REPORT OF THE STATE INSPECTOR OF MINES FOR THE YEAR 1906.

Office of Inspector of Mines, Indianapolis, Ind., February 26, 1907.

Prof. W. S. Blatchley, State Geologist:

Dear Sir: I have the honor to submit to you herewith my eighth annual report as Inspector of Mines, covering the calendar year of 1906, and being the Twenty-eighth Annual Report of this Department and the sixteenth 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.

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TWENTY-EIGHTH ANNUAL REPORT OF THE INSPECTOR OF MINES FOR THE STATE OF INDIANA.

This report includes the following general subjects, viz: General Review of the Coal Industry for 1906. Recommended Legislation.

Mine Accidents and Statistics.

These subjects are arranged under different heads and treated in a manner such as we think will cover all information that is desirable and of public interest. In the review of coal industry we treat as fully as possible all of the conditions governing the trade during the year, including market demands and railroad service.

Under recommended legislation we advise certain changes in the present mining laws, also such new laws as we think should be enacted. Under the head of labor we include strikes, Terre Haute and Brazil Agreement and all other conditions relating to labor. Under statistics, tables are given showing the number of tons of various grades of coal produced, the block and bituminous coal each shown separately, tons shipped outside the State and tons consumed in the State, wages paid, number of mine employes, days worked, number of kegs of powder used, number of mules, average wage tables, comparative tables of production of wages, table of new and abandoned mines. Under the head of mine accidents we exhibit in various tables the number of fatal, serious and minor accidents, the causes thereof, age and occupation of persons killed and the number of dependents left at each death, a table showing the number of tons of coal produced for each death as compared with former years and accidents to mine property. There are included in this report the following additional tables, viz.: tables treating on mine explosions, table showing the geological number of coal seam mined at each mine in the State and a table showing the name of the different coal carrying railroads. tonnage transported. It is with profound regret we record the death of Assistant Inspector Andrew Dodds, occurring December 25th, after a protracted illness extending from early in April. He

was appointed Assistant Inspector of Mines March 11, 1901, which position he filled until the time of his death. His inspection work, statistical and other reports were eminently satisfactory, not only to this office but to all parties concerned. Mr. Dodds entered the mines in Scotland when but a boy and emigrated to America while yet a young man. He was sixty-five years of age and had spent more than half a century in the mines of this country and Scotland; he had served in all of the various capacities in and about mines and his knowledge acquired during all these years of experience rendered him a valuable assistant to this department. Mr. Robert M. Irving of Cayuga, Vermillion County, was appointed Mr. Dodds' successor December 26. His work in connection with the office has been entirely satisfactory.

The following summary contains most of the important totals for the year:

SUMMARY.

Number of coal seams operated in the State	6
Number of coal producing counties	18
Number of counties having shipping mines	14
Number of coal carrying railroads (see foot note)	14
Number of traffic connections the coal roads have with other	
railroads	151
Number of new coal companies organized	7
Number of block coal mines	35
Number of bituminous mines	175
Number of new block coal mines opened	3
Number of new bituminous mines opened	10
Number of mines changing hands	10
Number of bituminous mines abandoned	8
Number of abandoned mines in block coal field	3
Number of electric chain machine mines	57
Number of compressed air punching machine mines	13
Total number of machine mines	70
Number of hand mines	140
Total number of mines employing more than ten men	210
Number of pick miners employed	9,343
Number of machine runners and helpers employed	879
Number of loaders employed	3,610
Number of inside day and monthly men employed	1,830
Total number of mine employes	19,562
Number of mules used	1,467
Number of kegs of powder used	427,025
Total number of days the mines have been operated	28,632
Number of tons of hand-mined block coal (screenings)	113,241
Number of tons of hand-mined block coal (run-of-mine)	26,890
Total number of hand-mined block coal	641,727

Number of tons machine-mined block coal (lump)	89,716
Number of tons machine-mined block coal (screenings)	15,227
Total tons machine-mined block coal	104,943
Total tons of all kinds of block coal	746,670
Number of tons hand-mined bituminous coal (lump)	1,997,135
Number of tons hand-mined bituminous coal (screenings)	1,246,808
Number of tons hand-mined run-of-mine bituminous coal	3,333,896
Total number of tons hand-mined bituminous coal	6,577,839
Number of tons machine-mined bituminous coal (lump)	1,495,729
Number of tons machine-mined bituminous coal (screenings)	839,649
Number of tons machine-mined run-of-mine bituminous coal	1,762,140
Total number of tons machine-mined bituminous coal	4,097,518
Total number of bituminous coal	10,675,357
Total tons of all kinds of coal produced	11,422,027
Number of tons of coal shipped outside the State	5,335,426
Number of tons coal consumed at home markets	6,086,601
Total wages paid to block coal miners	\$634,148.44
Total wages paid to inside day and monthly men at block coal	
mines	\$111,488.78
Total wages paid to outside day and monthly men at block coal	
mines	\$228,912.49
Total wages paid to block coal employes	\$974,549.71
Total wages paid to bituminous miners\$6	3,134,671.23
Total wages paid to inside day and monthly men at bituminous	
mines\$1	,987,693.57
Total wages paid to outside day and monthly men at bitumin-	
ous mines	\$876,126.87
Total wages paid to bituminous mine employes\$8	3,998,491.67
Grand total wages paid to mine employes\$9	
Total amount of money expended on improvements	
Number of fatal accidents	31
Number of serious accidents	104
Number of minor accidents	98
Total number of accidents to mine employes	233
Total number of serious accidents to mine property	5
Note.—The coal carrying railroads refer only to those trave	ersing coal

Note.—The coal carrying railroads refer only to those traversing coal producing counties and having mines situated along their lines.

TABLE

Exhibiting by Counties the Geological Number of Coal Seams Operated in the Bituminous Coal Fields of Indiana, and the Number of Tons Produced from Each Seam in 1906.

COUNTY.		Geological N	Number of Coal	I Seams and To	ons Mined.	
	II.	III.	IV.	v.	VI.	VII.
Clay		135,289 22,555	114,177	137,483 41,056	347,890	
Fountain. Fibson. Freene. Knox.		78, 135 253, 277	1,861,089	93,853 75,897 87,200	138,741	87,040
Parke. Perry. Pike.	7,644	222,403	3,870	465, 287	336, 340	
SullivanVanderburgh		119,316		275, 436 304, 080	1,632,762	119,898
Vermillion. Vigo. Warrick.			The second second second second	75, 151 315, 616	259,806 1,507,665	1,373,180 4,540
Total	7,644	830,955	2,157,817	1,871,059	4,223,204	1,584,65

TABLE

Showing by Months and by Counties the Number of Tons Mined and Wages Paid to Employes for the Year 1906 at Mines Employing More Than Ten Men.

CLAY	COUNTY.	DAVIESS	COUNTY.	
Tonnage.	Wages.	Tonnage.	Wages.	
108,707 118,463 176,937 18,309	\$106,178 77 112,948 47 137,079 74 16,909 01	7,974 8,710 8,798	\$9,161 (9,116 9 9,502 8	
9,060 67,121 88,355 105,082 97,193	10,012 73 68,238 53 98,824 75 112,597 64 108,933 07	727 1,985 4,387 6,771	1,449 4 2,363 5 4,324 6 8,379 7	
130,970 119,109 134,374	143,845 42 126,606 98 137,493 84	7,556 8,464 8,239	3,628 5 13,178 5 9,956 7	
	Tonnage. 108,707 118,463 176,937 18,309 9,060 67,121 88,355 105,082 97,193 130,970	Tonnage. Wages. 108,707 \$106,178 77 118,463 112,948 47 176,937 137,079 74 18,309 16,909 01 9,060 10,012 73 67,121 68,238 53 88,355 98,824 75 105,082 112,597 64 97,193 108,933 07 130,970 143,845 42 119,109 126,606 98 134,374 137,493 84	Tonnage. Wages. Tonnage. 108,707 \$106,178 77 7,974 118,463 112,948 47 8,710 176,937 137,079 74 8,798 18,309 16,909 01 9,060 10,012 73 67,121 68,238 53 727 88,355 98,824 75 1,985 105,082 112,597 64 4,387 97,193 108,933 07 6,771 130,907 143,845 42 7,556 119,109 126,066 98 8,464 134,374 137,493 84 8,239	

Table Showing by Months and by Counties the Number of Tons Mined, etc.—Con.

MONTHS.	FOUNTAIN	N COUNTY.	GIBSON CO	OUNTY.
MONTAIN,	Tonnage.	Wages.	Tonnage.	Wages.
January. February. March. April May. June. July. August. September. October. November.	7,989 5,936 7,633 5,162 6,163 7,088 6,605 6,695 5,331 7,632 6,022 5,876	\$7,650 51 5,863 37 6,604 87 5,084 22 6,020 58 7,103 75 6,476 97 6,812 25 5,723 06 6,075 57 5,725 83	10,066 14,887 14,860 1,350 4,898 7,114 7,800 11,408 10,500 11,470	\$11,167 83 12,317 30 13,260 55
Total	78,135	\$75,230 66	93,853	\$85,707 17
MONTHS.	GREENE	COUNTY.	KNOX CO	UNTY.
January. February. March. April. May. June. July. August. September. October. November. December. Total.	226, 162 265, 057 343, 060 12, 380 16, 289 119, 386 158, 321 173, 558 159, 459 213, 925 241, 995 261, 571	\$204,768 24 218,851 98 256,703 38 11,569 35 22,550 11 116,427 71 137,187 18 162,032 73 141,881 70 175,708 84 191,121 33 202,185 53 \$1,840,988 14	26, 411 31, 529 51, 025 5, 212 13, 750 17, 613 16, 443 17, 849 20, 423 31, 053 36, 644 45, 029	\$27, 379 49 26, 989 68 34, 868 74 5, 833 19 12, 578 34 16, 651 24 17, 842 73 16, 874 60 19, 816 51 28, 344 13 31, 081 60 34, 361 09
MONTHS.	PARKE	COUNTY.	PERRY C	OUNTY.
January. February. March. April. May. June. July. August. September. October. October. December.	82,611 94,774 114,188 22,576 23,278 46,079 57,310 64,011 65,446 92,331 83,243 80,776	\$76,708 96 87,438 31 102,427 43 16,866 03 18,480 65 47,666 21 56,355 03 66,544 65 69,330 54 89,125 75 99,051 41 81,348 52	504 555 583 779 778 718 499 717 600 535 750 626	\$510 42 670 78 555 33 705 95 875 37 744 54 608 07 794 68 13 656 34 715 00 664 33
Total	826,623	\$811,343 49	7,644	\$8,183 66

Tab!e Showing by Months and by Counties the Number of Tons Mined, etc.—Con.

	PIKE C	OUNTY.	SULLIVAN	COUNTY.
MONTHS.	Tonnage.	Wages.	Tonnage.	Wages.
January February. March April	46,661 57,610 68,867	\$38,393 01 44,553 18 50,930 43	267, 658 277, 318 355, 777 5, 821	\$218,371 6 220,168 5 257,805 5 6,278 2
May. June. July. August. September. October. November.	18,715 31,403 36,521 36,374 59,239 55,730	18,149 39 28,038 21 31,885 89 36,394 67 47,393 21 42,983 73	12, 428 113, 287 129, 992 175, 897 198, 080 275, 305 264, 090	12, 327 9 123, 865 4 136, 466 8 167, 140 1 182, 010 0 219, 938 6 224, 468 0
December	54, 167 465, 287	\$384,544 86	279,573	\$2,011,826 3
MONTHS.	VANDERBUR	GH COUNTY.	VERMILLIC	ON COUNTY.
January February March April May June July July September October November December	28, 811 27, 721 46, 048 10, 856 22, 058 20, 774 14, 104 19, 655 23, 004 37, 162 36, 082 33, 036	\$26,588 37 25,112 16 27,779 75 12,278 12 20,509 42 20,280 09 15,959 14 20,444 41 21,230 61 35,115 89 33,809 42 31,790 46	183,702 188,542 241,790 82,543 112,850 139,144 141,629 182,898 171,808 188,080	\$142, 138 3 142, 173 4 174, 458 7 78, 760 1 84, 057 8 112, 769 0 129, 312 6 145, 559 4 139, 587 3 149, 064 6
Total	319,311	\$290,897 84	1,632,986	\$1,299 638 2
1				
MONTHS.	VIGO CO	OUNTY.	WARRICK	COUNTY.
January February March. April May June July September October November	198, 427 205, 962 239, 433 17, 834 32, 114 95, 268 83, 984 109, 345 136, 972 157, 706	\$179, 393 63 174, 318 30 189, 227 98 14, 633 96 25, 730 06 91, 033 86 77, 976 78 102, 342 18 123, 737 60 139, 643 45 157, 797 76	36, 120 35, 322 53, 679 12, 691 16, 098 16, 486 27, 753 36, 361 34, 071	\$21,635 2: 21,219 2: 32,946 7: 9,131 8: 11,070 4: 10,872 3: 16,035 0: 21,649 5: 38,371 1:

1,631,175 \$1,433,549 45

\$207,780 04

315,616

REVIEW FOR 1906.

The fact that Indiana coal is still prominent in the home trade, forging ahead in adjoining states and adding new territory in the face of a strong competitive battle for markets is evidenced by a comparison of the output for 1906 with that of 1905. A heavy increase in the total production is noticed notwithstanding the prolonged strike of last spring, involving more than three-fourths of the largest producing mines in the State and extending over a period of about two and one-half months, the severe market congestion, the unusual car shortage, the numerous embargoes laid on coal from the Southern Indiana Railroad and the refusal of the Big Four to accept transfers from the Southern Railroad to Terre Haute. This latter condition resulted in considerable loss to operators along the Southern Indiana, and the matter on appeal from the shippers was finally referred to the State Railroad Commission for adjustment. The total production for 1906 was 11,-422,027 tons, an increase of 426,055 tons, or a fraction over 3.8 per cent. over 1905; 6,086,601 tons of this production was consumed in Indiana and 5,335,426 tons were shipped to other states. Prices were more irregular in range than for years past, touching the extreme minimum of 80 cents and a maximum of \$3.00 per ton mine run f. o. b. cars at the mine for bituminous coal. Of the total production, 746,670 tons was block coal, an increase of 87,935 tons over 1905. The price of block coal ranged from \$2.00 to \$2.75 per ton screened coal f. o. b. at the mine, \$2.35 being about a general average for the year. The maximum price referred to above grew out of the abnormal demand caused by the failure of the miners and operators to reach an agreement as to scale of prices and other mining conditions at their joint convention held in the latter part of January and the almost certain probability of a strike at the end of the scale year April 1st. From the time of the disagreement until April 1st all mines were operated to full capacity in anticipation of the pending strike, stocking up the market at prices ranging from one dollar and a half to three dollars per ton. The miners as predicted went out on April 1st, but resumed work in June when a still glutted market with no demand, owing to the previous heavy stocking, tumbled prices to the 80-cent level, from which they ranged to as much as \$1.10 during the summer months. With the commencement of the fall and winter trade, however, prices grew stronger, reaching \$1.45 per ton for run-of-mine during the winter months. Taking the year as a whole \$1.10 per ton for run-of-mine would probably be a fair average.

Considering the extraordinary high prices in February and March, the medium prices during the fall and winter months and the increased production, the operators have had a fairly prosperous year. The total wages paid in 1906 was \$9,973,041.38, an increase of \$561,233.67, or a fraction over 6.5 per cent. over 1905, while the total number of employes was 19,562, an increase of 953 or a fraction over 5.1 per cent. in employes over that of 1905. The aggregate wages paid show an average of \$510.75 per each person employed in the mines. From the above showing it is evident that the mine employes have also had a prosperous year.

A careful review of the mining industry in its many phases, i. e.: total production, wages paid, number of persons employed and other information given in descriptive tables, will prove beyond doubt that 1906 was the banner year in the history of mining in Indiana.

TABLE

Showing by Counties the Name of Mine, Number of Tons 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.

CLAY COUNTY.

		Масни	NE MINED.			PICK MINED.				DISTRIBUTION.		WAGES PAID.			
NAME OF MINE.	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal pro- duced.	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal pro- duced.	Indiana.	Other states.	To miners.	To inside day men.	To outside day men.	Total wages.	
Brazil Block No. 1	15,245	2,860		18,105	2,079	415		2,494	12,911	7,688	\$14 ,895 95	\$13,501 90	\$6,777 95	\$35,175 80	
Total	15,245	2,860		18, 105	2,079	415		2,494	12,911	7,688	\$14,895 95	\$13,501 90	\$6,777 95	\$35,175 80	

PARKE COUNTY.

Mary	43,689	4.770	 51,459	 	 	 51,459	\$31,578 82	\$18,548 09	\$5,875 96	\$56,002 87
Total	43,689	7,770	 ə1,459	 	 	 51,459	\$31,578 82	\$18,548 09	\$5,875 96	\$56,002 87

BLOCK HAND OR PICK MINES.

CLAY COUNTY.

		MACHIN	E 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 pro- duced.	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal pro- duced.	Indiana.	Other states.	To miners.	To inside day men.	To outside day men.	Total wages.
Brazil No. 7 Brazil No. 8 Continental No. 1					27, 137 30, 462 4, 256 9, 411 5, 745 47, 729 4, 814 28, 849 14, 255 15, 153 4, 593 3, 584 28, 072 15, 900	7,070 5,243 2,690 370 6,590 1,680 1,260 12,146 6,1300 6,580 3,138 3,370 	466 49 67 1,330 1,692 7,333 204 4,623 9,156	42, 376 31, 403 15, 667 2, 541 33, 727 38, 328 51, 091 7, 005 59, 942 6, 114 35, 423 20, 215 7, 333 34, 731 22, 355 9, 156 10, 934	5, 445 16, 152 1, 415 370 12, 158 38, 328 5, 255 5, 603 2, 686 16, 266 4, 069 16, 314 	36,931 15,251 14,252 2,171 21,569 	\$38, 964 33 228, 525 47 15, 070 62 2, 062 83 26, 885 81 36, 788 21 4, 146 25 9, 556 84 8, 234 81 51, 046 21 5, 779 01 32, 065 75 15, 183 65 10, 298 90 4, 900 05, 588 10 4, 932 96 29, 582 75 6, 824 15 7, 772 38, 607 53	\$10,765 03 7,691 81 6,224 65 566 42 9,783 61 12,672 17 2,212 08 4,964 20 2,645 45 12,440 50 3,015 19 12,038 77 7,013 10 10,886 18 3,821 37 2,690 11 0,1,866 35 2,632 70 3,325 26 3,325 26 3,325 26 3,325 26 3,325 26 3,325 26	\$7,101 81 6,024 19 4,392 67 4,148 21 3,317 63 5,954 14 1,105 85 2,383 82 1,525 11 4,970 42 1,750 70 5,040 13 3,506 50 1,204 94 1,204 94 4,596 82 4,596 82 1,179 50 1,762 97	\$56, 831 42, 241 25, 687 3, 047 39, 987 55, 414 7, 464 16, 904 12, 405 68, 457 10, 544 49, 144 25, 703 21, 659 16, 991 11, 291 8, 630 40, 780 9, 599 91, 595 11, 585

PARKE COUNTY.

Pan American Brazil Block No. 9 Brazil Block No. 12 Superior No. 1. Superior No. 2. Superior No. 3. Superior No. 5.				7,225 37,616 16,926 39,737 29,191 34,684 4,065	600 7,535 3,385 9,950 7,250 8,650 950	300 1,553	7,825 45,151 20,311 49,987 37,994 43,334 5,015	1,780 15,810 2,347 49,987 37,994 43,334 5,015	6,045 29,341 17,964	\$6,897 60 40,847 33 18,878 61 41,500 99 32,632 27 39,210 50 9,480 80	\$1,829 35 13,650 34 9,309 48 14,022 56 10,000 60 8,769 12 2,937 47	\$1,527 40 6,130 24 4,839 23 7,011 13 5,000 15 4,384 49 1,326 14	\$10,254 35 60,627 91 33,027 32 62,534 68 47,633 02 52,364 11 13,744 41
Total			 	169,444	38, 320	1,853	209,617	156, 267	53, 350	\$189,448 10	\$60,518 92	\$30,218 78	\$280,185 80
						VIGO C	COUNTY.					1 3 3 3 5	
Domestic Block	30,782	4,597	 35, 379	4,767	2,548	117	7,432	18,127	24,684	\$39,408 48	\$9,515 79	\$6,193 11	\$55,117 38
Total	30,782	4,597	 35, 379	4,767	2,548	117	7,432	18, 127	24,684	\$39,408 48	\$9,515 79	\$6,193 11	\$55,117 38
					F	RECAPIT	ULATION						
Total pick mined block			 	494,750	110,278	26,773	631,801	351,656	280, 145	\$548,265 19	\$187,346 71	\$92,641 76	\$828,253 66
Total machine mined block coal	89,716	15,227	 104,943	6,846	2,963	117	9,926	31,038	83,831	85,883 25	41,565 78	18,847 02	146,296 05
Total block coal	89,716	15,227	 104,943	501,596	113,241	26,890	641,727	382,694	363,976	\$634,148 44	\$228,912 49	\$111,488 78	\$974,549 71

BITUMINOUS MACHINE MINES.

CLAY COUNTY. .

Gifford No. 1. Gifford No. 2. Lewis. Vivian No. 2. Gold Knob Island Valley No. 4.	9,225 34,834 47,102 5,372 9,264 19,588	2,825 13,811 37,945 6,026 3,423 11,567	38, 314 41, 890 2, 531 29, 734	12,050 48,645 123,361 53,288 15,218 60,889	3,720 17,103 16,682	790	6,366	3,720 17,893 29,769	12,702 90,695 44,274 20,804 39,024	3,068 66,538 32,666 9,014 24,183 21,865	\$9,647 98 37,873 38 62,343 92 25,237 11 24,603 66 25,485 16	\$5,981 85 19,597 91 12,387 20 9,965 86 9,844 02 9,002 27	\$1,714 17 5,453 26 10,575 25 4,910 31 7,777 97 4,839 55	\$17,344 00 62,924 55 85,306 37 40,113 28 42,225 65 39,326 98
Total	125, 385		112,469	313,451	37,505	7,511	6,366	51,382	207,499	157,334	\$185,191 21	\$66,779 11	\$35,270 51	\$287,240 83

BITUMINOUS MACHINE MINES—Continued,

GREENE COUNTY.

		Масни	NE MINED			Ріск	MINED		DISTRIB	UTION.		WAGE	s Paid,	
NAME OF MINE.	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal pro- duced.	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal pro- duced.	Indiana.	Other states.	To miners.	To inside day men.	To outside day men.	Total wages.
Black Creek Blenburn Vandalia No. 2 Vandalia No. 5 Vandalia No. 5 Vandalia No. 8 Vandalia No. 9 Vandalia No. 9 Identify No. 21 Ilmour Hoosier No. 1 Ididand Lattas Creek Summitt No. 2. Green Valley North West Fwin No. 5.	31,400 9,704 44,861 38,790 12,169 26,871 8,656 14,414 79,832 33,564 32,943 29,814 61,029 429,047	15,556 6,365 20,666 17,546 8,654 16,757 5,382 6,410 78,463 21,509 19,387 16,314 22,722	7,117 5,084 40,609 11,258 50,577 41,180 12,883 87,026 6,853 7,645 30,852 78,142 31,8617 61,044	54, 073 21, 153 40, 609 76, 785 106, 913 62, 003 56, 511 87, 026 20, 891 128, 469 189, 147 133, 215 89, 443 64, 745 144, 795	19, 886 26, 515 33, 691 3, 736 5, 019 1, 046 7, 237 16, 335	10, 468 14,014 16, 425 2, 192 2, 586 	5,770 15,364 91,072 10,020 4,259 8,617 1,102 957 9,478	36, 124 55, 893 91, 072 60, 136 10, 187 16, 222 2, 148 8, 194 34, 500	60, 180 51, 158 130, 535 129, 372 109, 963 76, 969 51, 362 37, 827 	30, 017 25, 888 1, 146 7, 549 7, 137 1, 256 5, 149 49, 199 23, 039 28, 469 197, 341 38, 060 32, 736 41, 775	\$47,381 17 45,860 57 69,671 24 79,030 73 58,821 98 41,184 35 25,955 73 61,436 00 12,414 92 14,572 84 112,621 21 65,908 60 42,884 25 55,304 56 83,020 45	\$17,910 40 15,303 41 29,292 78 30,284 05 30,687 84 15,463 46 6,549 75 17,721 00 7,091 19 4,734 16 41,197 85 32,250 53 15,132 83 21,118 67 20,193 55	\$8,010 61 8,624 20 7,994 17 12,564 00 8,992 90 6,484 60 5,253 70 5,730 00 4,112 00 2,819 71 13,999 46 12,803 09 7,346 71 7,674 53 11,059 41	\$73, 302 18 69, 788 18 106, 958 19 121, 878 78 98, 502 72 63, 132 41 37, 759 18 84, 887 00 23, 618 11 22, 126 71 167, 818 82 110, 962 22 65, 363 72 14, 273 41 \$1,244,469 16
							KNOX (COUNTY.						
Knox	565 5,043 8,261 6,179	381 3,420 37,760 3,085	4,987 24,593 7,553 12,104	5,933 33,056 53,574 21,368	2,211 1,921	2,202 1,288	13,222 5,999	17,635 9,208	16,673 30,797 38,359 18,211	6,895 11,467 15,215 3,157	\$11,016 91 18,526 41 30,487 40 6,652 10	\$5,750 83 8,120 55 19,506 10 3,104 55	\$3,720 52 6,282 43 6,358 40 4,090 08	\$20,488 20 32,929 30 56,351 90 13,846 73
Total	20,048	44,646	49,237	113,931	4,132	3,490	19,221	26,843	104,040	36,734	\$66,682 82	\$36,482 03	\$20,451 43	\$123,616

PARKE COUNTY.

Mecca No. 3	14,523		6,521 59,035 124,309	28,711 59,035 124,309	35,554	16,230	17,399 89,117 22,172	69,183 89,117 22,172	56,726 111,213 119,068	41,168 36,939 27,413	\$61,404 95 75,784 45 76,319 04	\$21,362 46 26,810 63 24,806 31	11,977 13	\$89,131 45 114,572 21 109,808 02
Total	14,523	7,667	189,865	212,055	35,554	16,230	128,688	180,472	287,007	105,520	\$213,508 44	\$72,979 40	\$27,023 84	\$313,511 68

SULLIVAN COUNTY.

BITUMINOUS MACHINE MIENS-Continued.

VIGO COUNTY.

		MACHIN	E MINED.			Ріск	MINED.		DISTRIB	UTION.		WAGES	PAID.	
NAME OF MINE.	Tons of screened coal.		Tons of mine run.	Total tons of all kinds of coal pro- duced.	Tons of screened coal.	Tons of slack and nut.	Tons of mine run.	Total tons of all kinds of coal pro- duced.	Indiana.	Other states.	To miners.	To inside day men.	To outside day men.	Total wages.
AthertonVandalia No. 82Ray No. 2Forrest.	34,830 2,516 1,705	18,968 1,403 1,149	4,666 44 4,294 57,733	58,464 3,963 7,148 57,733	1,358 10,106 43,420	812 6,812 23,391	166 163 114,971	2,336 17,081 181,782	6, 104 17, 470 104, 381 36, 500	54,696 3,574 84,549 21,233	\$29,662 88 10,855 13 115,557 65 39,010 00	\$15,485 15 5,840 09 30,310 46 7,610 00	\$6,795 47 1,634 70 8,844 87 4,556 00	\$51,943 5 18,329 9 154,712 9 51,176 0
Total	39,051	21,520	66,737	127, 308	54,884	31,015	115,300	201,199	164,455	164,052	\$195,085 66	\$59,245 70	\$21,831 04	\$276,162 4

WARRICK COUNTY.

Big Four. Big Vein No. 3. Pe Forrest. Electric. Dawson. Frie Canal. Dastle Garden			56,531 42,104 6,588 108,586 2,428 18,744 13,007	76,272 42,104 9,968 108,586 2,428 18,744 13,007	1,820	1,017	11, 110 2, 182 13, 683	11,110 5,019 13,683	58,488 53,214 13,002 56,647 9,427 12,666	17,784 1,985 51,939 2,428 9,317 14,024	\$33,156 43 25,244 55 7,159 05 44,130 92 1,037 67 7,559 15 13,921 72	\$9,153 11 6,312 20 1,386 07 19,726 74 386 19 2,980 53 3,041 29	\$5,408 08 4,056 90 1,040 74 5,515 86 282 24 1,929 24 1,388 10	\$47,717 62 35,613 65 9,585 86 69,373 52 1,706 10 12,468 92 18,351 11
Total	14,106	9,015	247,988	271,109	1,820	1,017	26,975	29,812	203,444	97,477	\$132,209 49	\$42,986 13	\$19,621 16	\$194,816 78

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BITUMINOUS HAND OR PICK MINES,

CLAY COUNTY.

		Ріск	MINED.		DISTRI	BUTION.		WAGES	PAID.	
NAME OF MINE.	Tons of Screened Coal.	Tons of Slack and Nut Coal.	Tons of Mine Run Coal.	Total Tons of all Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages Paid.
Vandalia No. 50 Vandalia No. 60 Vandalia No. 63 Vandalia No. 64. Vandalia No. 65. Fortner. Viyian No. 1 Klondyke No. 2	13,641 43,792 26,601 7,210 85,961 10,407 4,049 27,991	5,048 27,623 17,523 3,787 49,180 3,715 3,945 19,832	5,413 2,114 107 12,067	18,689 76,828 46,238 11,104 147,208 14,122 7,994 47,823	13, 291 71, 234 40, 519 9, 829 136, 351 6, 752 47, 236	5, 398 5, 594 5, 719 1, 275 10, 857 14, 122 1, 242 587	\$16,151 00 46,099 31 27,510 37 6,184 51 86,867 96 9,963 92 5,625 65 28,328 74	\$7,239 23 12,604 41 15,735 72 1,363 42 17,192 07 2,024 97 1,005 16 8,042 39	\$2,975 55 5,832 22 4,926 70 1,064 42 7,166 42 2,056 78 3,103 53 3,816 61	\$26,365 78 64,535 94 48,172 79 8,612 35 111,226 45 14,045 67 9,734 34 40,187 74
Total	219,652	130,653	19,701	370,006	325, 212	44,794	\$226,731 46	\$65,207 37	\$30,942 23	\$322,881 06
			DA	VIESS COUNT	Υ.					
Stucky Montgomery No. 3 Mutual Mandabach Total	12,668 9,505 570 22,743	1,100 1,850 192 3,142	2,471 20,835 11,200 3,220 37,726	2,471 34,603 22,555 3,982 63,611	2,471 34,603 15,205 3,982 56,261	7,350	\$1,644 72 22,715 07 21,766 30 2,343 21 \$48,469 30	\$290 40 8,375 73 5,016 50 434 60 \$14,117 23	\$311 33 5,151 40 2,547 60 464 30 \$8,474 63	\$2,246 45 36,242 20 29,330 40 3,242 11 \$71,061 16
			FOU	NTAIN COUN	ry.					
Indio	34,843 369	15,905 216	8,335 18,467	59,083 19,052	59,083 19,052		\$39,109 75 12,415 18	\$10,627 74 4,890 97	\$5,118 50 3,068 52	\$54,855 99 20,374 67
Total	35,212	16,121	26,802	78,135	78,135		\$51,524 93	\$15,518 71	\$8,187 02	\$75,230 66

BITUMINOUS HAND OR PICK MINES—Continued,

GIBSON COUNTY.

		Pick I	MINED.		Distri	BUTION.		WAG	es Paid.	
NAME OF MINE.	Tons of Screened Coal.	Tons of Slack and Nut Coal.	Tons of Mine Run Coal.	Total Tons of all Kinds of Coal Produced.	Indiana.	Other States.	To M iners.	To Inside Day Men.	To Outside Day Men.	Total Wage Paid.
Fort Branch Oswald Massey	22,872 2,272	24,528 2,399	3,482 27,520 10,780	3,482 74,920 15,451	3,482 74,920 11,271	4,180	\$2,103 47 45,734 42 10,662 08	\$631 77 13,496 31 2,681 92	\$526 33 8,045 05 1,825 82	\$3,261 5 67,275 7 15,169 8
Total	25,144	26,927	41,782	93,853	89,673	4,180	\$58,499 97	\$16,810 00	\$10,397 20	\$85,707 1
			1	1				f		
Midvale Sponsler. Antioch North Linton Vandalia No. 3. Vandalia No. 4. Vandalia No. 6. Letsinger. Tower Hill. Vulcan. Victoria Queen.	21,146 46,271 5,518 	6,591 4,060 3,164 12,331 21,636 2,973 10,363 2,850 39,907 3,027	12, 150 34, 297 39, 901 12, 510 48, 528 42, 799 10, 481 36, 587 84, 392 10, 503 44, 088 16, 696	32, 002 47, 102 49, 595 45, 937 116, 435 51, 290 10, 481 51, 865 117, 825 19, 386 129, 925 23, 116	8,933 31,330 31,193 28,076 114,211 50,301 10,481 17,039 5,689 120,801 21,175	23,069 15,772 18,402 17,911 2,224 989 	\$21,782 77 29,825 95 30,980 46 29,559 65 69,913 55 28,759 37 5,185 54 38,118 77 73,370 63 11,996 99 76,914,92 15,507 36	\$4,582 93 7,830 83 12,581 21 9,318 62 18,773 50 7,962 93 2,496 09 6,810 43 14,333 10 1,836 18 17,996 18 4,443 80	\$2,085 94 4,768 98 6,188 69 5,372 58 6,172 38 3,157 34 922 91 4,824 35 8,798 95 2,331 70 8,200 70 2,812 70	\$28,451 6 42,425 7 49,750 3 44,250 8 94,859 4 39,879 6 8,604 5 49,753 5 96,502 6 16,164 8 103,111 8 22,763 8
Total	195, 175	106,902	392,932	695,009	439,229	255,780	\$431,915 96	\$108,965 80	\$55,637 22	\$596,518

KNOX COUNTY.

Bicknell. Prospect Hill Vandalia No. 40. Wheatland	15,073	12,898	34,526 17,334 8,540 69,706	62,497 17,334 22,670 69,706	48, 354 17, 334 21, 536 69, 706	14,143	\$39,866 78 11,800 99 13,427 48 37,929 73	\$8,927 40 5,054 21 6,154 24 8,366 57	\$6,738 48 3,002 48 3,036 01 4,700 69	\$55,532 (19,857 (22,617 (50,996 (
Total	20,980	21,121	130,106	172,207	156,930	15,277	\$103,024 98	\$28,502 42	\$17,477 66	\$149,005
			PAR	KE COUNTY						
Lyford No. 1. Vandalia No. 316. Vandalia No. 317. Harrison	6,361 38,636 44,362	4,025 18,702 19,841	31,321 2,578 390 3,870	41,707 59,916 64,593 3,870	40, 169 43, 739 3, 870	41,707 19,747 20,854	\$26,368 74 \$39,927 25 43,610 90 2,212 62	\$8,290 08 13,652 06 12,351 88 504 44	\$5,910 20 4,153 94 4,463 03 198 00	\$40,569 57,733 60,425 2,915
Total	89, 359	42,568	38, 159	170,086	87,778	82,308	\$112,119 51	\$34,798 46	\$14,725 17	\$161,643
				RY COUNTY						
Troy			7,644	7,644	7,644		\$5,106 68	\$1,753 63	\$1,323 35	\$8,183
Total			7,644	7,644	7,644		\$5,106 68	\$1,753 63	\$1,323 35	\$8,183
			PIE	E COUNTY.	Program .		12 1			
Aberdeen (Idle). Carbon (Idle). Ayrshire No. 3. Ayrshire No. 4. Ayrshire No. 5. Cogers. Blackburn.	32,585 65,392 306	18,583 46,541 252	14, 310 37, 351 13, 124 5, 100 29, 741	65,478 149,284 13,682 5,100 29,741	38, 215 58, 251 7, 948 5, 100 26, 177	27,263 91,033 5,734	\$35,432 38 88,400 97 7,978 56 2,749 08 16,134 02	\$11,161 77 27,337 50 2,822 69 474 54 4,643 78	\$5,030 06 10,367 21 2,335 91 297 42 3,516 51	\$51,624 126,105 13,137 3,521 24,294
Attles Iartwell No. 1. Petersburg (Idle). Vinslow No. 4 (Idle). Vinslow No. 5 (Idle).	44,589 17,040	58,201 8,515	13,294	116,084 76,588	69, 382 50, 845	46,702 25,743	64,162 79 48,694 81	15,238 60 17,647 94	5,626 95 6,128 64	85,028 72,471
Hartwell No. 2.			9,330	9,330	9,330		6,660 20	1,190 49	512 04	8,362
Total	159,912	132,092	173,283	465, 287	265, 248	200,039	\$270,212 81	\$80,517 31	\$33,814 74	\$384,544

BITUMINOUS HAND OR PICK MINES-Continued,

SULLIVAN COUNTY.

		Pick I	MINED.		DISTRIBU	ITION.		WAGE	s PAID.	
NAME OF MINE.	Tons of Screened Coal.	Tons of Slack and Nut Coal.	Tons of Mine Run Coal.	Total Tons of all Kinds of Coal Produced.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages
Cummins. Consolidated No. 31 Vandalia No. 10. West Linton (Idle).	2,664 40,896	2,017 22,118	3,208 11,417 55,098	3,208 16,098 118,112	1,208 3,343 116,421	2,000 12,755 1,691	\$2,670 00 8,675 84 71,718 52	\$905 00 2,056 87 17,230 46	\$525 00 1,033 00 7,079 52	\$4,100 00 11,765 71 96,028 50
Freeman Dering No. 12 Superior Semi Block (Idle)		11,967 21,531	43,274 546 35,638	43,274 31,508 85,182	56,559	43,274 31,508 28,623	24,850 35 18,092 00 55,115 93	9,540 00 9,721 25 21,061 87	5,301 00 3,006 10 5,930 52	39,691 33 30,819 33 82,108 33
Total	90,568	57,633	149,181	297, 382	177,531	119,851	\$181,122 64	\$60,515 45	\$22,875 14	\$264,513 2

VANDERBURGH COUNTY.

Union (Idle). Unity. First Avenue. Sunnyside. Diamond	35,826 16,236 20,471 22,550 3,807	29,881 10,283 11,692 14,342	76,471 11,633 9,708 8,750 32,430	142,178 38,152 41,871 45,642	142,178 38,152 26,506 45,642	15, 362	\$87,618 65 25,639 36 31,684 92 26,205 03	\$23,023 80 6,498 43 14,351 14 8,610 72	\$10,287 38 5,368 50 9,883 72 5,477 28	\$120,929 83 37,506 29 55,919 78 40,293 03
Ingleside	3,807		32,430	36, 237	36, 237		24,236 35	5,759 96	6,252 60	36,248 91
Total	98,890	66, 198	138,992	304,080	288,718	15, 362	\$195,384 31	\$58,244 05	\$37,269 48	\$290,897 84

VERMILLION COUNTY

Dering No. 5	27, 376 5, 878	20,689 3,704	105,480 187,213	153,545 $196,795$		153,545 196,795	\$81,555 23 105,457 30	\$31,463 27 36,987 31	\$6,280 42 7,239 10	\$119,298 92 149,683 71
Dering No. 7			170,708	170,708	170,708		90,881 34	31,835 75	7,758 34	130,475 43
Dering No. 8 Dering No. 15	38,837	27,475	89,052 71,023	155, 364 71, 023		155, 364 71, 023	84,376 86 38,550 10	37,536 83 16,096 35	7,657 79 5,273 51	129,571 48 59,919 96
Eureka No. 1 Crown Hill No. 1	18, 180	6,051 14,500	18,075 56,055	18,075 80,286	18,075 15,150	65,136 148,345	10,844 72 61,622 35	3,760 58 13,641 98	3,445 98 3,711 74	18,051 28 78,976 07
Dering No. 50	17,078 1,836	14,500 1,510	116,767 154,625	148, 345 157, 971		148, 345 157, 971	85,619 01 94,304 88	17,346 55 18,439 17	9,383 00 8,020 15	112,348 56 120,764 20
Dering No. 20 Prince	18, 180 17, 078 1, 836 18, 395 8, 098	1,510 15,275 9,650 14,869	159,390 105,780	193,060 123,528		193,060 123,528	112,474 94 74,014 98	18,958 60 18,098 41	8,343 40 5,538 22	139,776 94 97,651 61
Crown Hill No. 2	44,670	14,869	104,747	164,286	26,863	137,423	116,063 75	21,983 08	5,073 28	143, 120 11
Total	180, 348	113,723	1,338,915	1,632,986	230,796	1,402,190	\$955,765 46	\$266,147 88	\$77,724 93	\$1,299,638 27

VIGO COUNTY.

Chicago No. 6 (Idle)						The state of the s				1
Diamond	13,058	5,107	9,050	27, 215	27, 215		\$16,358 30	\$4,977 80	\$3,575 05	\$24,911 1
Victor	12,268 102,212	6,797 57,454 9,866	9,143	28,208	16,297	11.911	19,053 65	4,893 50	3,375 25	27, 322 4
Lawton	102 212	57, 454	17,500	177, 166	177,166		115,466 30	28, 761 95	8,787 45	153,015 7
Grant No. 2.	11 417	0 866	64, 393	85,676	76,975	8,701	50,118 26	23,725 83	8, 355 69	82,199 7
Vandalia No. 67.	11,417 88,503	44,671	27,250	160, 424	148,697	11,727	99,056 20	29, 251 28	7,081 39	135, 388 8
Vandalia No. 68.	21,152	11,928	999	34,079	31,493	2 500	21,176 05	11,881 83	4,804 52	37,862 4
Vandalia No. 69.	21, 102	16, 269		37,472	33,007	2,586 4,465		10,001 00	4,004 02	38,772 3
Vandalia No. 09	20, 124 8, 401 21, 358 64, 409 41, 509 56, 739 18, 894	10,209	1,079	37,472	33,007	4,400	21,563 75	12,974 54	4,234 05	38,772 3
Vandalia No. 80.	8,401	6,112 19,055	640	15, 153 52, 922	10,583	4,570	7,464 41	5,282 03	1,074 28	13,820 7
Vandalia No. 81	21,358	19,055	12,509	52,922	37,370	15,552	29,570 67	8,956 20	4,759 64	43,286 5
Miami No. 1	64,409	73,028		137,437		137,437	84,167 38	23,453 91	6,388 58	114,009 8
Miami No. 2	41,509	42,179	40,575	124, 263			78,009 14	16,639 99	6,486 35	101,135 4
Miami No. 3.	56,739	30, 275	31,520	118,534		118,534	72,532 29	13,545 13	4,679 41	90,756 8
Fauvre No. 1.	18,894	42,179 30,275 14,202	31,520 7,227	40, 323	40,323		20,704 95	11,688 59	2,838 63	35, 232 1
Larimer			4,540	4,540	4,540		2,593 80	1.054 66	434 00	4,082 4
Deep Vein.	41,772	28,377	30,391	100,540	60, 375	40,165	64,675 92	12,694 90	9,099 99	86,470 8
Fauvre No. 2	1,253	768	433	2,454	2,454	10,100	1,370 56	1.836 17	1 050 59	4,257 3
Sugar Vallay	1,200	100	1,185	1,185	1,185			103 40	1,050 59 200 00	919 6
Dowing No. 10			30,186	30,186	30, 186		15,666 30	6,746 35	2,443 35	24 956 0
Sugar Valley	44 949	20 746	7.084		75, 694	5,378	46,977 12	17,413 33	5,882 21	24,856 0 70,272 6
vandana No. 00	44, 242	29,740	7,084	81,072	75,094	5,378	40,977 12	17,413 33	5,882 21	10,212 6
Total	567, 311	395,834	295,704	1,258,849	773,560	485, 289	\$767,141 25	\$235,881 39	\$85,550 43	\$1,088,573 0

BITUMINOUS HAND OR PICK MINES-Continued,

WARRICK COUNTY.

NAME OF MINE.		PICK MINED.				BUTION.	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.	Indiana.	Other States.	To Miners.	To Inside Day Men.	To Outside Day Men.	Total Wage Paid.
ir Line (Idle). nandler. ar No. 1. urke (Idle).			5,907 8,788	5,907 8,788	5,907 8,788		\$3,810 90 5,103 42	\$1,102 05 1,394 68	\$819 35 732 86	\$5,732 3 7,230 9
			2 22 24 24 24 25 25		Parket Stranger Stranger		200000000000000000000000000000000000000			

RECAPITULATION.

Showing Total Production and Wages of Indiana Mines for 1906.

TOTAL PRODUCTION OF BLOCK COAL.

	MACHINE MINED.			PICK MINED.				DISTRIBUTION.		Wages.				
	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	Indiana.	Other States.	Miners.	To Inside Day Men.	To Outside Day Men.	Total Wages Paid.
Total machine mined block coal Total pick mined block coal	89,716	15,227		104,943	6,846 494,750	2,963 110,278		9,926 631,801	31,038 351,656	83,831 280,145	\$85,883 25 548,265 19		\$18,847 02 92,641 76	\$146, 296 05 828, 253 66
Total block coal	89,716	15,227		104,943	501,596	113,241	26,890	641,727	382,694	363,976	\$634,148 44	\$228,912 49	\$111,488 78	\$974,549 7

TOTAL PRODUCTION OF BITUMINOUS COAL.

Total bituminous machine mined coal Total bituminous pick	29 839,649 1,762,140 4,097,518	291,841	133,894	528, 274	954,009	2,712,497	2,339,030	\$2,718,737 65	\$998,217 14	\$470,175 46	\$4,187,130 25
mined coal	29 839,649 1,762,140 4,097,518							3,415,933 58 6,134,671 23			4,811,361 42 8,998,491 67
coal	45 854,876 1,762,140 4,202,461					2,743,535			1,039,782 92		4,333,426 30
coal			1,223,192	2,832,395				2000	1,176,823 14		5,639,615 08
Grand Total 4,084,1	76 2,214,925 5,122,926 11,422,027					6,086,601	5, 335, 426	\$6,768,819 67	\$2,216,606 06	\$987,615 65	\$9,973,041 38

LABOR.

Joint Conferences Coal Miners and Operators of Western Pennsylvania, Ohio, Indiana and Illinois.

Indianapolis, Ind., January 25 to February 2, and March 20 to 29, 1906.

The following is a brief history of the proceedings of the National Convention of miners and operators of Western Pennsylvania, Ohio, Indiana and Illinois and the strike resulting therefrom April 1, 1906. The National Convention of miners and operators met in Tomlinson Hall January 25th for the purpose of arranging prices and conditions to govern the scale year beginning April 1, 1906.

FIRST CONFERENCE—JANUARY 25, 1906.

The joint convention of miners and operators was called to order at 2 o'clock, p. m., with Mr. John Mitchell, National President of the United Mine Workers, acting as temporary chairman. The convention was organized by electing Mr. G. W. Traer (operator) of Illinois permanent chairman, W. B. Wilson (National Secretary to the Miners' Organization) as permanent Secretary and C. L. Scroggs (miner) of Illinois Assistant Secretary. The remainder of the day was consumed in the selection of various committees and other routine work incident to governing the convention.

January 26.

The joint convention was called to order at 4:15 p. m., with Mr. G. W. Traer in the chair. The first order of business transacted was the selection of the members of the scale committee and alternates. When the roll call of States was made Chairman Traer announced the Convention ready to proceed with its business.

Immediately following this announcement, Mr. Mitchell on the part of the miners made the following motion, to wit: That there be a general advance of 12½ per cent. over the present scale of wages, that the advance be on the run-of-mine basis, with a proper run-of-mine price for all of the states covered by the proposition; and that the differential between pick and machine mining be 7 cents per ton. After some little discussion on the proposition the convention adjourned until 9 o'clock, a. m., the following day.

January 27.

The convention was called to order at 9:30 o'clock by Chairman Traer. The forenoon of the session was taken up in a discussion of the uniform scale, the 7 cents differential between pick and machine mining and the shot firers' bill in Illinois, but with little headway. A vote was taken (on Mr. Mitchell's motion made the previous day) which lost, the miners voting in the affirmative and the operators in the negative. Just before the hour for adjournment Mr. Robins moved the matter of scale be referred to the joint scale committee (seconded by Mr. Mitchell), the miners and operators both voting in the affirmative. The joint convention was adjourned to wait the call of the committee.

JOINT SCALE COMMITTEE.

The Joint Scale Committee met and organized by electing Mr. W. D. Ryan (Secretary and Treasurer of the Miners' Organization of Illinois) as permanent chairman, C. L. Scroggs Secretary, W. D. Wilson and T. S. Brooks assistant secretaries, and adjourned to meet at 1:30 o'clock, p. m., in the palm room of the Claypool Hotel.

The first regular session of the Joint Scale Committee was called to order at 1:30 o'clock p. m., in the palm room of the Claypool Hotel, and after adopting rules, etc., to govern the deliberations of the committee, adjourned to meet at 10 o'clock a. m., Monday, the 29th.

January 29.

The Joint Scale Committee was called to order at 10 o'clock, a. m. Mr. Mitchell presented the miners' proposed scale in full, which read as follows:

PROPOSED SCALE.

We demand:

1st. A general advance of $12\frac{1}{2}$ per cent. over the present scale of wages.

2d. To be paid on a run-of-mine basis with a proper relative run-of-mine price for all States covered by the contract.

3d. That the differential between machine and pick mining shall be 7 cents per ton.

4th. That a uniform outside day wage scale be established.

5th. That all yardage and dead work be advanced 12½ per cent.

6th. That no boy under 16 years of age be employed in or around the mines.

7th. That our contract become effective April 1, 1906, and expire March 31, 1907.

8th. That eight hours from bank to bank shall constitute a day's work.

9th. That when the men go into the mine in the morning they shall be entitled to two hours' pay whether or not the mine works the full two hours, that the men shall be paid for every hour thereafter by the hour for each hour or fractional part thereof. If, for any reason, the regular routine work can not be furnished the inside labor for a portion of the first two hours, the operators may furnish other than regular labor for the unexpired time.

10th. That the check-off for the collection of dues, initiation fees, fines and assessments levied by the United Mine Workers of America become a part of the Interstate Joint Agreement.

11th. That internal differences in any of the States or districts, both as to prices and conditions, shall be referred to the States or districts affected for adjustment.

When the scale had been read Mr. Mitchell moved its adoption (seconded by Mr. H. C. Perry, miner).

A motion was then made by Mr. Robins that the scale be taken up by sections. No objection being made Mr. Robins' motion was accepted, and the committee proceeded to discuss the scale in sections one by one. Several paragraphs of the proposed scale were debated during the two following days, Messrs. Penna, Mitchell, Robins, Winder, Wilson and Taylor taking the more prominent parts in the discussion. Little of interest transpired until the afternoon session of the 31st.

January 31.

The Joint Scale Committee was called to order at 4 o'clock, p. m., W. D. Ryan in the chair.

Mr. Taylor on the part of the operators offered the following, to wit: That the present interstate agreement be continued for one year from April 1, 1906; that the mining price at Danville, the basing point for Illinois, be 52 cents per ton for mine run coal loaded on the cars at the face, including the inspecting and shooting of shots, the timbering and care of working places and in machine mines the proper snubbing of the coal. This proposition on being put to a vote lost, the operators of the four states voting in the affirmative, the miners voting in the negative. Mr. Robins then moved to adjourn until 9 o'clock a. m. the following day. Mr. Wilson amended the motion to adjourn to meet the joint convention but withdrew the amendment and the committee adjourned to meet at 9 o'clock, February 1st.

February 1.

The Committee was called to order at 9 a. m., and Mr. Robins moved the scale adopted two years prior be adopted by this convention, covering the scale years from April 1, 1906, to March 31, 1907. Motion amended by Mr. Taylor that at Danville, the basing point of Illinois, the price per ton mine run loaded on the cars at the face be 52 cents, including the inspecting and shooting of shots and timbering and care of the working places and the proper snubbing of the coal. The amendment and motion on being put to a vote (separately) lost, the miners voting in the negative and the operators in the affirmative. A motion was then made and carried that the joint scale committee adjourn to meet the joint convention at 2 p. m.

JOINT CONVENTION.

Report of Joint Scale Committee.

The Joint Convention was called to order at 2 p. m. Secretary Scroggs read the report of the Joint Scale Committee. The report included the various paragraphs acted on, nearly all of which lost; also the motion and amendment made by Messrs. Robins and Taylor and the action taken thereon. After some further debate on part of Mr. Mitchell and Mr. Robins the convention adjourned to meet at 9 o'clock a. m., February 2d, the miners remaining for a separate session.

February 2.

The Joint Convention was called together at 9 o'clock, a. m., with Colonel Randolph Smith in the chair.

Mr. Mitchell: Yesterday afternoon our own convention endorsed the action of our scale committee in refusing to accept a settlement on a basis of the present settlement.

Mr. Robins, in order to have the records of this convention right, offered the same motion as made by him the day previous.

Mr. Taylor also made the same amendment as offered the day previous. On roll call of the States the amendment lost, the miners voting in the negative and the operators in the affirmative.

After considerable discussion Mr. Robins' motion was put to a vote. The roll call of the four States was as follows: The operators of Illinois did not vote, operators of Ohio, Indiana and Western Pennsylvania voted in the affirmative. The miners of Illinois, Indiana and Ohio voted in the negative. Mr. Dolan voted in the affirmative for Western Pennsylvania, the other delegates from that

District voted in the negative. Mr. Robins then moved to adjourn sine die, which carried, the convention adjourning without an agreement having been made.

Interstate Convention 1906.

Second Conference-March 20th to 29th.

Pursuant to the suggestion of President Roosevelt in a letter addressed (each) to National President John Mitchell and Francis L. Robins a second joint convention was called. This convention was called to order in Tomlinson Hall at 2 o'clock p. m., March 20, 1906, and organized by electing Mr. G. W. Traer of Illinois Chairman, W. B. Wilson Secretary and Messrs. T. S. Brooks and C. L. Scroggs Assistant Secretaries.

After the various committees (including scale committee) had been selected and other routine work accomplished President Mitchell on behalf of the miners offered the same scale of wages, conditions of labor, etc., as offered at the former conference and moved its adoption, which was seconded by Mr. Wilson. The motion was immediately voted on and lost, the miners voting in the affirmative and the operators in the negative. After other preliminary work had been gone through Mr. Robins offered a motion that the matter of scale be referred to the Joint Scale Committee and that the Joint Scale Committee meet the following morning at 9 o'clock in the Claypool Hotel, and that the convention adjourn (seconded by Mr. Mitchell). All operators and miners voting in the affirmative, the motion was declared carried and the convention adjourned to wait the call of the committee.

JOINT SCALE COMMITTEE.

March 21.

The Joint Scale Committee was called to order at 9 o'clock a. m. in the palm room of the Claypool Hotel and organized by electing W. D. Ryan, Chairman; C. L. Scroggs, Secretary, and T. S. Brooks and W. B. Wilson, Assistant Secretaries. Immediately after the committee was organized Mr. Mitchell moved the adoption of the scale proposed in the joint convention (seconded.) The remainder of this date was consumed in a discussion of the shot firers' bill in Illinois, the operators claiming the bill was unjust and that they had not been treated fairly by the miners insisting on its enforcement, the miners' position being opposite that of the operators.

March 22.

The Joint Scale Committee was called to order at 9 o'clock, W. D. Ryan in the chair. The first business transacted on this date was a vote on the motion, regarding the scale, made by Mr. Mitchell the previous day. The miners voting in the affirmative and the operators in the negative, the motion was declared lost. Mr. Mitchell then moved that the subject of formulating a scale of wages be referred to a sub-committee composed of two representatives of the miners and two operators from each of the states affected (seconded). All the miners and the Pennsylvania operators voted in the affirmative and the operators from the other three states in the negative (motion lost). The shot firers' bill was again brought up for discussion, Mr. Taylor of Illinois offering the following motion, i. e.: That it be the sense of this meeting that the shot firers' bill affecting Danville, the basing point for Illinois, is an interstate matter. The motion on being put to a vote lost, all the operators voting in the affirmative and the miners in the negative. some debate on the question of a sub-committee and other matters, Mr. Winder moved the adoption of the scale, agreed to two years previous, and which expired April 1, 1906. The miners at that time did their own shot firing.) This motion lost, the miners voting nay and the operators ave. A few minutes before adjournment Mr. Robins offered the following motion: That the scale of 1903, the same prices and conditions, be renewed for two years from April 1, 1906 (seconded). On roll call all of the miners of the four States and the operators of Pennsylvania voted in the affirmative and the operators of Ohio, Indiana and Illinois voted in the negative. The motion was declared lost. The committee then adjourned to meet at 9 a. m., Friday, March 23d. Little business of importance was transacted on the 23d and 24th.

March 27.

The Joint Scale Committee was called to order at 9 o'clock a. m., W. D. Ryan in the chair. Immediately after the meeting was opened Mr. Mitchell moved that the Joint Scale Committee adjourn to report a disagreement to the joint convention at 2 o'clock, p. m. (Seconded by Mr. Winder.) The roll call of States was made and the motion carried.

JOINT CONVENTION.

March 27.

The joint convention was called to order at 2 p. m., with G. W. Traer in the chair. The report of the Joint Scale Committee was read and on motion was adopted and made a part of the records of the convention. Mr. Winder then offered the following motion, to wit: That the scale adopted two years previous, expiring April 1, 1906, with all of the conditions existing at the time of its adoption, be re-affirmed, and that the mining price at Danville, the basing point in Illinois, include the mining, shooting and loading coal, the proper care and timbering of the working places and the inspection of shots. (Seconded.) This motion was voted on during the afternoon session of the 28th and lost. Mr. Mitchell then moved that as a basis of settlement there be a restoration of the 1903 mining scale, day wage and dead work scale. Amended by Mr. Robins that the agreement take effect April 1, 1906, and continue until March 31, 1908, subject to approval of the miners' convention. (Mr. Mitchell seconded the amendment.) Mr. Mitchell stated that before the miners could vote on the motion it would be necessary to hold a separate session and moved to adjourn until 2 o'clock, p. m., of the 29th. (Motion prevailed.)

March 29.

The convention was called to order at 2 o'clock in the German House, G. W. Traer in the chair.

Mr. Mitchell's motion, amended by Mr. Robins, after being debated on at considerable length, was put to a vote and lost, the operators of Ohio, Indiana and Illinois voting no, Mr. Robins, for Western Pennsylvania, and the miners of that district voting aye. A motion to adjourn sine die was made by Mr. Winder (seconded by Col. Randolph Smith of Illinois), the miners and operators both voting in the affirmative and the National Convention was again adjourned sine die without an agreement having been effected, thus precipitating a general strike which extended over a period of more than two months. The strike, while general in Indiana, affecting all the coal producing counties, did not include all mines in the State; a number of operators outside the large combines, representing probably one-tenth of the total production of the State, granted the miners' demands, signed the scale and continued to operate their mines. Owing to the heavy stocking prior to April 1st, there was very little demand and the tonnage produced during that month was comparatively small. In May, however, both prices and demand grew stronger and the independent operators one by one began signing the scale, and by the time a final settlement was made there were 54 mines in operation.

Note.—During the time of the first convention in January it was rumored that a motion had been passed at one of the miners' separate conferences providing that no State or District be permitted to sign an agreement until all States and Districts covered by the contract were ready to sign. A rumor was also current that at the second conference held in March action was taken permitting any operator, State or District, to sign the agreement and continue work. We have no record of either of the above motions and merely mention them as a connection between the adjournment of the second conference and occurrences that took place later. The above motion was repeatedly referred to during the conference as the Ryan resolution.

TERRE HAUTE CONVENTION.

Early in June a joint convention of miners and operators of District 11, covering the bituminous field in Indiana, was held in Terre Haute and after a conference of several days an agreement was finally made and signed on the 8th, inst., a copy of which we will give later. The block coal field covered by district No. 8, effected a settlement some time later. So ended the greatest history making struggle between miners and operators to the knowledge of the writer on record. A great many of the operators were ready to resume work at once; some had considerable cleaning up and repairs to make and it was probably the 15th of the month before all the mines had resumed operation.

STRIKE AT SUMMIT NO. 2 MINE.

A strike covering some four weeks occurred at the above mine shortly after the resumption of work in June, resulting from the miners' refusal to clean a certain amount of falling slate without pay, the operator claiming that the recent Terre Haute Agreement required them to do so, the miners contending they were entitled to pay. After the mine had been idle the time above mentioned the matter was finally adjusted in favor of the miners.

STRIKE AT THE VANDALIA NOS. 8 AND 9 MINES.

A strike of several days' duration occurred at these two mines during the summer, which at one time threatened to involve all the mines owned by the Vandalia Coal Company. This trouble grew out of the discharge of three miners at Vandalia No. 8 Mine for violation of the State law governing shot firing in coal mines. The mine committees and officers of the miners' organization demanded reinstatement of the men discharged. On the company's refusal to reinstate them the miners in all of the Vandalia mines were ordered out by the State officials of the miners' organization. The company, however, conceded the demands of the miners on the morning this order was to take effect and work was continued at the other mines without interruption.

STRIKE AT THE ROSEBUD MINE.

A strike at this mine, owned by the Vandalia Coal Company, occurred during the fall arising over the question of payment for top coal required to be left up for the protection of the roof. (This matter included a greater number of the mines in the Seeleyville District.) After several days' idleness the question was finally settled in favor of the company.

There were numerous other local strikes at the mines during the year, but usually extended over a few days' time, hence no mention of them will be made.

We submit herewith the agreement of the miners and operators of the 11th District entered into in June; also the Brazil Agreement which was made a short time later:

TERRE HAUTE AGREEMENT.

Arranged and adopted by and between the United Mine Workers of District 11 and the Indiana Bituminous Coal Operators' Association, effective during the Scale Years from June 8th, 1906, to April 1st, 1908.

It is hereby agreed:

SECTION I.

That the bituminous coal district of Indiana shall pay fifty-five cents (55 cents) per ton for all mine-run coal loaded and shipped as such. All other coal mined in that district shall be passed over regulation screen, and be paid for at the rate of ninety cents (90 cents) per ton of two thousand (2,000) pounds for screened lump.

The standard height of coal in Indiana shall be 3 feet 3 inches in mines opened prior to April 1, 1901, and in mines opened since April 1, 1901, the standard height shall be 3 feet 6 inches. All coal less than 3 feet 3

inches in thickness and over 2 feet 9 inches, the price shall be 98 cents per ton for screened lump coal, and 64 cents per ton for mine-run coal. All coal less than 2 feet 9 inches and down to 2 feet 6 inches, the price shall be \$1.06 per ton for screened lump coal and 65 cents per ton for mine run coal.

SECTION II.

That the screen hereby adopted for the bituminous district of Indiana shall be uniform in size, six (6) feet wide by twelve (12) feet long, built of flat or Akron-shaped bar, of not less than five-eighths $(\frac{5}{8})$ of an inch surface, with one and one-fourth $(1\frac{1}{4})$ inches between bars, free from obstructions, and that such screen shall rest upon a sufficient number of bearings to hold the bars in proper position.

MACHINE MINING.

SECTION III.

PRICE PER TON FOR MACHINE MINING FOR PUNCHING MACHINE.

Vandalia Track and North thereof:

Screened Lump—Runner, 11½ cents; helper, 10½ cents; loading, shooting and timbering, 50 cents. Total, 72 cents.

Run-of-Mine—Runner, 7½ cents; helper, 7 cents; loading, shooting and timbering, 30½ cents. Total, 45 cents.

South of Vandalia Track:

Screened Lump—Runner, $10\frac{1}{2}$ cents; helper, 93-10 cents; loading, shooting and timbering, 522-10 cents. Total, 72 cents.

Run-of-Mine—Runner, 6 6-10 cents; helper, 6 1-10 cents; loading, shooting and timbering, 32 3-10 cents. Total, 45 cents.

FOR CHAIN MACHINE.

Screened Lump—Runner, 6½ cents; helper, 6½ cents; loading, shooting and timbering, 56 cents. Total, 68½ cents.

Run-of-Mine—Runner, 4 cents; helper, 4 cents; loading, shooting and timbering, 34½ cents. Total, 42½ cents.

Machine shovels shall be furnished by the operators, but when replaced the old shovels must be returned, and in case of careless breaking or destruction, the helper shall pay for the shovel so destroyed.

DAY WORK FOR PUNCHING MACHINES.

Machine work, when paid for by the day, shall be for machine	ne runner.\$3 17
Helper	2 56

DAY WORK, CHAIN OR CUTTER BAR MACHINE.

When paid for by the day, shall be for machine runner	3	01
Helper	3	01

Day work by machines shall apply only to opening new mines and defective work, such as horse backs, etc.

YARDAGE AND ROOM TURNING.

SECTION IV.

PICK MINING YARDAGE.

Narrow entries, 7 to 9 feet wide, \$1.86% per yard.

Wide entries, 12 feet wide, \$1.161/2 per yard.

Wide entries shall not be more than 13 feet nor less than 11 feet. In the event of a 10 or 11-foot entry being demanded by the operator, narrow entry prices shall be paid; if 14, 15, 16 or 17-foot entries are demanded the wide price shall be paid.

The right of the operators to drive an 18-foot room when necessary shall not be questioned.

MACHINE MINING YARDAGE.

Narrow work after punching machines shall be sheared when demanded by the operator. Narrow work after the chain machine must be done in a workmanlike manner.

BREAK THROUGHS-PICK MINES.

Break throughs between entries shall be paid for at entry prices. Break throughs between rooms, when sheared or blocked shall be paid for at entry prices, but no break throughs shall be driven without consent of the operators. Nothing herein shall interfere with the law governing break throughs.

BREAK THROUGHS-MACHINE MINES.

Break throughs between entries, same as entry prices. Break throughs between rooms shall be paid for at same price when similarly driven.

ROOM TURNING-PICK MINES.

ROOM TURNING-MACHINE MINES.

Yardage in machine mines shall be divided as follows:

In narrow entries and narrow break throughs between entries in chain machine mines, the loader shall receive \$1.18 per yard and the machine runner and helper each 8 cents per yard, and in wide entries the same pro-

portion. In entries and break throughs between entries in punching machine mines the loaders shall receive \$1.14 per yard and the runner and helper each 10 cents per yard, except where coal is sheared, in which case runner and helper shall receive all the yardage.

Where machines are worked by the day the loaders shall receive all the yardage.

The price for mining herein agreed to for pick and machine work shall include all labor necessary to cut the coal, drill and blast the same, load it on the miner's car and properly care for and timber the miner's working place, and no division of the scale shall carry any exception to this rule. In case a miner fails to properly timber, shoot and care for his working place so that any of the company's property is injured, the miner whose fault has occasioned such damage shall repair the same without compensation. Provided, however, that where shot-firers are employed and partially paid by the company the condition shall continue during the life of this agreement.

BLACKSMITHING.

Price of blacksmithing shall be 1¼ cents on the dollar. Sharpening shall be done in a workmanlike manner and men shall not have to wait for their tools.

The blacksmith's wages shall be \$2.94 per day of nine hours at all mines north of the B. & O. S. W. R. R.

In addition to his ordinary duties he shall do any other labor required of him by the mine management. Provided, however, that he shall receive his regular wages therefor.

DAY LABOR.

SECTION V.

The wages of inside day labor shall be \$2.56 per day of eight hours where and when men are employed, except as herein provided.

The wages of spike team driver shall be \$2.80 per day. The drivers shall take their nules to and from the stables, and the time required in so doing shall not include any part of the day's labor, their work beginning when they reach the change at which they receive empty cars, but in no case shall a driver's time be docked while he is waiting for such cars at the point named.

The wages of motor men shall be \$3.01 per day, and trappers \$1.13 per day.

All day laborers working at the mines, excepting weighmasters, head flat-trimmer, dumper, fire-bosses and boss drivers who shall be regarded strictly as company men, shall be recognized as members of the U. M. W. of A. In emergencies or in the absence of any regular employe the right of the operator to employ men not members of the U. M. W. of A. for outside day labor shall not be questioned. Any and all flat-trimmers shall dock for dirty coal.

The wages of outside men except as herein provided shall be \$2.02½ per day of eight hours on and north of the B. & O. S. W. R. R.

South of the B. & O. S. W. R. R. the wages shall be 2014 cents per hour.

The present wages of all outside day labor south of the B. & O. S. W. not herein specifically stated shall be advanced 5 87-100 per cent.

All day men shall at all times do and perform any and all kinds of labor required of them by the mine management. Provided, however, that on idle days men shall have an equal division of the work they usually perform when the mine hoists, and where men are employed as drivers, cagers and motor men they shall have an equal share of all extra work, such as cleaning roads, getting in rails, timber or any other work required of them, when the same does not interfere with the work of other men.

In the absence of any driver, any miner who can drive shall be expected to do so when requested. Any miner leaving his place to drive shall be permitted to load one car for that day. Provided, however, that no miner shall be permitted to make up more than one car in any one week.

DEAD WORK.

SECTION VI.

It is agreed that the companies shall have the working places as dry as local conditions will permit, and said working places shall be in working condition at time of starting work in the morning. If any company shall fail to have said working places dry or reasonably so one hour after starting time two successive days, the company shall, if said failure is traceable to neglect or carelessness of the company's agent, give miner or miners so affected other work or pay him or them for time so lost.

The question of slate in or over the coal shall be and is regarded a local question to be taken up and adjusted by the methods provided in the annual Terre Haute agreement for the settlement of disputes. Provided, however, that established usages and prevailing conditions shall not be changed except in new mines where they have not been considered and adjusted.

Where bottom coal is excessively hard to take up, the operator shall have the option. If he demands that it be taken up he shall pay extra therefor. Provided, that where coal so left shall exceed 4 inches in thickness it shall be taken up by the loaders and paid for by the machine men, but this shall not apply when caused by sulphur boulders, rock or any unusual condition. And whenever there shall arise a dispute between any loader and boss, or committee and boss, as to whether the bottom coal in any room is "excessively hard," the company interested shall select a man who shall take up one-third of such bottom coal, and if by such test it requires more than forty minutes to take up all the bottom coal in such room, then the loader shall be paid at the rate of 32 cents per hour for such time so required in excess of forty minutes. This is to apply to the No. 4 vein of Linton coal.

In mines where it is necessary to remove top or bottom in working places, commonly known as brushing, the following scale shall be paid:

When necessary to shoot top or bottom in entries 9 inches in thickness, 45 cents per yard, and 5 cents per inch per yard for any additional thickness. In rooms, where necessary to shoot 9 inches in thickness, 36 cents per yard, and for each additional inch 4 cents.

When brushing is necessary and can be done without shooting the price

in entries shall be 4 cents per inch per yard, and in rooms 3 cents per inch per yard.

No brushing shall be done nor paid for without ordered and amount specified by the mine boss. The miner doing the brushing in entries shall load or "gob" the same, as directed by the mine boss. In rooms the miner shall "gob" the refuse. Brushing shall be six feet wide in entries and five feet wide in rooms.

ENGINEERS' WAGES AND THEIR DUTIES.

SECTION VII.

 The engineers' wages shall be:

 First engineer
 .\$84 37

 Second engineer
 73 13

 Third engineer
 67 50

Eight hours shall constitute a day's work, but the engineers shall, outside of regular hours, hoist and lower the men, and in addition shall perform all the duties which necessarily and usually pertain and belong to an engineer's position, and shall not receive any extra pay therefor. It is agreed further that no hoisting engineer shall be subjected to the interference or dictates of the mine committee nor the local unions, but all the differences between the engineer and his employer shall be adjusted by the officers of the U. M. W. of A. and employer interested.

In case of either local or general suspension of mining, either at the expiration of this contract, or otherwise, the engineers shall not suspend work, but shall, when mining is suspended, fully protect all of the company's property under their care, and operate fans and pumps, and lower and hoist such men, mules or supplies as may be required, and any and all coal required to keep up steam at the company's coal plants, but it is understood and agreed that the operators will not ask them to hoist any coal produced for sale on the market, and there shall be no change in engineers' wages during the suspension.

All hoisting engineers at pick mines shall do the firing where the production does not exceed 300 tons of coal per day, and at machine mines in process of development until the production shall have reached 200 tons per day. Engineers shall do the firing on idle days at the option of operator, except when dynamos or compressors are being run to furnish power to operate mining machines to cut coal, but the services of the fireman shall not be dispensed with where a mine ceases hoisting coal in the midst of a shift.

The wages of firemen shall be: Per day of 10 hours, \$2.45; per month, \$65.00; per night of 12 hours, \$2.35; per month, \$63.50. The day firemen shall do and perform any service required of them by the mine management, and shall be entitled to an equal division of labor with other outside day men on idle days at such labor as they are competent to perform.

The night fireman, or watchman, in addition to his other duties, shall be responsible for the pumps within a distance of 250 feet from the main shaft bottom, and shall go into the mine when necessary to start them.

GENERAL.

SECTION VIII.

When the coal is paid for mine-run it shall be mined in as good condition as when paid for on a screened lump basis, and when loaded on the miner's car, it shall as nearly as possible be free from slate, bone coal, or other impurities, and if any miner shall load impurities in such quantities as to indicate knowledge and intent he shall be discharged. In case of dispute the impurities shall be kept until the case has been disposed of.

Wages shall be paid semi-monthly on or before the 10th and 25th of each month.

Day work shall be done on idle days, and in cases of emergency on overtime.

The time of beginning work in the morning and the length of intermission at noon shall be considered a local question which must be so arranged as to secure eight hours' work per day.

The duties of the mine committee shall be confined to the adjustment of disputes between the mine boss or superintendent and any of the members of the United Mine Workers of America working in and around the mines. The mine committee shall have no other authority, nor exercise any other control, nor in any way interfere with the operation of the mine, and for violation of this agreement the committee or any member thereof shall be discharged.

It is agreed that if any differences arise between an employer or employee in or about the mines, an attempt shall be made to adjust the same by the person, or persons, affected with the company's representative in immediate charge. If they fail to agree the question shall be referred to the mine boss and mine committee. If they fail to agree it shall be referred to the mine superintendent and mine committee. If they fail to agree it shall be referred to the district officers of the U. M. W. of A. and officers of the Indiana Bituminous Coal Operators' Association. If they fail to agree it shall be referred to the executive committees of the two associations. Provided, that nothing in this clause shall prevent the district officers from taking up for adjustment any dispute with the officers of the company affected.

That pending negotiations the miners shall not cease work because of any dispute, and an agreement reached at any stage of the proceedings shall be binding on both parties thereto, and not subject to review or revision of any other party or branch of either association.

That under no circumstances will the operators recognize or treat with a mine committee or any representative of the United Mine Workers of America during the suspension of work contrary to this agreement.

No restriction shall be placed on the amount of coal which machines may mine, nor upon the number of places in which machines may cut, nor upon the number of loaders that may work after one machine, nor upon the amount of narrow work that any machine runner may be required to do, nor upon the number of cars that any miner may load in any specified time.

The operators shall have the privilege of working a night shift for cutting coal with machines. All men so employed shall be paid 28 cents

extra for each eight hours' work at night, in addition to the scale price per ton.

Work on driving entries and drawing pillars may be by double shift at the option of the operator.

This contract shall in no case be set aside because of any rules of any local union of the U. M. W. of A. Nor shall there be any rules made controlling or affecting the operations of the mines nor shall any change be made in accepted rules without the operators and miners first consulting and agreeing thereto.

All local rules in violation of this contract shall be null and void, and no local union nor group of local unions shall pass any rules in violation, neither shall any company enforce any rule in violation of this contract.

Coal may be dumped as slowly as the operator may find necessary to thoroughly screen it, even if the car is brought to a stop, but it shall not be dumped in such a way as to throw the coal over the car door or unnecessarily break it.

Any miner knowing his place to be unsafe, shall protect same without delay and shall go into the mine for that purpose outside of regular hours and on idle days.

Men shall work double in wide entries at option of operator in developing the mine or for running entries for purpose of increasing production.

Where three places are now given to two loaders the custom shall continue.

No more than three places for two men nor two places for one man shall be allowed. In mines where the coal averages 6 feet high or over, rooms 30 feet wide or over equipped with two tracks shall be considered double places, and two loaders may be limited to two such places.

In Sullivan County where men work double in two rooms 25 to 30 feet wide with track up the center, the custom shall continue.

Whenever a new mine is opened it shall be governed by the same rules existing in other contiguous mines in the same vein of coal.

The price of powder per keg shall be \$1.75. The miners agree to purchase the powder from their operators, provided, it is furnished of standard grade and quality, that to be determined by the operators and expert miners jointly where there is a difference.

At all mines where coal companies deliver powder in the miner's working place such delivery shall be regarded only as an accommodation, and the company shall not be responsible for same after it leaves the magazine, but in the event of kegs being broken or powder being caked powder shall be replaced.

All local rules regarding the number of cars required above the tipple south of the Vandalia are hereby abolished, and in lieu of which it is agreed that the operators shall blow the whistle at eight o'clock in the evening when intending to work the following day, and again at five o'clock in the morning if cars are there or promised by the railroad company to be there by seven o'clock, or starting time.

If the company blows the whistle at five o'clock a.m. without the promise of cars and the miners report for work at 7 a.m. or starting time, and there are no cars the company shall pay to the local union a fine of \$25.00

The U. M. W. of A. shall have no jurisdiction nor exercise any control over construction work, such as the erection of tipples or mine buildings, scales, machinery, or screening apparatus necessary to hoist and prepare coal.

Where dirt must be removed to prepare pillars the miner shall be paid as agreed upon by miner and mine boss, or company, to remove same.

Any employe absenting himself from work for three days without a reasonable excuse, or having notified the mine manager and obtained his consent, may be discharged.

All miners shall put down their points and last pair of rails in their working places, and shall nail one end of same, but are not expected to tie and permanently lay their road.

The chief electrician shall be exempted from control of mine committee or local union, but in case of any dispute between him and the company the district officers shall adjust the same with officers of company involved.

Where any company operate more than one mine on the same line of road and in the same vein of coal, the work between the respective mines shall be as nearly as business conditions will permit equally divided.

All machine men shall work on idle days at operators' option to make up time lost on previous working day.

Every miner shall be given an opportunity to load an equal turn with every other miner doing the same class of mining. Where pick and machine miners are working in the same mine the turn shall be in proportion to the ratio between pick mining prices and machine loading prices.

The check-weighman shall furnish the boss-driver or mine-boss from day to day a turn sheet, and he shall cause the turn to be regulated. Provided, further, that no run or entry in machine mines shall be permitted to get more than five cars in advance of another run or entry, and in pick mines not more than two cars, except in case of accident.

It is further agreed that the operators shall offer no objection to the check-off for the check-weighman and for dues for the U. M. W. of A., provided that no check-off shall be made against any person until he shall have first given his consent in writing to his employer. This applies to all day work as well as miners.

It is agreed that when miners come out or stay out of the mine for the purpose of redressing a grievance, real or supposed, thus entirely or partially shutting down mine or mines contrary to agreement, each employe so ceasing or refraining from work shall be fined in the sum of one dollar per day during such shut-down. The fine thus assessed shall be deducted from each person so offending through the pay roll, and this agreement is the company's authority for making such deduction.

All money collected as fines shall be divided equally between District No. 11, U. M. W. of A., and the Indiana Bituminous Coal Operators' Association.

It is agreed that in the event of an inside employe being wrongfully discharged, and it is so discovered by methods herein provided, and by the same methods is reinstated, he shall be paid for time lost at the rate per day prevailing for inside day labor; provided, however, that the company shall have the option of permitting the accused to continue at work pending

the investigation, and the same shall apply to outside day laborers, except the outside day labor scale shall be paid.

Except in case of fatal accidents in the mine the mine shall in no case be thrown idle because of any death or funeral; in the event of a fatal accident in the mine, the employes may discontinue work for the remainder of the day, but work at the option of the operator shall be resumed the day following and continue thereafter. Nothing herein shall be construed to prevent an employe from absenting himself from work to attend the funeral of a fellow employe or member of his family.

In consideration of the observance of the above rule, and the enforcement of same, it is agreed that the folowing schedule of death benefits shall be paid to all parties entitled to receive the same: For a man, \$50.00; for an employe's wife, \$50.00; for any member of the family over the age of fourteen years, excepting married children, \$35.00; the company to pay one-half of the above amounts and the local union the remainder. Provided, however, that in the event of the mine being thrown idle on the day of any funeral by reason of an insufficient number of men reporting for work, then the company shall not be expected to pay any part of the amounts herein named.

That the above scale is based upon an eight-hour work-day; that it is definitely understood that this shall mean eight hours' work at the face, exclusive of the noon time, six days in the week, and that no local ruling shall in any way deviate from this agreement, or impose conditions affecting the same, but any class of day labor may be paid at the option of the operator for the number of hours and fraction thereof actually worked at the hour rate, based on one-eighth of the scale rate per day; provided, that when men go into the mine in the morning they shall be entitled to two hours' pay whether the mine works or not, excepting in event of a mine being closed down by action of any member or members of the U. M. W. of A., the two hours' pay shall be forfeited.

Signed this 8th day of June, 1906:

In behalf of the Indiana Bituminous Coal Operators' Association:

- J. C. Kolsem. President.
- P. H. Penna, Secretary.

In behalf of Miners:

Wellington O'Connor, President District 11, U. M. W. of A.

J. H. KENNEDY, Sec.-Treas. District 11, U. M. W. of A.

Attest:

W. B. Wilson, International Sec.-Treas. U. M. W. of A.

H. M. Wofers.

CONTRACT.

PICK MINING SCALE FROM JUNE 11, 1906, TO APRIL 1, 1908. BRAZIL BLOCK AGREEMENT.

1. Entered into this 11th day of June, 1906, between the operators' scale committee of the Brazil Block Coal District and the Executive Board of the United Mine Workers of America representing District No. S.

PICK SCALE AND YARDAGE.

- 2. The price for mining screened block coal in the Block Coal District of Indiana shall be \$1 per ton of two thousand pounds, it being understood also that the price for digging unscreened coal shall be an equivalent of the price paid for screened coal.
- 3. Further details in the scale price for pick mining in the Block Coal District shall be as follows:
 - 4. The payment for low coal shall be upon the following scale:
- 5. For all coal two feet ten inches and under three feet one inch, \$1.05 per ton.
 - 6. For all coal under two feet ten inches, \$1.10 per ton.
 - 7. The price of yardage shall be as follows:

Single yardage for coal three feet one inch and over\$1 00
Double yardage for coal three feet one inch and over 2 00
Gob entries in coal three feet one inch and over 1 50
Gob entries in coal three feet one inch and over, without brushing. 50
Single yardage for coal two feet ten inches and under three feet one
inch
Double yardage for coal two feet ten inches and under three feet
one inch 2 10
Gob entries in coal two feet ten inches and under three feet one
inch 1 57½
Gob entries in coal two feet ten inches and under three feet one
inch, without brushing $52\frac{1}{2}$
Single yardage in coal below two feet ten inches
Double yardage in coal below two feet ten inches 2 20
Gob entries in coal below two feet ten inches
Gob entries in coal below two feet ten inches, without brushing 55

All entries to be driven when required by the operator $5\frac{1}{2}$ in the clear in height, and the miners agree to gob the dirt when they are not required to take it more than the distance of six rooms back from the last break-through, and when the dirt is hauled by a mule, then the miners agree to unload the same at a distance of not more than eight rooms back from the last break-through from the face of the entry. This agreement shall apply to all the Block Coal Mines in the Block Coal District, with the exception of the present No. 1 and No. 2 Superior Mines of the Zellar-McClellan Company, and in these two mines the same conditions shall continue as were in force during the years just ended, viz.: The miners shall continue to gob the break-throughs. Twenty-five cents per yard shall be paid extra for all double yardage

when the same is worked double shift, and $12\frac{1}{2}$ cents per yard for all single yardage when the same is worked double shift. Work on driving entries and drawing pillars may be by double shift at the option of the operator.

DAY MEN'S SCALE.

8. Inside day scale: \$2.56 Track layers 1 13 Bottom cagers 2 56 Drivers 2 56 Trip riders 2 56 Water haulers 2 56 Timbermen, where such are employed 2 56 Pipe men for compressed air plants 2 50 All other inside day labor 2 56 Blacksmiths 2 85 All other outside day labor 2 02½

- 9. The fireman and night pumpers shall be paid at the rate of 25 3-10 cents per hour for their labor. The above wage is based on an eight-hour work day, but in the event the operator desires it, the firemen and night pumpers are to work overtime to the extent of not more than two hours in any one day or shift. However, it is understood that in the event of any emergency the firemen and night pumpers will not limit their time, but continue working until such emergency is passed.
- 10. The firemen and night pumpers shall be subject to the same rules and regulations as top men and be in their class, and may be laid off in case the mine shall work parts of days, and the work of firemen and top men shall be interchanged if it is found to be to the interest of the employer so to do. For example: Where work can be performed by one man the firing and any other work about the top shall be done by any one of the top men selected.
- 11. When the miner is working a deficient place and is being paid by the day, his pay shall be \$2.56 per day, and if he uses his own tools during such time he shall be paid ten cents per day for the use of the same. The operator shall have the option of furnishing the tools for such work.
 - 12. The price of blacksmithing shall be $1\frac{1}{2}$ cents on the dollar.
- 13. The semi-monthly pay shall continue until the constitutionality of the law providing for weekly pay shall have been passed upon by the Supreme Court of Indiana and of the United States.
- 14. A miner shall not be compelled to load his coal more than six feet from the face at beginning time.
- 15. Inside day work may be done upon idle days, and in case of emergency on overtime.

HOURS OF WORK,

16. The hours of beginning work in the morning shall be 7 a. m., with thirty minutes' stop for dinner, and begin shooting at 3:30 p. m., from April 1, 1906, to October 1, 1906, and from October 1, 1906, to April 1, 1907, the mines shall start at 7:30 a. m., with thirty minutes'

stop for dinner, and begin shooting at 4 p. m., and no shooting shall be done at any other time except by mutual consent between the bank boss and bank committee, and in the event that the mine is to work half day only it shall be the duty of the mine boss to notify the bank committee of the fact. The Officers' and Miners' Board of District No. 8 hereby agree and pledge themselves to see that the men in the mines carry out the contract by working eight hours per day, and that they will put in effect and maintain rules which will compel the men to be at their working places on time and remain at work until the expiration of eight hours.

- 17. Eight hours a day means eight hours in the mine at the usual working places for all classes of inside men. This shall be exclusive of the time required in reaching such working places in the morning and departing from the same at night.
- 18. The miners hereby agree to do all the propping in their rooms except setting of props required to break the bottom in shooting the same, and if any props are loosened or displaced, thereby endangering the safety of the workmen, the miners agree to reset the same.

SETTING LONG PROPS.

- 19. The miners working at Zellar-McClellan's No. 4 mine and the Indiana Block Coal Company's mine at Saline, shall set all the props in their rooms and shall set all the props along the roadway. When bottom is blasted for the road and long props are made necessary along the roadway the miners agree to set them. And the operators agree to pay therefor 3 cents each for all long props so set by them. The companies above named shall provide the props of required length.
- 20. It is also agreed on the part of the operators not to require the miners to put down their own road, and bottom shooters may lay the road in the rooms when required.
- 21. The operators agree to give each miner as near as possible an equal turn of cars for coal, and not to allow any day hands to load coal on idle days, but in no case shall a turn apply to the handling of dirt, but the operators agree to put in the mines a sufficient number of mules to remove all the coal and dirt therefrom. It is agreed that nothing herein shall conflict with the gobbing of dirt as hereinbefore provided. The operators will give an equal turn of work to all inside day men as near as practicable, who are compentent, excepting track layers and timbermen, adjustment of turns to be semi-monthly.
- 22. No miner shall be discharged or discriminated against because of his refusal to do work by the day when called upon by the pit boss. If by the absence or refusal to work of any day men work is likely to be interfered with, the mine committee, when called upon, shall assist the mine boss to furnish competent men in case he fails to secure them at the scale rate, so that the mines shall continue work.
- 23. It is also agreed not to require miners to load or clean falls unless they are caused by some fault of the miner not properly timbering his working place, or his having shot or otherwise caused his timber to become insecure, in which case it will be the duty of the miner to put his place in good order again.

24. Should the mine boss or superintendent at any mine discharge a miner or mine laborer, and upon investigation by the mine committee they believe there were not good and sufficient causes for so doing, they shall at once notify such boss or superintendent of their decision, and pending the matter being decided upon by the final board as provided in such cases the management may at their option retain in their employ such persons so discharged, pending the final decision. If said board finds that the man was discharged without sufficient cause he shall be reinstated and shall be paid his regular wages for all time lost by such discharge, but in days in which the mine was not in operation during this period shall not be reckoned as lost.

SETTLEMENT OF DIFFERENCES.

25. It is further agreed that if any differences arise between the operator or miners at any pit, settlement shall be arrived at without any stopping of work. If the parties immediately affected can not reach an adjustment between themselves the question shall be referred to the Executive Board of the United Mine Workers of America representing District No. 8 and an equal number of operators, whose action shall be final, but no operator or miner interested in the difference shall be a member of said committee. The Officers' and Miners' Board of District No. 8, United Mine Workers of America, hereby agree and pledge themselves to put in effect at the different locals of the district certain rules and regulations requiring men to be fined one dollar per day for the violation of the above clause, said fine to be checked off by the operators and turned over to District No. 8. On failure of said officers and board to accomplish their agreement to see that this part of the contract is observed, the following clause shall become effective, from that time on it shall be binding and have full force and be a part of this contract, viz.: It is understood and agreed that when any of the workmen in and about a mine stops the same for the purpose of redressing a grievance, real or supposed, thus shutting the mine down, contrary to this agreement, each employe shall pay to the owner of said mine the sum of \$1 per day during such shut down. The payment shall be deducted from each person through the pay-roll, and this agreement is authority for making such deduction. It is further agreed that no coal company, because of any grievance with an employe, real or supposed, shall stop the mine, and any company so shutting down its mine shall pay to each workman in and about the mine \$1 per day during such shut down.

26. The duties of the mine committee shall be confined to the adjustment of disputes between the mine boss or superintendent and any of the members of the United Mine Workers of America working in and around the mines, excepting the engineer working at such mine. In no case shall the mine committee have power to send day men home when needed by the operator, but the mine committee may bring any grievance before the joint board through their district officials.

DRIVERS' RULES.

27. Regarding drivers:

They shall take their mules to and from the stables and the time required in so doing shall not include any part of the day's labor, their work beginning when they reach the parting at which they receive empty cars, and in no case shall the driver's time be docked while he is waiting for such cars at the point named, but when the men go into the mine in the morning they shall be entitled to two hours' pay whether or not the mine works the full two hours, and after the first two hours the men shall be paid for every hour thereafter by the hour, or for each hour's work or fractional part thereof. If for any reason the regular routine of work can not be furnished inside labor for a portion of the first two hours, the operators may furnish other than the regular labor for the unexpired time.

- 28. But under no circumstances will the operators recognize or treat with the mine committee or any representative of the United Mine Workers of America during the suspension of work contrary to this agreement.
- 29. The Block Coal District of Indiana may continue the use of the diamond bar screen, the screen to be 72 feet superficial area, of uniform size, $1\frac{1}{4}$ inches between the bars, free from obstructions, and that such screen shall rest upon a sufficient number of bearings to hold the bars in proper position.
- 30. It is hereby further agreed that track layers may begin work on top before the usual time of hoisting coal in getting track material ready to send down on the cage, and that the time required in doing so shall be a part of the eight hours' work.
- 31. In case of emergency work the mine boss shall consult with the mine committee, and if they approve of the work being done on overtime the men engaged thereon shall not be required to lay off until their time is equalized with the others working in such mine.
- 32. The Crawford Coal Company in their mines at Center Point may continue to do the brushing in the entries where the coal is three feet one inch and under in thickness.
- 33. The wages of the blacksmith shall be \$2.85 per day at all the mines, and in addition to his ordinary duties he shall do any other labor, and shall work at any mine owned by the company when required of him by the mine management, providing that he shall receive his regular wages therefor.
- 34. All local rules regarding the number of cars required above the tipple to be abolished.
- 35. In the event of death by accident in the mine the miners shall have the privilege of discontinuing work for the remainder of that day, but at the option of the operators work shall be resumed the following day.
- 36. The miners shall not stop work on the day of a funeral, where death is the result of an accident in the mine or otherwise, but instead men may absent themselves from work for the purpose of attending the funeral, and except in case of fatal accidents as above the mine shall not in any case be thrown idle because of any death or funeral.

FUNERAL BENEFITS.

37. In consideration of the enforcement of this agreement referring to funerals of employes only, of any particular mine, and not otherwise, the operators agree to pay to the family of the deceased, or legal representative thereof, the sum of twenty-five cents per man for all men employed at the mine, but in no case shall the operators pay more than \$25. The miners also agree to give to said family twenty-five cents per man.

HOISTING ENGINEERS' SCALE.

- 38. On and after June 11, 1906, until April 1, 1908, the scale of hoisting engineers throughout the Block Coal District, or District No. 8, shall be as follows: Where one engineer is employed the compensation shall be eighty-four dollars and thirty-seven cents (\$84.37) per month, and where two engineers are required the first engineer shall receive eighty-four dollars and thirty-seven cents (\$84.37) per month, the second seventy-three dollars and twelve cents (\$73.12) per month, and when they change week about, seventy-eight dollars and seventy-five cents (\$78.75) per month.
- 39. It is agreed on the part of the engineers to be at their work in time to lower the men and mules, and remain a sufficient time after the regular working hour to hoist the men and mules from the mine. Also to keep up all repairs on the machinery, including pumps in the mine.
- 40. It is also mutually agreed that a licensed engineer shall be employed at all times when steam is required at the throttle. Provided, however, that in all cases where the mine is not hoisting coal, or the machines are not operated, then in all such cases the engineers are required to do their own firing, it being understood that this provision does not apply to any case where the work of the mine may be stopped in the midst of any one shift. Nor does it cover any case where the fireman is required to assist in the washing or cleaning out of the boilers on Sunday.
- 41. It is fully understood and agreed upon the part of the United Mine Workers of America that the engineers will not under any circumstances allow affiliation with any labor organization to interfere with or prevent their being on duty at any and all times required by the operators, and that they will not suspend work in sympathy with any organization; and further, that they will during the continuance of this contract at all times fully protect all the company's property under their care, and that they will operate fans and pumps, and lower and hoist such men or supplies as may be required to protect the company's property, and any and all coal that may be required to keep up the steam at the company's plant.

But it is understood that the operators will not ask them during this period to hoist any coal produced by non-union labor for sale on the market.

- 42. No engineer shall lay off or exchange shifts without the consent of the operators.
 - 43. It is also agreed that in case of sickness or unexpected absence

of the engineer, any other engineer or engineers shall perform his duty; and if desired by them his wages for time so absent shall revert to the engineer performing such duty.

- 44. It is further agreed no hoisting engineer shall be subject to the interference or dictation of the mine committee, nor the local unions, but all differences between the engineer and his employer shall be adjusted by the officers of the United Mine Workers of America and employer interested.
- 45. It is also agreed upon the part of the operators that they will enforce a rule forbidding the entering of the engine room by loafers and disinterested parties, and that they will have cards printed and placed in conspicuous places to this effect.
- 46. This contract is entered into in good faith by both parties, and there is to be no deviation from it by the operators, miners, laborers or any local union.

Committee on behalf of the Operators for the Block Coal District:

JAS. H. McCLELLAND.

W. M. ZELLAR.

W. W. RISHER.

W. E. EPPERT.

JOHN CHESTERFIELD, JR.

E. F. McGRANAHAN.

H. W. JENKINS.

HUGH MASON.

Executive Committee District No. 8, United Mine Workers of America, for Block Coal Miners:

WILLIAM WILSON.
PATRICK GOLDEN.
HUGH KIRKLAND.
JAMES SHIEL.
JOHN FOGG.

CONTRACT.

MACHINE MINING SCALE FROM JUNE 11, 1906, TO APRIL 1, 1908, MACHINE MINING SCALE.

Contract between the Machine Operators of the Block Coal District and the Executive Board of District No. 8, United Mine Workers of America, governing prices and conditions of mining in Machine Mines Block Coal District.

Entered into this 11th day of June, 1906, and continuing until April 1, 1908, between the Operators of Machine Mines of the Block Coal District and the Executive Board of the United Mine Workers of America, representing District No. 8.

The price for loading, shooting, timbering, taking care of all draw slate that is four (4) inches and under in thickness, in rooms and entries, shall be fifty-three and one-half $(53\frac{1}{2})$ cents per ton.

Price for entry driving 6 to 9 feet wide, fifty-three and one-half (53½) cents per yard.

Price for entry driving, 9 to 12 feet wide, thirty-two and one-half (321) cents per yard.

The loaders agree to keep the bug dust and draw slate back 14 feet from the working face.

All entries more than twelve feet in width shall be paid same as rooms.

Machine runners and helpers to be paid twenty-five (25) cents per ton, and when working by the day, machine runners to be paid \$3.03\frac{3}{4} per day. Helpers, \$2.70 per day. Motormen, \$3.03\frac{3}{4}.

Entry driving, 6 to 9 feet wide, machine runner to be paid 25 cents per yard.

Entry driving, 9 to 12 feet wide, machine runner to be paid 16 cents per yard.

It is further agreed that where there is not sufficient room to gob the bug dust and draw slate, the loader will load it in the bank cars and the company will unload it.

It is understood that there shall be nothing paid for room turning or low coal and there shall be nothing charged for blacksmithing.

There shall be no discrimination against any employes.

That the system of loading coal in machine mines be on the following basis, to wit:

- 1. That one man shall have the right to two places where he can take care of the same.
- 2. That two men shall have the right to three places where they can take care of the same.
 - 3. All others one place.

When a man is off work more than one day, the mine boss shall have the right to put a man in the places if it is necessary, providing the man leaves the places in the same condition, as near as possible, as he found them.

The Block Coal District of Indiana may continue the use of the Diamond bar screen, the screen to be seventy-two (72) feet superficial area, of uniform size, one and one-quarter $(1\frac{1}{4})$ inches between the bars, free from obstructions, and that such screen shall rest upon a sufficient number of bearings to hold bars in proper position.

This agreement to become a part of the agreement entered into the 11th day of June, 1906, between the Operators' Scale Committee of the Block Coal District and the Executive Board of the United Mine Workers of America, representing District No. 8.

On behalf of the Machine Operators of the Block Coal District:

JAS. H. McCLELLAND. JOHN CHESTERFIELD. E. F. McGRANAHAN.

On behalf of the Executive Board District No. 8, United Mine Workers of America:

WILLIAM WILSON.
PATRICK GOLDEN.
HUGH KIRKLAND.
JAMES SHIEL.
JOHN FOGG.

Showing Number of Miners, Machine Runners and Helpers, Loaders, Inside Day and Monthly Men, Persons Employed Outside; Total Number of Employes at Each Mine, Number of Days Worked and Number of Mules Used; Totals by Counties.

CLAY COUNTY.

NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employes.	Days Worked.	Mules Used.	Powder.
Brazil Block No. 1. Brazil Block No. 4. Brazil Block No. 4. Brazil Block No. 7. Brazil Block No. 8. Rebstock. Vandalis No. 50. Vandalis No. 60. Vandalis No. 68. Vandalis No. 68. Vandalis No. 68. Vandalis No. 68. Vandalis No. 65. Vandalis No. 6. Vandalis No. 8. Vandalis No. 8. Vandalis No. 8. Vandrod No. 9. Vandrod No. 9. Vandrod No. 2. Illenn No. 1. Vivian No. 2. Vivian No. 1. Vivian No. 4. Vivian No. 1. Vivian No. 2. Vivian No. 2. Vivian No. 2. Vivian No. 3. Vivian No. 4. Vivian No. 2. Vivian No. 2. Vivian No. 3. Vivian No. 4. Vivian No. 2. Vivian No. 2. Vivian No. 3. Vivian No. 2. Vivian No. 3. Vivian No. 4. Vivian No. 2. Vivian No. 2. Vivian No. 3. Vivian No. 2. Vivian No	4 98 552 24 47 47 494 555 26 65 21 4 225 997 27 68 8 12 222 14	20 16 12 14	17 16 34 63 55 16 70	200 200 8 8 9 9 111 122 2 177 6 6 300 18 8 11 9 9 100 200 20 10 4 10 12 6 6 14 2 2 4 11 1	6 10 6 3 3 5 5 10 7 7 6 6 3 3 4 4 6 6 3 3 5 5 5 2 2 10 0 12 2 12 4 1 1 1 4 10	544 1288 666 637 1266 799 388 2066 400 1244 1355 311 113 355 364 409 411 113 355 364 409 411 113 365 367 367 368 367 367 367 367 367 367 367 367 367 367	185 178 182 168 164 170 132 68 160 216 55 113 86 180 125 223 170 191 170 184 125 125 137 191 191 191 191 193 193 193 193 193 193	10 6 3 3 2 4 6 6 6 3 3 11 5 4 4 3 2 9 2 2 5 3 3 8 8 4 2 2 3 8 8 2 2 7 2 2 4 2 2 8	203 2,843,958 655 1,181 1,664 2,394 1,287 5,146 2,654 2,654 658 3,045 5,550 517 1,806 1,623 9,759 741 661 3,666 1,666 1,666 1,666 1,666 1,666 1,759 7,749 7,

DAVIESS COUNTY.

Stucky. Montgomery No. 3. Mutual. Mandabach. Winklepeck (Idle).	64 10	 	16 1	9 2	89 13	216 134 121	8 8 1	1,896 1,220 106
Overton (Idle)		 • • • • • •		•••••				
Total	129	 •	30	22	181	592	17	3,222

Table Showing Number of Miners, Machine Runners and Helpers, Etc.—Con. FOUNTAIN COUNTY.

NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employes.	Days Worked.	Mules Used.	Powder.
IndioSilverwood	70 19			16 8	8 6	76 29	264 273	6 2	2,988 1,322
Total	- 89			24	14	127	537	8	4,310
	GRI	EENE C	OUNTY	7.	<u> </u>		·	·	
Black Creek. Sponsler. Glenburn Antioch. Vandalia No. 2. North Linton. Vandalia No. 3. Vandalia No. 3. Vandalia No. 4. Vandalia No. 5. Vandalia No. 6. Vandalia No. 6. Vandalia No. 8. Vandalia No. 9. Vandalia No. 9. Vandalia No. 9. Vandalia No. 9. Vandalia No. 10. Glimour. Hoosier No. 1. Hoosier No. 1. Tower Hill. Lattas Creek. Vulcan. Sunmit No. 2. Victoria. Green Valley. Queen. Letsinger. North West. Twin No. 4. Twin No. 5. Midvale. Total	55 70 52 75 42 132 80 78 80 16 14 	10 6 10 10 116 18 8 22 16 8 8 12 12 16 16 16 16 16 17 17 18 18 16 16 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	37 22 50 33 100 44 53 38 25 52 103 80 84 49 31 31 927	28 14 35 222 35 13 19 10 35 11 55 17 27 29 83 30 81 10 11 55 24 45 24 45 21 30 81 10 81 10 81 10 81 10 81 10 81 10 81 10 81 10 81 10 81 10 81 10 81 10 81 10 81 10 81 10 81 10 81 10 81 10 81 81 81 81 81 81 81 81 81 81 81 81 81	100 6 9 9 8 15 5 5 8 8 8 122 5 5 100 177 8 8 122 9 9 111 3 3 8 8 12 7 7 100 7 7 269	140 95 142 82 185 60 159 191 194 8 179 91 191 162 271 148 179 113 141 41 43 157 63 140 75	129 1111 129 160 129 1505 120 165 120 169 192 128 174 187 75 171 224 187 75 171 224 187 171 224 128 129 129 130 147 131	14 10 12 12 12 14 7 7 15 7 20 6 6 13 10 4 25 3 3 9 10 26 4 4 11 12 12 12 12 14 10 10 10 10 10 10 10 10 10 10 10 10 10	1,886 1,952 2,392 3,032 3,931 2,594 4,190 2,166 2,716 631 1,749 1,480 640
	GIB	SON CO	OUNTY.	!			<u>! </u>		
Dswald Massey (Not reported) Port Branch Total	70 19 89			23	10 6	75 29 104	214 40	9 io 19	2,787 1,016 156 3,959
	KN	ox co	UNTY.	J			<u> </u>	1	
Bicknell. Knox. Lynn. Prospect Hill Vandalia No. 40. Wheatland. Pine Knot. Freeman	55 56 8 18 36 71 50	12 6	14 17 28 20	14 12 10 7 16 13 15 12	9 8 9 6 6 8 11 8	78 94 48 31 58 92 116 46	121 112 194 268 120 198 157 93	9 6 5 3 4 7 6 2	4,153 1,330 962 979 1,344 3,585 1,042 371
Total	294	26	79	104	65	563	1,263	42	13, 766

Table Showing Number of Miners, Machine Runners and Helpers, Etc.—Con.
PARKE COUNTY.

NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employes.	Days Worked.	Mules Used.	Powder.
Brazil Block No. 9. Brazil Block No. 12. Mecca No. 3. Lyford No. 1. Mary Superior No. 1. Superior No. 2. Superior No. 2. Superior No. 3. Vandalia No. 316. Vandalia No. 317. Pan American. Parke No. 11. Harrison (Not reported). Superior No. 5. Clay County (Not reported).	93 49 70 53 8 81 61 71 67 70 48 15	4 • 16 	28 45 60	33 14 35 11 37 22 19 13 35 21 7 32	7 4 9 8 11 6 7 5 14 8 8 123	133 67 146 72 117 109 87 89 116 99 63 149	160 168 173 144 230 227 202 195 134 197 58 259	12 6 17 3 10 10 10 6 14 8 4 10	2,74 1,45 3,12 2,51 2,21 2,12 2,23 3,31 2,28 2,61 29 2,28
Parke No. 10	93	70	156	336	118	199	210	15	30,20
Troy	10 10	RRY CO	OUNTY	3	2 2	15	287	2 2	24
· · · · · · · · · · · · · · · · · · ·	PI	KE CO	UNTY.						
Aberdeen (Idle). Carbon. Ayrshire No. 3 (Not reported). Ayrshire No. 4 (Not reported). Ayrshire No. 5 (Not reported). Rogers (Not reported). Blackburn.	33				6	53	298	6	15 2,42 7,26 65 20 1,49
Diackburn Littles Hartwell Petersburg (Idle) Winslow No. 4 (Idle) Winslow No. 5 (Idle) Hartwell No. 2.	142 108			31 26	13 12	186 146	144 119	14 12	4,86 4,19
Total	372			84	40	496	829	37	21,69

Table Showing Number of Miners, Machine Runners and Helpers, Etc.—Con. SULLIVAN COUNTY.

NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employes.	Days Worked.	Mules Used.	Powder.
Caladonia. Phoenix No. 4. Cummins. Hocking. Citizens. Sun Flower. Consolidated No. 25. Consolidated No. 26. Consolidated No. 28. Consolidated No. 29. Consolidated No. 30. Consolidated No. 30. Consolidated No. 30. Consolidated No. 31. Consolidated No. 31. Consolidated No. 32. Consolidated No. 32. Consolidated No. 33. Consolidated No. 34. Vandalia No. 30. (Idle)	25 5 4 40 5 5	12 14 	53 73 	15 29 9 48 21 29 18 27 24 42 55 12 41 37 23 22	10 19 5 20 13 13 10 16 10 18 9 4 10 15 13 14	90 135 39 176 94 148 79 115 72 151 120 56 192 179 124 132	127 122 38 115 142 141 90 131 70 70 70 129 45 80 150 136	6 9 3 16 77 13 5 8 5 12 5 6 11 10 7 8	937 1,500 40 1,595 1,006 1,181 394 881 223 347 683 519 303 2,752 1,090 4,789
West Linton (Idle). Jackson Hill No. 2. Jackson Hill No. 4. Keystone. Freeman. Dering No. 12. Dering No. 13. Dering No. 13.	5 43 68 5 2	18 16 8 14 16	108 87 12 66 100	35 24 4 10 31 28 54	16 13 7 7 7 11 12 29	177 140 36 60 110 125 201	175 179 139 193 86 192 193	15 9 11 5 10 10 20	1,354 1,018 1,223 2,000 1,881 1,367 1,555
Semi Block (Idle) Mammoth Vein Shirley Hill No. 1 Little Glant. Shirley Hill No. 2 Superior. Pearl Reliance. Hamilton Black Hawk. Clover Leaf. Washington.	2 30 70 4 130 16 4 10 28	15 12 18 10 8 8 14 6 8 8	81 40 90 26 50 48 18 14 44 43	35 22 81 20 33 20 34 15 6 28 30	16 10 17 9 10 10 12 9 4 9	149 114 276 69 173 104 106 66 58 89 116	160 136 135 145 160 169 206 90 95 100 70	10 9 12 3 11 6 7 3 3 6	1, 123 2, 870 3, 669 547 4, 640 944 593 508 777 760 551
Total	621	368	1,709	962	411	4,071	4, 339	291	45,620

VANDERBURGH COUNTY.

Diamond	130	 	13	11	92	241 258 254 299 297	6 6 10 17 4	1,738 1,908 2,358 7,365 1,862
Total	366	 	85	61	512	1,349	43	15,231

Table Showing Number of Miners, Machine Runners and Helpers, Etc.—Con. VERMILLION COUNTY.

NAME OF MINE.	Pick Miners.	Machine Runners and Helpers.	Loaders.	Inside Day and Monthly Men.	Outside Day Men.	Total Employes.	Days Worked.	Mules Used.	Powder.
Dering No. 5. Dering No. 6. Dering No. 6. Dering No. 7. Dering No. 8. Dering No. 15. Eureka No. 1. Crown Hill No. 1 Dak Hill Maple Valley No. 1 Buckeye No. 2. Prince Crown Hill No. 3 (Idle) Crown Hill No. 2	140 227 205 200 125 20 200 145 150 215 135			46 50 46 45 30 6 45 40 45 40 45 38 43 	12 15 15 16 12 3 12 11 11 10 10	198 292 266 261 167 29 257 196 263 188	202 214 212 208 170 220 160 190 160 200 180	12 16 21 9 9 5 17 12 12 14 12	9,105 12,332 11,329 8,667 4,338 828 7,768 10,600 10,531 12,866 7,340
	1,912			470	135	2,517	2,301	148	108,671
Atherton	VI 4	GO CO	UNTY.	30	8	106	190	7	933
Atherton. Chicago No. 6 (Idle). Diamond. Victor. Lawton. Grant No. 2. Daring No. 2 (Idle)			62	34 9 35 47	12 8 15 12	132 90 266 169	70 155 250 200	14 5 22 18	1,009 1,255 7,344 4,370
Diamond Victor. Lawton Grant No. 2 Dering No. 2 (Idle) Dering No. 10 (Idle) Vandalia No. 68. Vandalia No. 67. Vandalia No. 68. Vandalia No. 68. Vandalia No. 69. Vandalia No. 80. Vandalia No. 80. Vandalia No. 80. Vandalia No. 80. Vandalia No. 81. Illiami No. 1. Illiami No. 1. Illiami No. 1. Illiami No. 2 Miami No. 1. Larimer Deep Veln. Ray No. 2 Forrest. Domestic Block No. 1.	123 165 56 10 130		12 	30 40 12 9 25 14 10 28 21 45 12 3 27 40 24 32	15 11 5 6 6 12 6 10 8 9 4 2 10 10 13 18	145 271 73 38 90 98 71 178 152 219 72 15 167 310 146 129	200 230 150 200 70 70 220 170 105 200 60 250 200 170 160	10 18 5 2 6 8 4 18 13 12 8 2 12 14 15 6	3,752 5,602 1,981 1,984 762 2,987 789 5,162 4,703 1,293 1,293 1,959 1,062
Fauvre No. 2. Lower Vein.	10 37			4 10	5 6	19 53	60 220	1 3	93 137
Total		58	188	541	211	3,009	3,810	238	69, 154
Air Line (Idle). Big Four. Big Vein No. 3. Castle Graden. Big Vein No. 3. Castle Graden. DeForrest. Star No. 1. Electric. Burke (Idle). Burke (Idle). Electric. Burke (Idle). Chandle	1,997 WAI		188	541	10 8 4 2 10	53	220	3	
Erie Canal. Chandler.	37	6	28 22	14 14	2 7 6	55 85	100 90	4 5	37
Total	89	56	181	85	51	462	1,152	34	3,97

Showing by Counties the Number of Miners, the Number of Inside Day and Monthly Men, Number of Outside Day and Monthly Men, Wages Earned by Same and the Average Wages Per Employe in the Block and Bituminous Coal Mines, Each Exhibited Separately, as are the Hand and Machine Mines.

BLOCK	COAL	MACHINE	MINES.

COUNTY.	Number of Miners.	Total Wages.	Average Wages.	Number Inside Employes.	Total Wages.	Average Wages.	Number Outside Employes.	Total Wages.	Average Wages,
Clay	28 69 79	\$14,895 95 31,578 82 39,408 48	\$514 14 457 66 498, 84	20 37 32	\$13,501 90 18,548 09 9,515 79	675 10 501 30 297 37	6 11 18	\$6,777 95 5,875 96 6,193 11	\$1,129 66 531 45 344 06
Total General average	176	\$85,883 25	\$487 97	89	\$41,565 78	\$467 03	35	\$18,847 02	\$538 49
			BLOCK CO	AL PICK MINI	es.			· · ·	
Clay Parke. Vigo.	762 439 37	\$350,209 56 189,448 10 8,607 53	\$455 05 571 18 232 64	193 118 10	\$123,501 69 60,518 92 3,326 10	\$636 52 512 87 332 61	89 40 6	\$60,660 01 30,218 78 1,762 97	\$690 45 755 44 293 83
General Average	1,238	\$548, 265 19	\$484 85	321	\$187, 346 71	\$440 54	135	\$92,641 76	\$674 45
Total General average Block Employes	1,414	\$ 634,148 44	\$ 484 17	410	\$228,912 49	\$44 5 13	170	\$ 111,488 78	\$646 46
		1	BITUMINOUS C	OAL MACHINE	MINES.			·	
Clay Greene. Knox Parke. Sullivan Vigo. Warrick	419 1, 610 219 392 2, 296 478 301	\$185, 191 21 816,068 60 66,682 82 213,508 44 1,109,991 43 195,085 66 132,209 49	\$441 98 506 87 304 49 544 66 483,45 408 12 439,23	113 549 49 114 845 104 79	\$66,779 11 304,931 47 36,482 03 72,979 40 414,813 30 59,245 70 42,986 13	\$590 97 555 43 744 53 640 17 479,07 569 67 544 13	57 181 36 37 360 37 45	\$35,270 51 123,469 09 20,451 43 27,023 84 222,508 39 21,831 04 19,621 16	\$618 78 682 15 568 10 730 37 618 07 590 03 436 02
General average	5,715	\$2,718,737 65	\$475 72	1,853	\$998, 217 14	\$538 70	753	\$470, 175 46	\$624 40

BITUMINOUS COAL PICK MINES.

COUNTY.	Number of Miners.	Total Wages.	Average Wages.	Number Inside Employes.	Total Wages.	Average Wages.	Number Outside Employes.	Total Wages	Average Wages.
Clay Daviess. Fountain Gibson Greene Knox Parke. Perry Pike Sullivan Vanderburgh Vermillion Vigo. Warrick.	459 129 89 89 781 180 100 372 402 366 1, 912 1, 884	\$226, 731 46 48, 469 30 51, 524 93 58, 499 74 431, 915 96 103, 024 98 112, 119 51 5, 106 68 270, 212 81 181, 122 64 195, 384 31 955, 765 46 767, 141 25 8, 914 32	\$493 96 375 73 578 93 537 50 553 03 572 36 590 10 510 67 365 65 450 55 533 83 499 87 407 18 356 57	107 30 24 28 186 50 67 3 84 117 85 470 395	\$65,207 37 14,117 23 15,518 71 16,810 00 108,965 80 28,502 42 34,798 46 1,753 63 80,517 31 60,515 45 58,244 05 266,147 88 235,881 39 2,496 73	\$609 41 470 57 646 61 600 36 585 84 570 05 519 38 584 54 466 61 517 23 685 34 566 27 597 16 416 12	63 22 14 16 88 29 30 2 40 51 61 135	\$30, 942 23 8, 474 63 8, 187 02 10, 397 20 55, 637 22 17, 477 66 14, 725 17 1, 323 35 33, 814 74 22, 875 14 37, 299 48 77, 724 93 85, 550 43 1, 552 21	\$491 14 385 21 584 79 649 85 632 24 602 67 490 84 661 68 402 04 448 53 610 97 575 74 570 33 258 70
General average bituminous pick employes	6,888	\$3,415,933 58	\$495 92	1,652	\$989,476 43	\$598 96	707	\$405,951 41	
General average bituminous machine and pick employes combined	12,603	\$ 6,134,671 23	\$486 76	3,505	\$1,987,693 57	\$567 10	1,460	\$876,126 87	\$574 18 \$600 09
General average bituminous and block employes combined	14,017	\$ 6, 7 68,819 67	\$ 482 90	3,915	\$2,216,606 06	\$ 566 18	1,630	\$282,078 28	\$605 90
Grand total average of all employes.	19,562	\$9,973,041 38	\$509 82						\$000.90

Exhibiting a Comparative Statement of Total Tons of Coal Produced, Total Number of Employes, Total Wages Paid and Per Cent. Gain or Loss in Number of Employes, Tons of Coal Produced and Wages Paid in the Block Coal Mines for Each Year from 1901 to 1906, inclusive.

YEAR.	Em- ployes.	Per Cent. Gain.	Per Cent. Loss.	Tons Produced.	Per Cent. Gain.	Per Cent. Loss.	Wages Paid.	Per Cent. Gain.	Per Cent. Loss.
1901 and 1900 1902 1903 1904 1905	2,742 2,452 2,293 2,128 1,966 1,994	.014	10.5 .06 .071 .076	1,090,522 1,162,764 1,025,940 727,062 658,735 746,670	7	27.8 11.7 29.1 .095	\$1,228,372 72 1,356,098 45 1,402,935 99 1,085,056 33 917,501 22 974,549 71	10.4	.025 29— 18.2
Loss, 1906, under 1901			27.2			31—			20.6

TABLE

Showing a Comparative Statement of Total Number of Employes, Total Tons Coal Produced, Total Wages Paid, Per Cent. Gain or Loss in Number of Employes in the Bituminous Mines of the State from 1901 to 1906, Inclusive.

YEAR.	Em- ployes.	Per Cent. Gain.	Per Cent. Loss.	Tons Produced.	Per Cent. Gain.	Per Cent. Loss.	Wages Paid.	Per Cent. Gain.	Per Cent. Loss.
1903 1904 1905	9,354 10,687 12,835 15,710 16,643 17,568	19 14.8 .20 22— .59 .055		5,928,681 7,600,433 8,966,613 9,145,332 10,337,237 10,675,357	24 18 17— .02 .13 .032—		7,746,636 13 8,080,348 05 8,436,393 43	. 35 . 29 . 37 . 43 . 044 . 066	
1906 over 1901		87			80—			.102	

Showing by Counties the Number of Tons of Coal Mined, the Number Kegs of Powder Used, the Average Number of Tons Produced Per Keg in the Block Coal Mines of the State, both Pick and Machine Exhibited Separately. Also a General Average of Tons Produced Per Keg in Both Pick and Machine Mines Combined.

BLOCK COAL MACHINE MINES.

COUNTY.	Tons Produced.	Kegs of Powder.	Tons per Keg.
Clay Parke Vigo	20,599 51,459 32,885	203 426 1,062	101.4 120.8 31
General average	114,869	1,691	67

BLOCK COAL PICK MINES.

Clay. Parke. Vigo	212,551	27,599 12,949 637	15.2 16.4 17.2
General average	631,801	41,185	15.3
Total average for all block mines	746,670	42,876	17.4

TABLE

Showing by Counties the Number of Tons of Coal Mined, the Number of Kegs of Powder Used, the Average Number of Tons Produced Per Keg in the Bituminous Pick Mines of the State, and a General Average of Tons Produced Per Keg in All of the Bituminous Pick Mines Combined.

BITUMINOUS PICK MINES.

COUNTY.	Tons Produced.	Kegs of Powder.	Tons per Keg.
clay Daveiss Oountain Countain	370 006 63,611 78,135 93,853 695,009 172,207 170,086 7,644 485,287 297,382 304,080 1,632,986 1,258,849 1,4,695	13, 608 3, 222 4, 310 3, 959 29, 774 10, 061 7, 635 242 21, 694 13, 569 15, 231 108, 671 54, 197 746	27.19.18.323.323.417.222.1.521.521.521.523.119.19.19.19.19.19.19.19.19.19.19.19.19
General average	5,623,830	286,919	19.

Showing by Counties the Number of Tons of Coal Mined, the Number of Kegs of Powder Used, the Average Number of Tons Produced Per Keg in the Bituminous Machine Mines, and a General Average of Tons Produced Per Keg in all of the Bituminous Mines in the State. Also a Total General Average of Tons Produced Per Keg in the Bituminous Pick and Machine Mines Combined, and a Total General Average of Tons Produced Per Keg in all of the Block and Bituminous Mines Taken as a Whole.

BITUMINOUS MACHINE MINES.

COUNTY.	Tons Produced.	Kegs of Powder.	Tons per Keg.
Clay Greene Knox Parke. Sullivan. Vigo Warrick.	364, 833 1, 495, 254 140, 774 392, 527 2, 028, 711 328, 507 300, 921	7, 061 26, 548 3, 705 9, 406 32, 051 13, 737 4, 722	51.6 56.3 38 41.7 63.3 23.9 63.7
General average	5,051,527	97, 230	51.9
Total general average bituminous pick and machine	10,675,357	384,149	27.9
Total general average of entire State production	11,422,027	427,025	26.8

TABLE

Showing by Counties the Number of Kegs of Powder Per Miner Used in the Mines of Indiana During the Year 1906.

COUNTY.	Number of	Total Kegs	Kegs Per
	Mines.	of Powder.	Employe.
Clay Daviess Fountain Greene Knox Parke Perry Fike Sullivan Vanderburgh Vermillion Vigo	1,587	48, 471	30.5—
	129	3, 222	25.4
	89	4, 310	44—
	2,171	56, 322	26—
	373	13, 766	36.9
	971	30, 416	31.3
	10	242	24.2
	372	21, 694	58.3
	2,330	45, 620	19.5
	366	15, 231	41.3
	1,912	108, 671	52—
	2,185	69, 633	32—
	270	5, 468	20.2
Total	12,854	427,025	33.2

NOTE.—Pick Miners and Loaders are the only employes who use powder in mining coal and are both included in the above table.

NEW MINES.

Thirteen new mines, three of which are block coal and ten bituminous, were opened and developed during the year 1906, distributed in the different counties as follows:

Clay County, one block coal hand mine; Knox County, one bituminous electric machine mine; Parke County, one block and one bituminous hand mine; Pike County, one bituminous hand mine; Vigo County, one block and four bituminous, all of which are hand mines; Warriek County, three bituminous mines, two of which are electric machine and one a hand mine. The bituminous mines above noted, with two exceptions, are each exceptionally well equipped with the latest up-to-date machinery and will be capable of producing a large output of coal.

We exhibit in the following table the names of these new mines and the names of the companies owning them, geological number of coal seam mined, thickness of seam in feet and inches, depth and size of hoisting shaft, character of coal, i. e.: whether block or bituminous, whether hand or machine mined, date of first shipment of coal, location of mine as to county and nearest town or city and the railroad on which the mine is located.

$\begin{array}{cccc} {\bf TABLE} & {\bf OF} & {\bf NEW} & {\bf MINES}. \\ & & & \\ {\bf cLAY} & {\bf COUNTY}. \end{array}$

NAME OF COMPANY.	MINE.		,						Location of Mine.	Railroad.
Chicago Ind. Block Coal Co	Harrison No. 4.	III	4'9"	Block	60	8x16	Pick	9- 1-06	Three miles east of Clay City	E. & I.
		·		·	KN	ox cou	NTY.			
Knox Coal Company	Knox	v	7′	Bitum			Pick	9- 1-06	‡ mile West of Bicknell	I. V. br. Vandalia.
PARKE COUNTY.										
Bridgeton Mining CoZellar-McClellan Co	Bridgeton No. 1. Superior No. 5.	IV	2'6" 3'6"	Bitum Block	145	Slope. 8x21	Pick Pick	12 1-06 9-21-06	One mile No. Bridgeton Two miles N. E. Diamond	C. & I. C. & E. I.
					F	IKE COU	INTY.			
Patoka Valley Coal Co	Hartwell No. 2.	v	5′	Bitum	Slope		Pick	7- 1-06	Hartwell	Branch Southern.
					· · · · · · · · · · · · · · · · · · ·	vigo cot	JNTY.			
Coal Bluff Mining Co. Coal Bluff Mining Co. Coal Bluff Mining Co. Fauvre Coal Co. Sugar Valley Coal Co.	Plymouth No. 1. Victor Wabash Fauvre No. 2 Sugar Valley	III VI IV V V	3'10" 6'6" 5'6" 4'6" 4'6"	Block Bitum Bitum Bitum Bitum		8'6"x20 8'6"x19 8x18 9x16 7x14	Pick Pick Pick Pick	6- 1-06 9- 4-06 None shipped 10- 1-06 1- 1-06	mile East Fontanet. mile West Coal Bluff. miles N. W. Terre Haute. West Terre Haute. One mile West of W. Terre Haute.	C. C. C. & St. L. C. C. C. & St. L. C. C. C. & St. L. Vandalia. Vandalia.
					WAF	RICK CC	UNTY.			
Erie Canal Coal Company	Erie Canal Chandler Castle Garden	V V V	5' 4'	Bitum Bitum Bitum	130	8'6"x18	Machine Machine Pick	8- 1-06 906 9- 1-06	mile West of Chandler	Southern. Southern. Evansville br. Southern

IMPROVEMENTS.

The following sums of money were reported to this office during the year 1906 as having been expended in improvements of different kinds of mines in the counties throughout the State as follows:

Clay County \$6,167.00. Daviess County \$840.00. Fountain County \$120.00. Greene County \$15,331.19. Knox County \$21,-629.78. Parke County \$3,339.18. Pike County \$2,457.00. Sullivan County \$41,218.00. Vanderburg County \$4,886.00. Vermillion County \$16,345.00. Vigo County \$11,982.99. Warrick County \$1,253.00, making a total of \$125,569.14.

We give herewith some of the more important improvements made during the year. The Big Vein Coal Company of Terre Haute have installed new boilers, pumps, etc., at a cost of \$2,935.00 at their Lewis Mine in Clay County. The Jasonville Coal Company, Clay County, expended \$2,769.77 on numerous improvements in their Gold Knob Mine. The Southern Indiana Coal Company reports an expenditiure of \$3,346.00 on improvements at their Midland Mine in Greene County. They do not report the nature of improvements made and as the mine has been idle since April 1, no inspections have been made and we have been unable to ascertain just what improvements were made. The Queen Coal Company, Greene County, sunk and equipped with a stairway the manway or escape shaft at their Fry Mine during the summer, the cost of which was \$2,402.00. The Midvale Coal Company, Greene County, have expended \$3,500 in sinking and equipping a second outlet at their Pennsylvania Mine. The Indiana Fairmont Coal Company, Greene County, have expended \$980.00 improving their haulage roads and numerous other small improvements. The Knox Coal Company have sunk a second outlet, installed an electric plant and overhauled their tipple, making it almost entirely new at a cost of \$20,000.00. This mine was sunk to the lower seam No. V. during the summer months and within a short time will rank among the largest producers in the State. The Big Muddy Coal Company expended \$839.00 completing their manway and various other improvements in their Pine Knot Mine. The Patoka Valley Coal Company, Pike County, have extended their motor haulage road, installed new pumping machinery and made other important changes in their Hartwell Mine at a cost of \$2,457.00, thereby increasing the capacity of the mine.

The Consolidated Indiana Coal Company report \$14,186 having

been expended on improvements in their Sullivan County Mines as follows: No. 25, \$1,693.00; No. 26, \$1,734.00; No. 28, \$2,246.00; No. 29, \$255.00; No. 32, \$2,543.00; No. 33, \$1,746.00; No. 34, \$3,419.00. In reporting the above amounts no statement was made as to the nature of improvements.

The Peabody-Alwart Coal Company of Chicago, Illinois, during the strike in April and May expended \$2,378.00 improving the roadways, timbering, etc., in their Reliance Mine, Sullivan County.

The Diamond Coal and Mining Company, Chicago, Illinois, completed the manway and made other extensive improvements at their Hamilton Mine, Sullivan County, expending \$7,669.00

The D. Ingle Coal Company, Vanderburgh County, remodeled the head frame and tipple at their Ingle Mine in Evansville during the summer at a cost of \$1,851.32.

The Diamond Coal Company, also of Evansville, report \$3,035.00 as having been spent on improvements in their Diamond Mine but do not report the nature of improvements.

The Dering Coal Company report an expenditure of \$5,415.00 as having been spent on improvements in their Vermillion County mines Nos. 5, 6, 7, 8, 9 and 15.

The Clinton Coal Company have installed a box car loader and one new boiler at their Crown Hill No. 1 Mine at a cost of \$1,-130.50. They have also made extensive improvements at their No. 2 Mine amounting to \$2,340.00.

The Charles F. Keeler Coal Company of Chicago, Illinois, have installed new boilers and made other improvements in their Atherton Mine in Vigo County at a cost of \$1,615.00.

The Deep Vein Coal Company, Vigo County, have completed the sinking of the manway at their Deep Vein Mine, also made other improvements, expending \$2,807.00.

The Domestic Block Coal Company, Vigo County, extended their mine switch and completed the manway at their Domestic Block No. 1 Mine at a cost of \$1,000.00.

The Big Four Coal Company, Warrick County, report improvements in their Big Four Mine amounting to \$1,068.00.

The balance of the money was spent on mine buildings, new cages, cars, mining machines and the improvements of the mines in general.

Note 1. The Southern Indiana Coal Company installed a traction motor haulage system in their Lattas Creek Mine, using two tenton motors. They have also installed small gathering motors in their Hoosier No. 1 Mine. We have been unable, however, to learn

the cost of installation at either mine and have had no report as to what success has been met with since the motors have been installed.

Note 2. The Sullivan County Coal Company installed a rope haulage 900 feet in length in their Freeman Mine, Sullivan County, but this department has been unable to learn the cost of same.

CHANGES IN OWNERSHIP.

Several changes in the ownership and operation of mining properites were made during the past year and noted as follows:

The Fox Den Mine, Clay County, formerly owned by the Star Union Coal and Oil Company, was transferred to the Ideal Block Coal Company, who now own and operate it. The present owners have renamed the mine. It is now called the Fortner.

The Continental Clay & Mining Company went into the hands of a receiver early in the spring, under whose administration their Continental No. 1 Mine has since been operated.

The Pennsylvania & Indiana Coal Company suspended operations in the latter part of September on account of financial difficulties and the mine lay idle through October and part of November, when a receiver was appointed and the mine leased to the Midvale Coal Company, who have been operating it since that time.

The Shirley Hill Coal Company was organized in the spring and purchased the Victoria Mine formerly owned by the Victoria Coal Company, assuming control in June. This mine is nearly worked out and will hardly last through the winter. The ownership and control of the Shirley Hill No. 1 and No. 2 Mines, Sullivan County, owned by the Coal Bluff Mining Company, was also assumed at the time the company was organized.

The Letsinger Mine, Greene County, owned by the Letsinger Coal Company, was leased in May by the Indiana Fairmont Coal Company.

The Oswald mine, Gibson County, owned by the Princeton Coal & Mining Company, changed hands in August and is now the property of a Mr. Grover and Mr. Oliphant of Vincennes, but is operated under the name of the original company.

The Superior Mine, Sullivan County, owned by the Superior Coal Company of Terre Haute, was bought in August by the Hudson Coal Company of Chicago, who have made extensive repairs and increased the capacity of the mine to about 600 tons per day.

The Shelburn Mine, Sullivan County, formerly the property of the Keystone Coal Company, was purchased in the fall by the A. H. Whitsett Coal Company and the mine is known as the Keystone.

The First Avenue Mine in Evansville, owned by the C. Thomas Coal Co., was purchased by Charles Schimel, Henry Koff, Frank Gunther and Fred Jourden, who have organized and operate the mine under the name of the Banner Coal Co.

The Maple Valley No. 1 Mine, owned by the Maple Valley Coal Company, and the Prince mine, owned by the Keller Coal Company, were purchased by the Oak Hill Coal Company, who assumed control of the former in May and the latter October 15.

The above transfers, while not nearly so large as in 1905, will represent an aggregate of several hundred thousand dollars.

ABANDONED MINES.

The number of mines abandoned during the year 1906 was less by two than that of the new mines opened for the same period. Eleven mines in all were abandoned during the year, three of which were block coal mines, two in Clay County and one in Parke County; eight bituminous mines, one in Clay County, two in Sullivan, four in Vigo and one in Warrick County. The greater number of the bituminous mines abandoned have been known as among the largest producers of the State. In the following table will be found the names of the mines abandoned, the names of the companies owning them, date of abandonment, county in which they were operated and the railroad on which they were located.

TABLE
Abandoned Mines.

NAME OF MINE.	Name of Company.	Date.	County.	Railroad.
Crawford No. 4. Vandalia No. 64. Superior No. 7. Pan-American. Consolidated No. 29. Vandalia No. 80. Vandalia No. 82. Peerless. Diamond. Dering No. 9. Dering No. 10. Star No. 1	Zellar-McClellan & Co Plymouth Block Coal Co. Consolidated Indiana Coal Co. Vandalia Coal Co. Vandalia Coal Co. Coal Bluff Mining Co. Coal Bluff Mining Co. Dering Coal Co. Dering Coal Co. Dering Coal Co.	March 31, 1906 March 31, 1906 March 31, 1906 May 1, 1906 March 31, 1906 March 31, 1906 June 29, 1906 March 31, 1906 March 31, 1906 March 31, 1906	Clay Parke. Sullivan. Vigo. Vigo. Vigo. Vigo. Vigo. Vigo.	Vandalia.

NOTE.—The Knox Coal Company abandoned the Upper Seam No. 6, which they formerly mined and sunk to No. 5 during the year.

Exhibiting the Names of Coal Companies, Names of Mines Operated by Them, the Geological Number of the Different Coal Seams Mined, the Thickness of Each Seam, the Depth from Surface to Each Seam, Pick or Machines Mines, and whether the Coal Seams are Gaseous or Non-Gaseous.

BLOCK COAL MINES.

CLAY COUNTY.

NAME OF COMPANY.	Name of Mine.	Railroad.	Geological number of Coal Seam.	Thickness of Coal Seam.	Depth from surface to Coal Seam.	Pick or Machine Mine.	Fire Damp.
Brazil Block Coal Co Supe. Jor Block Coal Co Superior Block Coal Co Zellar-McClellan Coal Co Zellar-McClellan Coal Co Criego-Indiana Block Coal Co Crawford Coal Co Dan Davis Coal Co Dan Davis Coal Co Dan Davis Coal Co Dan Davis Coal Co Coal Bluff Mining Co Coal Bluff Mining Co Coal Bluff Mining Co	Brazil No. 4 Brazil No. 7 Brazil No. 8 Continental. Rebstock. Superior No. 4. Superior No. 4. Crawford No. 2. Crawford No. 2. Crawford No. 6. Crawford No. 8. Crawford No. 8. Crawford No. 9. Monarch. Lower Vein No. 1. World's Fair No. 2. Eureka No. 5 Treager. Vandalia No. 50. Glenn No. 1.	Vandalia E. & I. Vandalia Vandalia Vandalia E. & I. C. & E. I. C. & E. I. E. & I. C. C. C. & St. L. Wagon mine Center Point branch Vandalia. C. & E. I.	IV III III IV	3'6" 3'6" 4'6" 4'6" 4'6" 3'9" 4'6" 3'6" 3'6" 3'6" 3'6" 3'6"	101 160 75 89 65 80 75 60 60 68 116 50 81 57 116 60 105	Machine Pick	No.

PARKE COUNTY.

Otter Creek Coal Co	Mary Brazil No. 9 Superior No. 1 Superior No. 2 Superior No. 3 Superior No. 3 Superior No. 5	C. & I. C. C. & I. C.	111 111 111 111 111-1V 111-1V 111	3'6" 4'10" 4'6" 5' 3'6"-3'8" 4' 3'6" 4'	98 105 120 108 135 40 145 70	Pick Machine. Pick Pick Pick Pick Pick Pick Pick Pick	None Small per cent. Pick, Non-gaseous. Non-gaseous. Non-gaseous. Non-gaseous. Non-gaseous. Non-gaseous.
		VIGO COUNTY.					
Domestic Block Coal Co	Domestic Block No. 1	C. & E. I	IV	4'	110	Pick	Non-gaseous.

BITUMINOUS COAL MINES.

CLAY COUNTY.

BITUMINOUS COAL MINES—Continued.

DAVIESS COUNTY.

NAME OF COMPANY.	Name of Mine.	Railroad.	Geological number of Coal Seam.	Thickness of Coal Seam.	Depth from surface to Coal Seam.	Pick or Machine Mine.	Fire Damp.
tucky & Osborn	Stucky. Montgomery No. 3. Mutual. Mandabach.	Wagon mine. B. & O. S. W. B. & O. S. W. Wagon mine.	III V III V	3′ 3′8″ 4′6″ 6′	Drift	Pick Pick Pick Pick.	Non-gaseous. Non-gaseous. Non-gaseous. Non-gaseous.
		FOUNTAIN COUNTY.					
Rush Coal Co	IndioSilverwood	Clover Leaf	III	5′5″ 3′9″	80 45	Pick Pick	Non-gaseous. Non-gaseous.
	•	GIBSON COUNTY.	_			-	
Princeton Coal & Mining Co Fort Branch Coal Co Massey Coal Co	Oswald Fort Branch Massey	Southern. E. & T. H E. & I	V V VI	6′10″ 4′ 6″ 4′ 6″	450 262 50	Pick Pick	Very gaseous. Gaseous. Non-gaseous.

GREENE COUNTY.

	1						
United Fourth Vein Coal Co	Black Creek	Southern Indiana	IV	4'8"	82	Machine	Non-gaseous.
United Fourth Vein Coal Co	Island Valley No. 3	Southern Indiana	IV	5'6"	47	Pick	Non-gaseous.
United Fourth Vein Coal Co	Glenburn	Southern Indiana	ĪV	4'6"	102	Machine	Non-gaseous,
United Fourth Vein Coal Co	Antioch.	Southern Indiana	ĨŸ	4'6"	176	Pick	Small per cent.
United Fourth Vein Coal Co	North Linton	Southern Indiana	îv l	4'2"	68	Pick	Non-gaseous.
Vandalia Coal Co	Vandalia No. 2.	I. & V. branch Vandalia	îÿ	5,~	66	Pick	Non-gaseous.
Vandalia Coal Co	Vandalia No. 3	I. & V. branch Vandalia	îv	5'	šĭ l	Pick	Non-gaseous.
Vandalia Coal Co	Vandalia No. 4.	I. & V. branch Vandalia	ŤŸ	5'	55	Pick	Non-gaseous.
Vandalia Coal Co	Vandalia No. 5	I. & V. branch Vandalia	îÿ	5'	95	Machine	Non-gaseous.
Vandalia Coal Co	Vandalia No. 6.	I. & V. branch Vandalia	îv	5'	72	Machine	Non-gaseous.
Vandalia Coal Co	Vandalia No. 8.	I. & V. branch Vandalia	îv	5′6″	132	Machine	Non-gaseous.
Vandalia Coal Co.	Vandalia No. 9.	I. & V. branch Vandalia	īv	5,0	128	Machine	Non-gaseous.
Vandalia Coal Co	Vandalia No. 21.	I. & V. branch Vandalia	îv	š′	95	Machine	Non-gaseous.
Midvale Coal Co	Midvale	Southern Indiana	îii	• 7'6"	217	Pick	Small per cent.
Indiana Southern Coal Co	Gilmour.		ĨV	5'4"	152	Machine	Non-gaseous.
Southern Indiana Coal Co	Hoosier No. 1.	Southern Indiana	îv	3'7"	133	Pick	Non-gaseous.
Southern Indiana Coal Co	Hoosier No. 2.	Southern Indiana	Ť	7'	46	Pick	Non-gaseous.
Southern Indiana Coal Co	Tower Hill	Southern Indiana	III	7'	132	Machine	Non-gaseous.
Southern Indiana Coal Co	Midland	Southern Indiana	ΪΪΪ	7'	245	Machine	Small per cent.
Southern Indiana Coal Co	Lattas Creek	Southern Indiana	ĨV	5'	153	Machine	Non-gaseous.
Summitt Coal Co	Summitt No. 2.	I. & V. branch Vandalia	ĪV	5'6"	150	Machine	Non-gaseous.
Green Valley Coal Co	Green Valley	Southern Indiana		5'2"	121	Machine	Non-gaseous.
Vulcan Coal Co	Vulcan.	Indianapolis Southern	v	6'	Slope	Pick	Non-gaseous.
Shirley Hill Coal Co	Victoria	Indianapolis Southern	IV	5'8"	22	Pick	Non-gaseous.
Queen Coal Co	Queen	Southern Indiana	ĪÙ	3'7"	87	Pick	Non-gaseous.
Indiana Fairmont Coal Co	Letsinger	Southern Indiana	ĪÌÌ	7'6"		Pick	Small per cent.
Calora Coal Co	North West	Southern Indiana		5′	75	Pick	Non-gaseous.
Coal Bluff Mining Co	Twin No. 4	Southern Indiana	v	ő′	56	Machine	Non-gaseous.
Coal Bluff Mining Co	Twin No. 5		ΙÙ	ă′	152	Machine	Non-gaseous.
221111111111111111111111111111111111111				•	102		2.0 2

KNOX COUNTY.

Knox Coal Company Bicknell Coal Company Prospect Hill Coal Co. Vandalia Coal Co.	Bicknell. Prospect Hill. Vandalia No. 40.	I. & V. (Vandalia)	V VI VII VI	4'4" 3' 4'3"	92 335 154	Pick Pick Pick	Small per cent. Gaseous at times. Gaseous at times.
Big Muddy Coal Co. Freeman Coal Co. Washington-Wheatland Coal Co Lynn Coal Co.	Freeman	I. & V. (Vandalia)	VI V VII V	4'6" 7' 5' 6'	210 234 100 200		Small per cent.

BITUMINOUS COAL MINES-Continued.

PARKE COUNTY.

NAME OF COMPANY.	Name of Mine.	Railroad.	Geological number of Coal Seam.	Thickness of Coal Seam.	Depth from surface to Coal Seam.	Pick or Machine Mine.	Fire Damp.	
United Coal & Mining Co	Mecca No. 3. Lyford No. 1. Vandalia No. 316. Vandalia No. 317. Harrison. Parke No. 11	C. & I. C. C. & E. I. Logansport (Vandalia). Logansport (Vandalia). Wagon mine. Logansport (Vandalia).	III VI III III IV VI	5′ 6′6″ 4′6″ 5′ 4′ 6′6″	166 150 Slope	Pick	Non-gaseous. Small per cent. Small per cent Small per cent. Small per cent. Small per cent.	
PERRY COUNTY.								
Bergenroth Bros.	Troy	Ohio River transportation	- 11	• 3′	50	Pick	Non-gaseous.	
PIKE COUNTY.								
Muren Coal Co. D. Ingle Coal Co. D. Ingle Coal Co. D. Ingle Coal Co. S. W. Little Coal Co. S. W. Little Coal Co. S. W. Little Coal Co. Patoka Valley Coal Co. Patoka Valley Coal Co.	Muren Ayrshire No. 3. Aryshire No. 4. Ayrshire No. 5. Rogers Blackburn Littles Hartwell No. 1. Hartwell No. 2.	Southern. Southern. Southern. Southern. E. & I. E. & I. E. & I. Southern. Southern. Southern.	V V V V V V V	4'6" 5'4'8" 7'6'6" 6'6" 5',	DriftSlopeSlope80	Pick.	Non-gaseous.	

SULLIVAN COUNTY.

Indiana Southern Coal Co	Bunker Hill	Indianapolis Southern	VI	4'6"	72	Machine	Fire damp in faults.
Indiana Southern Coal Co	Caladonia	Indianapolis Southern	Ϋ́Î	5'3"	106	Machine	Fire damp in faults.
Indiana Southern Coal Co	Phœnix No. 4.	E. & T. H	ΫĪ	6'6"		Machine	Fire damp in faults.
Indiana Southern Coal Co	Cummins	Southern Indiana	Ϋ́ĪΙ	5′	Slope	Pick	Fire damp in faults.
Indiana Southern Coal Co	Hocking	Southern Indiana	ΥÍ	š′6″	80	Machine	Fire damp in faults.
Indiana Southern Coal Co	Citizens	Southern Indiana	Ϋ́Î	š, °	165	Machine	Fire damp in faults.
Sunflower Coal Co.	Sunflower	Indianapolis Southern	Ϋ́Î	6'		Machine	Fire damp in faults.
Consolidated Indiana Coal Co	Consolidated No. 25.	E. & T. H	Ϋ́Ϊ	5'6"	235	Machine	Fire damp in faults.
Consolidated Indiana Coal Co.	Consolidated No. 26.	Southern Indiana		5,	110	Machine	Fire damp in faults.
Consolidated Indiana Coal Co	Consolidated No. 28.	Southern Indiana	VI	6'	200	Machine	Fire damp in faults.
Consolidated Indiana Coal Co	Consolidated No. 29	E. & T. H	Ϋ́Î	5'6"	120	Machine	Fire damp in faults.
Consolidated Indiana Coal Co.	Consolidated No. 30	E. & T. H		5'6"	197	Machine	Fire damp in faults.
Consolidated Indiana Coal Co	Consolidated No 31	E. & T. H	v	6'	53	Pick	Non-gaseous.
Consolidated Indiana Coal Co.	Consolidated No. 32	Southern Indiana	V	7′	105	Machine	Gaseous.
Consolidated Indiana Coal Co	Consolidated No. 33	Southern Indiana	v	6'		Machine	Gaseous.
Consolidated Indiana Coal Co	Consolidated No. 34	E. & T. H		6'		Machine	Gaseous.
Vandalia Coal Co	Vandalia No. 10	I. V. (Vandalia)	IV	5'6"	260	Pick	Gas in faults.
Jackson Hill Coal Co	Jackson Hill No. 2	E. & T. H	VI	5′8″	104	Machine	Gas in faults.
Jackson Hill Coal Co	Jackson Hill No. 4	E. & T. H	VI	5,	155	Machine	Gas in faults.
A. H. Whitsett Coal Co	Shelburn	E. & T. H	v	6′	317	Machine	Very gaseous.
Sullivan County Coal Co	Freeman	Indianapolis Southern	VI	5'	100	Pick	Gas in faults.
Dering Coal Co	Dering No. 12	E&TH	VII	5'6"	80	Pick	Gas in faults.
Dering Coal Co	Dering No. 13	E. & T. H	VI	5'	144	Machine	Gas in faults.
Dering Coal Co	Dering No. 14	E. & T. H	VI	5'6"	103	Machine	Gas in faults.
Southern Indiana Coal Co	Semi-Block	Southern Indiana	III	6'6"	235	Machine	Very gaseous.
Southern Indiana Coal Co	Mammoth Vein	Southern Indiana	i VI	6'	173	Machine	Gas in faults.
Shirley Hill Coal Co	Shirley Hill No. 1	Monon	VI	5'6"	110	Machine	Gas in faults.
Shirley Hill Coal Co	Little Giant	Monon	VI	5'6"		Machine	Gas in faults.
Shirley Hill Coal Co	Shirley Hill No. 2	I. & V. (Vandalia)	IV	4'7"	307	Machine	Gas in faults.
Hudson Coal Co	Superior	E. & T. H	VII	5'6"	112	Pick	Gaseous.
Kettle Creek Mining Co	Kettle Creek	E. & T. H	l VI	5′3″	152	Machine	Gas in faults.
Peabody-Alwart Coal & Mining Co	Reliance	E. & T. H	VI	5'	237	Machine	Gas in faults.
Diamond Coal & Mining Co	Hamilton	E. & T. H.	III	6'6"	255	Machine	Gaseous.
United Fourth Vein Coal Co	Black Hawk	Southern Indiana	1111	6'4"	240	Machine	Small per cent of gas.
Clover Leaf Coal Co	Cloverleaf	Indianapolis Southern	17	4'7"	307	Machine	Very gaseous.
Carlisle Coal & Clay Co	Carlisle	E. & T. H	VI	4'7"	307	Machine	Gas in faults.
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BIMUMINOUS COAL MINES-Continued,

VANDERBURGH COUNTY.

NAME OF COMPANY.	Name of Mine.	Railroad.	Geological number of Coal Seam.	Thickness of Coal Seam.	Depth from surface to Coal Seam.	Pick or Machine Mine.	Fire Damp.
Diamond Coal Co. Banner Coal Co. D. Ingle Coal Co. Sunnyside Coal Co. Union Coal Co. Crescent Coal Co.	AvenueIngleside	T. & N.	V V V	4' 4' 4' 4' 4'	256 265 235 255 255 235 225	Pick Pick Pick Pick Pick	Small per cent.
		VERMILLION COUNTY					
Dering Coal Company. Dering Coal Company. Dering Coal Company. Dering Coal Company. Cayuga Brick & Coal Co. Clinton Coal Co. Clinton Coal Co. Clinton Coal Co. Oak Hill Coal & Mining Co.	Eureka. Crown Hill No. 1. Crown Hill No. 2. Oak Hill Maple Valley No. 1. Buckeye No. 2.	Consumed at Brick yard C. & E. I.	. v.	4'10" 5' 6" 5' 6" 5' 6" 5' 6" 4'10" 6' 6" 4' 8" 4'10"	85 265 100 176 110 164 151 40	Pick.	Non-gaseous. Small per cent. Non-gaseous. Small per cent. Small per cent. Non-gaseous. Non-gaseous. Non-gaseous. Non-gaseous. Non-gaseous. Non-gaseous. Non-gaseous.

		1					
Dering Coal Company	Dering No. 6	C. & E. I. C. & E. I. C. C. C. & St. L.	<u>VI</u>	4'8"	110	Pick	Non-gaseous.
Chas. F. Keeler Coal Co	Atherton	C. & E. I	VI	6′9″	165	Machine	Small per cent.
Coal Bluff Mining Co	Diamond	C. C. C. & St. L	VI	6′	54	Pick	Small per cent.
Coal Bluff Mining Co	Peerless	C. & 1. C	VI ·	7′	101	Pick	Non-gaseous.
Coal Bluff Mining Co	Lawton	C. C. C. & St. L	VΙ	6'6"	110	Pick	Small per cent.
Grant Coal & Mining Co	Grant No. 2	C. & E. I	VΙ	6'6"	120	Pick	Small per cent.
Dering Coal Company	Dering No. 9	C. & I. C	VI	6'6"		Pick	Non-gaseous.
Dering Coal Company	Dering No. 10	C. & I. C. C. & I. C	VΙ	6'6"	Slope	Pick	Non-gaseous.
Vandalia Coal Company	Dering No. 10 Vandalia No. 66	Vandalia	VI	6'	103	Pick	Non-gaseous.
Vandalia Coal Company	Vandalia No. 67	Vandalia	VI	6'	110	Pick	Non-gaseous.
Vandalia Coal Company	Vandalia No. 68	Vandalia	VI	7'	133	Pick	Small per cent.
Vandalia Coal Company		Vandalia	VI	6'	120	Pick	Small per cent.
Vandalia Coal Company		Vandalia	VĪ			Pick	Small per cent.
Vandalia Coal Company	Vandalia No. 81	Vandalia	VII	4'4"	80	Pick	Small per cent.
Vandalia Coal Company	Vandalia No. 82	Vandalia. C. C. C. & St. L	v	6'	105	Machine	Small per cent.
Coal Bluff Mining Company	Wabash	C. C. C. & St. L	IV		300	Pick	Gaseous.
Lower Vein Coal Company.	Lower Vein No. 1	C. C. C. & St. L.	Ÿ	51/ 4 ³ 6"	201	Pick	Gaseous.
Miami Coal Company			VΊ	7,	82	Pick	Non-gaseous.
Miami Coal Company	Miami No. 2.	C & E I	Ϋ́Î	6'	50	Pick	Non-gaseous.
Miami Coal Company		C. & E. I.	Ϋ́Ī	7'	85	Pick	Non-gaseous.
Parke County Coal Company	Parke No. 10.	Logansport (Vandalia)	Ϋ́Ī	6'6"	100	Machine	Non-gaseous.
Fauvre Coal Company.	Fanuro No. 1	Vandalia	Ϋ́Î	6,0	90	Pick	Gaseous.
Domestic Block Coal Co.	Fauvre No. 1. Domestic Block No. 1.	C & F I	ΪΫ	4'	110	Pick	Non-gaseous.
Coal Bluff Mining Co.	Plymouth No. 1.	C. & E. I. C. C. C. & St. L.	ÍÚ	- 1	215	Pick	Non-gaseous.
Fauvre Coal Company	Fauvre No. 2.	Vandalia	v	4'6"	228	Pick	Non-gaseous.
West Terre Haute Coal Co.	Larimer		viı	4'8"	110	Pick	Non-gaseous.
Deep Vein Coal Company.	Deep Vein.	Vandalia	Ϋ́Ι	8,0	170	Pick	Gaseous.
Vigo County Coal Company	Ray No. 2.	Vandalia	Ϋ́τ	7'4"	95	Pick	Non-gaseous.
Indiana Southern Coal Co.	Forrest	Vandalia. C. C. C. & St. L.	Ϋ́î	6'5"	150	Machine	Small per cent.
Sugar Valley Coal Company	Sugar Valley No. 1	Wagen mine	v	4'6"	185	Pick	Small per cent.
Coal Bluff Mining Company	Victor	Wagon mine. C. C. C. & St. L.	VT	6'6"	50	Pick	
Coar Druit mining Company	V IU IO I	U. U. U. & Du II	¥1	0.0"	90	I !CK	Non-gaseous.
		WILDDIGHT GOTTIMU					
		WARRICK COUNTY.					

WARRICK COUNTY.

Big Four Coal Company. J. Woolly Coal Company. C. Menden Coal Company. John Archibald Coal Co. T. D. Scales Coal Co. Worsham Coal Company. Caladonia Coal Company. Erie Canal Coal Company. Chandler Coal Company. Castle Garden Coal Co. Elberfield Coal Company.	Big Vein No. 3. DeForrest. Star No. 1. Electric Burke. Dawson. Eric Canal. Chandler. Castle Garden.	Southern. Southern. Southern. Southern. Southern. Southern. Southern. Southern. Southern.	V V V V V V V	7' 7' 7' 4'4" 7' 4'4" 4' 5'	Slope	Machine Machine Pick Machine Pick Pick	Non-gaseous. Small per cent. Non-gaseous. Non-gaseous. Non-gaseous. Non-gaseous. Small per cent. Small per cent. Small per cent.
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7.7.

EXAMINATIONS.

Examinations of applicants for certificates of competency to serve as mine boss, fire boss and hoisting engineers were held at three different times during the year 1906, all of which examinations were held in Terre Haute. There was a total of one hundred and fifty nine (159) candidates examined, ninety-eight or a fraction over sixty-one per cent. (61%) of whom passed a successful examination and were granted certificates. The date of each examination, the number of each class of applicants examined, the number passed and the number who failed is shown in the annexed table.

See.	Tota	l Applie	ants.		Passed.		-	Failed.	
	м. в.	F. B.	н. е.	М. В.	F. B.	н. е.	м. в.	F B.	н. е.
May 15, 16	24 44 21	5 8 6	17 15 19	18 21 20	2 6 4	9 6 12	6 23 1	3 2 2	
Total	89	19	51	59	12	27	30	7	24

The following is a list of the names and addresses of persons to whom certificates have been granted, also the number of the certificate, the per cent. grade made by each applicant and the date of the examination at which they passed.

MINE BOSS.

Examinations held May 15 and 16, 1906.

No.		
Certifica	te. Name and Address.	Per cent.
1.	Wm. M. Lee, Jasonville	83
2.	W. B. Sharps, Mecca	77
3.	M. F. Collins, Seeleyville	76
4.	Wm. McGlossin, Cloverland	76
5.	W. E. Cox, Bicknell	7 9
6.	Wm. H. Raney, Princeton	7 6
8.	Wm. P. Evans, Brazil	79
9.	J. N. Hathaway, Sullivan	81
12.	Calvin S. Miller, Linton	82
14.	Wm. S. Ball, Brazil	80
15.	E. W. Worsham, Evansville	77
16.	Fred McClanahan, Hymera	80
17.	Eli P. Berry, Bridgeton	88
18.	J. L. Brayer, Seeleyville	86
21.	Edward G. Epple, Jasonville	83
23.	Alfred K. Froeschke, Linton	77
24.	Jacob T. Pope, Midland	76

EXAMINATIONS.

FIRE BOSS.

No.		_
Certifica	to. It will with 21 days coo.	Per cent
43.	James M. Templeton, Vicksburg	85
44.	Wm. Humthrey, Farmersburg	80
	HOISTING ENGINEER.	
28.	Ray Scott, Bridgeton	85
30.	J. W. McKee, Linton	80
31.	Park Phillips, Mecca	76
54.	James Scott, Vincennes	. 80
36.	F. L. McElroy, Shelburn	
38.	Wm. Squire, Lyons	
39.	David O. Squire, Lyons	. 81
40.	Byrd Squire, Linton	
46.	C. E. Williams, Linton	. 76
	MINE BOSS.	
	Examination held August 9 and 10, 1906.	
-		. 80
1.	James Owens, Linton	
2.	Richard Anderson, Clinton	
3.	Wm. Sheffler, Linton	
5.	Robert Tarrants, Boonville	
6.	Henry West, Brazil	
13.	Nick Anderson, Linton	
14.	Henry Hilton, Dugger E. H. Powell, Carlisle	
22.		
23.	M. H. Head, Midland	
25.	James Dunn, Shelburn	
36. 49.	Charles Stahlberg, Jasonville	
50.	Thomas Oxley, Jasonville	
50. 52.	Wm. Knowles, Elsworth	
55.	James Navin, Diamond	
56.	Ebert Hammack, Boonville	
64.	Wm. F. Brown, Midland	
66.	P. B. Rossiter, Shelburn	. 80
68.	Alexander Hunter, Farmersburg	. 80
71.	William Stinson, Terre Haute	
73.	Wellington O'Connor, Terre Haute	
	FIDE PASS	
50	FIRE BOSS. W. W. Burgess, Shelburn	80
53.	John Dawson, Sullivan	. 81
58.	W. E. Cox, Bicknell	. 84
59. 60.	Thomas Gillespie, Bicknell	
61.	Jack Smith, Jackson Hill	
62.	David Price, Farmersburg	

HOISTING ENGINEER.

No.		
Certifica	nte. Name and Address.	Per cent
29.	Dan Fitzpatrick, Dugger	79
38.	Noble Azbell, Linton	78
39.	Wm. Thompson, Bicknell	85
42.	Oliver D. Targett, Brazil	89
44.	W. H. Sexton, Midland	85
48.	Shirley Devine, Brazil	86
	MINE BOSS.	
	Examination held November 20 and 21, 1906.	
1.	Joseph Osha, Washington	78
2.	Thomas Gillespie, Bicknell	81
3.	James Robertson, Bicknell	. 83
4.	A. J. Miller, Linton	84
5.	Thomas Fleming, Brazil	85
8.	Henry Thompson, Jasonville	
9.	Thomas Rosser, Jasonville	
10.	Samuel Roebuck, Farmersburg	
11.	P. A. Roberts, Clinton	
12.	Hugh Barron, Bicknell	
13.	Morgan Jenkins, Brazil	
14.	Bernerd Navin, Brazil	
16.	Pat McQuade, Brazil	_
17.	Wm. Burrows, Shelburn	
19.	H. A. Barrick, Jasonville	
20.	Thos. J. McKanna, Brazil	
42. 43.	George Wilkes, Dugger	
45. 49.	Wm. Seckenger, Farmersburg	
40.	win. Secrenger, Parmersburg	. 00
	FIRE BOSS.	
6.	James Kerr, Paxton	
7.	John Richards, Dugger	
46.	Emile Dubrell, Linton	
47.	Victor Novens, Midland	. 85
	HOISTING ENGINEER.	
22.	James Marlow, Hymera	80
23.	Wm. Jeffreys, Brazil	. 77
26.	Edward Pirtle, Paxton	. 87
25.	O. B. Martin, Linton	79
27.	W. H. Gladish, Winslow	82
28.	Henry Ammis, Clinton	
30.	Con McCain, Petersburg	
31.	P. H. McKee, Midland	
32.	Bert R. Sherwood, Sullivan	
34.	Frank Lyib, Bicknell	
36. 41	Eli Dickey, Clay City	79 77

SERVICE CERTIFICATES.

Certificates of service have been granted to the following persons in 1906:

MINE BOSS.

John Bray, Brazil......November 21.

HOISTING ENGINEER.

FIRE BOSS.

Enoch Atkinson, Shelburn......July 24.

Note.—Owing to the fact that the larger number of mines opened at the present time are sunk to the lower coal measures, which in numerous instances generates fire damp, the demand for good fire bosses is increasing daily and the young man who studies and equips himself for this line of work will find a ready demand for his services in the future.

FATALITIES AND INJURIES.

It is pleasing to note that notwithstanding the fact that more coal was mined in Indiana during the year 1906 than in any preceding year, yet the year shows a decrease under 1905 (the next largest year in production in the history of the State) of sixteen in the number of fatal accidents or seventeen under the total number of mine casualties.

The monthly reports of mine bosses made to this office in 1906 show an aggregate of two hundred and thirty-three accidents to mine employes, classed as follows: Fatal, thirty-one; serious, one hundred and four; minor, ninety-eight. The different causes of these accidents will be found in the annexed table.

TABLE.

Exhibiting the Number of Casualties Occurring in the Mines of Indiana, During the Year 1906, and the Different Causes of Such Accidents.

CAUSE OF ACCIDENT.			Fatal.	Serious.	Minor.	Total
alling slatealling coal			19	28	30	
alling coal	· · · · · · · · · · · · · · ·	· · · · ·		8	15	
scending cage		• • • • •		Į	;-	
escending cageicked by mule		• • • • •	2	1 1	12	
jured by mine car				22	25	
alling down shaft.			1 1		20	
ining machines		• • • • •	i *	5	9.	
ailroad cars				Ĭ		
al falling down shaft.			-	Î	2	
elayed shots				$\bar{2}$	$\bar{2}$	
emature shots				4		
isplaced or windy shots	. .		2			
ot blowing through pillar			1	3	1	
noke explosion			1	12	1	
re damp explosion				5	2	
wder explosion	<i></i>			5	1	
Total			31	104	98	

FATAL ACCIDENTS.

Each of the above fatal accidents have been investigated either by myself or one of my assistants, acting in conjunction with the coroner of the county in which the accident occurred and we submit herewith, by months, the number of accidents occurring, together with a detailed statement of facts and circumstances adduced at investigation, also such comments on same as we deem necessary.

JANUARY.

Four fatalities resulting from mine accidents, due to different causes, occurred during this month. The first of which was that of Jerry Richardson, American, loader, aged 24 years, who was fatally injured by falling slate, on the 12th inst., in the Citizens Mine, located within the corporate limits of the town of Sullivan. Richardson and one other person were employed to drive a room through a fault which had been struck and were working by the day. About 10:30 o'clock a. m. of above date, he was engaged at work about 8 feet back from the face of his room when a piece of slate 4 feet long, 3 feet wide, ranging from 3 to 11 inches thick, fell on him, injuring him so badly he died 7 hours later. He leaves a dependent wife.

On Junuary 18, Elmer Turpin, a driver, aged 23 years, American, single, was almost instantly killed by being run over by a

loaded mine car, in the Vandalia No. 8 Mine, Greene County. About 2:45 o'clock P. M. he was coming out of the mine with a loaded trip. The mule was traveling at a very rapid pace, and decedent was riding on the front end of the car, standing with one foot on the draw-bar of the car and the other on the tail chain, when by some means, either by being kicked by the mule or by slipping, he fell off the tail chain under the rapidly moving car and was dragged some ten or twelve feet. He made one outcry after falling, calling for help, but when assistance arrived a few moments later and the car was raised up, he was dead.

On January 27th, Charles Robins, loader, aged 38 years, American, single, was killed by falling slate in the Forest Mine. There were no eye witnesses to this accident, but from evidence adduced at the investigation, which was conducted by the Coroner of Vigo County and assisted by Inspector Thomas, it was learned decedent was last seen alive about 3:30 o'clock P. M. A searching party on going into the mine to look for him at 10:30 o'clock P. M. found him lying under a large piece of slate, dead. On inspecting decedent's working place, Mr. Thomas found it well timbered to within 14 feet of the face, the usual distance timber is kept back from the face in electric chain machine mines. The roof inside that point, however, was not very good and should have been timbered.

January 29, Fred Waldon, driver, aged 19 years, American, single, was fatally injured by being run over by a loaded mine car in the Gilmoure Mine, Greene County. This accident was similar to that occurring to Elmer Turpin at the Vandalia No. 8 Mine. Waldon was coming out of the mine with a loaded trip about 9:45 o'clock p. m. when he was either kicked by the mule or slipped and fell off the tail chain under the moving car, injuring him so that he died just as they reached the top of the shaft.

FEBRUARY.

Two fatal accidents occurred on the 9th day of this month, when Silvio Andretta, aged 28 years, and John Morush, aged 24 years, both Italians and single, met their death from suffocation in the Maple Valley Mine, Vermillion County. Both men were employed as shot firers in the above mine and had gone into the mine on the evening of the above date as usual to fire the shots which had been prepared by the miners during the day, all other persons being out of the mine at this time. They commenced shooting on the first

west cross entry and had lighted all of the shots (ten in number) on that entry and the second west and had gone into room number one on the first south entry for safety. All of the shots were tamped on fuse and it was presumed that they were lighted one after the other in rotation until all had been lighted, without waiting for any one of them to explode and that a number of them, perhaps all, exploded simultaneously; one of which, as found on inspection, was a blown-out shot causing an explosion creating an after damp, which together with the powder smoke brought death to the two men. The accident occurred about 3:40 o'clock p. m. and when the results were known a short time later, both men were found in the room to which they had gone for safety, lying face downward, dead. Two more lives were sacrificed in this instance that might have been prevented had squibs instead of fuse been used in firing the shots.

MARCH.

Eight fatalities is the record for this month. On the 1st day of the month Seth Hayden, a miner, aged 25 years, American, single, was fatally injured by falling slate in the Muren Mine, Pike County. About 8:30 o'clock a. m. decedent was engaged in timbering his room when a large piece of slate measuring 8 feet in length, 6 feet 6 inches in width and ranging from 3 to 10 inches thick, under which he was working, fell on him inflicting injuries from which he died at 9 o'clock p. m. of the same date.

March 2, Enoch James, miner, aged 36 years, Welshman, single, was fatally injured by falling roof in the Crawford No. 6 Mine, Clay County. This accident was investigated by Assistant Inspector Thomas, who reports decedent's working place well timbered to within 7 feet of the face, also that the roof was exceptionally good, other than a roll formation composed of slate, iron and black-jack, commonly called by miners a "pot," which lay across the place between the timbers and the face. At the time of his accident, decedent was engaged at face mining in the coal when a large piece of this formation about 10 feet in length, from 2 to 3 feet wide and 10 inches thick fell on him, crushing and injuring him so that he died one and one-half hours later. This is the first fatal accident to have been reported by this company.

March 2, Balis Yandell, aged 28 years, loader. American, was fatally injured by falling slate in the Reliance Mine, Sullivan County. This accident was investigated by myself, and on examining decedent's working place, i. e., the second northeast cross

entry, I found it well timbered to within 20 feet of the face. The roof inside that point was, however, very bad, due to a large fault which had been struck in the face of the entry. Two props had been set by the day men under this loose slate where at least a half dozen were necessary. The entry had been undercut with an electric chain mining machine. The above fault lay directly across the place and had caused the last shot to blow out and leave a part of the shot. At the time of his accident decedent had just finished loading a car and was engaged shearing off the coal preparatory to placing a shot for shooting down the remainder of the under cut. While so engaged, a large piece of slate fell on him crushing and injuring him internally. His injuries, while serious, were not considered fatal, yet he succumbed on the 6th of the month following at the St. Anthony Hospital, where he had been taken for treatment. He leaves a dependent wife.

March 9th, N. E. Livingston, age 48 years, cager, American, was fatally injured by a descending cage in the Vandalia No. About 2:45 o'clock p. m. one of the sills forming the cage seat had become disarranged, and Livingston was at work trying to move it in place, when the cage, which at that time was held stationary up in the shaft, was lowered down on him, crushing him, inflicting injuries from which he died on the 13th following. There seems to have been a misunderstanding on the part of deceased and the engineer, as the latter contends that he did not receive a signal from the bottom to hold the cage stationary in the shaft, but that he did receive a signal from the top to stop the cage on which a loaded car was being hoisted; this apparently was due to some changes necessary to be made in the tipple, or possibly changing flat cars. After a short delay the engineer received a signal to lower the cage, which he did, with the result above stated. There are two persons deserving of censure connected with this accident. viz.: decedent himself in going under the cage without some one at the bell to prevent the cage from being lowered. Also the mine management is deserving of censure in not giving explicit orders that no one should go into the sump for the purpose of making repairs, without some one to watch the cages and bells. Deceased leaves a dependent wife and five children.

March 14th, Jacob Hayworth, age 37 years, miner, American, single, was instantly killed by falling roof in the Superior Mine, Sullivan County. There were no eye witnesses to this accident, and the first knowledge of his death was when a searching party found him, at 9 o'clock p. m., lying under a large piece of slate,

dead. On examining his working place we found a shot tamped on a fuse, the end of which was split, his knife and lamp were also laying on the floor just beneath the fuse, indicating that he was in the act of lighting his shot when the rock fell on him.

March 21st, Alvin Roberts, age 24 years, machine helper, American, was instantly killed at the top of the Vandalia No. 5 Mine. Greene County, by being struck with the iron cover of a descending cage. This accident occurred about 6:40 o'clock a. m., at a time when the miners were being lowered into the mine. There were two persons, viz.: the assistant mine boss and one other person in charge of the cage while the miners were descending the shaft, one stationed on each side of the shaft. Their duties were to prevent more than six persons getting on the cage at one time, the maximum number allowed to ride on a cage. Also to bell the cage away when loaded, and in general to look after the safety of persons descending the mine. At the time above mentioned seven men had gotten on the cage, and Roberts, being the seventh and last man to get on, was ordered off by the assistant mine boss, who called to the person on the opposite side of the shaft to hold the cage stationary. This order, however, was misunderstood, and the signal was given the engineer to lower the cage, which he did just as Roberts was in the act of stepping off, the heavy cage bonnet, made of onefourth-inch boiler plate, striking him, driving him against the side of the shaft, crushing his skull and breaking his neck. He leaves a dependent wife and one child. A strict observance on the part of decedent of the state's regulation permitting only six persons to ride in a cage at one time, would have prevented this accident.

On March 27th a second fatal accident occurred in the Muren Mine, Pike County, when Elisha Copeland, miner, American, age 31 years, met his death from falling slate. About 8:15 o'clock a. m., decedent was engaged at his usual work at the face of his room, when a piece of slate ten feet in length, four feet wide and nine inches thick, fell on him, killing him instantly. From evidence adduced at the investigation, together with the examination of the deceased's working place, made by Mr. Dodds, who conducted the investigation, it was learned that decedent knew that the slate was loose and dangerous; also that there was a number of props of proper length on hand with which the loose slate could have been secured. Also that the length and breadth of the slate would have permitted a sufficient number of props to be set to have secured it. Deceased leaves a dependent wife and four children.

On March 29th Brownie Morris, age 20 years, driver, American,

was fatally injured by being caught and crushed between a boulder in the roof and the top of a loaded mine car in the Crown Hill No. 2 Mine, Vermillion County. About 12:30 o'clock, noon, Morris was coming out of the mine with a trip of loaded cars, riding on the coupling between the two rear cars. When he had reached a point directly under the boulder, which extended down from the regular roof, and which he had apparently forgotten, he raised up and was caught between the boulder and the top of the rear car, and dragged through a space of nine inches, and crushed, inflicting injuries from which he died eight hours later. He leaves as dependents a wife and one child.

JULY.

Four fatal accidents is the record for this month. of these was that of Charles A. Bledsoe, age 38 years, miner, American, fatally injured by falling slate in the Pennsylvania and Indiana Mine on the 3rd day of the month. The accident was investigated by myself, and from my examination of decedent's working place and evidence adduced, it was learned that he was employed to drive the approach to the manway, which was then being sunk, and was within about 77 feet of the coal. The approach was being driven twelve feet wide, and was within about fortyfive feet of the point where the manway would strike the coal. There were two plys or layers of draw slate overlying the coal in this place, the first one three, and the second one two inches thick, both of which had fallen. There were also two or three props; which I presume had been set, lying under this slate fall. shots had been fired which were badly overcharged, the coal being broken almost into dust and thrown back down the place some thirty-five feet, knocking out the props which had been set. These shots were fired on the evening of June 30th, and Bledsoe did not return to work until the morning of July 3rd, about 7:30 o'clock on this date. On entering the mine he found an empty car standing in the mouth of his place, which he pushed to where the coal was thrown out on the road. He had gone round the car to examine his place, taking his sledge with him, it is presumed, to reset his props. While making this examination the draw slate gave way and fell on him. He was so injured that he died at 8:30 o'clock p. m., of the same date. He leaves a dependent wife and four children.

July 10th Al Ralston, age 55 years, loader, American, was killed by falling slate in the Dering No. 14 Mine, Sullivan County. At 3:30 o'clock p. m., firing time, of above date, decedent had three shots prepared ready to fire in his room, which had been undercut with an electric chain mining machine. He had fired the center and one of the rib shots, and was returning to fire the remaining rib shot when a large piece of slate fell on him, breaking his neck and crushing him. He was killed instantly. On examining his working place the closest timber was found 17 feet back from the face. There were 33 loose props of proper length with which the place could have been made safe, and had a few of these been set this accident would have been prevented. Deceased leaves a dependent wife and five children.

July 11th, Henry Blacketer, age 58 years, loader, American, was fatally injured by falling slate in the Mecca No. 3 Mine, Park County. About 8:40 o'clock a. m., deceased was engaged in loading a car of coal, when a piece of slate 6 feet long, 4 feet wide, ranging from 4 to 6 inches thick, fell on him, injuring him so that he died about half an hour later. An examination of his working place showed it to be well timbered to within 12 feet of the face, but the roof inside that point was very loose, and evidence adduced at the investigation showed that deceased had knowledge of the fact. Also there were a number of loose props on hand with which the place could have been timbered securely. Deceased leaves a wife and four children.

July 28th, Theodore Rogers, age 35 years, machine runner, American, was killed by falling slate in the Sunflower Mine, Sullivan County. About 8:30 o'clock a.m., decedent was making an undercut with an electric chain machine. He had partially finished the cut and was sitting on the right side of the frame of the machine, when a fall of slate 18 feet long, 12 feet wide, varying from 1 to 6 inches thick, gave way and a portion of it fell on him, crushing him down on the machine frame, killing him instantly. His helper was also seriously injured. The machine helper testified that he had examined the slate, and knew it was loose, but thought they could finish undercutting the room in safety. Decedent leaves a wife and one child.

AUGUST.

Three fatal accidents occurred during this month. The first one on the 6th inst., when Edgar Allen, age 25 years, pumper, American, was killed by a gas explosion in the Semi Block Mine, Sullivan County. This mine had been closed down since December, 1905, and with the exception of an occasional visit from the Lattas

Creek mine superintendent, there were but two persons employed, viz.: Allen to do the pumping and Joseph Hagg, engineer, to keep up steam, run the fan and hoist and lower Allen into and out of the mine. It usually required but from two to three hours to do the pumping. However, owing to the fact that the mine generated fire damp, orders were given that the fan be run constantly during the day. It was supposed that by doing this, and by running it a couple of hours in the morning before Allen commenced pumping, the mine could be kept safe from fire damp. The last pumping done prior to the date of the accident was at noon, Saturday, the 4th. The engineer testified that he had started the fan at 6:45 o'clock a. m., on Monday morning of the 6th, and that Allen had gone down into the mine at 9 o'clock, the explosion occurring about 30 minutes later. There was no one present at the mine at the time of the accident, except the engineer, who telephoned the Lattas Creek Mine, some two and one-half miles distant, The mine superintendant and assistant mine boss of that mine started for the scene of the accident at once, arriving at the mine about 10:30 o'clock. On going down into the mine they found Allen lying on the main east entry about 171 feet from the shaft bottom, dead, almost every bone in his body being broken, showing that an explosion of unusual violence had taken place. As evidence of this fact, every door on the side of the mine where the explosion occurred, was blown out, as also brattices, timbers, etc. An investigation of the accident was made by myself, and an examination of the mine made on the 8th inst., after the doors and brattices had been replaced and the ventilating current established, disclosed the fact that a considerable quantity of gas was being given off at three different points on the east side of the mine, viz.: the first and second northeast cross entries, the main east entry and air course, and the fifth room in the second southeast cross entry. The quantity of gas standing in the latter place was small, yet there was a sufficient quantity standing in either the north or east entries to have caused a heavy explosion. In the first north entry the gas was found one foot thick thirty feet from the face; on the second north 18 inches thick 40 feet from the face, and in the main east entry and air course, 18 inches from the roof, some 60 feet from the faces. Inasmuch as he knew that fire damp was being given off in various quantities in different places in the mine, the general mine superintendent, Mr. Thomas Hyatt, is deserving of the severest criticism in permitting Allen to perform the duties as above described, without any safeguard what-

ever. He knew that Allen was an inexperienced miner: that he had never worked in a mine prior to the time he commenced pumping: that he had no knowledge of fire damp, where to look for it. the dangers, etc., and that there was no safety lamp provided him with which to examine the mine for gas, had he been competent to do so. None but a competent miner, thoroughly conversant with the characteristics and dangers of fire damp, should have been employed to do the work for which Allen was employed. I think also that the engineer and decedent himself contributed in no small measure to the accident, as they both knew of the presence of fire damp in the mine, and that the fan had been idle for at least 40 hours. This, together with the fact that previous to this time the fan had only been run during working hours. and that I presume only for six days in the week, thus allowing gas to accumulate in places that were driven ahead of the air, and in high places over falls, etc. Common sense should have taugh! them that the fan should have been run at least 8 to 10 hours before anyone should be permitted to enter the mine. Decedent leaves a wife and one child.

August 8th, Robert Robison, age 55 years, miner, American, was fatally injured by falling slate in the Kettle Creek Mine, Sullivan County. About two o'clock p. m., deceased was at work at the face of his working place (a room neck) when a piece of slate 4 feet long, 3 feet wide, ranging from 2 to 3 inches thick, fell on him. At the time of the accident he was not thought to be seriously injured, but on being taken to the surface he began vomiting, and on examination the physician discovered his injuries to be internal, from which he died at 10:45 o'clock p. m. of the following day. He leaves a dependent wife and two children.

August 29th, Earl Bridgewater, age 23 years, loader, American, was fatally injured by falling slate in the Forest Mine, Vigo County. Decedent was engaged in loading coal out of a room, which had been undercut with an electric chain mining machine. On the evening of the 28th he had shot his place, but failed to bring the coal down, and about 10:30 o'clock of the following day he was working off this loose coal when a piece of draw slate 10x11 feet, 8½ inches thick, fell on him, injuring him so badly he died an hour and a half later. He leaves a wife and one child.

OCTOBER.

Five fatal accidents were recorded during this month. On the 3rd inst., Frank Grover, age 41 years, flat timer, American, was fatally injured by being run over by a railroad flat car at the Superior (road) Mine, Sullivan County. About 9:30 o'clock a. m. deceased was dropping a loaded car down from the tipple; he was riding on the front end of the car, and after it had droppe'd down the proper distance, he attempted to apply the brake, using a short stick to assist in setting it, when either the brake chain or the stick slipped, causing him to fall to the track in front of the moving car, which ran over his left leg, almost severing it at the thigh, from the body, inflicting injuries from which he died a short time later. He leaves a dependent wife and four children.

October 3rd, a second fatal accident occurred about 10 o'clock of this date, when Joseph Lightfoot, age 25 years, loader, was killed by falling slate in the Jackson Hill No. 4 Mine, Sullivan County. At the time of his accident he and his partner (Robert Johnson) were pushing a car into their room, when a large piece of slate fell on him, crushing his head and injuring him otherwise. He died half an hour later. He leaves a wife and one child.

October 15th, Francis Dispensut, age 32 years, miner, American, was killed by falling slate in the Ray No. 3 Mine, Vigo County. About 8:45 o'clock p. m. deceased was at work in the face of his room, mining in the coal, when a piece of draw slate 17½ feet long, 5 feet wide, 5 inches thick, suddenly gave way, falling on and killing him instantly. His room was well timbered to within 6 or 7 feet of the face, but no props had been set under the draw slate, although there was a sufficient number of available props to have done so. He leaves a dependent wife and two children.

October 18th, Oscar Deckard, age 27 years, loader, American, was fatally injured by falling slate in the Summit No. 2 Mine, Greene County. Decedent was engaged loading coal out of a room which had been undercut with an electric chain mining machine. He had shot his place down some time prior to the date of accident, and a piece of draw slate some 3 inches thick, which came down with the shot, was resting on the coal. About 1:30 o'clock p. m. he was working out some of the loose coal from under this slate, when a large piece of it slid off of the shot, catching him in a stooping position, knocking him down and falling on him. At the time he was not thought to be seriously injured, but on removing him to his home it was learned that his injuries were internal. He

succumbed at 5 o'clock p. m. of the same date. He leaves a wife and one child.

October 30th, Thomas Farrell, age 35 years, shot firer, Irish, was fatally injured by a shot blowing through a pillar in the Oswald Mine, Gibson County. Farrell and one other person, Dud Downer, was employed to do the shot firing in this mine, and on the evening of above date were at their usual work. About 9:30 o'clock they had lighted a shot in room 18 and passed around into room 17 for the purpose of firing the shots in that room. shot in room 18 was behind a chance parallel with the face of the room, and was drilled a short distance into the pillar. Just opposite the point of this drill hole, the pillar in room 17 had been gouged out, reducing its thickness some 2 or 3 feet; number 18 was also over the average width at this point. Taking the extra width in both rooms, the pillar would have been thined at least 6 feet, leaving it very thin at the point of the drill hole. Just as the two shot firers got opposite where the shot was placed in room 18, it exploded, blowing through the pillar pieces of coal, striking Farrell and injuring him so badly that he died at 5 o'clock a. m. the following day. Downer was also seriously injured. Decedent leaves a dependent wife.

NOVEMBER.

Two fatalities is the record for this month.

On the 8th day of the month John Lewis, age 68 years, miner, Norwegian, was killed by falling slate in the Vandalia No. 60 Mine, Clay County. There were no eye witnesses to this accident, and decedent was not found for some time after the accident. driver went into the room to pull his car, and found Lewis lying under a large piece of slate, dead. From evidence adduced at this investigation it was learned that when last seen alive (about 8:10 o'clock a.m.) Lewis was loading a car of coal. It was also learned that he was usually a very careful miner, keeping his props within 7 to 10 feet of his working face, but that on the evening previous to the accident he had fired two shots, both of which were somewhat overcharged, throwing the coal back some 20 feet from the face, and knocking out 8 or 10 of the props. On going into his room on. the following morning, instead of resetting his props at once, he, as is characteristic of the average miner, undertook to load a car of coal first, and while so engaged a large piece of slate 15x16 feet, 21/2 inches thick, gave way, falling on and killing him instantly. He leaves a dependent wife.

November 19th, H. L. Gillham, age 55 years, blacksmith, American, was killed by falling down the Vandalia No. 10 shaft, Sullivan County. About 8 o'clock a. m. the keepers on one of the cages had become disarranged, and Gillham and one other person were at work repairing them. The cage had been hoisted a few feet above the ground landing and a skeleton platform laid across the shaft. Gillham was on the cage floor working at the keepers, and the other person was beneath the cage at work on the weights which throw the keeper. The exact cause of decedent's fall could not be learned, and the party (H. L. Davis) working beneath the cage just caught a glimpse of him as he went down the shaft, and he heard no outcry or struggle of any kind. Deceased fell to the bottom of the shaft some 300 feet, and when found was dead. He leaves a wife and six children.

DECEMBER.

Three fatal accidents are recorded for this month, the first of which occurred at the Superior (Road Mine), Sullivan County. On the 4th day of the month Frank Dean, age 22 years, miner, American, was killed by falling slate somewhere between the hours of 7 and 10 o'clock a.m. There were no eye witnesses to this accident, and the first known of his accident was when the driver went into his room to pull his car of coal and found him lying under the slate. On examining his working place it was learned that at the time of his accident he was mining off a loose shot mining in the top of the coal seam, when a large V-shaped stone of roll formation 9 feet long and 2 feet wide on the bottom, averaging 18 inches thick in center, suddenly gave way, falling on him and killing him instantly. He leaves a wife and one child.

On December 5th, about nine minutes after three o'clock p. m., a terrific smoke explosion occurred in the Vandalia No. 67 Mine, Vigo County, resulting in the fatal injury of Moriah Geisak, miner, age 30 years, single, who died on the 7th day of the month following from burns and other injuries received. Also the serious injury of 17 other persons. Considering the number of persons injured and the fact that one death resulted, this is probably the most serious mine accident occurring during the year 1906, and was due to what should be termed criminal negligence on the part of Oliver Lewis. A fellow miner, by the name of David Morgan, contributed in no small measure to the accident. Proof of the above contention is hereinafter set forth. An examination of the

affected part of the mine was made on the day following the explosion by Assistant Inspector Thomas, the Mine Committee, Mine Boss, myself and others, at which time the seat of trouble was located in the face of the ninth northwest cross entry, the working place of David Morgan, and room neck No. 4, the working place of Oliver Lewis, located on the same entry. Before commencing our inspection it was the general opinion of those conversant with the situation that the explosion was due to a heavy charge of dynamite which had been fired, in a fault in the face of the tenth northwest cross entry. An examinaton of this place, however, disproves this theory entirely, as the explosive had done the work intended, throwing the material out in good shape, and there was absolutely no evidence whatever of an explosion having taken place on that entry. In the face of the ninth northwest we found a shot which had been drilled past the cutting or loose end 2 feet and The hole was drilled somewhere near the center of the place, and had apparently been what miners term, a cutting shot. All of the cutting had been blown out, the coal being ground almost into dust, some of it being thrown back down the entry 50 feet, and 2 feet and 4 inches of hole remaining had seamed flat ways. This shot undoubtedly created a large volume of powder smoke at an intense heat. Room neck No. 4 was driven in 15 feet, is 8 feet wide, and the face perfectly straight, with no cutting or chance whatever. On examining this place we found the drill holes of three shots which had been fired. The mouth of one of the holes was 3 feet from the south rib, and the hole was drilled 4 feet 6 inches deep, with a slight angle toward the rib. Two of the holes were located as near the north rib as they could be drilled, one near the bottom was drilled 2 feet and 2 inches deep, and one directly over it near the roof drilled 3 feet and 2 inches deep. Several very heavy shots were also fired in the three rooms outside of room No. 4 and while none of the latter seemed to have been misplacd yet the coal in each was all thrown out, and in some instances broken very fine, evidence that at least a number of them had been considerably overcharged, all of which intensified the heat and increased the volume of powder smoke. From the evidence adduced at the investigation of this accident it was learned that from two to four shots are fired each evening in each working place in this mine, also that shot firing is commenced at a given point, each miner lighting his shots in rotation one after the other, as long as there were any to light, without waiting for those lighted beyond him to explode. This same practice was followed on the evening of

the explosion, and the result obtained from the three misplaced shots in room No. 4 on the ninth northwest was only what could have been expected, viz.: each one of them seamed resulting in blown out shots. The entry shot in this instance, in all probability, exploded first, and as the ninth entry acts as a return air way, the dense body of heated powder smoke created by it was driven down past room No. 4 about the time the first shot exploded in that place; this shot blowing out, very likely ignited gases contained in the smoke, the flame of which was carried on down to that made by the shots fired in the three rooms outside of No. 4, and the two remaining shots in No. 4, each of them seaming and blowing out, thus prolonging the explosion and causing it to travel down and out of the ninth north to a door on the main west, between the seventh and eighth north cross entries. This door was blown out and was the means of checking and dividing the course of the flame and force of the explosion, a portion of which passed out over the double parting just outside the door, and a portion travelling up the eighth north a distance of some 20 feet. Owing to the fact that shooting began somewhat early in the evening of the accident, a number of persons had fired their shots and had reached these two points, viz.: the mouth of the eighth north and the double parting on their way out of the mine. This is where the greater number of persons were injured. Several witnesses testified that they believed that coal dust affected this explosion, yet none of them could explain why, nor state what evidence they found on examination of its having done so. In this connection, I, myself, as did the Assistant General Mine Superintendent, Assistant Inspector Thomas and Mr. James Marsh, one of the Mine Committee, a gentleman thoroughly conversant with such work, being a graduate of the Scranton School of Mines, each of us made a careful examination for signs of coal dust having had any part in the explosion, beginning at a point outside where its force was expended, following in to the place of the ninth north, but we could find not the slightest evidence of its having done so. While it is true there was considerable quantity of dust on the roadway, the entire course over which the explosion traveled, it is mainly composed of fire clay, cut up from the floor by the mules and travel of persons to and from their work, and is non-combustible. We have evidence of this by reason of the fact that the force of the explosion was expended at a point on the eighth north, where the layer of dust on the floor is thicker, finer and dryer than in any other part of the mine where the explosion occurred. In my

opinion the explosion was due absolutely to powder smoke, caused by the misplaced overcharge and blown out shots, which were located in room No. 4 on the ninth northwest, and the face of that entry.

On December 29th, Joe Roskeyoskie, age 32 years, machine runner, single, was killed by falling slate in the Phoenix No. 4 Mine, Sullivan County. At the time of the accident, 10:20 o'clock a.m., he was engaged in cutting a break through at the face of the third southeast cross entry, with an electric chain mining machine. had made one undercut, had set his machine and started it on the second one, and while the machine was making this cut he stepped back from the face some 13 feet to get an oil can, when a large piece of rock 8 feet long and 31/2 feet wide and 10 inches thick, suddenly gave way, falling on and killing him instantly. entry was timbered with cross bars to within 20 feet of the face, and the roof inside that point, which was very loose, was timbered with props, pending such a time as the day man could put up cross bars. Decedent was aware of the fact that the slate was loose. yet on going into the place with his machine he found that it could be set more easily by knocking out one of the props, which he did, remarking at the time he would take a chance anyhow. This act of carelessness no doubt cost him his life.

TABLE OF FATAL ACCIDENTS

Exhibiting the Date on which each Fatality Occurred, the Names and Addresses of Persons Killed, the Number of Dependents and Cause of Accident.

Date.	Name.	Occupation.	Residence.	Married.	Widows.	Children.	Single.	Total Depend- ents.	Cause of Accident.
Jan. 12 Jan. 27 Jan. 29 Feb. 9 Feb. 9 March 1 March 2 March 9 March 14 March 21 March 14 March 21 July 31 July 11 July 28 Aug. 6 Aug. 8 Aug. 8 Aug. 8 Oct. 3 Oct. 15 Oct. 18 Oct. 18 Nov. 19 Dec. 4 Dec. 29	Jerry Richardson. Elmer Turpin. Chas. Robins. Fred Waldon. Silvio Andretta John Morush. Selth Hayden. Enoch James. Balis Yandell. N. E. Livingston. Jacob Hayworth. Alvin Roberts. Elisha Coopeland. B. Morris. Jas. Bledsoe A. Batson. Henry Blocketer. Theodore Rogers. Edgar Allen. Robert Robinson. Earl Bridgewater. Frank Grover. Joseph Lightfoot. Francis Dispenett. Ooscar Deckard. Thos. Farrel. John Lewis. H. L. Gillham Frank Dean. M. Geicak. Joe Raskegaskie.	Driver Loader Shot firer. Shot firer. Miner Miner Loader. Cager Miner Machine helper. Miner Loader, Cader. Loader. Loader. Loader. Loader. Loader. Loader. Loader. Loader. Loader. Miner Loader. Miner Loader. Shot firer. Miner Loader. Miner Loader. Miner Loader. Miner Loader. Miner Loader. Miner Loader. Miner Loader Miner Loader Miner Loader Miner Loader Shot firer. Miner Miner Blacksmith Miner	Sullivan. Atlas. Forrest Park. Gilmour. Clinton. Clinton. Carbon. Brazil. Shelburn Atlas. Shelburn Linton. Midland. Farmersburg. Mecca. Dugger. Semi Block. Shelburn Forrest. Rood Station Jackson Hill. Brazil. Linton. Brazil. Superior. Farmersburg.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 1 4 1 1 4 5 5 4 4 1 1 2 1 4 1 2 1	1	1 6 25 55 6 55 22 33 22 55 22 32 21 17 22	Falling slate, Run over by mine car. Falling slate, Run over by mine car. Windy shot. Windy shot. Windy shot. Falling slate, Falling slate, Falling slate, Cage bonnet, Falling slate, Cage bonnet, Falling slate, Crushed between mine car and roof. Falling slate,

TABLE

Exhibiting the Number of Fatal and Serious Accidents Occurring from Use of Explosives in Indiana Coal Mines During the Years 1900 to 1906, Inclusive.

YEAR.	19	1900.		1901.		1902.		1903.		1904.		1905.		1906.	
Cause of Accident.	F.	s.	F.	s.	F.	s.	F.	s.	F.	s.	F.	s.	F.	s.	
Premature shots	1 1 	3 2	3			6 7 2 4 2	3 4 4 5 2 1	10 2 1 7 5 1	1 3 5	2 5 3 5 2	1 3 2 2 9 1	2 6 2 7	1 2 1	12 5 2 4	
Total	3	6	4	21	7	21	19	26	8	20	18	17	4	26	

Note.—The use of fuse in shot firing became general in the mines of this State during 1902 and 1903, and at present time at least 98% of shots are fired by this method.

TABLE

Exhibiting the Number of Deaths, also Serious Accidents, Due to Explosions of Various Kinds During the Years 1900 to 1906, Inclusive.

YEAR.	19	900.	1901.		1902.		1903.		1904.		1905.		1906.	
Nature of Explosion.	F.	s.	F.	s.	F.	s.	F.	s.	F.	S.	F.	s.	F.	s.
Fire dampPowder smoke				2 5	3	2 6	1 3	iö	i		1	9	1	
Gas, dust, smoke, combined. Explosion of powder		··i·		5 7		····· 4	4 2	····· 5	3	5 2	3	2 7	2	

TABLE

Comparative Table of Fatalities Covering a Period of Ten Years, from 1897 to 1906 Inclusive, Exhibiting the Number of Fatalities Occurring Each Year and the Different Causes, and the Number of Tons of Coal Mined Each Year.

YEAR.	R. Deaths Due to Use of Powder. Other Causes.						Coal.										
1897. 1898. 1899. 1900. 1901. 1902. 1903. 1904. 1905. 1906.	1 1 1 2 4 5 2	1 1 3 2 5		1	2 	2 7 3 3 1 1	2 4 3 3		1 1		9 14 8 11 10 11 17 13 18	2 1 20	1 2 2 4 4 5 4 2	1 2 1 3 3 5 6 3 3	1 1 1 2 3	1 1	4, 228, 085 5, 027, 044 5, 864, 975 6, 283, 063 7, 019, 203 8, 763, 197 9, 992, 553 9, 872, 404 10, 995, 972 11, 422, 027

Nore.—It will be noticed from the above table that since the use of fuse in shot firing and the excessive use of powder has become so prevalent, beginning in 1902 and 1903, accidents not only from this source have become more frequent, but accidents from falling slate have also nearly doubled. This is due to props and other timbers having been knocked down by flying coal when the miner fires his shots of an evening and the fact that instead of resetting these timbers the first thing in the morning, he commences loading out his coal, with the result a slate fall frequently occurs, causing the loss of life or serious injury to the workman.

SERIOUS ACCIDENTS.

The aggregate of one hundred and four accidents shown in the table of causes, includes only those resulting in broken bones, internal injuries, cuts and bruises of a nature serious enough to call for special mention are due to the same causes and conditions as shown in the description of fatal accidents.

Of these serious injuries, twenty-eight were caused by slate falls, the major portion of which occurred at the working faces that were directly in care of the workmen injured. It is safe to say that many of these accidents could have been prevented had ordinary care been used in resetting props knocked out by shots and to the matter of timbering or taking down loose slate.

Falling coal caused eight of these accidents, while those injured were mining off loose shots, and the same lack of precaution is evident as cited above.

Twenty-two drivers were hurt by mine cars and one by a mule kick. Driving is the most hazardous work in or about a mine, therefore this number, compared with those injured in any former year, taking into consideration the increased production of 1906, shows a gratifying decrease in the average of injured drivers.

Nine workmen were injured by shots, two by delayed, four by premature and three by shots blowing through pillars. In the first instance of delayed shots both men had gone back on lighted shots which were tamped on fuse. (Comments are unnecessary.) There is no direct information at hand concerning the premature shots, hence no comments.

Of the three accidents due to shots blowing through pillars, two resulted from gross carelessness and occurred at the same time. Both men were shot firers and had lighted a shot in one room that pointed into the pillar of the room to be fired next. After lighting the shot they passed into this room, stopping directly opposite the charge they had just lighted. The explosion blowed through the pillar and both men were badly hurt by pieces of flying coal.

Twelve men were burned by a smoke explosion following three badly misplaced shots in an eight-foot room neck.

Five men were burned and otherwise injured by explosions of fire damp and five by powder explosions. The remaining fifteen were hurt in various ways, by coal falling down the shaft, mining machines, etc. The following table exhibits in detail the number of serious accidents, the dates, extent and causes of injuries, the names and occupations of those hurt, together with the names of the mines in which the accidents occurred, the companies owning same and the counties in which the properties are located:

TABLE

Serious Accidents.

CLAY COUNTY

DATE.	Name.	OCCUPATION.	Injury.	CAUSE.	Mine.	COMPANY.	DEPENDENTS.
Jan. 2 Jan. 21 Jan. 26 Feb. 13 Feb. 13 Feb. 27 July 11 July — July — July —	Hugh Clements. Jas. Masteller Jas. Besty. Geo. Froshour. Wm. Burkhart Geo. Roebuck. Ed Clark. Grover Craig. John Depew. Thomas Bledsoe. Wm. Bryson.	Miner	Bruised. Back and ankle. Face and hands burned Face and hands burned Face and hands burned Foot mashed Spine fractured Internally Face burned	Shot blowing through pillar. Shot through pillar Shot through pillar Falling coal. Falling rock. Falling rock.	Vandalia No. 64. Vandalia No. 64. Vandalia No. 64. Gold Knob Eureka. Gifford No. 2. Vandalia No. 60.	Vandalia Coal Co. Vandalia Coal Co. Vandalia Coal Co. Jasonville Coal Co. Eureka Block Coal Co. Collins Coal Co. Vandalia Coal Co.	4 1 2

GIBSON COUNTY.

					
Oct. 30 H. Downe	Shot firer	Severely burned	Shot through pillar	Oswald	Princeton Coal & Mining Co.

GREENE COUNTY.

	Ĭ	I					
Jan. 2	J. M. Tennis	Machine runner	Foot crushed	Falling slate	Gilmour	Indiana Southern Coal Co	
Feb.	Walter Irwin	Timberman	Head cut, back injured	Falling slate	Gilmour	Indiana Southern Coal Co	1
	- John W. Cruse	Loader	Back and ribs, foot	Falling slate	Gilmour	Indiana Southern Coal Co	
March 1	John Wolger	Driver	Foot mashed	Mine car	Lattas Creek	Southern Indiana Coal Co	
June 1	Newton Robinson	Jerryman	Leg bruised	Between cars	Lattas Creek	Southern Indiana Coal Co	2
July 19	Evert Pribby	Driver	Body crushed	Between cars	Lattas Creek	Southern Indiana Coal Co	
Aug. 2	L. L. Godberry	Loader	Spine injured	Falling slate	Lattas Creek	Southern Indiana Coal Co	
Aug. 20	Earnest Lynn	Miner	Back injured	Falling slate	Vandalia No. 9	Vandalia Coal Company	4
Nov. 2		Loader	Face and eyes burned	Delayed shot	Green Valley	Green Valley Coal Co	2
Nov. 2		Machine runner	Hip lacerated	Fell on machine	Green Valley	Green Valley Coal Co	1
Sept. 1	Joseph Herd	Driver	Foot broken	Between car and rock	Summitt No. 2	Summitt Coal Co	1
•	1 -	ļ		1	1	}	l

Serious Accidents-Continued.

KNOX COUNTY.

DATE.	Name.	Occupation.	Injury.	CAUSE.	Mine.	Company.	DEPENDENTS.
Feb. 16	Benjamin Scott Ottie Pulliam	Miner	Head injured	Falling slate	Vandalia No. 40	Vandalia Coal Co	2

PARKE COUNTY.

July	31	Richards Henderson	Machine runner	Arm broken	Mining machine	Mary	Otter Creek Coal Company	3
Nov.	11	Chas. Connolev	Miner	Leg broken	Mining machineFalling slate	Parke No. 11	Parke County Coal Co	
Nov.	13	Clifford Adams	Driver	Finger cut off	Mine car	Miami No. 2	Miami Coal Co	
Nov.	26	Joseph Stiff	Machine runner	Arm crushed	Falling slate	Parke No. 11	Parke County Coal Co	
Nov.					Falling slate		Miami Coal Čo	
Nov.	. 6	Geo. Harfold	Driver	Foot badly crushed	Falling slate	Miami No. 2	Miami Coal Co	
		Nick Sanks	Miner		Falling coal	Miami No. 2	Miami Coal Co	
Aug.	14	Walter Gentry	Driver	Shoulder crushed	Between cars	Miami No. 2	Miami Coal Co	
Aug. July	31	Edward Frayer	Driver	Crushed in breast	Between cars	Mecca No. 3	United Coal & Mining Co	
July	27	Frank Green	Miner	Hip and ankle injured	Falling slate	Vandalia No. 317	Vandalia Coal Co	
•							<u>, !</u>	

PIKE COUNTY.

March 10	Hiram Wright	Minor	Two fingers out off	Falling slate	Avrehira No. 4	D. Ingle Coal Co	7
march 10	Tillani Wilgin	Millet	I wo migers cut on	raning state	Ayloune 110. T	D. Highe Coal Co	

SULLIVAN COUNTY

Jan. 22 John Dick Miner John Strown Miner John Strown Miner March 3 March 15 March 16 March 15 March 16 March 17 March 16 March 17 March 16 March 17 March 17 March 17 March 17 March 18 March								
Feb. 21 Thomas Brown. Miner. Back bruised. Falling slate. Shirley Hill. Shirley Hill. Col. Co. 4	7 as l	L r r r r l	14:	ا با	D. 1.1.	1 1 1 1 1	CILL TERM LO	
March 3 John Sutton Fire boss Face and head badly burned Gas explosion Hocking Indiana Southern Coal Co. 7								4
March 3 Robert Lockhart. Miner Face and body burned. Gas explosion. Hocking. Indiana Southern Coal Co. 4					Falling state	Shirley Hill	Shirley Hill Coal Co	4
March 3 Robert Lockhart Jas. Onemans Driver Leg fractured Car and door Jackson Hill Coal Co.	March 3	John Sutton	Fire boss			TT 1.		_
Jas. Onemans Driver Leg fractured Car and door Jackson Hill No. 2 Jackson Hill Coal Co.	35 1 0		70.			Hocking		7
March 14 Isaac Bryant. Miner Leg Droken Falling slate Dering No. 12. Dering Coal Co. 1 March 17 Commodore Parks Driver Collar bone broken Back injured. Gas explosion Shirley Hill Coal Co. April 6 Robert Parks Track layer. Burned. Gas explosion Shelburn D. H. Whitsett Coal Co. April 6 Chas Martin. Miner Burned. Gas explosion Shelburn D. H. Whitsett Coal Co. April 6 Chas Martin. Miner Burned. Gas explosion Shelburn D. H. Whitsett Coal Co. April 6 Chas Martin. Miner Burned. Gas explosion Shelburn D. H. Whitsett Coal Co. April 6 Chas Martin. Miner Burned. Gas explosion Shelburn D. H. Whitsett Coal Co. April 6 Chas Martin. Miner Burned. Gas explosion Shelburn D. H. Whitsett Coal Co. Andrey Masson Miner Head mashed Falling slate. Burker Hill. Indiana Southern Coal Co. Aug. 30 Andrey Masson Miner Back injured. Between cars Mammoth Southern Indiana Coal Co. 3 Aug. 30 James Stone. Miner Back and head injured Engineer lost control of engine Cover Leaf Coal Co. Aug. 30 Charches Schraum Miner Back and head injured Engineer lost control of engine Claver Leaf Coal Co. Aug. 30 Clarence Schraum Miner Back and head injured Engineer lost control of engine Clover Leaf Clover L	March 3					Hocking		4
March 17 Commodore Parks. Driver Collar bone broken. Between car and roof. Shirley Hill. Shirley Hill Coal Co. April 6 Chas. Martin. Miner Burned. Gas explosion. Shelburn. D. H. Whitsett Coal Co. Feb. 21 Thos. Silverwood. Miner. Head mashed. Falling slate. Burned. Gas explosion. Shelburn. D. H. Whitsett Coal Co. Indiana Southern Coal Co. Joseph Booker. Machine runner. Foot cut. Foot caught in machine. Bunker Hill. Dindiana Southern Coal Co. Andrew Mason. Miner. Back injured. Falling slate. Citizens. Indiana Southern Coal Co. Southern Indiana Coal Co. Trank Ralston. Miner. Hip injured. Between cars. Mammoth. Southern Indiana Coal Co. Southern								
March 17 Commodore Parks Driver Collar bone broken Between car and roof Shirley Hill Shirley Hill Coal Co. April 6 Robert Parks Track layer Burned Gas explosion Shelburn D. H. Whitsett Coal Co. April 6 Chas Martin Miner Burned Gas explosion Shelburn D. H. Whitsett Coal Co. D. H. Whit			Miner				Dering Coal Co	1
April 6 Chas. Martin. Miner Burned. Gas explosion Shelburn D. H. Whitsett Coal Co. Southern Indiana Southern Coal Co. Southern Indiana Southern Coal Co. Shelburn D. H. Whitsett Coal Co. Shelburn D.			Driver	Back injured		Little Giant		
April 6 Chas. Martin. Miner. Head mashed Feb. 21 Thos. Silverwood Miner. Head mashed Foot cut. Foot caught in machine. Bunker Hill. Indiana Southern Coal Co. March 15 Joseph Booker. Machine runner Foot cut. Foot caught in machine. Mammoth. Southern Indiana Coal Co. Chas. Godfrey. Driver. Hip injured. Back injured. Back injured. Back injured. Falling slate. Dering No. 14. Dering Coal Co. 3 James Stone. Miner. Back and breast crushed. Aug. 30 John Collins. Miner. Back and head injured. Aug. 30 Glarenee Schraum Miner. Back and head injured. Aug. 30 Clarenee Schraum Miner. Back and head injured. Engineer lost control of engine Clover Leaf. Clover Leaf Coal Co.								
Feb. 21 Thos. Silverwood Miner Head mashed Falling slate. Bunker Hill. Indiana Southern Coal Co. Machine runner Foot cut. Foot caught in machine Mammoth Southern Indiana Coal Co. 5 Joseph Booker Machine runner Back injured. Falling slate. Citizens Indiana Southern Coal Co. 5 July 10 Frank Ralston. Miner Hip crushed Falling slate. Dering No. 14 Dering Coal Co. Norman Davis Driver Anm broken. Falling slate. Dering No. 14 Dering Coal Co. Norman Davis Driver Anm broken. Falling slate. Freeman. Sullivan Country Coal Co. Aug. 30 John Collins. Miner Back and head injured. Engineer lost control of engine Clover Leaf. Clover Leaf Coal Co. Coal Co. Miner Back and head injured. Engineer lost control of engine Clover Leaf. Clover Leaf Coal Co. Coal Coal Coal Coal Coal Coal Coal Coal					Gas explosion		D. H. Whitsett Coal Co	
March 15 Joseph Booker Machine runner Foot cut. Foot caught in machine Citizens Indiana Coal Co. 5						Shelburn		
June 22 Andrew Mason Miner Back injured. Falling slate. Citizens. Indiana Southern Coal Co. 5					Falling slate			
Chas, Godfrey. Driver Hip injured. Between cars Mammoth. Southern Indiana Coal Co. 3 July 10 Frank Ralston. Miner Hip crushed. Falling slate. Dering No. 14. Dering Coal Co. Aug. 30 James Stone. Miner Back and breast crushed. Falling slate. Freeman. Sullivan County Coal Co. Back and head injured. Engineer lost control of engine Clover Leaf. Clover Leaf Coal Co. Clover Leaf. Clov			Machine runner					
Chas, Godfrey. Driver Hip injured. Between cars Mammoth. Southern Indiana Coal Co. 3 July 10 Frank Ralston. Miner Hip crushed. Falling slate. Dering No. 14. Dering Coal Co. Aug. 30 James Stone. Miner Back and breast crushed. Falling slate. Freeman. Sullivan County Coal Co. Back and head injured. Engineer lost control of engine Clover Leaf. Clover Leaf Coal Co. Clover Leaf. Clov	June 22		Miner					
Norman Davis Driver Aim broken Fell off mine car Jackson Hill Coal Co. Aug. 30 James Stone Miner Back and breast crushed. Aug. 30 James Stone Miner Back and head injured Engineer lost control of engine Rang. 30 Bogard Richardson Miner Back and head injured Engineer lost control of engine Rang. 30 Ross Colliss. Miner Back and head injured Engineer lost control of engine Rang. 30 Clarence Schraum Miner Back and head injured Engineer lost control of engine Rang. 30 Clarence Schraum Miner Back and head injured Engineer lost control of engine Clover Leaf. Clove			Driver	Hip injured		Mammoth	Southern Indiana Coal Co	3
Aug. 30 James Stone Miner Back and head injured. Engineer lost control of engine Clover Leaf. Clover Leaf. Colver Leaf. Colver Leaf. Colver Leaf. Clover Leaf. Cl	July 10		Miner				Dering Coal Co	
Aug. 30 John Collins. Miner. Back and head injured. Engineer lost control of engine Clover Leaf. Clover Leaf. Colever Leaf. Cole			Driver				Jackson Hill Coal Co	
Aug. 30 Bogard Richardson Miner Back and head injured Engineer lost control of engine Clover Leaf. Clover Leaf Coal Co. Aug. 30 Clarence Schraum Miner Back and head injured Engineer lost control of engine Clover Leaf. Clover			Miner				Sullivan County Coal Co	
Aug. 30 Bogard Richardson Miner Back and head injured Engineer lost control of engine Clover Leaf. Clover Leaf Coal Co. Aug. 30 Clarence Schraum Miner Back and head injured Engineer lost control of engine Clover Leaf. Clover			Miner					
Aug. 30 Clarence Schraum Miner Back and head injured Engineer lost control of engine Clover Leaf. Clover Leaf Coal Co. Sept. 14 A. Richmond. Miner Body injured Falling slate. Viola Carlisle Clay & Coal Co. Nov. 17 Chas, Cartwright Driver Hip injured. Mine car. Jackson Hill Jackson Hill Jackson Hill Coal Co. Dec. 27 Frank McComb Driver Collar bone broken. Mine car. Jackson Hill Jackson Hill Coal Co. Nov. 6 Earl Chapman Driver Body bruised. Mine car. Jackson Hill Jackson Hill Coal Co. Nov. 6 Earl Chapman Driver Body bruised. Mine cars. St. Clair. Consolidated Indiana Coal Co Millar Early Miner Leg broken. Falling coal. Superior. Superior Coal Co. Superior. Superior Coal Co. Vandalia No. 10 Vandalia No. 10 Vandalia Coal Co. Sept. — Robert Robinson Loader. Leg broken. Falling slate. Kettle Creek Kettle Creek Coal Co. Dec. 14 Oscar Cochran Loader. Back sprained. Falling rock. Dering No. 13. Dering Coal Co. Dev. 14 Wm. Hayworth. Miner. Body burned. Foot crushed. Mine cars. Citizens. Indiana Southern Coal Co. Mug. 10 John Bedwell Driver. Foot crushed. Mine cars. Citizens. Indiana Southern Coal Co. Kicked by mule. Shirley Hill. Coal Co. Shirley Hill Coal Co. Shirley Hill Coal Co. Shirley Hill Coal Co.							Clover Leaf Coal Co	
Aug. 30 F. Burchard. Miner. Back and head injured. Engineer lost control of engine Clover Leaf. Clover Leaf. Co. Miner. Body injured. Falling slate. Viola. Carlisle Clay & Coal Co. Mine car. Mammoth. Southern Indiana Coal Co. Driver If pinjured. Mine car. Mammoth. Southern Indiana Coal Co. Driver Collar bone broken. Mine car. Jackson Hill. Jackson Hill. Coal Co. Driver Collar bone broken. Mine car. Jackson Hill. Jackson Hill. Coal Co. Mine car. Jackson Hill. Jackson Hill. Coal Co. Driver. Body bruised. Mine car. Jackson Hill. Jackson Hill. Coal Co. Driver. Consolidated Indiana Coal Co. Mine car. Jackson Hill. Spackson Hill. Coal Co. Driver. Consolidated Indiana Coal Co. Mine car. Jackson Hill. Coal Co. Driver. Consolidated Indiana Coal Co. Driver. Driver. Body bruised. Mine cars. St. Clair. Consolidated Indiana Coal Co. Driver. Driver. Consolidated Indiana Coal Co. Driver. Driver. Driver. Driver. Free Driver. Falling coal. Superior. Superior Coal Co. Driver. Driver. Free Driver. Falling slate. Kettle Creek. Kettle Creek Coal Co. Driver. Driver. Falling slate. Jackson Hill. Jackson Hill. Coal Co. Driver. Driver. Back sprained. Falling rock. Dering No. 13. Dering Coal Co. Driver. Driver. Foot crushed. Mine cars. Citizens. Indiana Southern Coal Co. Aug. Donn Bedwell Driver. Foot crushed. Mine cars. Citizens. Indiana Southern Coal Co. Driver. Leg crushed. Mine cars. Citizens. Indiana Southern Coal Co. Shriey Hill. Coal Co. Shriey Hill. Coal Co. Shriey Hill. Coal Co. Shriey Hill. Coal Co. Driver. Hill Coal Co. Mine cars. Citizens. Shriey Hill. Coal Co. Shriew Hil							Clover Leaf Coal Co	
Sept. 14 A. Richmond. Miner Body injured. Falling slate. Viola Carlisle Clay & Coal Co. Nov. 17 Chas. Cartwright Driver Hip injured. Mine car. Mammoth. Southern Indiana Coal Co. Dec. 15 Joseph Hixon. Driver. Foot and ankle crushed. Mine car. Jackson Hill. Jackson Hill Coal Co. Dec. 27 Frank McComb. Driver Collar bone broken Mine car. Jackson Hill. Jackson Hill Coal Co. Nov. 6 Earl Chapman. Driver. Body bruised. Mine cars. St. Clair. Consolidated Indiana Coal Co. June — Millard Early Miner Leg broken. Falling coal. Superior. Superior Coal Co. Aug. 22 Thos. Kunup. Fire boss. Body burned. Gas explosion. Vandalia No. 10. Vandalia Coal Co. Sept. — Robert Robisson. Loader. Leg broken. Falling slate. Kettle Creek. Kettle Creek. Coal Co. Oct. 3 Joseph Lightfoot. Loader. Skull fractured. Falling slate. Jackson Hill. Jackson Hill Coal Co. Dec. 14 Oscar Cochran. Loader. Back sprained. Falling rock. Dering No. 13. Dering Coal Co. Nov. 12 Wm. Hayworth. Miner. Body burned. Powder explosion. Hocking. Indiana Southern Coal Co. Aug. 10 John Bedwell. Driver. Foot crushed. Mine cars. Citizens. Indiana Southern Coal Co. Aug. 17 Joseph Watts. Driver.			Miner				Clover Leaf Coal Co	
Nov. 17 Chas, Cartwright. Driver Hip injured. Mine car. Mammoth. Southern Indiana Coal Co. Dec. 15 Joseph Hixon. Driver Foot and ankle crushed. Mine car. Jackson Hill. Jackson Hill Coal Co. Dec. 27 Frank McComb. Driver Collar bone broken. Mine car. Jackson Hill. Jackson Hill Coal Co. Nov. 6 Earl Chapman. Driver. Body bruised. Mine cars. St. Clair. Consolidated Indiana Coal Co. Millard Early Miner Leg broken. Falling coal. Superior. Superior Coal Co. Aug. 22 Thos. Kunup. Fire boss. Body burned. Gas explosion. Vandalia No. 10. Vandalia Coal Co. Sept. — Robert Robinson. Loader. Leg broken. Falling slate. Kettle Creek. Kettle Creek Coal Co. Oct. 3 Joseph Lightfoot. Loader. Skull fractured Falling slate. Jackson Hill. Jackson Hill Coal Co. Dec. 14 Oscar Cochran. Loader. Back sprained. Falling rock. Dering No. 13. Dering Coal Co. Nov. 12 Wm. Hayworth. Miner. Body burned. Powder explosion. Hocking. Indiana Southern Coal Co. Aug. 10 John Bedwell. Driver. Foot crushed. Mine cars. Citizens. Indiana Southern Coal Co. Aug. 17 Joseph Watts. Driver. Leg crushed. Mine cars. Hocking. Indiana Southern Coal Co. Kieked by mule. Shirley Hill. Coal Co.			Miner					
Nov. 17 Chas, Cartwright. Driver Hip injured. Mine car. Mammoth. Southern Indiana Coal Co. Dec. 15 Joseph Hixon. Driver Foot and ankle crushed. Mine car. Jackson Hill. Jackson Hill Coal Co. Dec. 27 Frank McComb. Driver Collar bone broken. Mine car. Jackson Hill. Jackson Hill Coal Co. Nov. 6 Earl Chapman. Driver. Body bruised. Mine cars. St. Clair. Consolidated Indiana Coal Co. Millard Early Miner Leg broken. Falling coal. Superior. Superior Coal Co. Aug. 22 Thos. Kunup. Fire boss. Body burned. Gas explosion. Vandalia No. 10. Vandalia Coal Co. Sept. — Robert Robinson. Loader. Leg broken. Falling slate. Kettle Creek. Kettle Creek Coal Co. Oct. 3 Joseph Lightfoot. Loader. Skull fractured Falling slate. Jackson Hill. Jackson Hill Coal Co. Dec. 14 Oscar Cochran. Loader. Back sprained. Falling rock. Dering No. 13. Dering Coal Co. Nov. 12 Wm. Hayworth. Miner. Body burned. Powder explosion. Hocking. Indiana Southern Coal Co. Aug. 10 John Bedwell. Driver. Foot crushed. Mine cars. Citizens. Indiana Southern Coal Co. Aug. 17 Joseph Watts. Driver. Leg crushed. Mine cars. Hocking. Indiana Southern Coal Co. Kieked by mule. Shirley Hill. Coal Co.					Falling slate	Viola	Carlisle Clay & Coal Co	
Dec. 27 Frank McComb Driver Collar bone broken Mine car Jackson Hill Jackson Hill Coal Co.				Hip injured		Mammoth		
Nov. 6 Earl Chapman Driver Body bruised. Mine cars. St. Clair Consolidated Indiana Coal Co June — Millard Early Miner Leg broken Falling coal Superior. Superior Coal Co. Aug. 22 Thos. Kunup Fire boss Body burned. Gas explosion Vandalia No. 10. Vandalia Coal Co. Sept. — Robert Robinson Loader Leg broken Falling slate. Kettle Creek Kettle Creek Coal Co. Oct. 3 Joseph Lightfoot Loader Skull fractured Falling slate. Jackson Hill Jackson Hill Jackson Hill Goal Co. Dec. 14 Oscar Cochran Loader Back sprained Falling rock. Dering No. 13 Dering Coal Co. Nov. 12 Wm. Hayworth Miner Body burned. Powder explosion Hocking. Indiana Southern Coal Co. Aug. 10 John Bedwell Driver. Foot crushed Mine cars. Citizens. Indiana Southern Coal Co. Aug. — John Thomas. Driver. Leg crushed Mine cars. Hocking. Indiana Southern Coal Co. Kicked by mule Shirley Hill. Shirley Hill. Shirley Hill. Coal Co.								
June Millard Early Miner Leg broken Falling coal. Superior. Superior. Superior Coal Co. Aug. 22 Thos, Kunup Fire boss Body burned. Gas explosion Vandalla No. 10. Vandalla Coal Co. Robert Robinson Loader Leg broken Falling slate. Kettle Creek. Kettle								
Aug. 22 Thos. Kunup Fire boss Body burned. Gas explosion Vandalia No. 10. Vandalia Coal Co. Sept. — Robert Robinson Loader. Leg broken. Falling slate. Kettle Creek. Kettle Creek Coal Co. Oct. 3 Joseph Lightfoot Loader. Skull fractured Falling slate. Jackson Hill. Jackson Hill Coal Co. Dec. 14 Oscar Cochran Loader. Back sprained. Falling rock. Dering No. 13. Dering Coal Co. Nov. 12 Wm. Hayworth. Miner. Body burned. Powder explosion. Hocking. Indiana Southern Coal Co. Aug. 10 John Bedwell Driver. Foot crushed. Mine cars. Citizens. Indiana Southern Coal Co. Aug. 17 Joseph Lightfoot. Mine cars. Hocking. Indiana Southern Coal Co. Aug. 17 Joseph Carrier of the carr	Nov. 6	Earl Chapman	Driver	Body bruised				
Sept. — Robert Robinson Loader Leg broken Falling slate Kettle Creek Kettle Creek Coal Co.						Superior	Superior Coal Co	
Oct. 3 Joseph Lightfoot Loader. Skull fractured Falling slate. Jackson Hill. Jackson Hill. Jackson Hill Coal Co. Dec. 14 Oscar Cochran. Loader. Back sprained. Falling rock. Dering No. 13. Dering Coal Co. Nov. 12 Wm. Hayworth. Miner. Body burned. Powder explosion. Hocking. Indiana Southern Coal Co. Aug. 10 John Bedwell. Driver. Foot crushed. Mine cars. Citizens. Indiana Southern Coal Co. Aug. 17 Joseph Watts. Driver. Leg crushed. Mine cars. Hocking. Indiana Southern Coal Co. Kicked by mule. Shirley Hill. Shirley Hill. Shirley Hill. Shirley Hill.						Vandalia No. 10	Vandalia Coal Co	
Dec. 14 Oscar Cochran Loader. Back sprained. Falling rock. Dering No. 13. Dering Coal Co. Nov. 12 Wm. Hayworth. Miner. Body burned. Powder explosion. Hocking. Indiana Southern Coal Co. Aug. 10 John Bedwell Driver. Foot crushed. Mine cars. Citizens. Indiana Southern Coal Co. Aug. John Thomas. Driver. Leg crushed. Mine cars. Hocking. Indiana Southern Coal Co. Kicked by mule. Shirley Hill. Shirley Hill. Shirley Hill. Shirley Hill.								
Nov. 12 Wm. Hayworth Miner Body burned Powder explosion Hocking. Indiana Southern Coal Co Aug. 10 John Bedwell Driver Foot crushed Mine cars. Citizens. Indiana Southern Coal Co John Thomas Driver Leg crushed Mine cars. Hocking. Indiana Southern Coal Co Aug. 17 Joseph Watts. Driver Kicked by mule Shirley Hill Coal Co					Falling slate			
Aug. 10 John Bedwell Driver. Foot crushed. Mine cars. Citizens. Indiana Southern Coal Co Aug. — John Thomas Driver. Leg crushed. Mine cars. Hocking Indiana Southern Coal Co Aug. 17 Joseph Watts. Driver. Kicked by mule. Shirley Hill. Shirley Hill. Shirley Hill.								
Aug. 17 Joseph Watts Driver. Leg crushed Mine cars. Hocking. Indiana Southern Coal Co Shirley Hill. Shirley Hill. Shirley Hill. Shirley Hill.						Hocking		
Aug. 17 Joseph Watts Driver. Leg crushed Mine cars. Hocking. Indiana Southern Coal Co Shirley Hill. Shirley Hill. Shirley Hill. Shirley Hill.	Aug. 10					Citizens		
Aug. 17 Joseph Watts Driver Kicked by mule Shirley Hill Coal Co				Leg crushed		Hocking		
July 31 O. Meade. Driver Mine cars. Indiana Southern Coal Co			Driver			Shirley Hill		
		O. Meade.	Driver			Phœnix	Indiana Southern Coal Co	ı
]			l '	I	1	

Serious Accidents—Continued. VIGO COUNTY.

DAT	E.	Name.	OCCUPATION.	Injury.	CAUSE.	Mine.	COMPANY.	DEPENDENTS
Jan. Feb. Feb. June May May May May May May Mov. Nov. Nov. Nov. Aug. Dec. Dec. Dec. Dec. Dec. Dec. Dec. Dec	9 21 15 24 4 4 25 2 20 28 15 21 29 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Henry Lee. James Bardnett Lawrence Kane. Edward Lindsley William Reef. Theodore Haskins. Andrew Ridsavage. Charles Ruggie. Scott Montgomery. Major Gordon. Willard King James Elder. John Gordon. Chas Walker Wm. Brennan. E. Bridgewater. David Morgan. William Yomen. Riley Rinehard. Samuel James. Lewis James. Edward Harveycamp. A. Lawson. Carl Harveycamp. George Ambright. Lewis Bmith. Elsie Danhour. William Travis Thomas Nealy. Elmer Tirnay. Joseph Kowande.	Dumper. Miner. Miner Machine runner. Machine runner. Miner. Miner. Miner. Miner. Miner. Pumper. Timberman. Miner. Loader. Loader. Loader. Miner.	Hip bruised. Hips and legs injured Knee dislocated Hand crushed. Leg crushed. Head and body lnjured. Face and body burned Face and legs injured. Back injured. Foot injured. Foot injured. Foot amputated. Leg amputated. Arm broken Arm injured Leg broken Badly burned	Stairway fell. Falling slate Falling slate Mining machine. Mining machine. Ascending cage. Powder explosion. Fowder explosion. Falling slate Falling slate Falling slate Stepped on nail. Between mine cars. Between mine cars. Mine cars. Dynamite cap. Falling slate. Smoke explosion.	Hector Forrest. Miami No. 2 Domestic Block Atherton. Miami No. 2 Ray No. 2 Ray No. 2 Ray No. 2 Miami No. 1 Miami No. 1 Miami No. 68 Miami No. 68 Miami No. 1 Atherton Forrest. Forrest. Forrest. Vandalia No. 67	Indiana Southern Coal Co Indiana Southern Coal Co Miami Coal Company Miami Coal Company Chas. F. Keeler Coal Co Miami Coal Company Chas. F. Keeler Coal Co Miami Coal Co Miami Coal Co Miami Coal Company Chas F. Keeler Coal Co Indiana Southern Coal Co Indiana Southern Coal Co Vandalia Coal Company	3 4
				w	ARRICK COUNTY.			
Nov.	14 14	Charles Himan	Miner	Body burnedBody burned	Premature shot	Chandler	Chandler Coal Company Chandler Coal Company	6 6

COMPARATIVE TABLE

Showing Number of Tons of Coal Mined Each Year, the Number of Persons Employed and the Number of Tons of Coal Produced per Each Death from January 1, 1881, to January 1, 1907.

YEAR.	Tons Produced.	Employes.	Fatal Acci- dents.	Tons Produced Per Deat
381	1,771,536	4,567	10	177, 15
382		No report.	10	1,7,10
383		5,403	ii	232, 22
384	2,260,000	5,716	- 9	228,88
385		6,502	7	228, 88 239, 28 228, 5
86		6,406	7	228.5
87	3,217,711	No report.	l .	220,0
88		6,685	17	184.7
89		0,000		202,
90		6,550	5	758.2
91		6,975	5	763,9
92		7,600	19	232,0
93		7,431	22	193, 5
94				
95		7,885	23	182.6
96	4,068,124	7,112	28	170.2
97	4,088,100	7,934	16	262.6
98		No report.	22	233, 9
99		7,366	15	390,9
00	6, 283, 063	8,858	18	349.0
01		10,296	24	292,4
02		13,139	24	365,1
03	9,992,563	15, 128	55	181,6
04	0.000.404	17,838	34	290,3
05	10,995,972	17,856	47	233, 9
06	11,422,027	19.562	31	368,4

ACCIDENTS TO MINE PROPERTY.

Few accidents occurred to mine property during the past year. fires in the interior of mines causing the largest financial losses. Other and smaller losses were occasioned by local fires in surface plants, squeezes in the mines, and various minor accidents. most serious loss occurred at firing time on the afternoon of March 26 in the Clover Leaf Mine in Sullivan County. A gas feeder was lighted from one of the shots fired which in turn ignited the coal. The mine was not examined that evening after the shooting and the fire was not discovered until morning, when it had reached such proportions that it necessitated the closing of that portion of the mine. A loss of \$900.00 was incurred before the fire was extinguished and work resumed in the affected part of the mine. On Saturday evening, January 27, a similar fire to that of the Clover Leaf occurred in the second northeast cross entry in the Phoenix No. 4 Mine, Sullivan County, and as in the foregoing instance was not discovered until the following morning. By this time the fire had gained such headway the smoke and heat made

it impossible to penetrate the mine any distance from the shaft bottom. It was then decided to smother the fire and the main entrance and air course were walled up, excluding the air and completely blocking off that entire side of the mine. After nine days the stoppings were removed, the fire having been extinguished, work was resumed. The financial loss in this instance, estimating the time lost, would probably reach the sum of eight hundred dollars (\$800.00).

The Lost Creek Mine in Vigo County has been at a heavy expense combating a series of squeezes at intervals during the year. Early in January a squeeze set in on the north side of the mine, resulting in the entire loss of the first and second west, third and fourth east and the partial loss of the first and second east. At one time the entire north side of the mine was in danger of being closed. A later squeeze began in the south side of the mine and it was only with much difficulty and labor that several pairs of cross entries were saved. The mine has an extremely hard sandstone roof and a very soft fire clay bottom, conditions that require extra heavy and uniform pillars. Either through ignorance or negligence, however, this necessity had been utterly disregarded by a former mine management, as an examination showed the pillars to range in size anywhere from three to thirty feet in thickness.

About the 15th of March an extremely heavy squeeze started in the main west entry in the Superior Mine in Sullivan County. This was due to the robbing of pillars and the soft fire clay bottom. It extended from the second to the third north cross entries embracing several rooms on each entry and at one time looked as though that entire side of the mine would close. The company succeeded in stopping it after two months of incessant effort, however, and the mine is now producing about 600 tons per diem.

On June 7th the blacksmith shop at the Atherton Mine in Vigo County burned down. The loss was estimated at \$750.00.

A small fire in the boiler room of the Miami Mine last October resulted in the loss of about \$100.00.

MINE DIRECTORY

CLAY COUNTY.

Name of Company.	Address of Company.	Name of Mine.
	Brazil.	Brazil No. 1.
Brazil Block Coal Company	Brazil	Brazil No. 4.
Brazil Block Coal Company	Brazil	Brazil No. 7.
Brazil Block Coal Company	Brazil.	Brazil No. 8.
Brazil Block Coal Company	Brazil.	Continental No. 1
Continental Clay & Mining Co		Rebstock.
Superior Block Coal Co	Brazil Indianapolis, State Life Bldg	Vandalia No. 50.
Vandalia Coal Company	Indianapolis, State Life Bldg	Vandalia No. 60.
Vandalia Coal Company	Indianapolis, State Life Bldg	Vandalia No. 63.
Vandalia Coal Company	Indianapolis, State Life Bldg	Vandalia No. 65.
Vandalia Coal Company	Indianapolis, State Life Bldg	Superior No. 4.
Zellar-McClellan Co	Brazil	Crawford No. 2.
Crawford Coal Company	Brazil	Crawford No. 6.
Crawford Coal Company	Brazil.	Crawford No. 8.
Crawford Coal Company	Brazil	Crawford No. 9.
Crawford Coal Company	Brazil.	Fortner.
Ideal Block Coal Co	Brazil	Gifford No. 1.
Collins Coal Company	Brazil	Gifford No. 2.
Collins Coal Company	Terre Haute	Glenn No. 1.
Coal Bluff Mining Co	Terre Haute	Plymouth No. 2.
Coal Bluff Mining Co	Brazil	Monarch.
American Clay Mfg. Co	Terre Haute	Lewis.
Big Vein Mining Co	Chicago, Ill	Vivian No. 1.
Vivian Mining Company	Chicago, Ill.	Vivian No. 2.
Vivian Mining Company	Brazil.	Progressive.
Progressive Coal Company	Saline City	Lower Vein No. 1.
Indiana Block Coal Co	Jasonville.	Gold Knob.
Jasonville Coal Company	Brazil	World's Fair.
Dan Davis Coal Company	1 \$1777	Island Valley No. 4
United Fourth Vein Coal Co		Harrison No. 4.
Chicago-Indiana Block Coal Co		Eureka No. 5.
Eureka Block Coal Co		Treager.
McLaughlin & Treager		Stunkard.
Stunkard Coal Company	Turner	Klondyke.
C. Ehrlich Coal Company	Turner	11101143 201

DAVIESS COUNTY.

Stucky & Osborn Daviess County Coal Co Mutual Mining Company. Mandabach Bros Overton Coal Company. Winklepeck & Overton	Raglesville Montgomery Cannelburg. Washington. Raglesville. Raglesville.	Stucky. Montgomery No. 3. Mutual. Mandabach. Overton. Winklepeck.
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FOUNTAIN COUNTY.

Rush Coal Company	Cleveland, OhioSilverwood	Indio. Silverwood.

GREENE COUNTY.

Name of Company.	Address of Company,	NAME OF MINE.
United Fourth Vein Coal Company. Vandalia Coal Company. Vandalia Coal Company. Vandalia Coal Company.	Linton. Linton. Linton. Linton. Linton. Linton. Indianapolis, State Life Bldg. Indianapolis, State Life Bldg. Indianapolis, State Life Bldg.	North Linton. Sponsler. Black Creek. Glenburn. Antioch. Vandalia No. 2. Vandalia No. 3. Vandalia No. 4. Vandalia No. 5.
Vandalia Coal Company. Ourthern Indiana Coal Co. Southern Indiana Coal Co.	Indianapolis, State Life Bidg. Chicago, Ill., Old Colony Bidg. Indianapolis, Lemcke Bidg. Bloomfield.	Vandalia No. 6. Vandalia No. 8. Vandalia No. 9. Vandalia No. 21. Hoosier No. 1. Hoosier No. 2. Midland. Tower Hill.
Southern Indiana Coal Co. Southern Indiana Coal Co. Southern Indiana Coal Co. Indiana Southern Coal Co. Vulcan Coal Company. New Summitt Coal Co. Shirley Hill Coal Company. Green Valley Coal Company. Undiana Fairmont Coal Co.	Indianapolis, Terminal Bldg	Lattas Creek, Gilmour. Vulcan. Summitt No. 2. Victoria. Green Valley.
Calora Coal Company. Coal Bluff Mining Company. Coal Bluff Mining Company. Midvale Mining Company.	Terre Haute Indianapolis, Terminal Bldg Terre Haute Terre Haute Midland	Letsinger. North West. Twin No. 4. Twin No. 5. Midvale.
· · · · · · · · · · · · · · · · · · ·	IBSON COUNTY.	
Princeton Coal & Mining Company	Princeton. Oakland City. Fort Branch.	Oswald. Massey Fort Branch.
К	NOX COUNTY.	
Bicknell Coal Company. Freeman Coal Company. Knox Coal Company. Lynn Coal Company. Lynn Coal Company. Vandalia Coal Company. Vandalia Coal Company. Washington-Wheatland Coal Co. Chicago & Big Muddy Coal Co.	Bicknell. Bicknell Bicknell Bicknell Vincennes Bicknell Washington Bicknell	Bicknell. Freeman. Knox. Lynn. Prospect Hill. Vandalia No. 40. Wheatland. Pine Knot.
P.	ARKE COUNTY.	
Bridgeton Mining Company. Brazil Block Coal Co. Brazil Block Coal Co. United Coal & Mining Co. Lincoln Coal & Mining Co. Otter Creek Coal Company Zellar-McClellan & Co. Zellar-McClell	Bridgeton. Brazil. Brazil. Mecca. Chicago, Ill. Chicago, Ill. Brazil. Brazil. Brazil. Brazil. Indianapolis, State Life Bldg. Indianapolis, State Life Bldg. Rosedale. Roseville. Carbon.	Bridgeton No. 1. Brazil No. 9. Brazil No. 12. Mecca No. 3. Lyford No. 1. Superior No. 1. Superior No. 2. Superior No. 3. Superior No. 3. Superior No. 3. Superior No. 316. Vandalia No. 316. Vandalia No. 317. Parke No. 10. Parke No. 11. Harrison. Whips

PERRY COUNTY.

Name of Company.	Address of Company.	Name of Mine.
Bergenroth Bros.	Troy.	Troy.

PIKE COUNTY.

Muren Coal & Ice Co		
D. Ingle Coal Co	Oakland City	Ayrshire No. 3.
D. Ingle Coal Co	Oakland City	Avrshire No. 4.
D. Ingle Coal Co	Oakland City	Ayrshire No. 5.
Muren Coal & Ice Co	St. Louis, Mo	Carbon.
S. W. Little Coal Co	Evansville	Rogers.
S. W. Little Coal Co	Evansville	Blackburn.
S. W. Little Coal Co	Evansville,	Littles.
Patoka Valley Coal Co	Huntingburg	Hartwell No. 1.
Patoka Valley Coal Co		
Muncie Coal & Mining Co	Muncie	Petersburg.
Winslow Gas Coal Company		
Winslow Gas Coal Company		

SULLIVAN COUNTY.

Indiana Southern Coal Company Indiana Southern Coal Company	Chicago, Ill., Old Colony Bldg Chicago, Ill., Old Colony Bldg	Washington, Caledonia.
Indinaa Southern Coal Company	Chicago, Ill., Old Colony Bldg	Phoenix No. 4.
Indiana Southern Coal Company	Chicago, Ill., Old Colony Bldg	Cummins.
Indiana Southern Coal Company	Chicago, Ill., Old Colony Bldg	Hocking.
Indiana Southern Coal Company	Chicago, Ill., Old Colony Bldg	Citizens.
Sunforces Coal Company		
Sunflower Coal Company Consolidated Indiana Coal Co	Dugger	Sunflower.
	Chicago, Ill., Old Colony Bldg	Consolidated No. 25.
Consolidated Indiana Coal Co	Chicago, Ill., Old Colony Bldg	Consolidated No. 26.
Consolidated Indiana Coal Co	Chicago, Ill., Old Colony Bldg	Consolidated No. 28.
Consolidated Indiana Coal Co	Chicago, Ill., Old Colony Bldg	Consolidated No. 30.
Consolidated Indiana Coal Co	Chicago, Ill., Old Colony Bldg	Consolidated No. 32.
Consolidated Indiana Coal Co	Chicago, Ill., Old Colony Bldg	Consolidated No. 33.
Consolidated Indiana Coal Co	Chicago, Ill., Old Colony Bldg	Consolidated No. 34.
Vandalia Coal Company	Indianapolis	Vandalia No. 10.
West Linton Coal Co	Indianapolis	West Linton.
Jackson Hill Coai Co	Terre Haute, Opera Block	Jackson Hill No. 2.
Jackson Hill Coal Co	Terre Haute, Opera Block	Jackson Hill No. 4.
A. H. Whitsett Coal Co	Shelburn	Keystone.
Sullivan County Coal Co	Dugger	Freeman.
Dering Coal Company	Chicago, Ill., Old Colony Bldg	Dering No. 12.
Dering Coal Company	Chicago, Ill., Old Colony Bldg	Dering No. 13.
Dering Coal Company	Chicago, Ill., Old Colony Bldg	Dering No. 14.
Southern Indiana Coal Co	Chicago, Ill., Old Colony Bldg	Semi-Block.
Southern Indiana Coal Co	Chicago, Ill., Old Colony Bldg	Mammoth Vein.
Shirley Hill Coal Co	Indianapolis, Terminal Bldg	Shirley Hill No. 1.
Shirley Hill Coal Co	Indianapolis, Terminal Bldg	Shirley Hill No. 2,
Shirley Hill Coal Co	Indianapolis, Terminal Bldg	Little Giant.
Hudson Coal Company	Farmersburg	Hudson.
Kettle Creek Coal Company	Terre Haute	Pearl.
Peabody-Alwart Coal Co	Chicago, Ill.	Reliance.
Diamond Coal & Mining Co	Chicago, Ill	Hamilton.
United Fourth Vein Coal Co	Linton	Black Hawk.
Clover Leaf Coal Co	Dugger	Clover Leaf.

VANDERBURGH COUNTY.

Diamond Coal Co. Evansvi D. Ingle Coal Co. Evansvi Sunnyside Coal Co. Evansvi Crescent Coal Co. Evansvi Banner Coal Co. Evansvi	lle. Diamond. lle. Ingleside. lle. Sunnyside. lle. Unity. lle. First Avenue.
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VERMILLION COUNTY.

Name of Company.	Address of Company.	NAME OF MINE.
Dering Coal Company. Cayuga Brick & Coal Co. Clinton Coal Co.	Chicago, Ill., Old Colony Bldg Chicago, Ill., Old Colony Bldg Chicago, Ill., Old Colony Bldg Chicago, Ill., Old Colony Bldg Cayuga Clinton	Dering No. 5. Dering No. 6. Dering No. 7. Dering No. 8. Dering No. 15. Eureka. Crown Hill No. 1. Crown Hill No. 1.
Oak Hill Coal Co. Oak Hill Coal Co. Oak Hill Coal Co. Oak Hill Coal Co.	Clinton Clinton Clinton	Oak Hill. Maple Valley.

VIGO COUNTY.

Coal Bluff Mining Company	Terre Haute	Lawton.
Coal Bluff Mining Company	Terre Haute.	
Coal Bluff Mining Company	Terre Haute	Victor.
Coal Bluff Mining Company.	Terre Haute.	Wabash.
Lower Vein Coal Company.	Terre Haute	
Vandalia Coal Company	Indianapolis	Vandalia No. 67.
Vandalia Coal Company	Indianapolis	
Vandalia Coal Company	Indianapolis	Vandalia No. 69.
Vandalia Coal Company	Indianapolis	Vandalia No. 80.
Vandalia Coal Company	Indianapolis	Vandalia No. 82.
Miami Coal Company	Brazil	Miami No. 1.
Miami Coal Company	Brazil	Miami No. 2.
Miami Coal Company	Brazil	Miami No. 3.
Parke County Coal Company	Rosedale	Parke No. 10.
Fauvre Coal Company	Indianapolis	Fauvre No. 1.
Fauvre Coal Company	Indianapolis	Fauvre No. 2.
West Terre Haute Coal Co	W. Terre Haute	Larimer.
Deep Vein Coal Company	Terre Haute	Deep Vein.
Vigo County Coal Co	Seeleyville	Ray No. 2.
Indiana Southern Coal Co.	Chicago, Ili	Forrest.
Domestic Block Coal Co	Kokomo	Domestic Block No. 1.
Sugar Valley Coal Co	West Terre Haute	Sugar Valley No. 1.
Charles F. Keeler Coal Co.	Chicago, Ill	Atherton.
M. D. West Coal Co	Cloverland	Chicago No. 6.
Grant Coal & Mining Co	Burnett	Grant No. 2.
Sugar Valley Coal Co	West Terre Haute	Sugar Valley.

WARRICK COUNTY.

Hall & Marsh. Big Four Coal Company J. W. Woolley Coal Co. Chandler Coal Company. John Archibald Coal Co. Charles Menden Coal Co. T. D. Scales Coal Co. Worsham Coal Company. Caladonia Coal Company.	Boonville. Boonville. Evansville. Evansville. Evansville. Boonville. Nowburg. Boonville.	Big Four. Big Vein No. 3. Chandler. Star No. 1. DeForest. Electric. Star No. 2. Dawson.
Caladonia Coal Company	Boonville	Dawson.
Erie Canal Coal Company Castle Garden Coal Company	Boonville.	Castle Garden.