.....	Shirley Hill No. 3.....	Sullivan.
Dec. 28	William Smith.....	25	Driver.....					Shoulder injured.....	Mule and mine car.....	Consolidated No. 33.....	Sullivan.
Dec. 28	Ray Bemis.....	27	Driver.....	1	3			Three ribs fractured.....	Mine cars.....	Black Hawk.....	Sullivan.
Dec. 29	E. Stanfield.....	28	Motorman.....	1	3			Hand crushed.....	Motor.....	Twin No. 5.....	Greene.
Dec. 31	Abe Bidwel.....	19	Driver.....					Arm fractured.....	Mine car.....	Vandalia No. 8.....	Greene.

# TABLE OF ACCIDENTS.

*Exhibiting by Months, the Number of Fatal, Permanent, Serious and Minor Accidents, Occuring in Indiana Mines During the Year 1909 and the Different Causes of Each Accident.*

## JANUARY.

NATURE OF ACCIDENT.	Falling Coal.	Falling Slate.	Injured by Mine Cars.	Injured by Mining Machine.	Injured by Mine Motors.	Smoke and Dust Explosion.	Smoke Explosion.	Explosion of Powder.	Explosion of Fire Damp.	Explosion of Gasoline.	Premature Blasts.	Delayed Blasts.	Windy and Blown-out Shots.	Shots Blowing Through Pillar.	Mine Cages.	Falling Down Shaft.	Coal Falling Down Shaft.	Kicked by Mule.	Railroad Cars.	Electrocuted.	Miscellaneous.	Total.
Fatal.....		1													1							2
Permanent.....																						
Serious.....	1	8	10	2				1	1		1				1		1				2	28
Minor.....	5	3	11	2											1			2			2	26
Total.....	6	12	21	4				1	1		1				3		1	2			4	56

## FEBRUARY.

Fatal.....		3								1												4
Permanent.....		1																				1
Serious.....	3	7	12	1						1												24
Minor.....	1	3	14						1			1						1			2	23
Total.....	4	14	26	1					1	2		1						1			2	52

## MARCH.

Fatal.....		2	1			6	1	1											1			12
Permanent.....		0																				0
Serious.....	2	11	18	3				1	1									3			2	41
Minor.....		8	16	4					1								2	4			5	40
Total.....	2	21	35	7		6	1	2	2								2	7	1		7	93

TABLE OF ACCIDENTS—Continued.

## APRIL.

NATURE OF ACCIDENT.	Falling Coal.	Falling Slate.	Injured by Mine Cars.	Injured by Mining Machine.	Injured by Mine Motors.	Smoke and Dust Explosion.	Smoke Explosion.	Explosion of Powder.	Explosion of Fire Damp.	Explosion of Gasoline.	Premature Blasts.	Delayed Blasts.	Windy and Blown-out Shots.	Shots Blowing Through Pillar.	Mine Cages.	Falling Down Shaft.	Coal Falling Down Shaft.	Kicked by Mule.	Railroad Cars.	Electrocuted.	Miscellaneous.	Total.
Fatal.....		1	1														1					3
Permanent.....	6	10	8	2	1		2					1						2				32
Serious.....	3	1	4	4					13		1							2			4	32
Minor.....																	1					
Total.....	9	12	13	6	1		2		13		1	1					1		4		4	67

## MAY.

Fatal.....	2																					2
Permanent.....	1																					1
Serious.....	4	9	6	3			3															1
Minor.....	3	3	12	1			1															9
																						4
Total.....	7	15	18	4			4															5
																						74

## JUNE.

Fatal.....	2	1	1														1					5
Permanent.....																						
Serious.....	5	15	11	2												11		1	1		6	51
Minor.....	1	7	14	2													1	2			1	39
Total.....	6	24	23	5												11	1	1	3		1	95



## JULY.

Fatal.....		1																1
Permanent.....		1																1
Serious.....	2	11	9				3	4									5	34
Minor.....	4	8	16	2							1					1	8	40
Total.....	6	21	25	2			3	4			1					1	13	76

## AUGUST.

Fatal.....		2							1									3
Permanent.....																		
Serious.....	3	18	15	3			1			1	2	1	1		1	3	1	47
Minor.....	6	14	21	1	1		1			2	1	1	1		1	3	1	64
Total.....	9	34	36	4	1		2		1	2	1	3	1		1	3	1	114

## SEPTEMBER.

Fatal.....		3	1									1	1				1	7
Permanent.....		2																2
Serious.....	7	18	18	7	1		1	3									4	64
Minor.....	4	11	20	1										1		4	1	46
Total.....	11	34	39	8	1		1	3					1	1	1	5	1	119

## OCTOBER.

Fatal.....	1											1						2
Permanent.....		1																1
Serious.....	5	16	17	5			2	1			2		2				4	61
Minor.....	10	10	24				1								5		1	63
Total.....	16	27	41	5			3	1			2		3			9	1	127

TABLE OF ACCIDENTS—Continued.

NOVEMBER.

Nature of Accident.	Falling Coal.	Falling Slate.	Injured by Mine Cars.	Injured by Mining Machine.	Injured by Mine Motors.	Smoke and Dust Explosion.	Smoke Explosion.	Explosion of Powder.	Explosion of Fire Damp.	Explosion of Gasoline.	Premature Blasts.	Delayed Blasts.	Windy and Blown-out Shots.	Shots Blowing Through Pillar.	Mine Cages.	Falling Down Shaft.	Coal Falling Down Shaft.	Kicked by Mule.	Railroad Cars.	Electrocuted.	Miscellaneous.	Total.
Fatal.....		4									1			1								6
Permanent.....				1	1		1				1		1								3	51
Serious.....	5	10	23	3					3		1						3	2			1	65
Minor.....	6	9	26																			
Total.....	11	23	49	1	1		1		4		2		1	2			3	5		1		122

DECEMBER.

Total.....	3	1	1															3				3
Permanent.....	3	8	27	3	1		1											2			2	5
Serious.....	3	15	28	7	1													1	5		1	13
Minor.....																						75
Total.....	6	26	56	11	2		1		1									1	8		1	18
Grand total.....	93	263	385	58	6	6	5	14	32	2	5	4	5	6	21	2	14	55	4	15	134	1,129

SUMMARY.

Total number of fatal accidents.....	50
Total number of permanent accidents.....	8
Total number of serious accidents.....	525
Total number of minor accidents.....	546
Grand total.....	1,129

## LAW ENFORCEMENT.

During the year 1909, notwithstanding the fact that we put forth every effort to secure a conformance to statute on the part of miners, mine bosses, mine superintendents, and mine owners, without resorting to the courts, we were compelled to file prosecutions under almost every law on the statute books relating to mines or mining. Nor was the lack of observance of statute peculiar to any particular class of individuals, the employer and employe being alike guilty of many gross violations.

The following list exhibits, by counties, the number of prosecutions made, the statutes violated, the occupations of the persons committing the violations, the different courts before whom the causes were brought, the names of the different county prosecutors prosecuting the charges, and the number of convictions secured:

## CLAY COUNTY.

Court—J. P. Couch, Brazil.

Prosecutor—Walter E. Lee, Brazil.

Mine boss, failure to report accident .....	1
Mine boss, failure to cause break-through to be made in conformance to statute .....	1
Mine boss, failure to provide sufficient ventilation.....	1
Mine superintendent, failure to provide and keep on hand at mine medical supplies for first care of persons injured.....	1
Mine owner, failure to equip winding drum with an adequate safety brake .....	1
<hr/>	
Total affidavits filed.....	5
Cause against mine boss for failure to report accident dismissed.....	1
<hr/>	
Total found guilty and assessed fines.....	4

## DAVISS COUNTY.

Filed with City Court in Washington.

Miner, drilling past cutting or loose end.....	1
Found guilty and assessed a fine.....	1

## GREENE COUNTY.

Court—Mayor Riley, Linton; J. P. Breadawig, Jasonville.

Prosecutor—Jeffrey, Linton.

Miners, opening kegs of powder with coal picks.....	2
Miners, drilling past cutting or loose end.....	2
Mine boss, failure to provide two-foot space alongside of haulage roads	1
Mine boss, failure to close break-throughs .....	1
Mine boss, failure to cause break-through to be made in conformance to statute .....	1
<hr/>	
Total affidavits filed .....	7
Total found guilty and assessed fines.....	7

## GIBSON COUNTY.

Court—Esquire J. A. Sprowl, Princeton.

Miner, preparing shots more than the maximum thickness prescribed by law .....	1
Miners, drilling past cutting or loose end.....	6
Mine boss, failure to sprinkle roadways.....	1
Mine superintendent, failure to equip escape shaft with code of signals and signal equipment.....	1
<hr/>	
Total affidavits filed .....	9
Total found guilty and assessed fines.....	9

## KNOX COUNTY.

Court—Esquire Pickle, Bicknell.

Fire boss, failure to mark places containing fire-damp.....	1
Mine boss, failure to cause break-through to be made in conformance to statute .....	1
Mine superintendent, failure to conform to inspector's orders for neces- sary repairs .....	1
<hr/>	
Total affidavits filed .....	3
Total found guilty and assessed fines.....	3

## PARKE COUNTY.

Courts—Affidavits filed with Prosecutor Powell, Rockville.

Mine owners, failure to make monthly reports of tonnage, etc., to in- spector of the mines.....	2
Mine owner, failure to employ a certified mine boss.....	1
Mine superintendent, failure to equip escape shaft with stairway.....	1
<hr/>	
Total affidavits filed .....	4
Total found guilty and assessed fines.....	4

## PIKE COUNTY.

Court--Deputy Prosecutor Scott W. Whitting, Winslow; Deputy Prosecutor at Petersburg; Esquire Cicero Fittinger, Winslow.

Miners, opening kegs of powder with coal picks.....	6
Miner, drilling past cutting or loose end.....	1
Miner, preparing shot more than the maximum thickness prescribed by law .....	1
Mine bosses, failure to close break-through.....	3
Mine boss, failure to provide miners with tamping material.....	1
Mine superintendent, failure to provide and keep on hand at mine medical supplies for first care of injured.....	1
<hr/>	
Total affidavits filed .....	13
Case still pending.....	1
<hr/>	
Total found guilty and assessed fines.....	12

## SULLIVAN COUNTY.

Court--Esquire Kirkham, Sullivan, and Prosecutor Woods, Sullivan; Esquire Goodwin, Sullivan; Esquire Taylor, Shelburn.

Miners, drilling past the cutting or loose end.....	12
Miners, tamping with drill dust.....	3
Miner, opening keg of powder with coal pick.....	1
Mine boss, failure to cause break-through to be made in conformance to statute .....	1
Mine boss, failure to measure air current.....	1
Mine bosses, failure to provide places of refuge on haulage roads.....	2
Mine boss, failure to provide sufficient ventilation.....	1
Mine boss, working more than fifty persons on one air split.....	1
Mine bosses, failure to report accidents.....	2
Mine boss, failure to provide persons with tamping material.....	1
Mine boss, failure to provide two feet of space along haulage roads...	1
Mine superintendent, failure to conform to inspector's orders for necessary repairs .....	1
Mine superintendent, working more than fifty persons in one air split.	1
Mine superintendents, failure to provide two feet of space along haulage roads .....	2
Mine superintendent, failure to provide and keep on hand medical supplies for first care of injured.....	1
<hr/>	
Total number of affidavits filed.....	31
Total number found guilty and assessed fines.....	31

## VANDERBURGH COUNTY.

Court—Prosecutions made in City Court, Evansville.

Miners, preparing shots more than the maximum thickness permitted by law .....	2
Mine boss, failure to cause break-through to be made in conformance to statute .....	1
Total affidavits .....	3
Total found guilty and assessed fines.....	3

## VERMILLION COUNTY.

Court—Esquires Guinn and Ruby, both of Clinton; Esquire Brown, Newport, and Prosecutor Lowell; Prosecutor Pike, Clinton.

Miners, drilling past cutting or loose end.....	42
Miners, opening keg of powder with coal pick.....	5
Miners, tamping with drill dust.....	5
Mine bosses, failure to cause break-throughs to be made in conformance of statute .....	3
Mine bosses, working more than fifty persons one one air split.....	5
Mine boss, failure to provide sufficient ventilation.....	1
Mine superintendent, failure to provide two feet of space along haulage roads .....	1
Mine bosses, failure to conform to inspector's orders for necessary repairs .....	3
Total number of affidavits filed.....	65
The affidavits against five miners for tamping with drill dust and one miner for opening keg of powder with coal pick were filed May 27th; also one against miner for opening a keg of powder with a coal pick, filed on May 12th, are in the hands of Constable Whetsel, and for some reason have not been served.....	6
One miner, charged with drilling past the cutting or loose end, tried and convicted in squire's court, case appealed to circuit court.....	1
Fourteen cases against miners for drilling past the cutting or loose end are held pending the decision of circuit court testing the constitutionality of the law.....	14
Total number found guilty and assessed fines.....	42

## VANDERBURGH COUNTY.

Court—Prosecutions made in City Court, Evansville.

Miners, preparing shots more than the maximum thickness permitted by law .....	2
Mine boss, failure to cause break-through to be made in conformance to statute .....	1
Total affidavits .....	3
Total found guilty and assessed fines.....	3

## VERMILLION COUNTY.

Court—Esquires Guinn and Ruby, both of Clinton; Esquire Brown, Newport, and Prosecutor Lowell; Prosecutor Pike, Clinton.

Miners, drilling past cutting or loose end.....	42
Miners, opening keg of powder with coal pick.....	5
Miners, tamping with drill dust.....	5
Mine bosses, failure to cause break-throughs to be made in conformance of statute .....	3
Mine bosses, working more than fifty persons one one air split.....	5
Mine boss, failure to provide sufficient ventilation.....	1
Mine superintendent, failure to provide two feet of space along haulage roads .....	1
Mine bosses, failure to conform to inspector's orders for necessary repairs .....	3
Total number of affidavits filed.....	65
The affidavits against five miners for tamping with drill dust and one miner for opening keg of powder with coal pick were filed May 27th; also one against miner for opening a keg of powder with a coal pick, filed on May 12th, are in the hands of Constable Whetsel, and for some reason have not been served.....	6
One miner, charged with drilling past the cutting or loose end, tried and convicted in squire's court, case appealed to circuit court.....	1
Fourteen cases against miners for drilling past the cutting or loose end are held pending the decision of circuit court testing the constitutionality of the law.....	14
Total number found guilty and assessed fines.....	42

## VANDERBURGH COUNTY.

Court—Prosecutions made in City Court, Evansville.

Miners, preparing shots more than the maximum thickness permitted by law .....	2
Mine boss, failure to cause break-through to be made in conformance to statute .....	1
Total affidavits .....	3
Total found guilty and assessed fines.....	3

## VERMILLION COUNTY.

Court—Esquires Guinn and Ruby, both of Clinton; Esquire Brown, Newport, and Prosecutor Lowell; Prosecutor Pike, Clinton.

Miners, drilling past cutting or loose end.....	42
Miners, opening keg of powder with coal pick.....	5
Miners, tamping with drill dust.....	5
Mine bosses, failure to cause break-throughs to be made in conformance of statute .....	3
Mine bosses, working more than fifty persons one one air split.....	5
Mine boss, failure to provide sufficient ventilation.....	1
Mine superintendent, failure to provide two feet of space along haulage roads .....	1
Mine bosses, failure to conform to inspector's orders for necessary repairs .....	3
Total number of affidavits filed.....	65
The affidavits against five miners for tamping with drill dust and one miner for opening keg of powder with coal pick were filed May 27th; also one against miner for opening a keg of powder with a coal pick, filed on May 12th, are in the hands of Constable Whetsel, and for some reason have not been served.....	6
One miner, charged with drilling past the cutting or loose end, tried and convicted in squire's court, case appealed to circuit court.....	1
Fourteen cases against miners for drilling past the cutting or loose end are held pending the decision of circuit court testing the constitutionality of the law.....	14
Total number found guilty and assessed fines.....	42



## VIGO COUNTY.

Court—Esquires Brown, Hirsch and Newburger, of Terre Haute.

Prosecutor—Owens, Terre Haute; Deputy Prosecutor Reitzman.

Miners, drilling past cutting or loose end.....	24
Miner, preparing shots more than the maximum thickness permitted by law .....	1
Mine boss, failure to conform to inspector's order for necessary repairs.....	1
Mine bosses, failure to close break-throughs.....	2
Mine boss, failure to maintain haulage roads in safe condition.....	1
Mine bosses, failure to provide sufficient ventilation.....	3
Mine bosses, failure to cause break-throughs to be made in conformance to statute.....	3
Mine boss, failure to report accidents.....	1
Mine superintendent, failure to equip winding drum with indicator ..	1
Mine superintendent, failure to equip winding drum with an adequate brake .....	1
Mine superintendents, failure to provide two feet of space along haulage roads .....	3
Mine superintendent, failure to provide places of refuge on haulage roads .....	1
Mine owner, failure to keep manway in safe condition.....	1
Mine owner, failure to provide and keep on hand at mine medical supplies for first care of injured.....	1
Mine owner, failure to employ a certified mine boss.....	1
<hr/>	
Total affidavits filed.....	45
Charge against mine owner for failure to keep manway in safe condition thrown out by Prosecutor Reitzman.....	1
Charge against mine boss for failure to report accidents dismissed....	1
One miner charged with preparing a shot more than the maximum thickness permitted by law, tried before a jury and acquitted.....	1
Charges against two miners for drilling past cutting or loose end dismissed .....	2
Charges against the superintendent for failure to provide the two-foot space along haulage road still pending in circuit court.....	1
<hr/>	
Total number found guilty and assessed fines.....	37

## WARRICK COUNTY.

Court—Cases were prosecuted by the chief Prosecutor, Savage, and Deputy Prosecutor Davis.

Mine boss, serving as fire boss without having qualified as required by law .....	1
Mine boss, for compelling miners to enter mine before it had been examined by a competent fire boss.....	1

Both the above complaints were filed against the same boss, who entered a plea of guilty to both charges, but on advice of Prosecutor Savage the justice of the peace assessed a fine in but one count.

## RECAPITULATION.

Total number of affidavits filed for the year.....	188
Total number of counts still pending for the year.....	17
Total number of cases acquitted and dismissed.....	6
Total number of convictions and fines assessed for the year.....	155

The finding of a lower court in the cause against the Vandalia Coal Company, prosecuted in 1908, for the failure to provide two feet of space along haulage roads, in which the law was declared unconstitutional, was reversed by the Supreme Court, and the case has been refiled in the Sullivan County Circuit Court, where it is still pending.

## RECOMMENDED LEGISLATION.

On the matter of future mine legislation, we recommend the enactment of the following laws and amendments:

## PROTECTION TO DRIVERS.

(1) Provision for the better protection of drivers. Providing that each driver shall be furnished with a portable seat which can be attached to either end of the mine car, and prohibiting drivers, miners or other persons from riding on mine cars in any other manner than that which shall be provided by law.

## CARE OF EXPLOSIVES.

(2) Amending the present statute relating to explosives. Providing that all powder kegs, cans or packages containing powder or other explosives shall be stored in boxes, which shall be kept securely closed at all times except when miners are preparing their cartridges or charging blasts. Such boxes to be approved by the inspector of mines, and shall be kept not closer than 100 feet from any working face.

## DEBRIS IN BREAK-THROUGHS.

(3) A law making it the duty of the mine boss to see that at all times the last break-through between rooms or entries shall be kept clear of powder boxes, kegs, timbers, slate or other debris.

## EXAMINATION FOR FIRE DAMP.

Amending the present statute relating to the examinations of mines for fire damp.

Providing that the time elapsing between the examination of a working place and the regular hour for the mine to commence work, shall not be more than three hours; also providing that when a place is found to contain gas, evidence of the fact, together with the exact time the examination was made, shall be posted conspicuously at each entrance to the place. If there be a dangerous quantity of gas found, the words "Gas; Keep Out," shall be posted, and the time elapsing between the examination and the time the miners or other workmen are permitted to enter the place to commence work shall not exceed one-half hour.

Making it a misdemeanor, punishable by imprisonment, for any mine boss, superintendent or other person in charge of a mine requiring the services of a fire boss, to order or permit miners or other workmen to enter such mine or to enter working places that may be reasonably expected to contain fire damp, previous to an examination and report from the fire boss.

Also fixing the same punishment for miners or other employes who shall knowingly enter a mine previous to its having been examined and reported on by the fire boss, or who shall enter a working place, passing a notice, "Gas; Keep Out," posted by the fire boss.

Provided, further, that each and every fire boss shall be required to make a daily record of his examination in a book kept for that purpose. Such record shall show the date of examination, the hour he commenced the examination and the hour the examination was completed; the number of each entry and the number of working places on each entry examined; the places found to contain gas, giving the exact location of each working place and the quantity of gas found, such record to be signed by the fire boss and kept in charge of the weigh boss, and to be open at all times for the inspection of the mine superintendent, mine boss, miners and inspectors of mines.

Any fire boss who shall sign a false report as to the true condi-

tion of a mine shall, upon proof thereof, immediately forfeit his certificate authorizing him to perform the duties of a fire boss.

#### RECHARGING DRILL HOLES.

(5) A statute making it unlawful for a miner or other person to recharge a drill hole that has once been charged and fired.

#### OILS FOR ILLUMINATING PURPOSES.

(6) Amending the present statute relating to oils used for illuminating purposes in the coal mines. Fixing the punishment at imprisonment to sell or offer for sale oil to be used for illuminating purposes in coal mines that is of a quality inferior in grade to that prescribed by law; also fixing the same punishment for mine bosses, miners or mine employes who burn coal oil, black jack or machine oil in coal mines, and making it *prima facie* evidence of guilt when their working lamps have been found to contain such oil.

Also providing a smoke test and equipping the office of supervisors of oils for making such tests.

#### FIRE PROTECTION.

(7) A statute requiring all coal tipples, engine and boiler rooms, or other mine buildings in close proximity to a shaft opening, to be equipped with water lines, taps and fire hose. A water line shall also extend down each hoisting shaft to each coal seam being mined, and along the main entries not less than 400 feet on each side of the bottom of the hoisting shaft, and shall have water taps or valves and fire hose located at proper distances along each water line, and that the water line or lines shall be attached to a pump of adequate size and the line kept under a constant water pressure during working hours.

#### APPROACH TO ESCAPE SHAFTS.

(8) Amending the present statute relating to the approaches to escape shafts.

Providing that in all coal mines, where the approach or approaches to the escape shaft crosses an air course, entry or other passageway used as an air course, either as an intake or return, the air current shall be conducted by an overcast or undercast, over or under the point where such approach crosses the air course, and that all approaches to escape shafts shall be kept free from falling slate, mine tracks, mine cars and other debris, and shall be used only as means of egress to or from the escape shaft.

## CARE OF WORKING PLACES.

(9) Amending the present statute relating to the duties of a mine boss and the care of working faces.

Providing that any mine boss or other person in charge of the underground workings of a mine, who, knowing a working place to be in a dangerous condition at or near the working face by reason of loose slate or rock, accumulations of fire damp or other dangerous conditions, shall order or permit a miner or other employe to enter such place except for the purpose of making it safe, or shall knowingly permit a miner or other employe to continue working in an unsafe place except for the purpose of making it safe, shall be deemed guilty of a misdemeanor punishable by a fine.

Provided, further, that any miner or other employe whose duties are to timber and care for his working place, who when having had a sufficient number of props, cap pieces and other timbers of proper length furnished him, and shall wilfully neglect or fail to set such props or other timbers as are necessary to properly secure his working place, or shall continue working in an unsafe place having sufficient suitable timbers on hand to make it safe, and shall neglect to do so, he or they shall be guilty of a misdemeanor punishable by fine.

## TRANSPORTATION OF EXPLOSIVES.

(10) Making it unlawful for any person to place for transportation into or out of any coal mine, a keg or kegs, cans or packages containing powder or other explosives, in or on any mine car or other vehicle that is being hauled or is to be hauled by electric power.

## ELECTRIC WIRES.

(11) A statute providing that all wires conducting electric currents in coal mines, except trolley wires used in driving mine motors, shall be insulated or placed in passageways other than the traveling roads used by employes.

Providing that where electric motors requiring a trolley wire are used, the trolley wire shall be so protected as to prevent persons from accidentally coming in contact with the wire.

## SHIELDS ON CUTTING MACHINES.

(12) - A statute requiring all coal-cutting machines of the bitt chain type to be equipped along each side of the bed frame of the machine with an adjustable shield or cover protecting persons from coming in contact with the coal-cutting bitts when the chain is in

motion, and making it a misdemeanor punishable by fine for any mine owner, operator, mine boss, superintendent or other person in charge of the underground workings of a coal mine, to place in any coal mine for the purpose of undercutting coal, a machine of the bitt chain type that has not been equipped as above described.

Also making it a misdemeanor punishable by fine for any machine runner, helper or other person to undercut coal or attempt to undercut coal with a machine of this type without the shield or cover being in position to protect persons from the coal-cutting belts when the chain is in motion.

### ACCIDENTS TO MINE PROPERTY.

Serious accidents to mine property during the year 1909, though comparatively few in number, represent a very considerable financial loss, both in the destruction of property and in the loss of business.

Following is a brief description of each of the most notable accidents occurring, and an estimated statement of the financial loss resulting therefrom:

*Miami No. 4 Mine, Vigo County.*—Engine-room at this mine burned down during the month of January, the mine was idle ten days during the construction of a new building. The financial loss was not reported.

*Brazil Block No. 12 Mine, Clay County.*—Early in the month of February, fire broke out in the Byder vein, and before it could be checked had extended down to the upper vein, i. e., IV, and reached such proportions as to necessitate sealing off the hoisting and fan shafts to exclude air from the mine. The mine was sealed February 10, and remained idle until October 1. Financial loss not learned.

*Deep Vein Mine, Vigo County.*—About 5 o'clock p. m. February 28, fire broke out in the boiler-room, and before it could be brought under control the entire surface plant, comprising the engine, dynamo and boiler rooms and mine tippie were destroyed. The property loss through the destruction of buildings and damage to machinery was estimated at \$7,500. The mine was idle as a result of the fire until September 1, thus entailing several thousand dollars' loss of business. The property was insured at \$1,600.

*Keystone Mine, Sullivan County.*—On the night of May 11 a fire occurred at the face of the third northwestern cross-entry, the coal igniting from a shot. The fire was not discovered until 4:30 o'clock the following morning, by which time it had extended along

the entry pillar back to the first break-through, a distance of 30 feet from the face, and through the break-through into the fourth northwest cross-entry, covering an area of about 125 square feet in each entry, in addition to three rooms into which the fire had spread.

An effort was first made to extinguish the fire with water, using buckets and fire hose attached to a water line from one of the mine pumps. The smoke, however, was so dense that the persons handling the buckets and fire hose could perform but little execution. In the meantime Mr. Gregory, the mine manager, appealed to the United States rescue station at Urbana, Ill., for assistance. There being no available help at that point, the call was forwarded to the chief station at Pittsburg, where, immediately on receipt of same, word was wired the mine officials that a party with helmets would be en route to the mine at once. After two days of fruitless effort trying to extinguish the fire by the method above mentioned, it was decided to seal off the affected district and await the arrival of the Pittsburg parties.

Mr. John Ruteledge, an assistant, arrived at the mine with oxygen helmets and other rescue apparatus the evening of the 14th. The seals were then broken and the fight again resumed with water. The fire by this time had traveled a distance of 60 or 70 feet back from the face. By the use of the helmets they were able to reach the fire with water from the hose and a continuous fight was kept up until the morning of the 16th, by which time the fire in the third northwest was practically extinguished. Just at this time the slate began to fall, driving the fighters back and covering up the fire hose entirely. It was then found necessary to again put up the brattices and exclude the air from the fire pending the arrival of a fresh supply of hose, etc. A few hours later the seals were again broken and an attempt made to advance on the fire in the fourth northwest, and the fire was driven back a short distance, but by reason of the entry having been closed by falls they were unable to advance the full distance covered by the fire and the fight was then reluctantly abandoned and air-tight brattices erected across each opening leading to the burning district. This section of the mine remained sealed off until the 31st, at which time the brattices were taken down and no trace of fire or heat was found. The property loss as reported by the mine management was \$2,065.45, to which should be added the loss in business by reason of the entire mine having been idle nine days.

Mr. Gregory commends both the helmets and Mr. Ruteledge and assistant who used them very highly, and makes the statement that had the helmets been on hand when the fire was first discovered, it could have been extinguished at an expense of a very few dollars before any serious damage had been done.

*Viola Mine, Sullivan County.*—Shortly after 3:30 o'clock (firing time) Saturday evening, May 29, a fire occurred at the face of the second southwest cross-entry, the coal in the face of the entry having ignited from a shot, and before being discovered it had traveled back along the pillars quite a distance from the face of the entry.

The same methods for extinguishing this fire were adopted as were used at the Keystone Mine, except the use of the oxygen helmets, which were not asked for by the mine management.

After several days fruitless effort and a large expense trying to extinguish the fire with water, the fight was abandoned and the fire was sealed off, eleven air-tight brattices being required to complete the seal.

The entire mine was idle until June 24, at which time all the workings except the sealed-off district resumed operation. We have been unable to learn the financial loss incurred.

*Big Vein Mine, Clay County.*—June 27th, about 6:30 p. m., the entire tibble was completely destroyed by a heavy wind storm. The mine was idle until August 12, by which time a new tibble was erected and operation resumed.

The property loss was estimated at \$3,000. Loss in business was probably an additional \$4,000.

*Vandalia No. 316 Mine, Parke County.*—During the month of December the air shaft and escape shaft (both in the same opening) caved in a distance of 15 feet from the surface. The cost for repairs amounted to \$515.58.

*Summit No. 2 Mine, Greene County.*—About 4 o'clock Sunday morning, November 28, fire was discovered in the pump room, located near the bottom of the hoisting shaft, by the night engineer, who had gone down in the mine for the purpose of making some repairs on a mine pump.

The origin of the fire is not known, but it is presumed that the timbers were ignited from some one of the miners' lamps when putting on their clothes preparatory to leaving the mine at 2:25 a. m. This was about one and one-half hours before the night engineer discovered the fire, during which time it had gained considerable headway.



The engineer immediately set about trying to extinguish the fire with water, using a fire hose attached to one of the mine pumps, and had gotten it practically under control when the steam line by which the mine pumps are furnished steam, burst. Thus the pumps were put out of commission and there were none others available on hand with which to fight the fire.

The alarm was then sounded, and Supt. McQuade, who resides in Linton, was notified by telephone of the fire and existing conditions. He, in company with John Templeton, superintendent for the Coal Bluff Mining Company, hurried to the mine, and on going below to investigate found that the fire had spread from the pump room to the crossbars and other timbers on the shaft bottom and into the curbing in the main hoisting shaft. The top of the hoisting shaft was then covered with boards and sand to shut off the draft from the fire. Twenty-four hours were then consumed in fruitless efforts to procure water from the Linton city water line, located some three-fourths of a mile distant from the shaft. Failing in this effort, repairs on the mine pumps were finally effected, fire hose attached and the fight resumed, the mine pump and mine water being used, and at 5 o'clock Tuesday morning, the 30th, the fire had been gotten under control. The pumping, however, continued during the entire day to make sure all the fire was extinguished.

The cost for repairs, including labor and material was estimated at \$1,600. Loss to business due to mine being idle \$4,000. The persons engaged in fighting the fire were:

John Templeton, superintendent Coal Bluff Mining Co.

John Boyle, superintendent Vandalia Coal Co.

Wesley Harris, assistant superintendent Vandalia Coal Co.

Mike White, superintendent Vivian Collieries Co.

N. F. McDonald, mine boss, Vandalia Coal Co.

Tom Bolin, miner.

A Baley, miner.

C. West, miner.

Thomas Small, superintendent United Fourth Vein Coal Co.

Hugh Rice, miner.

These gentlemen made a brave fight in the face of a great danger from falling slate, blinding smoke, heat and dangerous fumes arising from the burning coal and timbers, and to their perseverance and undaunted bravery is due the fact that the entire plant was not destroyed.

## MINE DIRECTORY

## CLAY COUNTY.

NAME OF COMPANY.	ADDRESS OF COMPANY.	NAME OF MINE.
Brazil Block Coal Co. ....	Brazil. ....	Brazil No. 1.
Brazil Block Coal Co. ....	Brazil. ....	Brazil No. 4.
Zellar-McClellan Co. ....	Brazil. ....	Superior No. 4.
Crawford Coal Co. ....	Brazil. ....	Crawford No. 2.
Crawford Coal Co. ....	Brazil. ....	Crawford No. 6.
Crawford Coal Co. ....	Brazil. ....	Crawford No. 9.
Crawford Coal Co. ....	Brazil. ....	Crawford No. 10.
Indiana Block Coal Co. ....	Saline City. ....	Crawford No. 1.
Coal Bluff Mining Co. ....	Terre Haute. ....	Plymouth No. 3.
American Clay Mfg. Co. ....	Brazil. ....	Monarch.
Eureka Block Coal Co. ....	Terre Haute. ....	Eureka No. 5.
Treager Bros. ....	Brazil. ....	Treager.
Harrison Coal and Mining Co. ....	Clay City. ....	Harrison No. 4.
Schrepferman Coal Co. ....	Brazil. ....	Schrepferman.
Hall & Zimmerman. ....	Brazil. ....	Wizard.
Sam Pyrah. ....	Brazil. ....	Pyrah.
Progressive Coal and Mining Co. ....	Brazil. ....	Progressive.
Big Vein Mining Co. ....	Terre Haute. ....	Lewis.
Vivian Colliers Co. ....	Chicago, Ill. ....	Vivian No. 1.
Vivian Colliers Co. ....	Chicago, Ill. ....	Vivian No. 2.
United Fourth Vein Coal Co. ....	Linton. ....	Island Valley No. 4.
O. S. Richardson Coal Co. ....	Brazil. ....	Gifford No. 2.
German Coal Co. ....	Brazil. ....	German.
C. Ehrlich Coal Co. ....	Turner. ....	Klondyke No. 3.

## DAVIESS COUNTY.

Horney & Winterbottom. ....	Washington. ....	No. 3.
Mutual Mining Co. ....	Cannelburg. ....	Mutual.
Mandabach Bros. ....	Washington. ....	Mandabach.
Winklepeck & Overton. ....	Raglesville. ....	Winklepeck.
Davies County Coal Co. ....	Montgomery. ....	Montgomery No. 4.

## FOUNTAIN COUNTY.

Rush Coal Co. ....	Toledo Ohio. ....	Indio.
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## GREENE COUNTY.

United Fourth Vein Coal Co. ....	Linton. ....	Black Creek.
United Fourth Vein Coal Co. ....	Linton. ....	Dickason.
United Fourth Vein Coal Co. ....	Linton. ....	Sponsler.
United Fourth Vein Coal Co. ....	Linton. ....	Antioch.
United Fourth Vein Coal Co. ....	Linton. ....	North Linton.
Vandalia Coal Co. ....	Indianapolis. ....	Vandalia No. 2.
Vandalia Coal Co. ....	Indianapolis. ....	Vandalia No. 4.
Vandalia Coal Co. ....	Indianapolis. ....	Vandalia No. 5.
Vandalia Coal Co. ....	Indianapolis. ....	Vandalia No. 6.
Vandalia Coal Co. ....	Indianapolis. ....	Vandalia No. 8.
Vandalia Coal Co. ....	Indianapolis. ....	Vandalia No. 9.
Vandalia Coal Co. ....	Indianapolis. ....	Vandalia No. 20.
Vandalia Coal Co. ....	Indianapolis. ....	Vandalia No. 21.
Alliance Coal Co. ....	Chicago, Ill. ....	Gilmour.
Summit Coal and Mining Co. ....	Bloomfield. ....	Summit No. 2.
Green Valley Coal Co. ....	Jasonville. ....	Green Valley.
Alliance Coal Co. ....	Chicago, Ill. ....	Lattas Creek.
Queen Coal and Mining Co. ....	Jasonville. ....	Queen.
Calora Coal Co. ....	Indianapolis. ....	North West.
Coal Bluff Mining Co. ....	Terre Haute. ....	Twin No. 4.
Coal Bluff Mining Co. ....	Terre Haute. ....	Twin No. 5.
Cherry Hill Coal Co. ....	Linton. ....	Cherry Hill.
Letsinger Coal Co. ....	Bloomfield. ....	Letsinger.
Morehead Coal Co. ....	Midland. ....	P. & I.
Enterprise Coal Co. ....	Linton. ....	Lyons.

MINE DIRECTORY—Continued.

GIBSON COUNTY.

NAME OF COMPANY.	ADDRESS OF COMPANY.	NAME OF MINE.
Princeton Coal and Mining Co. ....	Princeton.....	Oswald.
Fort Branch Coal and Mining Co. ....	Fort Branch.....	Fort Branch.
Wyoming Coal Co. ....	Francisco.....	Francisco.

KNOX COUNTY.

Knox Coal Co. ....	Bicknell.....	Knox.
Lynn Coal Co. ....	Bicknell.....	Lynn.
Freeman Coal Co. ....	Bicknell.....	Freeman.
Home Coal Co. ....	Bicknell.....	Bicknell.
Washington-Wheatland Coal Co. ....	Wheatland.....	Wheatland.
Tecumseh Coal and Mining Co. ....	Bicknell.....	Tecumseh.

PARKE COUNTY.

Brazil Block Coal Co. ....	Brazil.....	Brazil No. 9.
Brazil Block Coal Co. ....	Brazil.....	Brazil No. 12.
Zellur-McClellan & Co. ....	Brazil.....	Superior No. 2.
Zellur-McClellan & Co. ....	Brazil.....	Superior No. 3.
Zellur-McClellan & Co. ....	Brazil.....	Superior No. 5.
Fairview Coal Co. ....	Mecca.....	Fairview.
Otter Creek Coal Co. ....	Chicago, Ill. ....	Mary No. 1.
Parke County Coal Co. ....	Rosedale.....	Parke No. 2.
Vivian Colliers. ....	Chicago, Ill. ....	Lyford No. 1.
Vandalia Coal Co. ....	Indianapolis.....	Vandalia No. 316.
James Moore. ....	Kingman.....	Moore.
W. P. Harrison.....	Kingman.....	Harrison.

PIKE COUNTY.

Ayrshire Coal Co. ....	Oakland City.....	Ayrshire No. 4.
Ayrshire Coal Co. ....	Oakland City.....	Ayrshire No. 5.
Central Indiana Coal and Mining Co. ....	St. Louis, Mo. ....	Muren.
S. W. Little Coal Co. ....	Evansville.....	Blackburn No. 1.
S. W. Little Coal Co. ....	Evansville.....	Blackburn No. 2.
S. W. Little Coal Co. ....	Evansville.....	Littles.
Muncie Coal and Mining Co. ....	Muncie.....	Petersburg.
Winslow Gas and Coal Co. ....	Winslow.....	Winslow No. 4.
Winslow Gas Coal Co. ....	Winslow.....	Winslow No. 5.
J. W. Welsh.....	New York, N. Y. ....	Hartwell No. 1.
J. W. Welsh.....	New York, N. Y. ....	Hartwell No. 2.
J. W. Welsh.....	New York, N. Y. ....	Hartwell No. 3.
Peacock Coal and Mining Co. ....	Indianapolis.....	Peacock No. 2.

PERRY COUNTY.

Lincoln Coal and Mining Co. ....	Evansville.....	Lincoln.
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## MINE DIRECTORY--Continued.

## SULLIVAN COUNTY.

NAME OF COMPANY.	ADDRESS OF COMPANY.	NAME OF MINE.
Alliance Coal Co. ....	Chicago, Ill. ....	Rainbow.
Alliance Coal Co. ....	Chicago, Ill. ....	Phoenix No. 4.
Alliance Coal Co. ....	Chicago, Ill. ....	Hocking.
Alliance Coal Co. ....	Chicago, Ill. ....	Citizens.
Sunflower Coal Co. ....	Dugger. ....	Sunflower.
Consolidated Indiana Coal Co. ....	Chicago, Ill. ....	Consolidated No. 25.
Consolidated Indiana Coal Co. ....	Chicago, Ill. ....	Consolidated No. 26.
Consolidated Indiana Coal Co. ....	Chicago, Ill. ....	Consolidated No. 28.
Consolidated Indiana Coal Co. ....	Chicago, Ill. ....	Consolidated No. 30.
Consolidated Indiana Coal Co. ....	Chicago, Ill. ....	Consolidated No. 32.
Consolidated Indiana Coal Co. ....	Chicago, Ill. ....	Consolidated No. 33.
Vandalia Coal Co. ....	Indianapolis. ....	Vandalia No. 10.
Jackson Hill Coal and Coke Co. ....	Terre Haute. ....	Jackson Hill No. 2.
Jackson Hill Coal and Coke Co. ....	Terre Haute. ....	Jackson Hill No. 4.
Gregory Coal and Mining Co. ....	Shelburn. ....	Keystone.
Dering Coal Co. ....	Chicago, Ill. ....	Dering No. 13.
Dering Coal Co. ....	Chicago, Ill. ....	Dering No. 14.
Alliance Coal Co. ....	Chicago, Ill. ....	Mammoth Vein.
Shirley Hill Coal Co. ....	Indianapolis. ....	Shirley Hill No. 1.
Shirley Hill Coal Co. ....	Indianapolis. ....	Shirley Hill No. 3.
Shirley Hill Coal Co. ....	Indianapolis. ....	Little Giant.
Shirley Hill Coal Co. ....	Indianapolis. ....	Clover Leaf.
Kettle Creek Coal Co. ....	Terre Haute. ....	Pearl.
Peabody-Alwart Coal and Mining Co. ....	Chicago, Ill. ....	Reliance.
Hamilton Coal Co. ....	Linton. ....	Hamilton.
United Fourth Vein Coal Co. ....	Linton. ....	Black Hawk.
Carlisle Coal and Clay Co. ....	Carlisle. ....	Viola.
Sullivan County Coal Co. ....	Terre Haute. ....	Freeman.
Hudson Coal and Mining Co. ....	Farmersburg. ....	Hudson.
Bellevue Coal Co. ....	Carlisle. ....	Bellevue.
Larsh Coal Co. ....	Farmersburg. ....	Larsh.

## VANDERBURGH COUNTY.

Diamond Coal Co. ....	Evansville. ....	Diamond.
Gibson Moore Coal Co. ....	Evansville. ....	Ingleside.
Sunnyside Coal Co. ....	Evansville. ....	Sunnyside.
Crescent Coal Co. ....	Evansville. ....	Unity.
Banner Coal Co. ....	Evansville. ....	First Avenue.

## VERMILLION COUNTY.

Dering Coal Co. ....	Chicago, Ill. ....	Dering No. 5.
Dering Coal Co. ....	Chicago, Ill. ....	Dering No. 8.
Silverwood Coal Co. ....	Cayuga. ....	Eureka.
Clinton Coal Co. ....	Clinton. ....	Crown Hill No. 1.
Clinton Coal Co. ....	Clinton. ....	Crown Hill No. 2.
Clinton Coal Co. ....	Clinton. ....	Crown Hill No. 3.
Oak Hill Coal Co. ....	Clinton. ....	Oak Hill.
Oak Hill Coal Co. ....	Clinton. ....	Maple Valley.
Oak Hill Coal Co. ....	Clinton. ....	Buckeye No. 2.
Oak Hill Coal Co. ....	Clinton. ....	Klondyke.

MINE DIRECTORY—Continued.

VIGO COUNTY.

NAME OF COMPANY.	ADDRESS OF COMPANY.	NAME OF MINE.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 66.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 67.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 69.
Vandalia Coal Co.....	Indianapolis.....	Vandalia No. 81.
Alliance Coal Co.....	Chicago, Ill.....	Forrest.
Atherton Splint Coal Co.....	Atherton.....	Atherton.
Coal Bluff Mining Co.....	Terre Haute.....	Riverside.
Otter Creek Coal Co.....	Chicago, Ill.....	Mary.
Coal Bluff Mining Co.....	Terre Haute.....	Plymouth No. 1.
Coal Bluff Mining Co.....	Terre Haute.....	Wabash.
Coal Bluff Mining Co.....	Terre Haute.....	Minshall.
Lower Vein Coal Co.....	Terre Haute.....	Lower Vein.
Miami Coal Co.....	Brazil.....	Miami No. 2.
Miami Coal Co.....	Brazil.....	Miami No. 5.
Miami Coal Co.....	Brazil.....	Miami No. 4.
Fauvre Coal Co.....	Indianapolis.....	Fauvre No. 2.
Deep Vein Coal Co.....	Terre Haute.....	Deep Vein.
Vigo County Coal Co.....	Seeleyville.....	Ray No. 2.
Grant Coal and Mining Co.....	Burnett.....	Grant No. 3.
Sugar Valley Coal Co.....	W. Terre Haute.....	Sugar Valley.
Dering Coal Co.....	Chicago, Ill.....	Dering No. 6.
Domestic Block Coal Co.....	Kokomo.....	Domestic Blk. No. 1.
National Coal and Fuel Co.....	W. Terre Haute.....	National.
Glenn Ayre Coal Co.....	Terre Haute.....	Glenn Ayre.
Glenn Ayre Coal Co.....	Terre Haute.....	Glenn Ayre No. 2.
Otter Creek Coal Co.....	Chicago, Ill.....	Mary No. 2.
Pittsburg Mining Co.....	Terre Haute.....	Pittsburg No. 1.

WARRICK COUNTY.

Big Four Coal Co.....	Boonville.....	Big Four.
Chandler Coal Co.....	Evansville.....	Chandler.
C. Menden Coal Co.....	Evansville.....	De Forrest.
T. D. Seales Coal Co.....	Boonville.....	Electric.
Caldonia Mining Co.....	Boonville.....	Dawson.
Erie Canal Coal Co.....	Boonville.....	Erie Canal.
Red Shaft Coal Co.....	Newburg.....	Red Shaft.
J. Woolley Coal Co.....	Boonville.....	Castle Garden.
Worsham-Newburg Coal Co.....	Newburg.....	Brizius.
J. Woolley Coal Co.....	Boonville.....	Folk No. 5.
Eberfeld Oil, Gas and Mining Co.....	Elberfeld.....	Elberfeld.
Epworth Coal Co.....	Newburg.....	Epworth.
Big Four Coal Co.....	Boonville.....	Big Four No. 3.
Henry Korff.....	Boonville.....	Korff.
Sargent Coal Co.....	Newburg.....	Sargent.