

## REPORT OF STATE INSPECTOR OF MINES.

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OFFICE OF INSPECTOR OF MINES,  
INDIANAPOLIS, IND., February 15, 1904.

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

Dear Sir—I have the honor to submit to you herewith my fifth annual report as Inspector of Mines, covering the calendar year of 1903, and being the Twenty-fifth Annual Report of this Department, and the thirteenth 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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## INTRODUCTION.

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The subject matter of this report is treated under the several captions—

Review of coal trade.

Labor conditions.

Mine casualties.

Statistical.

In the review of coal trade, all of the mining conditions existing in 1903, including the railroad service, is treated as fully as possible.

Under the head of labor conditions we include strikes, Terre Haute and Brazil agreements, and other conditions pertaining to labor. Under mine casualties, various tables are given, exhibiting the cause, number and frequency of accidents to mine employes, also accidents to mine property.

The statistical part of the report gives tables showing the production of coal, number of mine employes, number of mining machines in use, number of mules, number of kegs of powder, tables of averages and comparative tables. These same subjects have all been treated in our former reports. However, by referring to the table of contents, it will be found that we have given some additional information which will be of interest and value to the general public. The production of coal and its distribution and the wages paid to employes have been treated in the same general manner as in our former reports. Mine accidents have been put in more complete form, in tables showing the age and nationality of persons killed and the number of dependents left at each death.

There has also been included the following additional tables, viz: a table showing the number of kegs of powder used in the mines during the year 1903, the price paid per keg and the number of tons of coal produced per keg; a table of mine haulage showing the number and kind of motors in use, and the number of

mines at which rope haulage is used (the same table shows the number of steam boilers, number of dynamos, and the number of compressors in use at Indiana mines), and a table showing by counties the name of mines using box car loaders; a table giving the average price per ton for machine and pick mining from 1900 to 1903, inclusive; also the percentage of gain over 1900.

Assistant Inspector of Mines, Charles Long, resigned September 15, and Jonathan Thomas, of Carbon, was appointed to fill the vacancy. His work in inspections and reports has been eminently satisfactory.

TABLE,

*Showing by Months and by Counties the Number of Tons Mined and Wages Paid to Employes for the Year 1903 at Mines Employing More Than Ten Men.*

| MONTHS.         | CLAY COUNTY. |                | DAVISS COUNTY. |              |
|-----------------|--------------|----------------|----------------|--------------|
|                 | Tonnage.     | Wages.         | Tonnage.       | Wages.       |
| January .....   | 148,913      | \$137,440 40   | 21,265         | \$19,280 11  |
| February .....  | 129,257      | 123,294 13     | 17,772         | 16,778 13    |
| March .....     | 105,127      | 111,976 05     | 12,125         | 11,584 85    |
| April .....     | 61,505       | 88,794 64      | 11,712         | 12,082 71    |
| May .....       | 72,630       | 94,035 42      | 17,663         | 18,079 84    |
| June .....      | 82,746       | 107,215 42     | 17,818         | 17,788 82    |
| July .....      | 82,746       | 104,695 42     | 14,543         | 14,662 65    |
| August .....    | 91,740       | 110,293 65     | 3,380          | 3,388 20     |
| September ..... | 110,666      | 131,249 92     | 15,388         | 15,330 13    |
| October .....   | 125,242      | 147,322 89     | 21,286         | 23,120 50    |
| November .....  | 101,901      | 124,878 07     | 16,748         | 19,561 19    |
| December .....  | 109,958      | 134,322 05     | 21,459         | 23,184 09    |
| Total .....     | 1,222,431    | \$1,415,508 06 | 191,159        | \$195,442 12 |

|                 | FOUNTAIN COUNTY. |             | GIBSON COUNTY. |             |
|-----------------|------------------|-------------|----------------|-------------|
| January .....   |                  |             | 8,196          | \$3,976 83  |
| February .....  |                  |             | 6,111          | 5,510 79    |
| March .....     |                  |             | 6,615          | 5,708 96    |
| April .....     |                  |             | 4,440          | 4,456 36    |
| May .....       |                  |             | 1,260          | 1,419 55    |
| June .....      | 207              | \$379 50    | 2,050          | 3,172 58    |
| July .....      | 3,717            | 3,194 40    | 2,320          | 4,674 08    |
| August .....    | 2,329            | 2,048 29    | 2,896          | 4,921 19    |
| September ..... | 2,395            | 1,742 00    | 3,967          | 5,330 38    |
| October .....   | 2,411            | 1,993 00    | 1,099          | 2,988 93    |
| November .....  | 2,728            | 1,927 00    | 3,378          | 4,234 57    |
| December .....  | 2,748            | 2,052 00    | 4,368          | 4,838 84    |
| Total .....     | 16,635           | \$13,336 19 | 46,700         | \$51,233 06 |

|                 | GREENE COUNTY. |                | KNOX COUNTY. |             |
|-----------------|----------------|----------------|--------------|-------------|
| January .....   | 207,263        | \$177,988 94   | 14,902       | \$12,706 01 |
| February .....  | 176,073        | 113,136 58     | 11,922       | 10,096 65   |
| March .....     | 213,253        | 155,856 36     | 12,316       | 9,693 43    |
| April .....     | 132,928        | 119,388 85     | 8,372        | 6,937 11    |
| May .....       | 143,737        | 132,801 63     | 8,811        | 7,059 96    |
| June .....      | 149,310        | 136,216 21     | 9,457        | 8,115 18    |
| July .....      | 187,108        | 152,163 39     | 7,144        | 6,565 66    |
| August .....    | 166,061        | 145,150 04     | 7,783        | 6,224 38    |
| September ..... | 191,480        | 169,861 38     | 10,956       | 15,014 20   |
| October .....   | 226,350        | 198,018 03     | 13,689       | 12,517 42   |
| November .....  | 225,026        | 195,092 70     | 16,549       | 13,482 27   |
| December .....  | 228,202        | 192,371 33     | 16,048       | 14,179 24   |
| Total .....     | 2,226,789      | \$1,888,045 39 | 137,949      | 122,591 61  |

| MONTHS.         | PARKE COUNTY. |                | PERRY COUNTY. |             |
|-----------------|---------------|----------------|---------------|-------------|
|                 | Tonnage.      | Wages.         | Tonnage.      | Wages.      |
| January .....   | 66,766        | \$98,818 93    | 1,419         | \$1,436 04  |
| February .....  | 82,339        | 85,746 06      | 1,164         | 856 35      |
| March .....     | 96,457        | 87,297 64      | 1,200         | 1,027 11    |
| April .....     | 41,905        | 53,864 03      | 1,124         | 1,070 49    |
| May .....       | 50,218        | 65,015 92      | 799           | 785 50      |
| June .....      | 56,282        | 74,067 83      | 1,016         | 962 01      |
| July .....      | 66,948        | 82,999 70      | 1,106         | 1,115 35    |
| August .....    | 79,058        | 99,452 89      | 615           | 649 25      |
| September ..... | 85,019        | 104,850 54     | 691           | 669 03      |
| October .....   | 99,995        | 118,260 48     | 849           | 947 83      |
| November .....  | 84,052        | 104,298 52     | 786           | 969 77      |
| December .....  | 113,955       | 113,871 72     | 451           | 626 62      |
| Total .....     | 922,994       | \$1,068,504 26 | 11,120        | \$11,115 35 |

|                 | PIKE COUNTY. |              | SULLIVAN COUNTY. |                |
|-----------------|--------------|--------------|------------------|----------------|
|                 | Tonnage.     | Wages.       | Tonnage.         | Wages.         |
| January .....   | 58,638       | \$48,542 56  | 157,521          | \$104,955 00   |
| February .....  | 46,231       | 38,300 06    | 122,053          | 93,230 36      |
| March .....     | 52,274       | 43,478 35    | 129,168          | 96,240 74      |
| April .....     | 26,807       | 27,144 71    | 100,227          | 82,558 38      |
| May .....       | 27,888       | 28,825 00    | 104,804          | 84,547 27      |
| June .....      | 28,883       | 28,422 16    | 117,979          | 97,825 52      |
| July .....      | 27,203       | 30,552 88    | 120,818          | 101,758 77     |
| August .....    | 34,612       | 33,305 64    | 140,739          | 117,939 01     |
| September ..... | 44,843       | 42,419 56    | 142,610          | 123,671 07     |
| October .....   | 54,404       | 50,062 51    | 142,075          | 113,602 97     |
| November .....  | 39,449       | 37,912 65    | 133,776          | 125,746 77     |
| December .....  | 43,016       | 40,965 91    | 141,568          | 122,261 13     |
| Total .....     | 484,258      | \$449,931 99 | 1,553,338        | \$1,264,436 99 |

|                 | VANDERBURGH COUNTY. |             | VERMILLION COUNTY. |              |
|-----------------|---------------------|-------------|--------------------|--------------|
|                 | Tonnage.            | Wages.      | Tonnage.           | Wages.       |
| January .....   | 28,035              | \$18,645 59 | 74,010             | \$53,347 68  |
| February .....  | 22,661              | 16,198 87   | 81,861             | 60,535 37    |
| March .....     | 13,278              | 11,954 71   | 84,634             | 62,306 03    |
| April .....     | 9,896               | 9,988 06    | 49,138             | 31,095 39    |
| May .....       | 11,439              | 11,413 49   | 63,280             | 51,952 75    |
| June .....      | 9,600               | 10,172 17   | 76,445             | 61,036 12    |
| July .....      | 12,607              | 12,812 71   | 84,433             | 68,106 28    |
| August .....    | 13,791              | 14,335 96   | 82,472             | 67,183 38    |
| September ..... | 18,465              | 19,254 98   | 80,170             | 64,747 20    |
| October .....   | 23,690              | 25,442 16   | 77,424             | 67,233 01    |
| November .....  | 20,366              | 21,347 83   | 94,146             | 80,642 67    |
| December .....  | 20,830              | 21,169 25   | 94,152             | 80,462 87    |
| Total .....     | 204,648             | 192,735 78  | 942,165            | \$748,447 77 |

|                 | VIGO COUNTY. |              | WARRICK COUNTY. |              |
|-----------------|--------------|--------------|-----------------|--------------|
|                 | Tonnage.     | Wages.       | Tonnage.        | Wages.       |
| January .....   | 166,397      | \$144,136 62 | 30,886          | \$19,063 73  |
| February .....  | 138,269      | 122,125 61   | 25,199          | 15,163 95    |
| March .....     | 128,887      | 105,251 85   | 25,481          | 18,308 34    |
| April .....     | 205,625      | 86,076 80    | 20,661          | 15,191 91    |
| May .....       | 106,326      | 105,933 90   | 15,572          | 12,953 22    |
| June .....      | 116,111      | 102,787 32   | 21,444          | 14,707 26    |
| July .....      | 137,471      | 121,859 55   | 19,967          | 12,974 32    |
| August .....    | 137,318      | 128,638 43   | 25,554          | 18,022 16    |
| September ..... | 141,329      | 134,227 00   | 24,744          | 18,463 02    |
| October .....   | 146,334      | 154,937 15   | 31,701          | 22,679 58    |
| November .....  | 139,077      | 136,766 54   | 37,047          | 25,201 21    |
| December .....  | 153,582      | 151,041 03   | 37,385          | 21,753 05    |
| Total .....     | 1,716,726    | 1,493,761 80 | 315,641         | \$214,481 75 |

## REVIEW OF COAL TRADE.

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The year just ended has been one of the most remarkable in the history of the mining industry of the State, more mines having been opened, more coal produced and more wages paid to employes. The total production, which reached 9,992,553 gross tons, shows a net increase of 1,229,356 tons, or nearly fourteen and one-fourth per cent. over 1902. This large increase is mainly attributable to the new mines opened, thirty-seven in number, yet as large as was the increase in production, it would have been very much greater had it not been for the shortage in railroad cars and lack of transportation facilities. This is especially true of the mines along the Southern Indiana Railroad. One mine on this road, viz: the Black Creek Mine, one of the largest producers in Greene County, fell short of the 1902 production something over thirty thousand tons. The Southern Indiana Railroad, however, was amply able to furnish both cars and transportation to the mines along its line had it not been for the numerous embargoes laid on the coal from their road by other railroads on which they were dependent for an outlet. To the general public, it would seem that the fault for this condition of affairs, attached to the railroads, yet, before placing the blame, it would be well to recall the following factors which should be taken into consideration, viz: the number of new mines that have been opened within the year, the number of railroad cars required to operate a fully developed mine, at say two-thirds time, and the interval from date of shipment of loaded cars and the returning of them to the mine, as well as the excessively heavy freight traffic of all kinds. A close railroad estimate gives thirteen days as the time required to ship a car of coal from the Linton field to Chicago and return the empty. Owing to transfers and other delays, it is presumed that the same would hold good for Indianapolis, while at some points in the gas belt it would require even a greater lapse of time. We must also bear in mind the additional fact that the majority of mines

opened recently to operate at full capacity, require from twenty to fifty cars per day. From this it will be seen that the new mines have been opened so rapidly that the consequent demand for railroad cars and motive power could not be furnished to meet the increased requirements.

The market price of coal, while not as high as it was at times in 1902, on the whole has been very good, ranging from \$1.15 to \$1.45 per ton, mine-run, and mines have undoubtedly been operated at a profit.

The aggregate wages paid in 1903 amounted to \$9,149,572.12, an increase over 1902 of \$2,070,659.00, or nearly twenty and nine-tenths per cent., while the total number of mine employes was 15,128, an increase of 1,989, or a fraction over fifteen and one-tenth per cent. over 1902. The average wages paid to mine employes in 1902 was five hundred and thirty-eight dollars and seventy-seven cents per employe. In 1903 it was six hundred and four dollars and fourteen cents, an increase over 1902 of sixty-five dollars and thirty-seven cents per mine employe.

Considering the time lost at the different mines the above figures speak well as to the condition of miners and others employed about the mines.

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#### NEW INVESTMENTS.

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New investments within the year embrace mainly the opening of new mines, as reported before, thirty-seven in number, nearly all of which are equipped with up-to-date machinery, and will be classed among the largest producers.

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#### IMPROVEMENTS, AND CHANGES IN OWNERSHIP OF MINING PROPERTIES.

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One hundred and sixty-eight thousand seventy-one dollars and ninety-six cents was reported to this office as having been spent on improvements of various kinds at Indiana mines, during the year 1903. Owing to the large increase of new mines, and the fact that the purpose for which the money was used was not always reported, it is presumed that a part of that sum was expended in equipping the new mines.



The following will show the changes in ownership and some of the most important improvements that have been made:

The Rebstock, a new block coal mine, in Clay County, was opened during the summer by the I. McIntosh Coal Company, changed ownership in November, and is now owned and operated by the Crawford Coal Company, who classes it as their No. 9 Mine.

The Rob Roy, also a block mine, located near Brazil, owned by the Andrews Coal and Mining Company, was purchased during the summer by the United Coal Company, who operated it a short time before abandoning.

The Otter Creek Coal Company have equipped their Mary Mine, in Parke County, with six electric chain machines.

The Petersburg Mine, in Pike County, owned by the J. Wooley Coal Company, of Evansville, was purchased during the month of June by the Muncie Coal and Mining Company. They have made extensive improvements with a view of increasing the capacity of the mine.

The S. H. Wulfman Coal Company, Pike County, have expended several thousand dollars in improving their Hartwell Mine, building a new tippie, equipped with shaker screens, installing electric motor haulage, which should give the mine a capacity equal to any mine in the southern part of the State.

The Rainbow Coal and Mining Company, Sullivan County, made some very extensive improvements at their Caledonia Mine, equipping the hoisting shaft, remodeling the tippie, head frame, etc. They equipped the mine with electric mining machines and motor haulage, in addition to having sunk a new air shaft at the head of the workings, equipping it with a high-speed electric fan, from which excellent results have been obtained in the way of ventilation.

The Mildred Mine, in Sullivan County, is a new mine opened late in the fall by the Busron Coal Company. The J. Wooley Coal Company purchased this mine about the time the mine was completed and ready to ship coal.

The Brazil Mining Company and the Miami Coal Company, in Vigo County, formed a consolidation in November, and are now operating under the name of the latter company.

The Big Four Mine, Warrick County, located at Boonville, and the DeForest Mine, located at DeForest, both of which were formerly ventilated by furnace, have been equipped with fans, and in both instances excellent results have been obtained.

The Victoria Mine, located near Linton, Greene County, formerly owned by the Victoria Coal Company, was purchased early in the year by L. T. Dickason. This mine is operated under the original name.

The Island Coal Company, Greene County, have replaced the rope haulage in their No. 2 Mine, with electric motor haulage.

The Greene Valley Coal Company, Greene County, have installed a box car loader at their Greene Valley Mine, which proved of great value during the busy season when cars were scarce.

The Lattas Creek Coal Company, Greene County, and the Northwest Coal Company, have installed box car loaders.

The Lynn Coal Company, Knox County, was reorganized during the year, and their mine, which was formerly operated as a wagon mine, supplying the town of Bicknell and the adjacent country, now has a mine switch from the main line of the I. & V. Railroad. The mine has also been thoroughly equipped with up-to-date machinery, including shaker screens. At present it has a capacity of about five hundred tons per day, employing seventy-five miners.

O'Carra King & Company purchased the Lyford Mine, in Parke County, in April. The Wabash Valley Coal Company formerly owned this mine. The present Company equipped the mine with electric chain mining machines and other modern improvements.

#### NEW MINES.

Thirty-four bituminous and three block coal mines have gone into operation within the past year, distributed in the different counties as follows:

Clay County, six; Daviess County, two; Fountain County, one; Greene County, six; Knox County, one; Parke County, three; Sullivan County, ten; Vermillion County, two; Vigo County, five, and Warrick County, one. Twenty-three of these, as shown by the following table, are hand or pick mines, while of the remaining fourteen there are three compressed air puncher ma-

chines, and eleven electric chain machine mines, which with few exceptions are equipped with the latest improved mining machinery of all kinds, such as self-dumping cages, shaker screens, box car loaders, first motion hoisting engines, etc., incident to handling a large output of coal and preparing it to suit the various market demands.

In the following table will be found the names of the companies owning and operating these new mines, the names of the mines, the railroad on which they are located, the geological number and thickness of coal seams, the depth and size of shaft, the kind of mines, the kind of machines used, when mines were commenced and when first shipment of coal was made.

## TABLE OF NEW MINES.

## BLOCK MINES.

## CLAY COUNTY.

| COMPANY.                     | MINE.                 | Railroad.      | Geological<br>Number of<br>Seam. | Thickness of<br>Seam. | Depth of Shaft. | Size of Shaft. | Machine or<br>Pick Mine. | Kind of<br>Machine. | Beginning of<br>Operation | First Shipment. |
|------------------------------|-----------------------|----------------|----------------------------------|-----------------------|-----------------|----------------|--------------------------|---------------------|---------------------------|-----------------|
| Continental Clay Works.....  | Continental.....      | C. & E. I..... | III                              | 4'                    | 65              | 8 x 20         | Pick.....                | .....               | 10-1, '02                 | 7, '03          |
| Crawford Coal Company.....   | Rebstock.....         | C. & E. I..... | III                              | 3' 3"                 | 85              | 7 x 14         | Pick.....                | .....               | 7, '03                    | 11-21, '03      |
| Brazil Block Coal No. 7..... | Brazil Block No. 7... | Vandalia.....  | III                              | 4'                    | 105             | 8 x 17         | Pick.....                | .....               | 7, '02                    | 2-1, '03        |

## BITUMINOUS MINES.

## CLAY COUNTY.

|                                 |                       |                   |    |       |    |        |           |       |           |           |
|---------------------------------|-----------------------|-------------------|----|-------|----|--------|-----------|-------|-----------|-----------|
| Indiana Bituminous Coal Co..... | Fair View.....        | Vandalia.....     | VI | 7' 6" | 80 | 9 x 19 | Pick..... | ..... | 8-1, '03  | 10-1, '03 |
| Lewis Coal and Mining Co.....   | Lewis.....            | Southern Ind..... | V  | 9'    | 77 | 8 x 15 | Pick..... | ..... | 8-26, '03 | 7-1, '03  |
| Zellar McClellan & Company..... | Cloverland No. 2..... | Vandalia.....     | VI | 7'    | 90 | 8 x 21 | Pick..... | ..... | 8-26, '03 | 10, '03   |

## DAVIESS COUNTY.

|                                |                |                   |    |    |     |        |           |       |           |           |
|--------------------------------|----------------|-------------------|----|----|-----|--------|-----------|-------|-----------|-----------|
| Washington-Wheatland Coal Co.. | Wheatland..... | B. & O. S. W..... | IV | 5' | 100 | 8 x 17 | Pick..... | ..... | 11-1, '02 | 7-20, '03 |
| Mandabach Bros.....            | Mandabach..... | E. & I.....       | V  | 8' | 56  | 6 x 12 | Pick..... | ..... | .....     | 7-1, '03  |

## FOUNTAIN COUNTY.

|                         |                 |                 |   |       |       |       |           |       |       |           |
|-------------------------|-----------------|-----------------|---|-------|-------|-------|-----------|-------|-------|-----------|
| Silverwood Coal Co..... | Silverwood..... | Cloverleaf..... | V | ..... | ..... | ..... | Pick..... | ..... | ..... | 12-1, '03 |
|-------------------------|-----------------|-----------------|---|-------|-------|-------|-----------|-------|-------|-----------|

## GREENE COUNTY.

|                             |                          |                   |     |       |       |        |           |                  |         |
|-----------------------------|--------------------------|-------------------|-----|-------|-------|--------|-----------|------------------|---------|
| Hoosier Coal Co.....        | Hoosier No. 2.....       | Southern Ind..... | V   | 7'    | 46    | 9 x 17 | Machine.. | Elec. chain..... | 11, '03 |
| North Western Coal Co.....  | North Western No. 3..... | Southern Ind..... | IV  | 5'    | 75    | 9 x 16 | Machine.. | Elec. chain..... | 2, '03  |
| Johnson Coal and M. Co..... | Atlas No. 2.....         | I. & V.....       | IV  | 5'    | 128   | 9 x 16 | Machine.. | Elec. chain..... | 8, '03  |
| Island Coal Co.....         | Island No. 5.....        | Southern Ind..... | IV  | 5'    | 55    | 8 x 19 | Pick..... | 7, '03           | 8, '03  |
| Letsinger Coal Co.....      | Letsinger.....           | Southern Ind..... | III | 7' 6" | ..... | .....  | Machine.. | Comp. air.....   | 2, '03  |
| Coal Bluff Mining Co.....   | Twin.....                | I. & V.....       | IV  | ..... | ..... | .....  | Machine.. | .....            | 10, '03 |

## KNOX COUNTY.

|                 |       |       |       |       |       |       |       |       |       |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Enterprise..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|

## PARKE COUNTY.

|                               |                     |                                  |    |        |       |        |           |                    |          |            |
|-------------------------------|---------------------|----------------------------------|----|--------|-------|--------|-----------|--------------------|----------|------------|
| Parke County Coal Co.....     | Parke No. 11.....   | T. H. & L.....                   | VI | 6' 6'' | 102   | 8 x 16 | Machine.. | Comp. air..        | 7-1, '03 | 1, '03     |
| Minshall Vein Coal Co.....    | Minshall No. 2..... | T. H. & L., Vandalia, Logansport | V  | 5'     | 107   | 9 x 18 | Pick      |                    |          | 11-20, '03 |
| Raccoon Valley Coal Co.....   | Briar Hill.....     | T. H. & L.....                   | VI | 5'     | Drift | Comp   | ny bought | mine in Dec. 1902. |          | 1, '03     |
| Mecca Coal and Mining Co..... | Mecca No. 4.....    |                                  |    |        |       |        |           |                    |          |            |

## SULLIVAN COUNTY.

|                                 |                              |                   |     |       |       |        |           |                  |             |         |
|---------------------------------|------------------------------|-------------------|-----|-------|-------|--------|-----------|------------------|-------------|---------|
| Mammoth Vein Coal Co.....       | Mammoth Vein.....            | E. & T. H.....    | VI  | 6'    | 173   | 9 x 15 | Machine.. | Elec. chain..... | Spring, '03 | 12, '03 |
| Little Giant Coal Co.....       | Little Giant.....            | Monon.....        | VI  | 5' 6" | ..... | 9 x 16 | Machine.. | Elec. chain..... | Fall, '02   | 7, '03  |
| Indiana Hocking Coal Co.....    | Lablanch.....                | E. & T. H.....    | VII | 4' 6" | 221   | 9 x 19 | Machine.. | Elec. chain..... | 8, '03      | 12, '03 |
| Bruillette's Creek Coal Co..... | Bruillette's Cr'k No. 6..... | E. & T. H.....    | VII | 5' 6" | 80    | 9 x 16 | Machine.. | Elec. chain..... | Fall, '03   | 12, '03 |
| J. Woolley Coal Co.....         | Mildred.....                 | E. & T. H.....    | VI  | 5'    | 144   | 8 x 17 | Machine.. | Elec. chain..... | 5-10, '03   | 12, '03 |
| Island Coal Company.....        | Island No. 4.....            | I. & V.....       | IV  | 5'    | 260   | 9 x 17 | Pick..... | .....            | 3, '03      | 11, '03 |
| Cummins Coal Co.....            | Cummins.....                 | E. & T. H.....    | VII | 5'    | Slope | .....  | Machine.. | Comp. air.....   | Fall, '02   | 8, '03  |
| Citizens Coal Co.....           | Citizens.....                | Local.....        | VI  | 5'    | 165   | 8 x 16 | Pick..... | .....            | 6, '03      | 10, '03 |
| Coal Bluff Mining Co.....       | Superior No. 1.....          | E. & T. H.....    | VII | 5' 6" | 112   | 9 x 18 | Pick..... | .....            | 4, '03      | 11, '03 |
| North Jackson Hill Coal Co..... | St. Clair.....               | Southern Ind..... | VI  | 5' 6" | 197   | 9 x 18 | Machine.. | Electric.....    | 6, '03      | 11, '03 |

## TABLE OF NEW MINES—Continued.

## BITUMINOUS MINES—Continued.

## VERMILLION COUNTY.

| COMPANY.                   | MINE.                  | Railroad.       | Geological<br>Number of<br>Seam. | Thickness of<br>Seam. | Depth of Shaft. | Size of Shaft. | Machine or<br>Pick Mine. | Kind of<br>Machine. | Beginning of<br>Operation. | First Shipment. |
|----------------------------|------------------------|-----------------|----------------------------------|-----------------------|-----------------|----------------|--------------------------|---------------------|----------------------------|-----------------|
| Clinton Coal Company ..... | Crown Hill No. 2 ..... | C. & E. I. .... | VII                              | 5'                    | 151             | 8 x 16         | Pick .....               | .....               | 5-1, '03                   | 7-14, '03       |
| Brazil Block Coal Co ..... | Rhoades .....          | C. & E. I. .... | VII                              | 5' 6"                 | 100             | 8 x 17         | Pick .....               | .....               | Fall, '03                  | 10-1, '03       |

## VIGO COUNTY.

|                           |                        |                 |    |       |     |         |            |       |             |            |
|---------------------------|------------------------|-----------------|----|-------|-----|---------|------------|-------|-------------|------------|
| Miami Coal Co. ....       | Miami No. 2 .....      | C. & E. I. .... | VI | 6' 6" | 50  | 8 x 16  | Pick ..... | ..... | Spring, '03 | 5-1, '03   |
| Deep Vein Coal Co. ....   | Deep Vein .....        | Vandalia .....  | VI | 6'    | 170 | 8 x 10  | Pick ..... | ..... | Spring, '03 | 9-1, '03   |
| Sugar Creek Coal Co. .... | Sugar Creek .....      | Vandalia .....  | V  | 6'    | 105 | 10 x 20 | Pick ..... | ..... | .....       | 10-20, '03 |
| Lost Creek Coal Co .....  | Lost Creek No. 1 ..... | Vandalia .....  | VI | 6'    | 120 | 9 x 16  | Pick ..... | ..... | 12, '02     | 9-1, '03   |

## WARRICK COUNTY.

|                            |              |                   |   |    |    |        |           |             |           |          |
|----------------------------|--------------|-------------------|---|----|----|--------|-----------|-------------|-----------|----------|
| T. D. Scales Coal Co. .... | Scales ..... | Southern Ind .... | V | 7' | 30 | 9 x 18 | Machine.. | Comp. air.. | Fall, '02 | 6-1, '03 |
|----------------------------|--------------|-------------------|---|----|----|--------|-----------|-------------|-----------|----------|

NOTE.—There are two seams opened at the Twin Mine, viz., No. IV and No. V. No. IV is found at a depth of one hundred and fifty feet from the surface, carrying four feet in thickness. No. V lies at a depth of fifty-six feet from the surface, six feet thick, and is opened by a double shaft nine by thirty feet in size, the coal from both being hoisted from the same opening. The steam boilers, hoisting engines, dynamos and other machinery are concentrated into one power plant, thereby causing a considerable saving in steam and electric power, labor and fuel, which are necessary to generate such power and operate the machinery, as well as labor in many other departments in and about a mine. There is also a saving in mine buildings, as one blacksmith shop, one carpenter shop, one powder magazine, one fan and fan house, one mule barn, etc., will answer for the two mines.

In addition to the above, the No. IV mine has been equipped with a system of light motor haulage with which it is the purpose to gather the coal direct from the working faces. If successful (there being no good reason why it should not) this will result in an immense saving in the cost of brushing the roadways for height, which on account of the thinness of the coal seam, would be necessary if mule haulage were used.

The sinking and equipping of a mine in this manner, with the existing conditions, is the first attempt of the kind in the State, and results are being very closely watched by those interested in mines and mining. The success of the motor haulage is especially interesting to the general public, as a problem will then perhaps have been solved which will place some of our thin coal seams on a better competitive basis with the thicker ones, and in many instances making it possible to operate mines at a profit in certain coal fields which are now considered worthless on account of such conditions as referred to above, thereby enhancing the value of such lands, also adding greatly to the value of workable coal in the State, the latter being a factor which at some future day will become an important one in connection with our fuel supply.

## ABANDONED MINES.

*Table Showing Names of Mines, Company and Month of Abandonment.*

| NAME OF MINE.                | COMPANY.                              | COUNTY.         | MONTH.     |
|------------------------------|---------------------------------------|-----------------|------------|
| Brazil Block No. 11.....     | Brazil Block Coal Company .....       | Clay.....       | November.  |
| Gart No. 5 .....             | Brazil Block Coal Company .....       | Clay.....       | March.     |
| Briar Hill.....              | Clay City Coal Company .....          | Clay.....       | March.     |
| Eureka No. 2 .....           | Eureka Block Coal Company .....       | Clay.....       | January.   |
| Pratt.....                   | Coal Bluff Mining Company.....        | Clay.....       | July.      |
| Silverwood No. 3 .....       | Indiana Bituminous Coal Company ..... | Clay.....       | October.   |
| Silverwood No. 2 .....       | Indiana Bituminous Coal Company ..... | Fountain.....   | February.  |
| Brullette's Creek No. 4..... | Brullette's Creek Coal Company .....  | Vermillion..... | January.   |
| Brick Works.....             | Terre Haute Brick and Pipe Co.....    | Vigo.....       | June.      |
| Nickel Plate.....            | Brazil Mining Company .....           | Vigo.....       | September. |
| Ray .....                    | Seesleyville Mining Company.....      | Vigo.....       | February.  |

Labor conditions, as a whole, have been very satisfactory during the year, there having been but few strikes, other than local, and these usually lasted but a few days. The strike at the Black Creek Mine, during the summer, originating over the discharge of a driver for beating a mule, was of longer duration than any other. It was in effect some three weeks. We give herewith the Terre Haute and Brazil Agreements.

## TERRE HAUTE AGREEMENT.

APRIL 1, 1903, TO MARCH 31, 1904.

Pursuant to an agreement made between the Coal Operators and United Mine Workers of America of Illinois, Indiana, Ohio and Pennsylvania, made at Indianapolis, Ind., February 7, 1903, the price of mining for bituminous coal in the State of Indiana shall be 90 cents per ton of 2,000 pounds for screened lump coal, made over a standard screen, and 55 cents per ton of 2,000 pounds for run-of-mine. That further details in scale of prices for pick and machine mining in the State of Indiana for one year, beginning April 1, 1903, shall be as follows:

The standard height of coal in Indiana shall be 3 feet 6 inches, excepting in mines already opened, where the standard height shall be 3 feet 3 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 106 cents per ton for screened lump coal and 65 cents per ton for mine-run coal.

Narrow entries 7 to 9 feet wide, \$1.86½ per yard.

Wide entries 12 feet wide, \$1.16½ per yard.

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

#### BREAK THROUGHS.

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.

#### ROOM TURNING.

Room turning ..... \$4 50

Room necks to be driven 12 feet in and widened at an angle of 45 degrees when so desired by the operator. Any distance in excess of above shall be paid for proportionately, but no room neck shall exceed 15 feet. When room necks are driven 12 feet wide, the price shall be  $\frac{5}{8}$  of regular price, or \$2.81 $\frac{1}{4}$ .

#### MACHINE MINING.

In entries 7 to 9 feet wide. .... \$1 34

In entries 12 feet wide,  $\frac{5}{8}$  of price for narrow entries, or \$3 $\frac{1}{4}$ . 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.

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

#### ROOM TURNING—\$3.37 $\frac{1}{2}$ .

Room necks to be driven 12 feet in and widened at an angle of 45 degrees when so desired by the operators. Any distance in excess of above shall be paid for proportionately, but no room neck shall exceed 15 feet. When room necks are driven 12 feet wide, price shall be  $\frac{5}{8}$  of regular price, or \$2.10.

#### DAY WORK FOR PUNCHING MACHINE.

Machine work, when paid for by the day, shall be for:

|                      |        |
|----------------------|--------|
| Machine 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 horsebacks, etc.

**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, 10½ cents; helper, 9 and 3-10 cents; loading, shooting and timbering, 52 and 2-10 cents. Total, 72 cents.

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

**FOR CHAIN MACHINE**

Screened Lump.—Runner, 6¼ cents; helper, 6¼ 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.

**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.

**DAY LABOR.**

Inside day labor shall not be less than \$2.56 per day of eight hours, when men are employed. And for outside day labor on and north of the B. & O. S. W., the minimum price shall be \$2.02½ per day.

South of the B. & O. S. W., the price shall be 20¼ cents per hour.

All outside day laborers working at the mines, excepting weighmasters, flat trimmer and dumper, who shall be regarded strictly as company men, shall be recognized as members of the United Mine Workers of America, and present conditions and hours of labor shall prevail during the existence of this contract; and, provided further, that in emergencies or in the absence of any regular employe the right of the operator to employ men not members of the United Mine Workers of America for outside day labor, shall not be questioned.

Any and all flat trimmers shall dock for dirty coal.

**DEAD WORK.**

1. 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 companies 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.

2. 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.

3. 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 30 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.

#### GENERAL.

1. When the coal is paid for mine-run, it shall be mined in as good condition as when paid for on the 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 it can be shown that any miner persistently violates the letter or spirit of this clause, he shall be discharged. Persistently, as used in this clause, means three cars the first week and two cars in any succeeding week. Nor shall he load an undue proportion of fine coal in any one car, but shall see that the fine coal is mixed with the large coal in such a way as to make a fair quality of mine-run coal. This provision for cleaning coal and penalty for failure also applies to screened lump coal.

2. The semi-monthly pay shall continue until the constitutionality of the law providing for weekly pay shall have been passed upon by the Supreme courts of Indiana and of the United States.

3. The time for beginning work in the morning and the length of intermission at noon shall be considered a local question.

4. 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 or 48 hours 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.

## 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 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.

5. Inside day work may be done upon idle days, and in case of emergency on overtime.

6. It is agreed that if any difference arises between the operators and the miners at any time, a settlement shall be arrived at without stopping the work. If the parties immediately affected can not reach an agreement themselves, the question shall be referred without delay to a board of arbitration consisting of two operators, selected by the operator interested, and two miners, selected by the local union of the United Mine Workers of America involved. In the event of these four being unable to reach a decision, they shall select a fifth man, and the decision of the board so constituted shall be final, but no miner or operator directly interested in the differences shall be a member of such board.

Nothing in the above shall be construed as excluding officers of the miners' or operators' associations, nor mine superintendents.

7. 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, except as hereinafter set forth in Article No. 16. In case they fail to agree, they shall proceed to adjust the trouble by the selection of an arbitration board as provided in Article 6 of this agreement. 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 or mine boss or superintendent shall be discharged.

8. That under no circumstances will the operator 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.

9. The operator shall have the privilege of working a night shift for cutting coal with machine. All men so employed shall be paid 28 cents extra for each hours' work at night, in addition to the scale price per ton.

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

11. 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.

12. 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.

13. 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.

14. No restrictions shall be placed on the amount of coal which machines may mine, nor on the number of cars that any miner may load in any specified time.

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

Enough extra loaders shall be employed in each mine so that the full complement of loaders agreed upon to follow each machine shall be at work every day that the mine hoists coal.

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.

15. 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.

16. Engineers shall be paid the present rate of wages, thus 12½ per cent. advance. 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.

17. The prices now paid firemen and blacksmiths, together with present condition of employment and hours of labor, shall continue during the existence of this contract, plus 12½ per cent. advance.

18. 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.

#### SHOT FIRERS.

Present conditions as to shot firers shall continue until a commission composed of one miner, to be selected by the United Mine Workers of America of District No. 11, one operator, to be selected by the Bitumin-

ous Coal Operators' Association of Indiana, and Professor Robert Thurston of Cornell College, an expert engineer, shall be appointed.

Such commission shall, as soon as possible, examine the so-called dangerous pick mines in the state of Indiana and decide whether or not it is necessary to employ shot firers in any of said mines on account of gas, dust or other causes beyond the control of either miners or operators. the present methods of mining not to be considered as being beyond control.

If a majority of such commission shall decide that it is necessary that shot firers be employed in any mine and shall sign a report to that effect, then shot firers may be employed by the miners in such mine, who shall pay them for their services, and such shot firers shall be wholly in the employ of the miners and in no manner whatever to be the agents, servants or employees of the owners, operators or managers of the mine.

The owner or operator of any mine where the commission decides that it is necessary that shot firers be employed and where they are so employed by the miners, shall pay to the local union an amount of money equivalent to one-fourth cent ( $\frac{1}{4}$  cent) per ton of mine-run or two-fifths ( $\frac{2}{5}$  cents) per ton of screened lump of the output of said mine.

It being agreed and understood that such payment to the local union shall not directly or indirectly be considered as or construed to be a payment by the owner or operator of any part or portion of the services rendered by shot firers for the miners.

It being further expressly agreed and understood that in any mine where shot firers are employed that the relation of master and servant shall exist wholly between the miners and the shot firers and that such relation shall not obtain as between the owner or operator of the mine and the shot firers.

The expenses of such commission shall be borne equally by the United Mine Workers of America of District No. 11, and the Bituminous Coal Operators' Association of Indiana, except that the Operators' Association shall alone bear the expenses occasioned by the appointment and services of the expert engineer.

In behalf of the Indiana Bituminous Coal Operators' Association:

J. C. KOLSEM, President.

P. H. PENNA, Secretary.

United Mine Workers of America, District No. 11:

GEO. HARGROVE, President.

J. H. KENNEDY, Secretary.

## BRAZIL AGREEMENT.

## CONTRACT.

## PICK MINING SCALE FOR 1903.

Contract between the Operators, Miners and Day Laborers of the Brazil Block Coal District from April 1st, 1903, to April 1st, 1904:

1. Entered into this first day of April, 1903, 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.

2. Pursuant to a contract made between the Coal Operators and United Mine Workers of America, of Indiana, Illinois, Ohio and Pennsylvania, made at Indianapolis, Ind., February 7, 1903.

3. The price for mining screened block coal in the Block Coal District of Indiana shall be one (\$1) dollar per ton of 2,000 lbs., it being understood also that the price for digging unscreened coal shall be an equivalent of the price paid for screened coal.

4. That further details in the scale of prices for pick mining in the Block Coal district shall be as follows:

5. The payment for low coal shall be upon the following scale:

6. For all coal two feet ten inches and under three feet one inch, one dollar and five (\$1.05) cents.

7. For all coal under two feet ten inches one dollar and ten cents (\$1.10).

8. The price of yardage shall be as follows:

|   |        |
|---|--------|
| Single yardage in coal 3 ft. 1 in. or over.....                               | \$1 00 |
| Double yardage in coal 3 ft. 1 in. or over.....                               | 2 00   |
| Gob entries in coal 3 ft. 1 in. or over.....                                  | 1 50   |
| Gob entries in coal 3 ft. 1 in. or over, without brushing..                   | 50     |
| Single yardage in coal 2 ft. 10 in. and under 3 ft. 1 in....                  | 1 05   |
| Double yardage in coal 2 ft. 10 in. and under 3 ft. 1 in....                  | 2 10   |
| Gob entries in coal 2 ft. 10 in. and under 3 ft. 1 in.....                    | 1 57½  |
| Gob entries in coal 2 ft. 10 in. and under 3 ft. 1 in. without brushing ..... | 52½    |
| Single yardage in coal below 2 ft. 10 in.....                                 | 1 10   |
| Double yardage in coal below 2 ft. 10 in.....                                 | 2 20   |
| Gob entries in coal below 2 ft. 10 in.....                                    | 1 65   |
| Gob entries in coal below 2 ft. 10 in. without brushing...                    | 55     |

All entries to be driven when required by the operator, 5½ feet in the clear in height, and the miners agree to gob the dirt, when he is 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 Zeller & McClellan Company, and in these two mines the same conditions shall continue as were in force during the year just ending, 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 12½ cents per yard for all single yardage when same is worked double shift. Work on driving entries and drawing pillars may be double shift at the option of the operator.

It is further agreed that the McIntosh & Co. mine will submit to an investigation relative to the time that the companies commenced gobbing the dirt, and that said company will abide by the decision of the joint board relative to the operators' right to have the dirt gobbed at these mines.

9. Inside day scale:

|  |        |
|--|--------|
| Track layers .....                       | \$2 56 |
| Track layers' helpers .....              | 2 56   |
| Trappers .....                           | 1 13   |
| Bottom cagers .....                      | 5 26   |
| 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 outside day labor shall receive 12½ per cent. advance.

10. The firemen and night pumpers shall be paid at the rate of twenty-four (24) cents per hour for their labor. The above wage is based on an eight (8) 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 an emergency, the firemen and night pumpers will not limit their time but continue working until such emergency is past.

11. Where a miner is working a deficient place, and is being paid by the day, his pay shall be \$2.60 per day, and if he uses his own tools during such time, he shall be paid 10 cents per day for the use of same. The operator shall have the option of furnishing the tools for any such work.

12. The price of blacksmithing shall be 1½ cents on the dollar.

13. Semi-monthly pay shall continue until the constitutionality of the law providing for weekly pay shall have been passed upon by the Supreme courts of Indiana and of the United States.

14. The 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.

16. The hour to begin work in the morning shall be seven (7) a. m., with thirty minutes' stop for dinner, and begin shooting at 3:30 o'clock p. m., from April 1, 1903, to October 1, 1903, and from October 1, 1903, to April 1, 1904, the mines shall start at seven-thirty a. m., with thirty minutes' stop for dinner, and begin shooting at 4:00 p. m., and that no shooting shall be done at the mine except by mutual consent between the bank boss and the bank committee, and in the event that the mine is to work



a half day it shall be the duty of the mine boss to notify the bank committee of the fact.

17. That eight hours a day means eight hours' work in the mine at the usual working places for all classes of inside workmen. This shall be exclusive of the time required in reaching said 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.

19. 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.

20. Also to give each miner as near as possible an equal turn of cars, and not to allow any day hands to load coal on idle days.

21. 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.

22. 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.

23. It is further agreed that if any differences arise between the operator and miner at any pit, settlement shall be arrived at without 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 actions shall be final, but no miner nor operator interested in the differences shall be a member of said committee.

24. 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.

25. 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 said 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 two full hours, but 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.

26. 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.

27. 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 the bars in proper position.

28. 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.

29. 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 the said mine.

30. The Crawford Coal Company in their mines at Center Point may continue to do the brushing in the entries where the coal is 3 feet 1 inch and under in thickness.

31. 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,  
WM. M. ZELLER,  
W. E. EPPERT,  
JAMES T. ANDREW,  
A. H. ZIMMERMAN.

Executive Committee District No. 8, United Mine

Workers of America, for Block Coal Miners:

JAMES CANTWELL,  
WILLIAM HUSTON,  
WM. TREAGER,  
WILLIAM WILSON.

### CONTRACT.

#### MACHINE MINING SCALE FOR 1903.

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

1. Entered into this first day of April, 1903, between the Operators' Machine Mines of the Block Coal District, and the Executive Board of the United Mine Workers of America representing District No. 8.

2. Pursuant to a contract made between the Coal Operators and the United Mine Workers of America of Illinois, Indiana, Ohio and Pennsylvania, made at Indianapolis, Ind., February 7th, 1903.

3. 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 ft. wide, fifty-three and one-half ( $53\frac{1}{2}$ ) cents per yard.

Price for entry driving, 9 to 12 ft. wide, thirty-two and one-half ( $32\frac{1}{2}$ ) cents per yard.

The loader agrees to keep the bug dust and draw slate back 14 ft. from the working face.

All entries more than 12 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 \$3.03¾ per day. Helpers, \$2.70 per day. Motormen receive 12½ per cent. increase on present wages.

Entry driving, 6 to 9 ft. wide, Machine Runner to be paid 25 cents per yard.

Entry driving, 9 to 12 ft. 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 employees.

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 same.

2. That two men shall have the right to three places where they can take care of 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 (1¼) 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.

This agreement to become a part of the agreement entered into on the 1st day of April, 1903, 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:

BRAZIL BLOCK COAL CO.,

JAS. H. McCLELLAND, President.

DIAMOND BLOCK COAL CO.,

JAS. H. McCLELLAND, President.

On behalf of the Executive Board District No. 8,

United Mine Workers of America:

JAS. CANTWELL,

WILLIAM HUSTON,

WM. TREAGER,

WILLIAM WILSON,

HARRY WRIGHT,

Members M. E. B.

## CONTRACT

BETWEEN THE NATIONAL BROTHERHOOD OF COAL HOISTING ENGINEERS AND OPERATORS OF DISTRICT No. 8, SIGNED MARCH 21, 1903.

1. On and after April 1, 1903, until April 1, 1904, 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. 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.

2. 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.

3. 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, and 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 the boilers on Sunday.

4. It is also fully understood and agreed upon the part of the Brotherhood of Hoisting Engineers that they will not under any circumstances allow affiliation with any other 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 other 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 nonunion labor for sale on the market.

5. It is also agreed that only members of the National Brotherhood of Coal Hoisting Engineers shall be employed in the capacity of hoisting engineers during the continuance of this agreement, when such members, competent to fill the position, can be obtained.

6. No Engineer shall lay off or exchange shifts without the consent of the operators.

7. 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.

8. It is also agreed that in case of dispute or trouble arising between any Engineer and the Operator by whom he is employed, work shall not be suspended, but the grievance shall be taken up by the proper officials.

9. 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.

Signed and agreed to by Operators' Committee:

JAS. H. McCLELLAND,  
WM. M. ZELLER,  
A. H. ZIMMERMAN,  
M. H. JOHNSON.

Engineers' Committee:

LUTHER PULLEN,  
ALBERT HIXON,  
T. E. JENKINS,  
D. H. COLLIER,  
W. C. BIGGINS,  
FRANK YOCKUM.

TABLE

Showing by Counties the Name of Mine, Number of Tons Screened, Slack and 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.

| NAME OF MINE.       | MACHINE MINED.         |                        |                   |   | PICK MINED.            |                        |                   |   | DISTRIBUTION. |               | WAGES PAID.  |                    |                     |              |
|---------------------|------------------------|------------------------|-------------------|---|------------------------|------------------------|-------------------|---|---------------|---------------|--------------|--------------------|---------------------|--------------|
|                     | Tons of Screened Coal. | Tons of Slack and Nut. | Tons of Mine-Run. | Total Tons of all Kinds of Coal Produced. | Tons of Screened Coal. | Tons of Slack and Nut. | Tons of Mine-Run. | Total Tons of all Kinds of Coal Produced. | Indiana.      | Other States. | To Miners.   | To Inside Day Men. | To Outside Day Men. | Total Wages. |
| Brazil Block No. 1  | 10,079                 | 2,015                  | .....             | 12,094                                    | 12,764                 | 2,555                  | .....             | 15,319                                    | 15,836        | 11,527        | \$21,171 39  | \$19,924 53        | \$7,283 74          | \$48,379 66  |
| Brazil Block No. 8  | 29,260                 | 5,850                  | .....             | 35,110                                    | 9,203                  | 1,850                  | .....             | 11,053                                    | 4,377         | 41,786        | 31,891 60    | 29,603 81          | 9,731 96            | 71,227 37    |
| Brazil Block No. 10 | 22,872                 | 4,575                  | .....             | 27,447                                    | 11,794                 | 2,370                  | .....             | 14,164                                    | 4,902         | 36,709        | 31,510 27    | 16,954 78          | 6,999 04            | 55,464 09    |
| Brazil Block No. 11 | 1,393                  | 280                    | .....             | 1,673                                     | 12,580                 | 2,505                  | .....             | 15,085                                    | 1,801         | 14,957        | 14,546 73    | 6,881 84           | 3,607 05            | 25,035 62    |
| Diamond No. 5.....  | 36,604                 | 7,405                  | .....             | 44,009                                    | 9,068                  | 1,865                  | .....             | 10,933                                    | 11,346        | 43,596        | 41,459 74    | 23,313 57          | 8,812 27            | 73,585 58    |
| Rob Roy .....       | Not reported.          | .....                  | .....             | .....                                     | .....                  | .....                  | .....             | .....                                     | .....         | .....         | .....        | .....              | .....               | .....        |
| Total .....         | 100,208                | 20,125                 | .....             | 120,333                                   | 55,409                 | 11,145                 | .....             | 66,554                                    | 38,312        | 148,575       | \$140,579 73 | \$96,678 53        | \$36,434 06         | \$273,692 32 |

## PARKE COUNTY.

|                           |         |        |       |         |        |        |       |         |        |         |              |              |             |              |
|---------------------------|---------|--------|-------|---------|--------|--------|-------|---------|--------|---------|--------------|--------------|-------------|--------------|
| Brazil Block No. 12       | 46,115  | 9,760  | ..... | 55,875  | 9,965  | 2,274  | ..... | 12,239  | 9,179  | 58,935  | \$46,279 21  | \$40,430 62  | \$11,308 99 | \$98,018 82  |
| Mary .....                | 10,082  | 1,140  | ..... | 11,222  | 26,062 | 5,405  | ..... | 31,467  | 2,944  | 39,745  | 39,589 80    | 14,941 82    | 8,062 21    | 62,593 83    |
| Total .....               | 56,197  | 10,900 | ..... | 67,097  | 36,027 | 7,679  | ..... | 43,706  | 12,123 | 98,680  | \$85,869 01  | \$55,372 44  | \$19,371 20 | \$160,612 65 |
| Total Machine Block ..... | 156,405 | 31,025 | ..... | 187,430 | 91,436 | 18,824 | ..... | 110,260 | 50,435 | 247,255 | \$226,448 74 | \$152,050 97 | \$55,805 26 | \$434,304 97 |

# BITUMINOUS MACHINE MINES.

## CLAY COUNTY.

|                    |        |        |       |        |        |        |       |         |        |         |              |             |             |              |
|--------------------|--------|--------|-------|--------|--------|--------|-------|---------|--------|---------|--------------|-------------|-------------|--------------|
| Gifford No. 1..... | 18,483 | 9,475  | ..... | 27,958 | 17,682 | 3,450  | ..... | 21,132  | 14,884 | 34,206  | \$29,471 56  | \$17,347 10 | \$6,788 33  | \$53,606 99  |
| Gifford No. 2..... | 32,157 | 2,915  | ..... | 35,072 | 61,528 | 28,268 | ..... | 89,796  | 35,072 | 89,796  | 82,115 27    | 42,607 14   | 10,126 32   | 134,848 73   |
| Total.....         | 50,640 | 12,390 | ..... | 63,030 | 79,210 | 31,718 | ..... | 110,928 | 49,956 | 124,002 | \$111,586 83 | \$59,954 24 | \$16,914 65 | \$188,455 72 |

## GREENE COUNTY.

|                       |         |         |         |           |        |        |         |         |         |         |              |              |              |                |
|-----------------------|---------|---------|---------|-----------|--------|--------|---------|---------|---------|---------|--------------|--------------|--------------|----------------|
| Black Creek.....      | 32,855  | 18,226  | 29,030  | 80,111    | 29,478 | 16,036 | 26,496  | 72,010  | 75,116  | 76,905  | \$80,168 03  | \$30,372 10  | \$9,113 00   | \$119,653 13   |
| Island City No. 1 ..  | .....   | .....   | 67,149  | 67,149    | .....  | .....  | 48,228  | 48,228  | 48,228  | 67,149  | 58,850 96    | 28,392 31    | 10,495 13    | 97,738 40      |
| Island City No. 2 ..  | 35,375  | 12,602  | 62,797  | 110,774   | 17,414 | 6,027  | 32,142  | 55,583  | 55,583  | 110,774 | 91,062 50    | 30,499 74    | 18,288 36    | 139,850 60     |
| Gilmour.....          | .....   | .....   | 136,024 | 136,024   | .....  | .....  | .....   | .....   | 85,403  | 50,181  | 72,995 22    | 23,953 00    | 8,694 28     | 105,642 50     |
| Hoosier No. 1.....    | 4,487   | 2,283   | 14,155  | 20,925    | .....  | .....  | .....   | .....   | 19,402  | 1,523   | 7,254 56     | 9,445 47     | 2,922 71     | 19,622 74      |
| Midland.....          | 58,246  | 21,518  | 20,421  | 100,185   | 2,640  | 837    | 2,065   | 5,542   | 73,613  | 32,114  | 42,205 81    | 12,954 39    | 19,307 61    | 81,467 81      |
| Summit No. 2.....     | 37,402  | 9,769   | 100,460 | 147,631   | .....  | .....  | .....   | .....   | 71,118  | 76,513  | 65,355 61    | 27,949 77    | 16,754 63    | 110,060 01     |
| Glenburn.....         | 26,816  | 13,873  | 58,526  | 99,215    | 11,151 | 6,249  | 17,165  | 34,565  | 107,263 | 26,517  | 77,681 73    | 25,994 07    | 8,712 04     | 112,387 84     |
| Antioch.....          | 4,029   | 2,068   | 25,644  | 31,732    | .....  | .....  | 5,284   | 25,833  | 41,533  | 16,032  | 35,653 77    | 16,745 25    | 8,339 99     | 60,739 01      |
| Tower Hill.....       | 31,962  | 12,913  | 1,503   | 46,378    | 10,108 | 4,019  | 704     | 14,881  | 37,891  | 23,318  | 30,127 95    | 15,451 81    | 7,542 73     | 53,122 49      |
| Green Valley.....     | 26,881  | 24,343  | 35,162  | 86,386    | .....  | .....  | .....   | .....   | 39,071  | 47,315  | 45,154 35    | 19,877 70    | 10,205 20    | 75,237 25      |
| Lattis Creek No. 1 .. | 44,609  | 27,719  | 36,633  | 108,961   | 44     | .....  | 13      | 67      | 62,323  | 46,695  | 60,289 94    | 28,547 39    | 16,354 70    | 105,192 03     |
| Atlas No. 1.....      | 8,337   | 12,815  | 54,326  | 75,478    | 3,873  | .....  | 14,214  | 18,087  | 76,417  | 17,148  | 54,879 32    | 15,664 50    | 14,535 33    | 85,079 15      |
| Letsinger.....        | 10,369  | 4,592   | 3,364   | 18,325    | .....  | .....  | 1,646   | 1,646   | 12,038  | 7,933   | 15,020 72    | 9,523 17     | 14,144 40    | 38,688 29      |
| North Western ....    | 3,206   | 5,173   | 17,798  | 26,177    | 238    | 741    | 5,429   | 6,408   | 21,694  | 10,891  | 14,968 13    | 11,654 99    | 7,799 80     | 34,422 92      |
| Twin.....             | 1,253   | 834     | 528     | 2,615     | 3,092  | 1,236  | 402     | 4,730   | 4,730   | 2,615   | 3,452 65     | 2,989 50     | 1,690 65     | 8,132 80       |
| Atlas No. 2.....      | .....   | .....   | 4,892   | 4,892     | .....  | .....  | 115     | 115     | 5,007   | .....   | 4,057 69     | 2,572 67     | 3,809 68     | 10,440 04      |
| Total.....            | 325,818 | 168,728 | 668,412 | 1,162,958 | 91,951 | 41,781 | 153,903 | 287,635 | 836,870 | 613,723 | \$766,178 94 | \$312,587 83 | \$178,710 24 | \$1,257,477 01 |

## PARKE COUNTY.

|                   |       |       |        |        |       |       |        |        |        |        |             |             |            |             |
|-------------------|-------|-------|--------|--------|-------|-------|--------|--------|--------|--------|-------------|-------------|------------|-------------|
| Lyford No. 1..... | 7,560 | 3,138 | 11,382 | 22,080 | ..... | ..... | 16,974 | 16,974 | 6,492  | 32,562 | \$16,355 88 | \$14,017 64 | 5,336 76   | 35,710 28   |
| Parke No. 11..... | ..... | ..... | 25,749 | 25,749 | ..... | ..... | 24,864 | 24,864 | 46,399 | 4,214  | 27,852 12   | 7,969 02    | 4,587 06   | 40,408 20   |
| Total.....        | 7,560 | 3,138 | 37,131 | 47,829 | ..... | ..... | 41,838 | 41,838 | 52,891 | 36,776 | \$44,208 00 | \$21,986 66 | \$9,923 82 | \$76,118 48 |

## BITUMINOUS MACHINE MINES—Continued.

## SULLIVAN COUNTY.

REPORT OF STATE GEOLOGIST.

| NAME OF MINE.           | MACHINE MINED.         |                        |                   |   | PICK MINED.            |                        |                   |   | DISTRIBUTION. |               | WAGES PAID.  |                    |                     |                |
|-------------------------|------------------------|------------------------|-------------------|---|------------------------|------------------------|-------------------|---|---------------|---------------|--------------|--------------------|---------------------|----------------|
|                         | Tons of Screened Coal. | Tons of Slack and Nut. | Tons of Mine-Run. | Total Tons of all Kinds of Coal Produced. | Tons of Screened Coal. | Tons of Slack and Nut. | Tons of Mine-Run. | Total Tons of all Kinds of Coal Produced. | Indiana.      | Other States. | To Miners.   | To Inside Day Men. | To Outside Day Men. | Total Wages.   |
| Bunker Hill.....        | 17,884                 | 5,960                  | 5,019             | 28,863                                    | 16,912                 | 7,745                  | 1,183             | 25,840                                    | .....         | 54,703        | \$34,702 86  | \$18,918 00        | \$7,993 68          | \$61,614 54    |
| Caledonia.....          | 21,846                 | 10,768                 | 4,342             | 36,956                                    | 15,691                 | 5,282                  | 7,104             | 28,077                                    | 8,710         | 56,323        | 35,502 95    | 18,434 61          | 9,867 56            | 63,805 12      |
| Dugger.....             | 27,281                 | 9,429                  | 31,700            | 68,410                                    | 2,336                  | 778                    | 2,575             | 5,689                                     | 19,524        | 54,575        | 36,879 80    | 27,756 73          | 9,366 32            | 74,002 85      |
| Green Hill.....         | 25,386                 | 11,826                 | 3,034             | 40,246                                    | 1,584                  | 646                    | .....             | 2,230                                     | 520           | 41,956        | 20,368 81    | 17,676 83          | 6,509 79            | 44,496 43      |
| Hymers No. 1.....       | 60,719                 | 45,082                 | 50,591            | 156,392                                   | .....                  | .....                  | .....             | .....                                     | 41,402        | 114,990       | 71,948 63    | 28,578 04          | 14,734 34           | 115,260 91     |
| Jackson Hill No. 2..... | 89,071                 | 64,659                 | 42,685            | 196,415                                   | .....                  | .....                  | .....             | .....                                     | 80,401        | 116,014       | 81,851 79    | 35,046 12          | 10,832 08           | 127,829 99     |
| Phoenix No. 3.....      | .....                  | 128,036                | 128,036           | .....                                     | .....                  | .....                  | .....             | .....                                     | 67,470        | 60,566        | 65,321 65    | 24,486 53          | 12,308 19           | 102,111 37     |
| Phoenix No. 5.....      | .....                  | 17,416                 | 17,416            | .....                                     | .....                  | .....                  | .....             | .....                                     | 9,000         | 8,416         | 10,093 00    | 3,889 00           | 1,443 00            | 15,075 00      |
| Sheilburn.....          | 10,288                 | 5,351                  | 195               | 15,834                                    | 2,064                  | 1,253                  | 27                | 3,334                                     | 9,955         | 9,213         | 10,707 82    | 8,136 30           | 1,597 35            | 28,841 47      |
| Star City.....          | 62,606                 | 36,167                 | 7,966             | 105,739                                   | 21,877                 | 11,079                 | 2,543             | 35,499                                    | 30,986        | 110,252       | 67,618 42    | 32,231 43          | 16,391 48           | 116,241 33     |
| Sun Flower.....         | 103,717                | 34,352                 | 1,763             | 139,832                                   | .....                  | .....                  | 15                | 15  | 32,815        | 107,032       | 71,333 61    | 7,143 90           | 13,518 90           | 91,896 41      |
| Glendora.....           | 76,901                 | 36,901                 | 49,966            | 163,768                                   | .....                  | .....                  | .....             | .....                                     | 58,774        | 104,994       | 79,628 44    | 35,571 10          | 18,446 95           | 133,646 49     |
| Hymers No. 2.....       | 61,611                 | 56,803                 | 34,356            | 152,770                                   | .....                  | .....                  | .....             | .....                                     | 24,061        | 128,709       | 69,301 10    | 21,928 55          | 12,470 77           | 103,700 42     |
| Wilfred No. 1.....      | 79,894                 | 34,873                 | 16,079            | 130,846                                   | .....                  | .....                  | .....             | .....                                     | 44,020        | 86,826        | 64,755 76    | 27,576 38          | 23,329 61           | 115,661 75     |
| Little Giant.....       | Tonnage not reported.  | .....                  | .....             | .....                                     | .....                  | .....                  | .....             | .....                                     | .....         | .....         | .....        | .....              | .....               | .....          |
| Cummins.....            | .....                  | 2,000                  | 2,000             | .....                                     | .....                  | .....                  | 1,300             | 1,300                                     | 2,000         | 1,300         | 2,500 00     | 1,500 00           | 1,045 00            | 5,045 00       |
| Mildred.....            | .....                  | 1,745                  | 1,745             | .....                                     | .....                  | .....                  | .....             | .....                                     | 1,745         | .....         | 851 35       | 1,052 90           | 1,047 50            | 2,951 75       |
| West Linton.....        | .....                  | 280                    | 280               | .....                                     | .....                  | .....                  | 546               | 546                                       | 826           | .....         | 530 51       | 370 00             | 986 01              | 1,896 52       |
| Total.....              | 637,204                | 351,171                | 397,173           | 1,385,548                                 | 60,454                 | 26,783                 | 15,293            | 102,530                                   | 432,209       | 1,055,869     | \$723,827 40 | \$310,146 42       | \$166,083 53        | \$1,200,067 35 |



# VIGO COUNTY.

|                   |        |        |         |         |        |        |        |         |         |         |              |             |             |              |
|-------------------|--------|--------|---------|---------|--------|--------|--------|---------|---------|---------|--------------|-------------|-------------|--------------|
| Atherton.....     | 25,776 | 13,536 | 401     | 39,713  | 12,155 | 9,217  | 166    | 21,538  | 573     | 60,678  | \$30,773 76  | \$7,115 59  | \$6,291 57  | \$44,180 92  |
| Lawton.....       | 2,353  | 1,567  |         | 3,920   | 50,925 | 25,278 | 21,156 | 97,359  | 97,359  | 3,920   | 65,561 70    | 17,471 80   | 7,588 20    | 90,621 70    |
| Glen Oak.....     |        |        | 165,115 | 165,115 |        |        | 4,938  | 4,938   |         | 170,053 | 83,897 72    | 45,967 59   | 15,853 31   | 145,718 62   |
| Parke No. 10..... | 26,308 | 19,969 | 100,711 | 146,988 |        |        |        |         | 120,865 | 26,123  | 70,062 10    | 25,861 07   | 12,447 12   | 108,370 29   |
| Nickel Plate..... |        |        |         |         |        |        |        |         |         |         |              |             |             |              |
| Total.....        | 54,437 | 35,072 | 266,227 | 355,736 | 63,080 | 34,495 | 26,260 | 123,835 | 218,797 | 260,774 | \$250,295 28 | \$96,416 05 | \$42,180 20 | \$388,891 53 |

# WARRICK COUNTY.

|  |           |         |           |           |         |         |         |         |           |           |                |              |              |                |
|--|-----------|---------|-----------|-----------|---------|---------|---------|---------|-----------|-----------|----------------|--------------|--------------|----------------|
| Big Four.....                                  |           |         | 96,231    | 96,231    |         |         |         |         | 50,309    | 45,922    | \$42,117 47    | \$8,256 84   | \$5,770 27   | \$56,144 58    |
| Big Vein No. 3.....                            |           |         | 74,003    | 74,003    |         |         |         |         | 74,003    |           | 36,615 55      | 6,049 90     | 5,180 75     | 47,846 20      |
| Electric.....                                  | 8,005     | 3,686   | 19,622    | 31,313    |         |         |         |         | 10,160    | 21,153    | 13,931 39      | 4,186 22     | 2,774 54     | 20,892 15      |
| Total.....                                     | 8,005     | 3,686   | 189,856   | 201,547   |         |         |         |         | 134,472   | 67,075    | \$92,664 41    | \$18,492 96  | \$13,725 56  | \$124,882 93   |
| Total Bituminous<br>Machine Mined<br>Coal..... | 1,083,664 | 574,185 | 1,558,799 | 3,216,648 | 294,695 | 134,777 | 237,294 | 666,766 | 1,725,195 | 2,158,219 | \$1,988,760 86 | \$819,584 16 | \$427,538 06 | \$3,235,883 02 |
| Total Machine<br>Mined Block Coal              | 156,405   | 31,025  |           | 187,430   | 91,436  | 18,824  |         | 110,260 | 50,435    | 247,255   | 226,448 74     | 152,050 97   | 55,805 26    | 434,304 97     |
| Total Machine<br>Mined.....                    | 1,240,069 | 605,210 | 1,558,799 | 3,404,078 | 386,131 | 153,601 | 237,294 | 777,026 | 1,775,630 | 2,405,474 | \$2,215,209 60 | \$971,635 13 | \$483,343 26 | \$3,670,187 99 |

## BLOCK COAL—HAND OR PICK MINES.

## CLAY COUNTY.

| NAME OF MINE.          | PRODUCTION.            |                             |                        |   | 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. | Indiana.      | Other States. | To Miners.   | To Inside Day Men. | To Outside Day Men. | Total Wages Paid. |
| Continental No. 1..... | 6,957                  | 1,685                       |                        | 8,642                                     |               | 8,642         | \$9,402 57   | \$3,609 03         | \$2,018 99          | \$15,030 59       |
| Gart No. 5.....        | 3,754                  | 745                         |                        | 4,499                                     | 2,794         | 1,705         | 3,915 25     | 887 67             | 909 76              | 5,712 68          |
| Gart No. 7.....        | 28,075                 | 5,630                       |                        | 33,705                                    | 19,581        | 14,124        | 38,425 40    | 13,019 03          | 6,916 68            | 58,361 11         |
| Rebstock.....          | 2,065                  | 500                         |                        | 2,565                                     | 740           | 1,825         | 3,006 64     | 1,016 99           | 1,204 52            | 5,228 15          |
| Lawrence No. 6.....    | 45,563                 | 10,700                      |                        | 56,263                                    | 32,222        | 24,041        | 46,835 91    | 9,422 13           | 5,894 36            | 62,152 40         |
| Lawrence No. 7.....    | 46,759                 | 11,768                      | 1,421                  | 59,948                                    | 34,130        | 25,818        | 58,431 66    | 18,986 08          | 10,511 53           | 87,929 27         |
| Cornwell.....          | 31,614                 | 6,136                       |                        | 37,750                                    | 37,750        |               | 33,219 43    | 10,549 91          | 4,442 27            | 48,211 61         |
| Crawford No. 2.....    | 29,491                 | 8,095                       | 765                    | 38,351                                    | 18,645        | 19,706        | 30,674 59    | 7,008 83           | 4,732 97            | 42,416 39         |
| Crawford No. 3.....    | 13,478                 | 2,430                       |                        | 15,908                                    | 6,240         | 9,668         | 13,122 18    | 2,752 05           | 1,895 84            | 17,770 07         |
| Crawford No. 6.....    | 20,571                 | 6,445                       | 263                    | 27,279                                    | 13,453        | 13,826        | 25,148 99    | 5,896 25           | 3,688 81            | 34,734 05         |
| Crawford No. 7.....    | 33,389                 | 7,919                       |                        | 41,308                                    | 22,171        | 19,137        | 35,388 02    | 10,623 59          | 5,912 39            | 51,924 00         |
| Eureka No. 2.....      | 857                    | 100                         |                        | 957                                       | 275           | 682           | 887 05       | 609 55             | 525 25              | 2,021 85          |
| Eureka No. 3.....      | 13,475                 | 1,477                       | 601                    | 15,553                                    | 4,752         | 10,801        | 12,715 90    | 6,414 15           | 5,309 25            | 24,439 30         |
| Pratt.....             | 6,991                  | 1,515                       | 672                    | 9,178                                     | 8,107         | 71            | 7,084 30     | 3,065 45           | 1,532 60            | 11,682 35         |
| Monarch.....           |                        |                             | 9,244                  | 9,244                                     | 9,244         |               | See note     | 13,262 29          | 2,168 35            | 15,430 64         |
| Rob Roy.....           | Not reported           |                             |                        |   |               |               |              |                    |                     |                   |
| Crawford No. 5.....    | 22,648                 | 6,384                       | 9,312                  | 38,344                                    | 20,210        | 18,134        | 34,524 37    | 9,071 98           | 5,086 38            | 48,682 73         |
| Total.....             | 305,687                | 71,529                      | 22,278                 | 399,494                                   | 231,314       | 168,180       | \$352,782 26 | \$116,194 98       | \$62,749 95         | \$531,727 19      |

# PARKE COUNTY.

|                    |         |         |        |         |         |         |              |              |              |              |
|--------------------|---------|---------|--------|---------|---------|---------|--------------|--------------|--------------|--------------|
| J Crawford No. 10  | 13,368  | 1,985   | .....  | 15,353  | 994     | 14,359  | \$13,055 52  | \$4,138 91   | \$2,235 23   | \$19,429 66  |
| Superior No. 1     | 69,235  | 16,930  | 160    | 86,585  | 21,330  | 65,055  | 74,317 47    | 18,214 79    | 10,396 46    | 102,928 72   |
| Superior No. 2     | 48,917  | 11,980  | 773    | 61,670  | 25,130  | 36,540  | 52,408 98    | 21,063 31    | 11,596 45    | 85,063 74    |
| Superior No. 3     | 35,158  | 8,605   | .....  | 43,763  | 12,178  | 31,585  | 43,922 53    | 10,281 84    | 5,757 91     | 59,962 28    |
| Pan American       | 68,907  | 10,545  | 933    | 75,285  | 24,850  | 50,435  | 73,506 30    | 21,936 20    | 7,614 20     | 103,066 70   |
| Brazil Block No. 9 | 38,580  | 7,720   | .....  | 46,300  | 5,267   | 41,033  | 44,243 04    | 15,512 39    | 6,707 30     | 66,462 73    |
| Total              | 289,125 | 57,765  | 1,866  | 328,756 | 89,749  | 239,007 | \$301,448 84 | \$91,147 44  | \$44,307 55  | \$436,903 83 |
| Total Pick Mined   | 574,812 | 129,294 | 24,144 | 728,250 | 321,063 | 407,187 | \$654,231 10 | \$207,342 42 | \$107,057 50 | \$968,631 02 |

## BITUMINOUS PICK MINES.

### CLAY COUNTY.

|                 |         |         |        |         |         |         |              |             |             |              |
|-----------------|---------|---------|--------|---------|---------|---------|--------------|-------------|-------------|--------------|
| Cloverland No 1 | 91,546  | 33,015  | 33,480 | 158,041 | 85,612  | 72,428  | \$104,755 58 | \$26,313 30 | \$13,334 88 | \$144,403 76 |
| Fair View       | 1,626   | 1,549   | .....  | 3,175   | 1,707   | 1,468   | 2,223 16     | 1,033 65    | 1,062 45    | 4,319 26     |
| Fortner         | 15,652  | 6,725   | 5,762  | 28,139  | 21,253  | 6,886   | 18,583 46    | 4,224 10    | 1,961 57    | 24,769 13    |
| Klondyke        | 40,221  | 19,852  | 18,069 | 78,142  | 72,968  | 5,174   | 45,660 45    | 12,317 97   | 5,790 58    | 63,769 00    |
| Glen            | 46,183  | 12,805  | .....  | 58,988  | 21,050  | 37,938  | 47,381 75    | 9,355 35    | 4,600 50    | 61,337 60    |
| Pearl           | 58,471  | 36,269  | 2,122  | 96,862  | 57,832  | 39,030  | 56,745 24    | 13,796 20   | 6,251 55    | 76,792 99    |
| Silverwood      | 16,149  | 9,910   | .....  | 26,059  | 14,499  | 11,560  | 16,645 60    | 6,362 70    | 4,125 70    | 27,134 00    |
| Cloverland No 2 | 7,743   | 2,540   | .....  | 10,283  | 1,700   | 8,583   | 11,659 00    | 2,754 58    | 1,216 71    | 15,630 29    |
| Lewis           | .....   | .....   | 2,446  | 2,446   | 312     | 2,134   | 1,100 00     | 921 19      | 1,455 61    | 3,476 80     |
| Total           | 277,591 | 122,665 | 61,879 | 462,135 | 276,934 | 185,201 | \$304,754 24 | \$77,079 04 | \$39,799 55 | \$421,632 83 |

### DAVIESS COUNTY.

|                         |         |        |        |         |         |        |              |             |             |              |
|-------------------------|---------|--------|--------|---------|---------|--------|--------------|-------------|-------------|--------------|
| Cabel No. 4             | 2,892   | 1,205  | .....  | 4,097   | 4,097   | .....  | \$2,978 77   | \$854 10    | \$916 75    | \$4,749 62   |
| Cabel No. 3             | 7,147   | 3,754  | .....  | 10,901  | 22,277  | 7,147  | 16,918 80    | 8,554 40    | 3,909 95    | 26,383 15    |
| Montgomery Nos. 2 and 3 | 93,008  | 13,319 | 9,942  | 116,269 | 75,996  | 40,273 | 83,383 20    | 25,268 00   | 11,986 64   | 120,637 84   |
| Mutual                  | 12,985  | 1,750  | 12,137 | 26,872  | 14,850  | 12,022 | 19,776 90    | 5,000 50    | 3,055 00    | 27,832 40    |
| Union                   | .....   | .....  | 8,494  | 8,494   | 8,494   | .....  | 5,319 18     | 1,500 00    | 787 53      | 7,096 75     |
| Mandabach               | 175     | 119    | 3,250  | 3,535   | 3,535   | .....  | 1,636 20     | 212 34      | 185 20      | 2,033 74     |
| Wheatland               | 187     | 150    | 2,131  | 2,468   | 2,363   | 105    | 1,400 00     | 1,023 75    | 684 87      | 5,108 62     |
| Total                   | 116,394 | 20,288 | 54,477 | 191,159 | 131,612 | 59,547 | \$131,413 05 | \$42,503 13 | \$21,525 94 | \$195,442 12 |

BITUMINOUS PICK MINES—Continued.

FOUNTAIN COUNTY.

| NAME OF MINE.   | PRODUCTION.                 |                                |                            |   | DISTRIBUTION. |               | WAGES.     |                       |                        |                      |
|-----------------|-----------------------------|--------------------------------|----------------------------|---|---------------|---------------|------------|-----------------------|------------------------|----------------------|
|                 | Tons of Screen-<br>ed Coal. | Tons of Slack<br>and Nut Coal. | Tons of Mine-<br>Run Coal. | Total Tons of all<br>Kinds of Coal<br>Produced. | Indiana.      | Other States. | To Miners. | To Inside Day<br>Men. | To Outside Day<br>Men. | Total Wages<br>Paid. |
| Diamond.....    | 349                         | 90                             | 208                        | 647   | 622           | 25            | \$367 33   | \$285 47              | \$156 10               | \$808 90             |
| Rush.....       | 4,070                       | 1,460                          | 9,933                      | 15,463  | 15,463        | .....         | 8,661 00   | 1,461 00              | 1,294 00               | 11,416 00            |
| Silverwood..... | 245                         | 90                             | 175                        | 510   | 450           | 60            | .....      | 784 90                | 326 39                 | 1,111 29             |
| Total.....      | 4,664                       | 1,640                          | 10,316                     | 16,620  | 16,535        | 85            | \$9,028 33 | \$2,531 37            | \$1,776 49             | \$13,336 19          |

GIBSON COUNTY.

|             |        |        |        |        |        |       |             |             |             |             |
|-------------|--------|--------|--------|--------|--------|-------|-------------|-------------|-------------|-------------|
| Oswald..... | 13,005 | 13,261 | 20,434 | 46,700 | 40,866 | 5,834 | \$24,854 19 | \$15,609 54 | \$10,769 33 | \$51,233 06 |
| Total.....  | 13,005 | 13,261 | 20,434 | 46,700 | 40,866 | 5,834 | \$24,854 19 | \$15,609 54 | \$10,769 33 | \$51,233 06 |

GREENE COUNTY.

|                          |        |        |         |         |         |        |             |             |            |             |
|--------------------------|--------|--------|---------|---------|---------|--------|-------------|-------------|------------|-------------|
| Island No. 3.....        | .....  | .....  | 92,574  | 92,574  | 7,574   | 85,000 | \$54,252 86 | \$18,100 55 | \$8,432 24 | \$80,785 65 |
| Island Valley No. 3..... | 42,528 | 21,754 | 63,306  | 127,588 | 81,873  | 45,715 | 74,244 34   | 19,845 46   | 8,100 13   | 102,189 93  |
| Island Valley No. 2..... | 21,634 | 14,264 | .....   | 35,898  | 21,686  | 14,212 | 19,600 80   | 8,910 92    | 4,850 59   | 33,362 31   |
| South Linton.....        | 33,505 | 18,556 | 102,712 | 154,773 | 93,763  | 61,010 | 93,616 87   | 23,512 01   | 7,786 47   | 124,915 35  |
| Vulcan.....              | 2,756  | 1,116  | 4,280   | 8,152   | 201     | 7,951  | 5,009 33    | 1,033 50    | 1,511 57   | 7,554 40    |
| Templeton.....           | 9,933  | 4,410  | 99,897  | 114,240 | 114,240 | .....  | 65,984 80   | 17,100 55   | 8,256 06   | 91,341 40   |

|                    |         |        |         |         |         |         |              |              |             |              |
|--------------------|---------|--------|---------|---------|---------|---------|--------------|--------------|-------------|--------------|
| Victoria .....     | 27,810  | 25,422 | 169,838 | 223,070 | 210,616 | 12,454  | 132,104 88   | 19,921 67    | 10,564 60   | 162,591 15   |
| Fry .....          |         |        | 14,464  | 14,464  | 14,464  |         | 12,785 82    | 4,540 53     | 2,033 35    | 19,359 70    |
| Island No. 5 ..... |         |        | 5,439   | 5,439   | 5,439   |         | 4,741 10     | 2,213 45     | 1,513 94    | 8,468 49     |
| Total .....        | 138,166 | 85,522 | 552,510 | 776,198 | 549,856 | 228,342 | \$462,340 80 | \$115,178 64 | \$53,048 94 | \$630,568 38 |

## KNOX COUNTY.

|                     |           |        |        |         |         |        |             |             |             |              |
|---------------------|-----------|--------|--------|---------|---------|--------|-------------|-------------|-------------|--------------|
| Bicknell .....      | 20,222    | 17,421 | 20,838 | 58,481  | 57,706  | 775    | \$29,846 92 | \$8,530 96  | \$6,009 66  | \$44,387 54  |
| Edwardsport .....   | 22        | 75     | 6,707  | 6,804   | 6,804   |        | 4,256 94    | 1,171 95    | 797 65      | 6,226 54     |
| Knox .....          | 16,637    | 13,435 | 20,827 | 50,899  | 42,580  | 8,309  | 25,447 49   | 12,352 05   | 5,381 85    | 43,181 39    |
| Lynn .....          |           |        | 12,456 | 12,486  | 11,467  | 1,019  | 7,825 60    | 1,556 47    | 1,570 93    | 10,953 00    |
| Prospect Hill ..... | 3,694     | 2,581  | 3,004  | 9,279   | 9,279   |        | 11,419 97   | 4,506 99    | 1,916 18    | 17,843 14    |
| Enterprise .....    | No report |        |        |         |         |        |             |             |             |              |
| Total .....         | 40,575    | 33,512 | 63,862 | 137,949 | 127,846 | 10,103 | \$78,796 92 | \$28,118 42 | \$15,676 27 | \$122,591 61 |

## PARKE COUNTY.

|                      |         |        |         |         |         |        |              |              |             |              |
|----------------------|---------|--------|---------|---------|---------|--------|--------------|--------------|-------------|--------------|
| C. B. Harrison ..... | 395     | 130    | 3,971   | 4,496   | 4,496   |        | \$2,323 30   | \$719 50     | \$412 00    | 3,454 80     |
| W. P. Harrison ..... |         |        | 10,990  | 10,990  | 10,990  |        | 6,011 50     | 2,536 40     | 1,240 00    | 9,787 90     |
| Cox No. 3 .....      |         |        | 97,459  | 97,459  | 82,769  | 14,690 | 58,106 05    | 27,905 35    | 10,268 23   | 96,279 63    |
| Lucia .....          | 18,412  | 7,681  | 31,050  | 57,143  | 37,106  | 20,027 | 35,442 72    | 13,213 73    | 7,873 39    | 56,529 84    |
| Mecca No. 1 .....    | 11,882  | 11,411 | 2,350   | 35,643  | 8,154   | 27,489 | 22,700 20    | 11,473 69    | 6,073 86    | 40,247 75    |
| New Century .....    | 18,768  | 9,990  | 7,885   | 36,643  | 11,995  | 24,648 | 23,053 41    | 8,429 62     | 4,740 37    | 36,223 40    |
| Minshal No. 1 .....  | 90,298  | 18,066 | 19,930  | 128,284 | 128,284 |        | 102,016 28   | 28,212 82    | 11,330 18   | 141,559 28   |
| Briar Hill .....     |         |        | 22,162  | 22,162  | 22,162  |        | 18,194 04    | 7,002 48     | 3,716 41    | 28,912 93    |
| Minshal No. 2 .....  | 656     | 189    | 103     | 948     | 143     | 805    | 528 42       | 874 18       | 471 17      | 1,573 77     |
| Total .....          | 150,411 | 47,457 | 195,900 | 393,768 | 306,099 | 87,669 | \$268,375 92 | \$100,367 77 | \$46,125 61 | \$414,869 30 |

## PERRY COUNTY.

|                 |     |    |        |        |        |  |            |            |            |             |
|-----------------|-----|----|--------|--------|--------|--|------------|------------|------------|-------------|
| Troy .....      |     |    | 10,630 | 10,630 | 10,630 |  | \$7,139 99 | \$1,914 69 | \$1,632 92 | \$10,587 60 |
| Cannelton ..... | 273 | 84 | 133    | 490    | 490    |  | 272 75     | 155 00     | 100 09     | 527 75      |
| Total .....     | 273 | 84 | 10,763 | 11,120 | 11,120 |  | \$7,412 74 | \$2,069 69 | \$1,632 92 | \$11,115 35 |

BITUMINOUS PICK MINES—Continued.

PIKE COUNTY.

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REPORT OF STATE GEOLOGIST.

| NAME OF MINE.       | PRODUCTION.            |                             |                        |   | 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. | Indiana.      | Other States. | To Miners.   | To Inside Day Men. | To Outside Day Men. | Total Wages Paid. |
| Massey.....         | 4,179                  | 2,910                       | 10,590                 | 17,679                                    | 16,501        | 1,178         | \$13,687 03  | \$4,508 04         | \$2,590 49          | \$20,785 56       |
| Aberdeen.....       | 2,984                  | 2,450                       | 14,756                 | 20,190                                    | 5,853         | 14,337        | 11,719 07    | 4,138 41           | 2,575 81            | 18,433 29         |
| Ayrshire No. 3..... | 26,158                 | 16,407                      | 10,809                 | 53,174                                    | 35,518        | 17,656        | 27,854 36    | 14,079 17          | 7,186 80            | 49,120 33         |
| Ayrshire No. 4..... | 31,241                 | 11,873                      | 47,260                 | 90,374                                    | 53,428        | 36,946        | 55,862 34    | 15,243 60          | 7,641 25            | 78,747 19         |
| Ayrshire No. 5..... | 179                    | 192                         | 5,050                  | 5,421                                     | 4,176         | 1,245         | 2,848 23     | 1,053 22           | 790 82              | 4,692 27          |
| Ayrshire No. 6..... | No report.             |                             |                        |   |               |               |              |                    |                     |                   |
| Blackburn.....      | 629                    | 791                         | 31,248                 | 32,668                                    | 30,382        | 2,286         | 18,316 04    | 7,078 81           | 3,768 75            | 29,163 60         |
| Hartwell.....       | 3,117                  | 1,911                       | 45,479                 | 50,507                                    | 42,025        | 8,482         | 33,016 31    | 12,414 63          | 8,035 44            | 53,466 38         |
| Little's.....       | 33,252                 | 45,472                      | 22,335                 | 101,059                                   | 81,936        | 19,123        | 58,344 09    | 17,294 22          | 6,782 80            | 82,421 11         |
| Rogers.....         |                        |                             | 2,670                  | 2,670                                     |               |               | 1,375 65     | 636 03             | 158 36              | 2,170 04          |
| Petersburg.....     |                        |                             | 36,150                 | 36,150                                    | 33,486        | 2,664         | 22,754 69    | 7,176 90           | 3,235 75            | 33,167 34         |
| Carbon.....         | 2,114                  | 1,833                       | 8,274                  | 12,221                                    | 7,917         | 4,304         | 7,542 54     | 4,035 43           | 1,939 88            | 13,517 85         |
| Winslow.....        | 22,363                 | 16,743                      | 23,019                 | 62,115                                    | 62,115        |               | 38,724 96    | 18,048 21          | 7,473 86            | 64,247 03         |
| Total.....          | 126,206                | 100,582                     | 257,440                | 484,228                                   | 376,007       | 108,221       | \$292,045 31 | \$105,706 67       | \$52,180 01         | \$449,931 99      |

SULLIVAN COUNTY.

|                       |              |       |        |        |        |        |             |             |            |             |
|-----------------------|--------------|-------|--------|--------|--------|--------|-------------|-------------|------------|-------------|
| White Ash.....        | 3,640        | 1,605 | 41,232 | 46,477 | 30,887 | 15,590 | \$28,411 83 | \$8,756 49  | \$4,874 97 | \$42,043 29 |
| Freeman.....          | 8,342        | 3,640 | 1,955  | 13,937 | 4,890  | 9,547  | 10,799 49   | 2,805 65    | 2,996 72   | 16,601 86   |
| Island No. 4.....     | Not reported |       |        |        |        |        |             |             |            |             |
| Lablance.....         |              |       | 2,259  | 2,259  | 2,259  |        | 400 00      | 205 00      | 1,336 00   | 1,941 00    |
| Citizens.....         | 470          | 450   | 350    | 1,270  | 1,270  |        | 1,054 44    | 243 20      | 247 70     | 1,545 34    |
| Bruliettes No. 6..... |              |       | 1,317  | 1,317  |        | 1,317  | 2,248 15    |             |            | 2,248 15    |
| Total.....            | 12,452       | 5,695 | 47,113 | 65,260 | 38,806 | 26,454 | \$12,913 91 | \$12,610 34 | \$9,455 39 | \$64,379 64 |

# VANDEBURGH COUNTY.

|                   |              |        |         |         |         |        |              |             |             |              |
|-------------------|--------------|--------|---------|---------|---------|--------|--------------|-------------|-------------|--------------|
| Diamond.....      | 13,872       | 8,908  | 10,066  | 32,846  | 31,435  | 1,411  | \$20,740 27  | \$4,556 34  | \$3,800 53  | \$29,097 14  |
| First Avenue..... | 3,236        | 2,487  | 1,944   | 7,667   | 6,989   | 678    | 5,390 25     | 1,380 25    | 1,256 90    | 8,026 40     |
| Ingleside.....    | Not reported |        |         |         |         |        |              |             |             |              |
| Sunny Side.....   | 9,006        | 16,823 | 27,828  | 53,657  | 27,076  | 26,581 | 29,335 06    | 15,279 49   | 7,085 09    | 51,689 64    |
| Union.....        | 10,409       | 5,216  | 10,409  | 26,034  | 26,034  |        | 20,226 60    | 4,454 55    | 3,510 40    | 28,191 55    |
| Unity.....        | 21,451       | 1,000  | 61,993  | 84,444  | 84,444  |        | 58,500 10    | 9,865 05    | 7,355 90    | 75,721 05    |
| Total.....        | 57,974       | 34,434 | 112,240 | 204,648 | 175,978 | 28,670 | \$134,192 28 | \$35,535 68 | \$23,007 82 | \$192,735 78 |

# VERMILLION COUNTY.

|                        |         |         |         |         |        |         |              |              |             |              |
|------------------------|---------|---------|---------|---------|--------|---------|--------------|--------------|-------------|--------------|
| Bruiliettes No. 3..... | 5,524   | 10,003  | 96,076  | 111,603 | 16,238 | 95,365  | \$58,952 80  | \$15,086 25  | \$10,070 85 | \$84,109 90  |
| Bruiliettes No. 4..... | 502     | 308     | 11,848  | 12,658  | 3,178  | 9,480   | 6,207 35     | 1,989 55     | 685 30      | 8,882 20     |
| Bruiliettes No. 5..... | 52,455  | 30,323  | 86,712  | 169,490 | 25,593 | 143,897 | 99,973 92    | 21,306 15    | 8,736 20    | 130,016 27   |
| Buckeye.....           | 17,302  | 9,572   | 16,698  | 43,572  |        | 43,572  | 25,311 16    | 10,021 37    | 6,639 50    | 41,972 03    |
| Bureka.....            |         |         | 10,007  | 10,007  | 10,007 |         | 7,200 74     | 3,489 66     | 1,854 39    | 12,544 79    |
| Crown Hill No. 1.....  | 65,956  | 32,087  | 59,454  | 157,497 | 12,498 | 145,000 | 89,346 11    | 17,182 00    | 6,188 00    | 112,716 11   |
| Crown Hill No. 2.....  |         |         | 5,425   | 5,425   | 1,515  | 3,910   | 2,200 00     | 2,925 33     | 1,308 87    | 6,434 20     |
| Oak Hill.....          | 36,143  | 21,050  | 80,344  | 137,557 |        | 137,557 | 79,739 82    | 22,839 97    | 11,380 60   | 113,960 39   |
| Prince.....            |         |         | 174,862 | 174,862 | 1,354  | 173,508 | 97,677 10    | 27,778 08    | 9,625 88    | 135,081 06   |
| Willow Grove.....      | 18,319  | 6,725   | 81,673  | 106,717 | 4,492  | 102,225 | 65,161 29    | 10,049 19    | 8,695 53    | 83,906 01    |
| Rhoades.....           | 334     | 160     | 12,283  | 12,777  |        | 494     | 7,058 78     | 7,403 66     | 4,362 37    | 18,824 81    |
| Total.....             | 196,535 | 110,228 | 635,402 | 942,165 | 87,157 | 855,008 | \$538,829 07 | \$140,071 21 | \$69,547 49 | \$748,447 77 |

# VIGO COUNTY.

|                    |         |        |        |         |        |         |            |            |           |            |
|--------------------|---------|--------|--------|---------|--------|---------|------------|------------|-----------|------------|
| Brick Works.....   |         |        | 6,470  | 6,470   | 6,470  |         | \$4,071 67 | \$1,776 79 | \$726 92  | \$6,575 38 |
| Chicago No. 6..... | 24,435  | 9,762  | 197    | 34,394  | 5,566  | 28,828  | 25,528 98  | 8,123 52   | 3,561 92  | 37,214 42  |
| Diamond.....       | 54,373  | 24,080 | 16,177 | 96,630  | 96,630 |         | 63,327 05  | 24,607 80  | 9,567 75  | 97,502 60  |
| Peerless.....      | 35,177  | 18,965 | 6,010  | 60,152  |        | 60,152  | 41,428 55  | 14,183 40  | 7,089 75  | 62,701 70  |
| Union.....         | 30,935  | 8,345  | 41,545 | 80,825  | 80,825 |         | 49,955 15  | 16,841 90  | 10,225 30 | 77,022 35  |
| Ehrlich.....       | 14,524  | 9,236  |        | 23,760  | 22,952 | 808     | 13,404 47  | 5,978 10   | 3,613 70  | 22,986 27  |
| Grant No. 2.....   | 25,680  | 29,185 | 48,578 | 103,443 | 16,901 | 86,542  | 63,496 28  | 19,899 55  | 10,366 84 | 93,762 67  |
| Hector.....        | 28,251  | 20,154 | 17,409 | 65,814  | 57,672 | 8,142   | 39,632 83  | 14,142 58  | 7,637 34  | 61,412 75  |
| Klondyke.....      | 29,166  | 23,530 | 42,744 | 95,440  | 6,482  | 88,958  | 47,543 15  | 15,964 05  | 6,140 10  | 69,647 30  |
| Miami No 1.....    | 114,706 | 31,360 | 3,494  | 149,560 |        | 149,560 | 142,253 12 | 19,324 48  | 7,293 94  | 168,871 54 |
| Nickle Plate.....  | 11,877  | 4,140  | 11,257 | 27,274  |        | 27,274  | 15,374 82  | 5,600 78   | 2,560 79  | 23,536 39  |

# BITUMINOUS PICK MINES—Continued.

## VIGO COUNTY—Continued.

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REPORT OF STATE GEOLOGIST.

| NAME OF MINE.           | PRODUCTION.                 |                                |                            |   | DISTRIBUTION. |               | WAGES.       |                       |                        |                      |
|-------------------------|-----------------------------|--------------------------------|----------------------------|---|---------------|---------------|--------------|-----------------------|------------------------|----------------------|
|                         | Tons of Screen-<br>ed Coal. | Tons of Slack<br>and Nut Coal. | Tons of Mine-<br>Run Coal. | Total Tons of all<br>Kinds of Coal<br>Produced. | Indiana.      | Other States. | To Miners.   | To Inside Day<br>Men. | To Outside Day<br>Men. | Total Wages<br>Paid. |
| Ray .....               | 2,994                       | 2,778                          | 3,101                      | 8,873   | 2,957         | 5,916         | \$4,491 82   | \$945 18              | \$485 35               | \$5,922 35           |
| Redbird .....           | 12,456                      | 12,420                         | 25,028                     | 49,903  | 49,903        |               | 23,243 98    | 4,957 82              | 2,950 16               | 31,151 46            |
| Rosebud No. 2 .....     | 85,657                      | 47,533                         | 17,838                     | 151,028   | 132,801       | 18,227        | 92,285 80    | 23,210 05             | 8,644 95               | 124,140 80           |
| Royal No. 1 .....       | 15,279                      | 8,462                          | 80,501                     | 104,242   | 101,445       | 2,797         | 62,614 37    | 14,442 38             | 4,890 15               | 81,946 90            |
| Larimer .....           |                             |                                | 12,249                     | 12,249  | 12,249        |               | 7,005 83     | 2,594 27              | 1,643 74               | 11,243 84            |
| Broadhurst .....        | 8,062                       | 8,081                          | 58,559                     | 74,802  | 45,872        | 28,930        | 32,675 63    | 6,009 01              | 4,253 43               | 42,938 07            |
| Miami No. 2 .....       | 2,044                       | 635                            | 16,205                     | 18,884  |               | 18,884        | 14,869 47    | 2,281 04              | 2,881 59               | 20,032 10            |
| Deep Vein .....         | 10,353                      | 7,298                          | 10,067                     | 27,718  | 25,480        | 2,238         | 16,502 34    | 5,053 79              | 2,743 87               | 24,300 00            |
| Greenfield No. 1 .....  | 15,914                      | 10,115                         | 10,186                     | 36,215  | 36,215        |               | 22,013 05    | 4,612 82              | 3,879 30               | 30,505 17            |
| Lost Creek .....        |                             |                                | 8,496                      | 8,496   | 1,290         | 7,206         | 5,291 15     | 2,093 21              | 1,734 59               | 9,118 95             |
| Sugar Creek No. 1 ..... | 619                         | 123                            | 241                        | 983   | 983           |               | 1,252 51     | 548 51                | 528 24                 | 2,327 26             |
| Total .....             | 522,501                     | 278,202                        | 436,452                    | 1,287,155                                       | 702,673       | 534,482       | \$788,262 02 | \$213,188 53          | \$103,419 72           | 1,104,870 27         |

## WARRICK COUNTY.

|                             |           |         |           |           |           |           |                |              |              |                |
|-----------------------------|-----------|---------|-----------|-----------|-----------|-----------|----------------|--------------|--------------|----------------|
| Air Line .....              | 9,905     | 4,635   | 11,530    | 26,070    | 8,590     | 17,540    | \$15,896 55    | \$2,844 50   | \$1,683 94   | \$20,424 99    |
| Caledonia .....             |           |         | 13,157    | 13,157    | 9,232     | 3,925     | 6,957 60       | 1,867 57     | 1,208 95     | 10,034 12      |
| Chandler .....              | 7,850     | 3,810   | 28,775    | 37,435    | 7,045     | 21,730    | 16,368 25      | 5,255 45     | 1,836 45     | 23,460 15      |
| DeForrest .....             | 5,220     | 3,055   | 4,540     | 12,815    | 12,815    |           | 7,118 35       | 1,200 21     | 791 06       | 8,109 62       |
| Star No. 1 .....            |           |         | 33,277    | 33,277    | 33,277    |           | 18,020 97      | 5,000 97     | 3,548 00     | 26,569 94      |
| Total .....                 | 22,775    | 11,500  | 79,819    | 114,094   | 70,899    | 43,195    | \$64,361 72    | \$16,168 70  | \$9,068 40   | \$89,598 82    |
| Total Hand Bituminous ..... | 1,679,522 | 865,070 | 2,538,607 | 5,083,199 | 2,912,388 | 2,170,811 | \$3,147,580 50 | \$906,138 73 | \$457,033 88 | \$4,510,753 11 |



# RECAPITULATION.

*Showing Total Production and Wages of Indiana Mines for 1903.*

REPORT OF STATE INSPECTOR OF MINES.

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|   | MACHINE MINED. |                |           |           | PICK MINED. |                |           |           | DISTRIBUTION. |               |                | WAGES.                      |                              |                |
|---|----------------|----------------|-----------|-----------|-------------|----------------|-----------|-----------|---------------|---------------|----------------|-----------------------------|------------------------------|----------------|
|   | Screened.      | Slack and Nut. | Mine-Run. | Total.    | Screened.   | Slack and Nut. | Mine-Run. | Total.    | Indiana.      | Other States. | Miners.        | Inside Day and Monthly Men. | Outside Day and Monthly Men. | Total.         |
| Total production block machine mines..... | 156,405        | 31,025         | .....     | 187,430   | 91,436      | 18,324         | .....     | 110,260   | 50,435        | 247,255       | \$226,448 74   | \$152,050 97                | \$55,805 26                  | \$434,304 97   |
| Total production block pick mines.....    | .....          | .....          | .....     | .....     | 574,812     | 129,294        | 24,144    | 728,250   | 321,063       | 407,187       | 654,231 10     | 207,342 42                  | 107,057 50                   | 968,631 02     |
| Total block...                            | 156,405        | 31,025         | .....     | 187,430   | 666,248     | 148,118        | 24,144    | 838,510   | 371,498       | 654,442       | \$880,679 84   | \$359,393 39                | \$162,862 76                 | \$1,402,935 99 |
| Total bituminous machine mines.....       | 1,083,664      | 574,185        | 1,558,799 | 3,216,648 | 294,695     | 134,777        | 237,294   | 666,766   | 1,725,195     | 2,158,219     | \$1,988,760 86 | \$819,584 16                | \$427,538 00                 | \$3,235,883 02 |
| Total bituminous pick mines.....          | .....          | .....          | .....     | .....     | 1,679,522   | 865,070        | 2,538,607 | 5,083,199 | 2,912,388     | 2,170,811     | 3,147,580 50   | 906,138 73                  | 457,033 88                   | 4,510,753 11   |
| Total bituminous.....                     | 1,083,664      | 574,185        | 1,558,799 | 3,216,648 | 1,974,217   | 999,847        | 2,775,901 | 5,749,965 | 4,637,583     | 4,329,030     | \$5,136,341 36 | \$1,725,722 89              | \$884,571 88                 | \$7,746,636 13 |
| Total machine mined.....                  | 1,240,069      | 605,210        | 1,558,799 | 3,404,078 | .....       | .....          | .....     | .....     | .....         | .....         | .....          | .....                       | .....                        | .....          |
| Total pick mined                          | 2,640,465      | 1,147,965      | 2,800,045 | 6,588,475 | .....       | .....          | .....     | .....     | .....         | .....         | .....          | .....                       | .....                        | .....          |
| Grand total...                            | 3,880,534      | 1,753,175      | 4,358,844 | 9,992,553 | .....       | .....          | .....     | .....     | .....         | .....         | \$6,017,021 20 | \$2,085,116 28              | \$1,047,434 64               | \$9,149,572 12 |

TABLE,

*Showing by Counties the Number of Kegs of Powder Used at the Mines During the Year 1903, also Price Per Keg to Miners, and Tons of Coal Produced Per Keg.*

| COUNTY.          | Tons.        | Kegs of Powder. | Tons per Keg. | Cost to Miner per Keg. |
|------------------|--------------|-----------------|---------------|------------------------|
| Clay.....        | 1,222,431    | 49,029          | 25            | \$1 75                 |
| Daviess.....     | 191,159      | 12,374          | 16            | 1 75                   |
| Fountain.....    | Not reported |                 |               |                        |
| Gibson.....      | 46,700       | 1,599           | 29            | 1 75                   |
| Greene.....      | 2,226,789    | 51,663          | 43            | 1 75                   |
| Knox.....        | 137,949      | 7,836           | 18            | 1 75                   |
| Parke.....       | 922,994      | 40,807          | 23            | 1 75                   |
| Pike.....        | 484,258      | 20,557          | 24            | 1 75                   |
| Perry.....       | 11,120       | 701             | 16            | 1 75                   |
| Sullivan.....    | 1,553,338    | 23,526          | 65            | 1 75                   |
| Vanderburgh..... | 204,648      | 6,880           | 30            | 1 75                   |
| Vermillion.....  | 942,165      | 32,796          | 29            | 1 75                   |
| Vigo.....        | 1,716,726    | 71,669          | 24            | 1 75                   |
| Warrick.....     | 315,641      | 8,383           | 38            | 1 75                   |
| Total.....       | 9,992,553    | 327,820         | 30            | \$373,685 00           |

TABLE,

*Showing Per Cent. in Gross Tons Produced, Gross Wages Paid, and Total Number of Persons Employed at Indiana Mines for Year 1903 over 1901 and 1902.*

|                        | 1901           | 1902           | 1903           | Per Cent. Gained Over 1901. | Per Cent. Gained Over 1902. |
|------------------------|----------------|----------------|----------------|-----------------------------|-----------------------------|
| Total Tonnage Produced | 7,019,203      | 8,763,197      | 9,992,553      | 42.3                        | 14.02                       |
| Total Wages Paid.....  | \$5,680,539 86 | \$7,078,913 12 | \$9,149,572 12 | 61.08                       | 29.2                        |
| Total Employes.....    | 12,096         | 13,139         | 15,128         | 25.06                       | 13.14                       |

# TABLE,

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

## 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. | Fatal Accidents. | Improvements. | Number Kegs of Powder. |
|---------------------|--------------|------------------------------|----------|-----------------------------|------------------|-----------------|--------------|-------------|------------------|---------------|------------------------|
| Brazil Block No. 1  | 23           | 4                            | 8        | 20                          | 7                | 62              | 288          | 7           | 1                |               | 1,088                  |
| Brazil Block No. 8  | 17           | 12                           | 31       | 34                          | 11               | 105             | 261          | 10          |                  |               | 2,597                  |
| Diamond No. 5       | 16           | 10                           | 33       | 32                          | 12               | 103             | 248          | 12          |                  |               | 892                    |
| Brazil Block No. 11 | 20           | 2                            | 4        | 10                          | 4                | 40              | 124          | 3           |                  |               | 1,120                  |
| Continental No. 1   | 26           |                              |          | 8                           | 5                | 39              | 147          | 2           |                  | \$336 00      |                        |
| Gart No. 5          | 34           |                              |          | 4                           | 5                | 43              | 17           | 6           |                  |               |                        |
| Gart No. 7          | 60           |                              |          | 15                          | 9                | 84              | 200          | 7           | 1                | 5,035 65      | 609                    |
| Gart No. 10         | 14           | 4                            | 15       | 14                          | 7                | 54              | 19           | 7           |                  |               | 1,228                  |
| Rebstock            | 27           |                              |          | 3                           | 6                | 36              | 24           | 1           |                  |               | 320                    |
| Briar Hill          | 6            | 8                            | 9        | 8                           | 6                | 37              | 16           | 5           |                  |               |                        |
| Cloverland No. 1    | 136          |                              |          | 45                          | 15               | 196             | 163          | 17          |                  |               | 5,050                  |
| Fair View           | 18           |                              |          | 9                           | 5                | 32              | 50           | 3           |                  |               | 750                    |
| Lawrence No. 6      | 65           |                              |          | 8                           | 6                | 79              | 188          | 4           |                  |               | 1,222                  |
| Lawrence No. 7      | 84           |                              |          | 29                          | 9                | 122             | 281          | 10          |                  |               | 3,642                  |
| Cornwell            | 67           |                              |          | 11                          | 6                | 84              | 228          | 7           | 1                |               | 1,750                  |
| Crawford No. 3      | 41           |                              |          | 6                           | 4                | 51              | 130          | 3           |                  |               | 322                    |
| Crawford No. 2      | 53           |                              |          | 10                          | 5                | 64              | 278          | 4           |                  |               | 1,995                  |
| Crawford No. 5      | 52           |                              |          | 11                          | 5                | 68              | 255          | 4           |                  |               | 2,420                  |
| Crawford No. 6      | 46           |                              |          | 11                          | 5                | 62              | 203          | 3           |                  |               | 2,324                  |
| Crawford No. 7      | 60           |                              |          | 12                          | 6                | 78              | 284          | 4           |                  |               | 1,885                  |
| Eureka No. 3        | 22           |                              |          | 6                           | 4                | 32              | 217          | 4           |                  |               | 607                    |
| Fortner             | 43           |                              |          | 9                           | 4                | 56              | 174          | 5           |                  |               | 1,481                  |
| Klondyke            | 90           |                              |          | 20                          | 9                | 119             | 228          | 11          | 1                |               | 2,037                  |
| Gifford No. 1       | 40           | 12                           | 31       | 25                          | 10               | 118             | 169          | 9           |                  | 8,313 41      | 3,050                  |
| Gifford No. 2       | 90           | 12                           | 33       | 22                          | 12               | 169             | 224          | 16          | 1                |               | 5,000                  |
| Glen                | 78           |                              |          | 10                          | 7                | 95              | 216          | 5           |                  |               | 3,565                  |
| Pratt               | 27           |                              |          | 7                           | 6                | 40              | 105          | 5           |                  |               | 510                    |

Table Showing Number of Miners, Machine Runners and Helpers, etc.—Continued.

## CLAY COUNTY—Continued.

| NAME OF MINE.         | Pick Miners. | Machine Runners and Helpers. | Loaders. | Inside Day and Monthly Men. | Outside Day Men. | Total Employees. | Days Worked. | Mules Used. | Fatal Accidents. | Improvements. | Number Kegs of Powder. |
|-----------------------|--------------|------------------------------|----------|-----------------------------|------------------|------------------|--------------|-------------|------------------|---------------|------------------------|
| Monarch.....          | 16           | .....                        | .....    | 19                          | 2                | 37               | 267          | 2           | .....            | .....         | .....                  |
| Pearl.....            | 95           | .....                        | .....    | 16                          | 8                | 119              | 220          | 7           | .....            | .....         | 2,713                  |
| Lewis.....            | .....        | 4                            | 10       | 1                           | 4                | 19               | 52           | 1           | .....            | .....         | 125                    |
| Silverwood No. 3..... | 32           | .....                        | .....    | 12                          | 9                | 53               | 183          | 7           | .....            | .....         | .....                  |
| Cloverland No. 2..... | 47           | .....                        | .....    | 5                           | 4                | 56               | 77           | 2           | .....            | .....         | 727                    |
| Total.....            | 1,445        | 68                           | 174      | 452                         | 217              | 2,356            | 5,536        | 193         | 5                | \$13,685 06   | 49,029                 |

## DAVISS COUNTY.

|                       |     |       |       |    |    |     |       |       |       |            |        |
|-----------------------|-----|-------|-------|----|----|-----|-------|-------|-------|------------|--------|
| Cabel No. 4.....      | 20  | ..... | ..... | 4  | 6  | 30  | 57    | 3     | ..... | .....      | .....  |
| Cabel No. 9.....      | 50  | ..... | ..... | 15 | 7  | 72  | 199   | 6     | ..... | .....      | 1,534  |
| Hoosier No. 4.....    | 12  | ..... | ..... | 3  | 2  | 17  | 30    | ..... | ..... | .....      | .....  |
| Montgomery No. 2..... | 34  | ..... | ..... | 11 | 6  | 51  | 267   | 5     | ..... | .....      | 2,224  |
| Montgomery No. 3..... | 123 | ..... | ..... | 28 | 11 | 162 | 236   | 17    | ..... | .....      | 5,916  |
| Mutual.....           | 52  | ..... | ..... | 9  | 7  | 68  | 210   | 2     | 1     | \$1,600 00 | 2,400  |
| Union.....            | 26  | ..... | ..... | 4  | 3  | 33  | 162   | 2     | ..... | 600 00     | .....  |
| Mandabach.....        | 12  | ..... | ..... | 2  | 3  | 17  | 53    | 2     | 1     | .....      | 300    |
| Total.....            | 329 | ..... | ..... | 76 | 45 | 450 | 1,234 | 42    | 2     | \$2,200 00 | 12,374 |

## FOUNTAIN COUNTY.

|                 |    |       |       |    |    |    |    |   |       |            |       |
|-----------------|----|-------|-------|----|----|----|----|---|-------|------------|-------|
| Diamond.....    | 8  | ..... | ..... | 2  | 2  | 12 | 48 | 1 | ..... | \$30 00    | ..... |
| Rush.....       | 42 | ..... | ..... | 8  | 6  | 56 | 23 | 2 | 1     | 3,100 00   | ..... |
| Silverwood..... | 16 | ..... | ..... | 1  | 8  | 25 | 26 | 1 | ..... | .....      | ..... |
| Total.....      | 66 | ..... | ..... | 11 | 16 | 93 | 97 | 4 | 1     | \$3,130 00 | ..... |

## GIBSON COUNTY.

|             |    |       |       |    |    |     |     |    |       |            |       |
|-------------|----|-------|-------|----|----|-----|-----|----|-------|------------|-------|
| Oswald..... | 54 | ..... | ..... | 30 | 17 | 101 | 140 | 12 | ..... | \$3,554 05 | 1,599 |
| Total.....  | 54 | ..... | ..... | 30 | 17 | 101 | 140 | 12 | ..... | \$3,554 05 | 1,599 |

## GREENE COUNTY.

|                          |       |       |       |     |     |       |       |     |       |             |        |
|--------------------------|-------|-------|-------|-----|-----|-------|-------|-----|-------|-------------|--------|
| Black Creek.....         | 65    | 10    | 50    | 30  | 9   | 164   | 153   | 16  | 2     | .....       | 3,259  |
| Island No. 1.....        | 48    | 14    | 32    | 42  | 13  | 149   | 218   | 16  | ..... | .....       | 2,136  |
| Island No. 2.....        | 50    | 34    | 50    | 40  | 27  | 201   | 215   | 15  | ..... | .....       | 2,280  |
| Island No. 3.....        | 83    | ..... | ..... | 23  | 10  | 116   | 216   | 13  | ..... | .....       | 2,576  |
| Gilmour.....             | 15    | 16    | 90    | 42  | 15  | 178   | 208   | 19  | ..... | .....       | 1,380  |
| Hoosier No. 1.....       | 6     | 4     | 22    | 6   | 5   | 43    | 239   | 3   | ..... | .....       | 514    |
| Island Valley No. 3..... | 120   | ..... | ..... | 32  | 12  | 164   | 182   | 18  | ..... | .....       | 4,515  |
| Island Valley No. 2..... | 43    | ..... | ..... | 10  | 8   | 61    | 209   | 5   | ..... | \$1,381 29  | 1,252  |
| South Linton.....        | 150   | ..... | ..... | 31  | 9   | 190   | 208   | 17  | ..... | .....       | 5,456  |
| Midland.....             | 12    | 12    | 60    | 25  | 10  | 119   | 190   | 9   | 1     | .....       | 1,200  |
| Vulcan.....              | 17    | ..... | ..... | 3   | 6   | 26    | 81    | 1   | ..... | 310 00      | 400    |
| Summitt No. 2.....       | 18    | 16    | 92    | 54  | 8   | 188   | 190   | 13  | ..... | .....       | 1,705  |
| Templeton.....           | 93    | ..... | ..... | 21  | 11  | 125   | 280   | 13  | 1     | .....       | 3,600  |
| Victoria.....            | 164   | ..... | ..... | 30  | 13  | 207   | 254   | 11  | 1     | .....       | 8,497  |
| Glenburn.....            | 35    | 14    | 73    | 47  | 14  | 183   | 197   | 20  | 1     | .....       | 2,000  |
| Antioch.....             | 78    | ..... | ..... | 36  | 11  | 125   | 288   | 7   | 2     | 12,724 76   | 2,707  |
| Tower Hill.....          | 12    | 8     | 32    | 9   | 10  | 71    | 223   | 3   | ..... | 2,576 55    | 1,062  |
| Green Valley.....        | ..... | 14    | 60    | 21  | 10  | 105   | 182   | 8   | 1     | .....       | 1,044  |
| Lattis Creek No. 1.....  | ..... | 16    | 72    | 38  | 20  | 146   | 216   | 9   | ..... | 600 00      | 1,600  |
| Atlas No. 1.....         | 21    | 10    | 45    | 18  | 10  | 104   | 233   | 9   | ..... | .....       | 1,444  |
| Fry.....                 | 25    | ..... | ..... | 6   | 3   | ..... | ..... | 2   | ..... | 2,336 39    | 1,200  |
| Letsinger.....           | 16    | 8     | 18    | 5   | 9   | 56    | ..... | 3   | 1     | 19,500 00   | 500    |
| North West.....          | 10    | 8     | 26    | 21  | 11  | 76    | 172   | 6   | 1     | 3,677 13    | 840    |
| Twin.....                | ..... | 6     | 11    | 3   | 7   | 27    | 70    | 2   | ..... | .....       | .....  |
| Island No. 5.....        | 16    | ..... | ..... | 10  | 6   | 32    | 49    | 2   | ..... | .....       | 385    |
| Atlas No. 2.....         | 15    | 6     | 18    | 7   | 8   | 54    | 39    | 3   | ..... | .....       | 111    |
| Total.....               | 1,112 | 196   | 751   | 610 | 275 | 2,944 | 4,512 | 248 | 11    | \$43,106 12 | 51,563 |

Table Showing Number of Miners, Machine Runners and Helpers, etc.—Continued.

## KNOX COUNTY.

| NAME OF MINE.      | Pick Miners. | Machine Runners and Helpers. | Loaders. | Inside Day and Monthly Men. | Outside Day Men. | Total Employees. | Days Worked. | Mules Used. | Fatal Accidents. | Improvements. | Number Kegs of Powder. |
|--------------------|--------------|------------------------------|----------|-----------------------------|------------------|------------------|--------------|-------------|------------------|---------------|------------------------|
| Bicknell.....      | 45           | .....                        | .....    | 12                          | 10               | 67               | 202          | 8           | .....            | .....         | 3,496                  |
| Edwardsport.....   | 20           | .....                        | .....    | 7                           | 5                | 32               | 69           | 4           | .....            | \$50 00       | .....                  |
| Knox.....          | 51           | .....                        | .....    | 13                          | 7                | 71               | 172          | 7           | 2                | .....         | 3,000                  |
| Lynn.....          | 32           | .....                        | .....    | 6                           | 6                | 44               | 100          | 5           | .....            | 800 00        | 840                    |
| Prospect Hill..... | 18           | .....                        | .....    | 5                           | 3                | 26               | 202          | 3           | .....            | .....         | 500                    |
| Total.....         | 166          | .....                        | .....    | 43                          | 31               | 240              | 745          | 27          | 2                | \$850 00      | 7,836                  |

## PARKE COUNTY.

|                          |               |       |       |       |       |       |       |       |       |           |       |
|--------------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|-------|
| C. B. Harrison.....      | 6             | ..... | ..... | 1     | 1     | 8     | 20    | 2     | ..... | \$40 00   | 232   |
| W. P. Harrison.....      | Not reported. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 800 00    | 640   |
| Brazil Block No. 12..... | 20            | 18    | 50    | 40    | 14    | 142   | 285   | 16    | ..... | .....     | 1,492 |
| Cox No. 3.....           | 77            | ..... | ..... | 25    | 14    | 116   | 260   | 10    | 1     | 4,896 46  | 3,065 |
| Lucia.....               | 57            | ..... | ..... | 18    | 7     | 82    | 202   | 12    | 2     | 600 00    | 2,568 |
| Mecca No. 1.....         | 32            | ..... | ..... | 17    | 8     | 57    | 202   | 13    | 1     | .....     | 1,778 |
| New Century.....         | Not reported. | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... | .....     | ..... |
| Lyford No. 1.....        | .....         | 12    | 40    | 31    | 15    | 98    | 175   | 7     | ..... | 15,871 00 | 1,341 |
| Mary.....                | 17            | 14    | 45    | 27    | 9     | 112   | 249   | 8     | 1     | 2,200 53  | 2,295 |
| McIntosh No. 3.....      | 33            | ..... | ..... | 10    | 5     | 48    | 271   | 3     | ..... | .....     | ..... |
| Superior No. 1.....      | 128           | ..... | ..... | 20    | 8     | 156   | 227   | 9     | 1     | .....     | 4,971 |
| Superior No. 2.....      | 83            | ..... | ..... | 25    | 8     | 116   | 277   | 11    | 1     | .....     | 3,926 |
| Superior No. 3.....      | 85            | ..... | ..... | 13    | 7     | 105   | 177   | 5     | 1     | .....     | 2,502 |
| Minshal No. 1.....       | 141           | ..... | ..... | 40    | 10    | 191   | 260   | 16    | ..... | 1,411 68  | 6,064 |
| Pan American.....        | 140           | ..... | ..... | 21    | 11    | 172   | 211   | 8     | ..... | .....     | 3,443 |
| Brazil Block No. 9.....  | 93            | ..... | ..... | 31    | 9     | 133   | 178   | 9     | ..... | .....     | 1,743 |
| Raccoon.....             | 27            | ..... | ..... | 5     | 5     | 37    | 238   | 3     | 2     | 62 28     | 1,628 |
| Park No. 11.....         | 19            | 12    | 11    | 8     | 7     | 57    | 180   | 3     | ..... | .....     | 1,301 |
| Minshal No. 2.....       | 17            | ..... | ..... | 3     | 4     | 24    | 27    | 1     | ..... | .....     | 41    |

|                      |               |    |     |     |     |       |       |     |    |             |        |
|----------------------|---------------|----|-----|-----|-----|-------|-------|-----|----|-------------|--------|
| Crawford No. 10..... | Not reported. |    |     |     |     |       |       |     |    |             | 109    |
| Crawford No. 8.....  | Not reported. |    |     |     |     |       |       |     |    |             | 344    |
| Mecca No. 4.....     |               |    |     |     |     |       |       |     |    |             | 1,324  |
| Total.....           | 975           | 56 | 146 | 335 | 142 | 1,654 | 3,419 | 136 | 10 | \$25,881 95 | 40,807 |

## PIKE COUNTY.

|                     |               |  |     |     |     |       |    |   |             |        |
|---------------------|---------------|--|-----|-----|-----|-------|----|---|-------------|--------|
| Massey.....         | 28            |  | 5   | 3   | 36  | 195   | 3  |   | \$2,243 15  | 1,200  |
| Aberdeen.....       | 30            |  | 8   | 6   | 44  | 204   | 5  |   | 1,121 00    | 1,200  |
| Ayrshire No. 3..... | 61            |  | 21  | 9   | 91  | 156   | 17 |   |             | 6,944  |
| Ayrshire No. 4..... | 85            |  | 26  | 20  | 131 | 140   | 10 |   | 2,506 60    |        |
| Ayrshire No. 6..... | Not reported. |  |     |     |     |       |    |   | 2,250 09    |        |
| Blackburn.....      | 48            |  | 12  | 8   | 68  | 123   | 8  |   |             | 1,708  |
| Hartwell.....       | 90            |  | 14  | 18  | 122 | 178   | 11 |   | 3,049 87    | 2,730  |
| Littles.....        | 122           |  | 35  | 11  | 168 | 176   | 20 | 1 |             | 4,220  |
| Rogers.....         | 20            |  | 5   | 1   | 26  | 27    | 2  |   |             | 106    |
| Petersburg.....     | 35            |  | 16  | 7   | 58  | 159   | 6  |   |             | 1,549  |
| Carbon.....         | 17            |  | 6   | 4   | 27  | 226   | 8  |   | 1,680 00    | 900    |
| Winslow.....        | 80            |  | 22  | 15  | 117 | 184   | 12 |   | 532 98      |        |
| Total.....          | 616           |  | 170 | 102 | 888 | 1,768 | 97 | 1 | \$13,353 69 | 20,567 |

## PERRY COUNTY.

|            |    |  |   |   |    |     |   |  |          |     |
|------------|----|--|---|---|----|-----|---|--|----------|-----|
| Troy.....  | 20 |  | 3 | 3 | 26 | 205 | 2 |  | \$480 00 | 701 |
| Total..... | 20 |  | 3 | 3 | 26 | 205 | 2 |  | \$480 00 | 701 |

## SULLIVAN COUNTY.

|                         |               |    |     |    |    |     |     |    |            |       |
|-------------------------|---------------|----|-----|----|----|-----|-----|----|------------|-------|
| Lablanch.....           | 8             |    | 13  | 19 | 40 | 21  | 1   |    |            |       |
| Bunker Hill.....        | 19            | 4  | 24  | 20 | 10 | 77  | 193 | 12 | \$1,354 00 | 1,809 |
| Caledonia.....          |               | 12 | 54  | 33 | 13 | 112 | 227 | 10 | 18,774 00  | 2,003 |
| Dugger.....             | 10            | 8  | 44  | 35 | 15 | 112 | 213 | 14 |            | 942   |
| Green Hill.....         |               | 8  | 45  | 17 | 9  | 79  | 159 | 8  | 341 71     | 700   |
| Hymers No. 1.....       | 20            | 12 | 105 | 35 | 25 | 197 | 207 | 15 |            | 2,142 |
| West Linton.....        | Not reported. |    |     |    |    |     |     |    | 2,800 00   |       |
| Jackson Hill No. 2..... |               | 18 | 108 | 48 | 16 | 190 | 233 | 22 |            | 1,618 |
| Phoenix No. 1.....      | 18            | 16 | 40  | 27 | 17 | 118 | 216 | 10 |            |       |

Table Showing Number of Miners, Machine Runners and Helpers, etc.—Continued.

## SULLIVAN COUNTY—Continued.

| NAME OF MINE.       | Pick Miners. | Machine Runners and Helpers. | Loaders. | Inside Day and Monthly Men. | Outside Day Men. | Total Employees. | Days Worked. | Mules Used. | Fatal Accidents. | Improvements. | Number Kegs of Powder. |
|---------------------|--------------|------------------------------|----------|-----------------------------|------------------|------------------|--------------|-------------|------------------|---------------|------------------------|
| Phoenix No. 3 ..... | 15           | 6                            | 6        | 12                          | 3                | 22               | 203          | 3           | 1                |               | 2,062                  |
| Phoenix No. 5 ..... | 37           | 4                            | 14       | 9                           | 9                | 70               | 84           | 6           | 1                |               |                        |
| Shelburn .....      | 4            | 16                           | 84       | 52                          | 24               | 176              | 212          | 14          | 1                | \$3,850 00    | 1,551                  |
| Star City .....     | 51           |                              |          | 11                          | 7                | 69               | 217          | 5           |                  | 2,130 93      | 1,988                  |
| White Ash .....     | 30           |                              |          | 7                           | 5                | 42               | 77           | 4           |                  | 1,211 00      | 803                    |
| Freeman .....       | 1            | 12                           | 73       | 23                          | 10               | 119              | 208          | 8           |                  |               | 1,200                  |
| Sun Flower .....    | 2            | 16                           | 103      | 37                          | 19               | 177              | 200          | 10          |                  |               | 2,312                  |
| Glendora .....      | 12           | 12                           | 85       | 20                          | 15               | 144              | 191          | 11          | 1                |               | 2,397                  |
| Hymera No. 2 .....  |              | 12                           | 70       | 27                          | 14               | 123              | 219          | 7           |                  |               | 1,618                  |
| Wilfred No. 1 ..... |              | 6                            | 28       | 18                          | 10               | 62               | 125          | 3           |                  |               | 221                    |
| Little Giant .....  | 8            | 10                           | 17       | 15                          | 15               | 65               | 103          | 4           |                  |               |                        |
| Cummins .....       | 12           |                              |          | 4                           | 5                | 21               | 24           | 2           |                  |               |                        |
| Citizens .....      |              | 4                            | 6        | 1                           | 4                | 15               | 50           | 1           |                  |               | 100                    |
| Mildred .....       | 20           |                              |          | 2                           | 6                | 28               | 22           | 2           | 1                |               | 60                     |
| Island No. 4 .....  | 8            | 2                            | 2        | 6                           | 4                | 22               | 19           | 1           |                  |               |                        |
| Mammoth Vein .....  |              |                              |          |                             |                  |                  |              |             |                  |               |                        |
| Total .....         | 275          | 178                          | 908      | 476                         | 283              | 2,120            | 3,606        | 177         | 9                | \$30,461 64   | 23,526                 |

## VANDERBURGH COUNTY.

|                    |              |  |  |    |    |     |       |    |   |          |       |
|--------------------|--------------|--|--|----|----|-----|-------|----|---|----------|-------|
| Diamond .....      | 35           |  |  | 6  | 6  | 47  | 260   | 3  |   |          |       |
| First Avenue ..... | 22           |  |  | 5  | 7  | 34  | 92    | 2  |   |          | 732   |
| Ingle side .....   | Not reported |  |  |    |    |     |       |    |   |          |       |
| Sunnyside .....    | 61           |  |  | 17 | 10 | 88  | 188   | 11 | 3 |          | 2,032 |
| Union .....        | 30           |  |  | 7  | 7  | 44  | 203   | 4  |   | \$500 00 | 144   |
| Unity .....        | 74           |  |  | 12 | 10 | 96  | 278   | 9  |   |          | 3,972 |
| Total .....        | 222          |  |  | 47 | 40 | 309 | 1,021 | 29 | 3 | \$500 00 | 6,880 |



# VERMILLION COUNTY.

|                             |               |  |  |     |    |       |       |    |   |             |        |
|-----------------------------|---------------|--|--|-----|----|-------|-------|----|---|-------------|--------|
| Bruilletes Creek No. 3..... | 91            |  |  | 22  | 8  | 121   | 183   | 13 |   |             | 7,233  |
| Bruilletes Creek No. 5..... | 115           |  |  | 25  | 10 | 150   | 131   | 16 | 2 |             |        |
| Buckeye.....                | 47            |  |  | 17  | 18 | 72    | 181   | 7  |   |             |        |
| Cayuga.....                 | 15            |  |  | 4   | 3  | 22    | 235   | 2  |   | \$331 60    | 700    |
| Crown Hill No. 1.....       | 133           |  |  | 22  | 10 | 165   | 222   | 12 |   | 11,685 00   | 7,895  |
| Oak Hill.....               | 141           |  |  | 37  | 11 | 189   | 192   | 16 | 1 | 3,072 80    | 9,301  |
| Prince.....                 | 155           |  |  | 34  | 10 | 199   | 216   | 14 | 1 | 1,474 56    | 1,600  |
| Willow Grove.....           | 70            |  |  | 10  | 7  | 87    | 172   | 6  |   | 7,344 15    | 5,796  |
| Crown Hill No. 2.....       | Not reported. |  |  |     |    |       |       |    |   |             | 271    |
| Total.....                  | 767           |  |  | 171 | 67 | 1,005 | 1,532 | 86 | 4 | \$23,908 11 | 32,796 |

# VIGO COUNTY.

|                       |       |    |     |     |     |       |       |     |   |          |        |
|-----------------------|-------|----|-----|-----|-----|-------|-------|-----|---|----------|--------|
| Atherton.....         |       | 8  | 35  | 8   | 9   | 60    | 258   | 3   |   |          |        |
| Rhoades.....          | 33    |    |     | 17  | 8   | 58    | 49    | 3   |   |          |        |
| Brick Works.....      | 12    |    |     | 4   | 2   | 18    | 140   | 2   |   |          | 600    |
| Chicago No. 6.....    | 78    |    |     | 18  | 8   | 104   | 184   | 9   |   | \$250 69 | 1,200  |
| Diamond.....          | 120   |    |     | 40  | 13  | 173   | 178   | 16  |   |          | 4,000  |
| Peerless.....         | 70    |    |     | 20  | 8   | 98    | 29    | 11  |   |          | 2,575  |
| Lawton.....           | 113   | 4  | 3   | 28  | 11  | 159   | 205   | 11  |   |          | 3,660  |
| Union.....            | 73    |    |     | 24  | 12  | 109   | 241   | 13  |   |          | 2,330  |
| Ehrlich.....          | 21    |    |     | 11  | 5   | 37    | 259   | 3   | 1 |          | 923    |
| Grant No. 2.....      | 110   |    |     | 38  | 11  | 159   | 170   | 18  |   | 216 00   | 4,947  |
| Glen Oak.....         | 50    | 12 | 67  | 51  | 17  | 137   | 242   | 30  | 1 |          | 3,899  |
| Hector.....           | 60    |    |     | 18  | 9   | 87    | 248   | 8   |   | 250 00   | 3,035  |
| Klondyke.....         | 93    |    |     | 17  | 10  | 120   | 235   | 12  |   |          | 3,621  |
| Miami No. 1.....      | 157   |    |     | 23  | 10  | 190   | 216   | 13  |   |          | 4,973  |
| Nickle Plate.....     | 40    |    |     | 13  | 9   | 62    | 146   | 7   | 1 |          |        |
| Park No. 10.....      | 50    | 30 | 40  | 47  | 17  | 184   | 227   | 15  |   |          | 2,830  |
| Ray.....              | 70    |    |     | 13  | 6   | 89    | 42    | 7   |   |          |        |
| Redbird.....          | 41    |    |     | 7   | 4   | 62    | 283   | 3   |   |          | 2,145  |
| Rosebud No. 2.....    | 128   |    |     | 30  | 9   | 167   | 222   | 9   |   |          | 4,220  |
| Royal No. 1.....      | 95    |    |     | 20  | 12  | 127   | 228   | 8   |   |          | 4,414  |
| Larimer.....          | 22    |    |     | 5   | 5   | 32    | 44    | 2   | 1 |          | 717    |
| Broadhurst.....       | 50    |    |     | 8   | 7   | 65    | 270   | 4   |   |          | 3,280  |
| Miami No. 2.....      | 28    |    |     | 6   | 4   | 38    | 142   | 2   |   |          | 778    |
| Deep Vein.....        | 40    |    |     | 12  | 6   | 58    | 165   | 3   |   |          | 1,860  |
| Greenfield No. 1..... | 27    |    |     | 5   | 5   | 37    | 203   | 2   |   |          | 1,925  |
| Lost Creek.....       | 36    |    |     | 8   | 6   | 50    | 45    | 4   |   |          | 625    |
| Sugar Creek.....      | 12    |    |     | 7   | 6   | 25    | 24    | 1   |   |          |        |
| Total.....            | 1,629 | 54 | 145 | 498 | 229 | 2,555 | 4,665 | 219 | 4 | \$585 57 | 71,669 |

Table Showing Number of Miners, Machine Runners and Helpers, etc.—Continued.

## WARRICK COUNTY.

| NAME OF MINE.       | Pick Miners. | Machine Runners<br>and Helpers. | Loaders. | Inside Day and<br>Monthly Men. | Outside Day Men. | Total Employees. | Days Worked. | Mules Used. | Fatal Accidents. | Improvements. | Number Kegs of<br>Powder. |
|---------------------|--------------|---------------------------------|----------|--------------------------------|------------------|------------------|--------------|-------------|------------------|---------------|---------------------------|
| Air Line.....       | 21           | 12                              | 42       | 4                              | 8                | 28               | 247          | 3           | 1                | \$1,525 00    | 1,540                     |
| Big Four.....       | 13           | 16                              | 39       | 10                             | 12               | 81               | 244          | 7           | 1                | 2,951 16      | 1,238                     |
| Big Vein No. 3..... | 13           | 16                              | 39       | 10                             | 9                | 87               | 155          | 4           | 1                | 26 00         | 610                       |
| Caledonia.....      | 13           | 16                              | 39       | 10                             | 9                | 19               | 210          | 3           | 1                | 1,645 75      | 920                       |
| Chandler.....       | 24           | 17                              | 3        | 7                              | 3                | 34               | 186          | 3           | 1                | 227 86        | 1,025                     |
| DeForrest.....      | 17           | 17                              | 3        | 3                              | 3                | 23               | 127          | 2           | 1                | 2,050         | 1,000                     |
| Star No. 1.....     | 44           | 8                               | 27       | 9                              | 10               | 63               | 130          | 9           | 1                |               |                           |
| Electric.....       | 8            | 27                              | 8        | 8                              | 9                | 52               | 149          | 4           |                  |               |                           |
| Total.....          | 132          | 36                              | 108      | 59                             | 52               | 387              | 1,448        | 35          | 3                | \$6,375 77    | 8,383                     |
| Grand total.....    | 7,808        | 588                             | 2,232    | 2,981                          | 1,519            | 15,128           | 29,928       | 1,300       | 54               | \$168,071 96  | 327,820                   |

## TABLE.

## MACHINE MINES.

Showing by Counties the Name of Mines, Number and Kind of Machines, Tons of Coal Mined, Number Miners Employed, Average Tons per Miner.

## CLAY COUNTY BLOCK COAL MINES.

| MINE.                      | KIND OF MACHINES.       |                 |                        | Tons Produced. | Number of Miners Employed. | Average Tons per Miner. | Average Tons per Machine. |
|----------------------------|-------------------------|-----------------|------------------------|----------------|----------------------------|-------------------------|---------------------------|
|                            | Compressed Air Puncher. | Electric Chain. | Total Number Machines. |                |                            |                         |                           |
| Brazil Block No. 1.....    | .....                   | 9               | 9                      | 12,094         | 12                         | 1,008                   | 1,344                     |
| Brazil Block No. 3.....    | .....                   | 3               | 3                      | 35,110         | 43                         | 812                     | 58,578                    |
| Brazil Block No. 1.....    | .....                   | 3               | 3                      | 1,673          | 16                         | 105                     | 836                       |
| Diamond No. 5.....         | .....                   | 3               | 3                      | 44,009         | 43                         | 1,023                   | 8,802                     |
| Gart No. 10.....           | .....                   | 3               | 3                      | 27,447         | 19                         | 1,445                   | 9,149                     |
| Total General Average..... | .....                   | 24              | 24                     | 120,333        | 133                        | 980                     | 5,013                     |

## PARKE COUNTY BLOCK COAL MINES.

|                            |       |    |    |        |     |     |       |
|----------------------------|-------|----|----|--------|-----|-----|-------|
| Brazil Block No. 12.....   | ..... | 12 | 12 | 55,876 | 68  | 821 | 4,656 |
| Mary.....                  | ..... | 7  | 7  | 11,222 | 59  | 190 | 1,603 |
| Total General Average..... | ..... | 19 | 19 | 67,097 | 127 | 528 | 3,531 |

## CLAY COUNTY BITUMINOUS MINES.

|                            |       |    |    |        |    |     |       |
|----------------------------|-------|----|----|--------|----|-----|-------|
| Gifford No. 1.....         | ..... | 6  | 6  | 27,958 | 43 | 650 | 4,659 |
| Gifford No. 3.....         | ..... | 6  | 6  | 35,072 | 45 | 779 | 5,845 |
| Total General Average..... | ..... | 12 | 12 | 63,030 | 88 | 716 | 5,252 |

## GREENE COUNTY BITUMINOUS MINES.

|                            |       |       |     |           |       |       |        |
|----------------------------|-------|-------|-----|-----------|-------|-------|--------|
| Black Creek.....           | ..... | 5     | 5   | 80,111    | 60    | 1,201 | 16,022 |
| Island No. 1.....          | 8     | ..... | 8   | 67,149    | 46    | 1,460 | 8,393  |
| Island No. 2.....          | 18    | ..... | 18  | 110,774   | 84    | 1,318 | 6,154  |
| Gilmour.....               | 8     | ..... | 8   | 136,024   | 106   | 1,283 | 17,003 |
| Hoosier No. 1.....         | 2     | ..... | 2   | 20,925    | 26    | 804   | 10,462 |
| Midland.....               | 6     | ..... | 6   | 100,185   | 72    | 1,391 | 16,697 |
| Summit No. 2.....          | 9     | ..... | 9   | 147,631   | 108   | 1,367 | 16,408 |
| Glenburn.....              | 7     | ..... | 7   | 99,215    | 87    | 1,140 | 14,173 |
| Antioch.....               | 6     | ..... | 6   | 31,732    | 50    | 634   | 6,288  |
| Green Valley.....          | 7     | ..... | 7   | 85,386    | 74    | 1,167 | 12,340 |
| Lattis Creek.....          | 8     | ..... | 8   | 108,961   | 88    | 1,238 | 13,745 |
| Atlas No. 1.....           | 5     | ..... | 5   | 75,478    | 65    | 1,372 | 15,095 |
| Letsinger.....             | 4     | ..... | 4   | 18,325    | 26    | 706   | 4,581  |
| North West No. 1.....      | 4     | ..... | 4   | 26,177    | 34    | 770   | 6,544  |
| Twin.....                  | 3     | ..... | 3   | 2,615     | 17    | 153   | 871    |
| Atlas No. 2.....           | 2     | ..... | 2   | 4,892     | 34    | 149   | 2,446  |
| Tower Hill.....            | 5     | ..... | 5   | 46,378    | 40    | 1,159 | 9,275  |
| Total General average..... | 30    | 77    | 107 | 1,162,958 | 1,007 | 1,155 | 11,896 |

## MACHINE MINES—Continued.

## PARKE COUNTY BITUMINOUS MINES.

| MINE.                      | KIND OF MACHINES.      |                 |                        | Tons Produced. | Number of Miners Employed. | Average Tons per Miner. | Average Tons per Machine. |
|----------------------------|------------------------|-----------------|------------------------|----------------|----------------------------|-------------------------|---------------------------|
|                            | Compressed Air Pumper. | Electric Chain. | Total Number Machines. |                |                            |                         |                           |
| Lyford No. 1.....          | .....                  | 6               | 6                      | 22,080         | 52                         | 424                     | 3,680                     |
| Parke No. 1.....           | 6                      | .....           | 6                      | 25,749         | 23                         | 1,119                   | 4,291                     |
| Total General average..... | 6                      | 6               | 12                     | 47,829         | 75                         | 638                     | 3,985                     |

## SULLIVAN COUNTY BITUMINOUS MINES.

|                            |       |       |       |           |       |       |        |
|----------------------------|-------|-------|-------|-----------|-------|-------|--------|
| Bunker Hill.....           | ..... | 4     | 4     | 28,836    | 28    | 1,022 | 7,209  |
| Caledonia.....             | ..... | 5     | 5     | 36,956    | 66    | 560   | 4,618  |
| Dugger.....                | ..... | 5     | 5     | 58,410    | 52    | 1,315 | 13,682 |
| Green Hill.....            | ..... | 4     | 4     | 40,246    | 53    | 759   | 10,061 |
| Hymers No. 1.....          | ..... | 8     | 8     | 156,392   | 117   | 1,336 | 19,549 |
| Jackson Hill No. 2.....    | ..... | 9     | 9     | 196,415   | 126   | 1,559 | 21,824 |
| Phoenix No. 3.....         | 9     | ..... | ..... | 128,036   | 56    | 2,286 | 14,670 |
| Phoenix No. 5.....         | 3     | ..... | ..... | 17,416    | 12    | 1,451 | 5,805  |
| Shelburn.....              | ..... | 2     | 2     | 15,834    | 18    | 879   | 7,917  |
| Star City.....             | ..... | 8     | 8     | 105,739   | 100   | 1,057 | 13,217 |
| Sun Flower.....            | ..... | 6     | 6     | 139,832   | 85    | 1,527 | 23,305 |
| Glondora.....              | ..... | 8     | 8     | 163,768   | 119   | 1,376 | 20,471 |
| Hymers No. 2.....          | ..... | 8     | 8     | 152,770   | 97    | 1,575 | 19,096 |
| Wilfred.....               | ..... | 8     | 8     | 130,846   | 82    | 1,595 | 16,355 |
| West Linton.....           | ..... | 1     | 1     | 280       | 10    | 28    | 280    |
| Cummins.....               | 5     | ..... | 5     | 2,000     | 27    | 7     | 400    |
| Mildred.....               | ..... | 2     | 2     | 1,745     | 10    | 174   | 872    |
| Total General Average..... | 17    | 81    | 98    | 1,385,548 | 1,133 | 1,222 | 14,138 |

## VIGO COUNTY BITUMINOUS COAL MINES.

|                            |       |       |    |         |     |       |        |
|----------------------------|-------|-------|----|---------|-----|-------|--------|
| Atherton.....              | ..... | 4     | 4  | 39,713  | 43  | 900   | 9,928  |
| Lawton.....                | ..... | 2     | 2  | 3,920   | 7   | 531   | 1,960  |
| Glen Oak.....              | ..... | 6     | 6  | 165,715 | 79  | 2,090 | 27,519 |
| Parke No. 10.....          | 15    | ..... | 15 | 146,988 | 70  | 2,099 | 9,799  |
| Total General Average..... | 15    | 12    | 27 | 355,736 | 199 | 1,285 | 29,645 |

## WARRICK COUNTY BITUMINOUS MINES.

|                            |       |       |     |           |       |       |        |
|----------------------------|-------|-------|-----|-----------|-------|-------|--------|
| Electric.....              | ..... | 4     | 4   | 31,313    | 35    | 894   | 7,823  |
| Big Four.....              | 6     | ..... | 6   | 74,003    | 54    | 1,345 | 12,334 |
| Big Vein.....              | 8     | ..... | 8   | 96,231    | 55    | 1,749 | 12,029 |
| Total General Average..... | 14    | 4     | 18  | 201,547   | 144   | 1,399 | 11,141 |
| Grand Total.....           | 82    | 235   | 317 | 3,404,078 | 2,820 | 1,207 | 10,738 |

NOTE.—Total pick miners, 7,808; total pick mine coal, 6,538,475 tons; average tons per miner, 843.

TABLE,

Showing Number of Miners, Total Wages of Miners and Average Wages Per Miner; Number of Inside Day and Monthly Men, Total Wages of Same, and Average Wages Per Man; Number of Outside Day and Monthly Men, Total Wages of Same, and Average Wages Per Employee, by Counties.

| COUNTY.              | Number of Miners. | Total Wages of Miners. | Average Earning Per Miner. | Number of In-side Day and Monthly Men. | Total Wages of Inside Day and Monthly Men. | Average Earning Per Inside Day and Monthly Men. | Total Wages of Persons Outside. | Number of Persons Outside. | Average Earning Per Outside Man. |
|----------------------|-------------------|------------------------|----------------------------|--|--|---|---------------------------------|----------------------------|----------------------------------|
| Clay.....            | 1,687             | \$736,361 87           | \$436 43                   | 452                                    | \$315,330 88                               | \$697 63  | \$137,624 60                    | 217                        | \$634 21                         |
| Daviess.....         | 329               | 131,413 05             | 451 11                     | 76                                     | 42,503 13                                  | 559 12  | 21,525 94                       | 45                         | 478 30                           |
| Fountain.....        | 66                | 9,028 33               | 136 79                     | 11                                     | 2,531 37                                   | 230 12  | 1,776 49                        | 16                         | 111 03                           |
| Gibson.....          | 54                | 24,854 19              | 460 28                     | 30                                     | 15,609 54                                  | 520 31  | 10,769 33                       | 17                         | 633 48                           |
| Greene.....          | 2,059             | 1,228,519 74           | 596 65                     | 610                                    | 427,768 47                                 | 699 62  | 231,759 18                      | 275                        | 842 76                           |
| Knox.....            | 166               | 78,796 92              | 474 68                     | 43                                     | 28,118 42                                  | 654 38  | 15,676 27                       | 31                         | 505 68                           |
| Parke.....           | 1,177             | 699,901 77             | 593 79                     | 335                                    | 268,874 31                                 | 802 60  | 119,728 18                      | 142                        | 843 15                           |
| Perry.....           | 20                | 7,412 74               | 370 63                     | 3                                      | 2,069 69                                   | 689 89  | 1,632 92                        | 3                          | 544 30                           |
| Pike.....            | 616               | 292,045 31             | 474 09                     | 170                                    | 105,706 67                                 | 621 80  | 52,180 01                       | 102                        | 511 55                           |
| Sullivan.....        | 1,361             | 766,741 31             | 563 36                     | 476                                    | 322,156 76                                 | 675 79  | 175,538 92                      | 283                        | 620 31                           |
| Vanderburgh.....     | 222               | 134,192 28             | 604 46                     | 47                                     | 35,535 68                                  | 756 07  | 23,007 82                       | 40                         | 575 12                           |
| Vermillion.....      | 767               | 538,829 07             | 702 51                     | 171                                    | 140,071 21                                 | 819 12  | 69,547 49                       | 67                         | 1,038 02                         |
| Vigo.....            | 1,828             | 1,038,557 30           | 568 13                     | 498                                    | 309,604 53                                 | 621 69  | 145,599 92                      | 229                        | 640 12                           |
| Warrick.....         | 276               | 157,026 13             | 568 58                     | 59                                     | 34,661 66                                  | 587 60  | 22,793 96                       | 52                         | 438 30                           |
| General Average..... | 10,628            | \$5,017,021 20         | \$566 14                   | 2,981                                  | \$2,085,116 28                             | \$699 67  | \$1,047,434 64                  | 1,519                      | \$689 54                         |

NOTE.—Pick miners, machine runners and helpers and loaders are reported as miners.

TABLE,

Showing Price Paid Per Ton for Pick and Machine Mining, Inside Day Labor, Total Number of Employees, Total Production, Total Wages, Wages Per Year Per Employee, and Per Cent. of Gain or Loss Per Ton for Each Year from 1890 to 1903, Inclusive.

| YEAR.      | BLOCK MINING.      |                       | BITUMINOUS MINING. |                       | Wages Inside Day Labor. | Total Number Employees. | Total Production. | Total Wages.   | Wages Per Year Per Employee. | Per Cent. Gain. | Per Cent. Loss. |
|------------|--------------------|-----------------------|--------------------|-----------------------|-------------------------|-------------------------|-------------------|----------------|------------------------------|-----------------|-----------------|
|            | Price Pick Mining. | Price Machine Mining. | Price Pick Mining. | Price Machine Mining. |                         |                         |                   |                |                              |                 |                 |
| 1890 ..... | \$0 75             | .....                 | \$0 70             | \$0 34½               | \$1 87½                 | 6,550                   | 3,791,211         | Not reported   | .....                        | .....           | .....           |
| 1891 ..... | 75                 | .....                 | 70                 | 34½                   | 1 87½                   | 6,975                   | 3,819,600         | .....          | .....                        | .....           | .....           |
| 1892 ..... | 75                 | .....                 | 70                 | 34½                   | 1 90                    | 7,600                   | 4,408,471         | .....          | .....                        | .....           | .....           |
| 1893 ..... | 75                 | .....                 | 70                 | 34½                   | 1 90                    | 7,431                   | 4,358,897         | .....          | .....                        | .....           | .....           |
| 1894 ..... | 75                 | .....                 | 65                 | 34½                   | 1 90                    | Not reported.           | .....             | .....          | .....                        | .....           | 7½              |
| 1895 ..... | 70                 | .....                 | 60                 | 29½                   | 1 75                    | 7,885                   | 4,202,084         | \$1,852,500 00 | \$234 93                     | .....           | 7½              |
| 1896 ..... | 70                 | .....                 | 60                 | 29½                   | 1 75                    | 7,112                   | 4,068,124         | 1,750,000 00   | 246 06                       | .....           | .....           |
| 1897 ..... | 61                 | .....                 | 51                 | 27½                   | 1 52½                   | 7,984                   | 4,088,100         | 1,600,000 00   | 200 40                       | .....           | 15              |
| 1898 ..... | 76                 | \$0 57                | 66                 | 30                    | 1 75                    | .....                   | 5,140,920         | 1,182,500 00   | .....                        | 29½             | .....           |
| 1899 ..... | 76                 | 57                    | 66                 | 30                    | 1 75                    | 7,366                   | 5,839,713         | 3,813,652 39   | 517 73                       | .....           | .....           |
| 1900 ..... | 90                 | 68½                   | 80                 | 39                    | 2 25                    | 8,558                   | 6,283,063         | 4,843,343 26   | 546 77                       | 21½             | .....           |
| 1901 ..... | 90                 | 68½                   | 80                 | 62                    | 2 30                    | 12,096                  | 7,019,203         | 5,680,539 86   | 469 62                       | .....           | .....           |
| 1902 ..... | 90                 | 68½                   | 80                 | 62                    | 2 30                    | 13,139                  | 8,763,197         | 7,078,913 12   | 538 77                       | .....           | .....           |
| 1903 ..... | 1 00               | 78½                   | 90                 | 68½                   | 2 56                    | 15,128                  | 9,992,553         | 9,149,572 12   | 604 81                       | 12½             | .....           |

Above Percentages are based on Pick Mining.

April 1st, 1900, Miners' Screens were reduced from 1½ inch mesh flat bar to 1¼ inch mesh acron bar, which amounted to 5 cts. advance per ton on mining.

Total reduction in price per ton from 1890 to 1897 amounted to 27½%.

Total gain 1903 over 1890, 35½%.

Total gain 1903 over 1897, 86%.

## FATALITIES AND INJURIES.

During the year 1903 there were more accidents to mine employes, fatal, serious and minor, than in any of the previous years in the history of the mining industry of this State.

The monthly reports of mine bosses made to this Office show an aggregate of two hundred and seventy-six (276) accidents, classed as follows: Fatal, fifty-five (55); serious, one hundred and forty-five (145); and minor, seventy-seven (77), the causes of which are shown by the annexed table.

TABLE.

*Exhibiting the Number of Casualties Arising from Different Causes, 1903.*

| CAUSE OF ACCIDENT.                | Fatal. | Serious. | Minor. | Total. |
|-----------------------------------|--------|----------|--------|--------|
| Falling slate .....               | 17     | 64       | 27     | 108    |
| Falling coal .....                | 1      | 16       | 5      | 22     |
| Mine cars .....                   | 5      | 40       | 18     | 63     |
| Caught by cage .....              | 3      | 3        | 5      | 11     |
| Kicked by mule .....              | .....  | .....    | 2      | 2      |
| R. R. cars .....                  | 1      | .....    | 2      | 3      |
| Windy shots .....                 | 2      | 5        | .....  | 7      |
| Delayed shots .....               | 4      | 1        | 1      | 6      |
| Premature shots .....             | 5      | 7        | .....  | 12     |
| Smoke explosion .....             | .....  | 10       | .....  | 5      |
| Shot blowing through pillar ..... | 1      | 1        | 1      | 3      |
| Suffocated .....                  | 3      | .....    | .....  | 3      |
| Powder explosion .....            | 4      | 2        | .....  | 6      |
| Explosion of kerosene .....       | 1      | .....    | .....  | 1      |
| Gas explosion .....               | 1      | 3        | .....  | 9      |
| Mining machine .....              | .....  | .....    | 2      | 2      |
| Fell down shaft .....             | 5      | .....    | .....  | 5      |
| Coal falling down shaft .....     | .....  | 1        | 1      | 2      |
| Electric shock .....              | 1      | .....    | .....  | 1      |
| Miscellaneous causes .....        | .....  | 2        | 3      | 5      |
| Total .....                       | 55     | 145      | 77     | 277    |

An investigation of each of the above fatalities, as well as a greater part of the serious accidents, was made either by myself or one of my assistants, and, with one or two exceptions, i. e., where persons lived for some time after being injured, the investigation of the fatal accidents was made in conjunction with the coroner of the county in which the accident occurred.

## COMMENTS ON ACCIDENTS.

The increased number of casualties in 1903, as indicated by this report, is attributable, in some measure at least, to the number of new mines that have been opened, thus affording more

avenues of danger—there being more coal mined, necessitating the employment of a greater number of miners and other mine employes, also the use of more explosives, all of which are important factors in the history of mine accidents. The prime factors, however, is the use, or in a majority of cases the misuse, of these explosives.

In making an inspection of a mine recently, I overheard a miner remark, "that powder was cheaper than muscle." This seems to be the maxim of the average miner today, hence the increase in the number of mine accidents.

In our report for the year 1901, we made the statement that at least fifty per cent. of the mine accidents for that year were due either directly or indirectly to the use of powder; by smoke explosions caused by a number of heavy shots being fired simultaneously; by premature and delayed shots, also by windy or blown-out shots, the latter being caused by shots that were either misplaced or overcharged; all of which is very destructive to the safety of the miners and the property of the mine owners.

It will require but a brief review of the table of causes and the description of casualties occurring in 1903, to substantiate the fact that the above statement will more than hold good for that year.

Of the thirty-four fatalities, as shown by the table, nineteen (19), 35 7-10 per cent., were due directly to the use of powder and other explosives, while seventeen (17), or nearly 31½ per cent., were due to falling slate. Conservatively speaking, at least one-half of the latter number would have been avoided had the most ordinary precaution been taken in examining the roof after shots had been fired, and by resetting props which had been knocked down by coal thrown from such shots. All of such precautions are incumbent upon the miners for their own safety.

While discussing this subject, it will not be amiss to mention two other factors that have played important parts in connection with the fatal and serious accidents that have occurred within the past three years, viz., dynamite and fuse—the former being used in conjunction with blasting powder, resulting in almost every instance in an overcharged shot, while the use of fuse in preference to squibs has been the cause of accidents in many ways, such as delayed or premature shots.



The great danger in this practice is the fact that the shot firer will commence lighting shots at the head of an entry and continue from one room to another as long as there are any shots to light in that part of the mine, and the fuse on which the shots are tamped being cut at different lengths, will occasionally result in a dozen or more exploding simultaneously, causing a severe explosion, or an accident from the extra heavy concussion.

Both of the above practices can not be condemned too severely, and there should be laws enacted prohibiting the use of either dynamite or fuse in blasting coal.

Three of the unfortunates that met their death during the year were not mine employes. One, a boy under fourteen years of age (the minimum age prescribed by law at which boys are allowed to work in the mines of this State), had been sent into the mines by his parents to assist an older brother, who had been working with their father. The father was absent on that day. The other two persons were merely visiting the mine in which they met their death.

A history of each of the other fifteen fatalities not commented on above will be found in the description of fatal accidents given below.

#### FATAL ACCIDENTS.

##### CLAY COUNTY.

January 5th—Goldy Hadley, miner, was almost instantly killed in the Gifford No. 2 Mine. He was working off some loose coal in a break through, and in doing so, uncovered a bad slip in the roof, when at about 10 o'clock, apparently without warning, a large piece of slate fell, striking him on the head, crushing it so badly that he died in twenty minutes.

January 29th—Charles Smith, miner, aged forty-five years, having a wife and two children, was fatally injured by a fall of slate in the Klondyke Mine. He was at work in his room on the morning of above date, mining off some loose coal, when about 9:30 o'clock, apparently without warning, about four tons of slate gave way from a slip which had been exposed in the roof, falling on him and inflicting injuries from which he died at 3 o'clock of same date. His room was well timbered with the exception of this slip, which had been neglected.

April 15—Dora McCullough, driver, age twenty years, married, was fatally injured by being run over with a mine car in the Cornwell Mine. Evidence obtained at the investigation shows that there was a hill some fifty or sixty yards long with about 8 per cent. grade in favor of the loaded cars on the run on which he was driving, requiring two spraggs on one side and three on the opposite side of a trip of two cars. At the time of the accident his trip was found at the bottom of the hill with one spragg in it, and McCullough was sitting up leaning against the car as if he had been squeezed by the mule. He lived about forty minutes and was not able to talk during that time. He leaves a wife and one child.

July 8th—William Buckholz, miner, age twenty-six years, married, was killed by a premature blast in the Brazil Block Coal Company's No. 1 Mine. He and three other miners were employed driving a pair of entries through a rock fault in the above mine. About 3:30 o'clock of the date above named, they had three shots ready to fire in a break through, two sumpers, one located in each corner of the place and one near the roof in the center. The two sumpers were each charged with five sticks of dynamite, tamped on eighteen inches of fuse. The accident was caused in attempting to fire them.

Buckholz lighted one and turned to light the other, when he sank or fell forward on the one he had just lighted and lay there until it had exploded, killing him instantly. The supposition is that he had an attack of heart failure which caused him to fall. He leaves a wife and three children.

November 19—James McGowan, miner, age sixty-four years, married, was fatally injured by falling slate in the Brazil Block Coal Mine No. 1. He and his son were at work in his room in the afternoon, when, apparently without warning, a large piece of slate, 14x12 feet in width and length, fell on him injuring him so that he died three days later. He leaves a dependent wife.

#### DAVIESS COUNTY.

September 28th—Charles Mandabach, miner, age thirty-four years, married, has three children, was killed by falling down the Mandabach coal shaft, located near Washington. Deceased was one of the owners of the mine, and the morning of above

date he was working on the top, dumping coal. There were no gates at the top landing, and in switching an empty car he pushed it into the shaft, himself falling to the bottom, being killed instantly. A compliance with the statute requiring gates at the top of the shaft would have prevented this accident.

#### FOUNTAIN COUNTY.

October 14th—Fred Perry, miner, age twenty-six years, single, was fatally injured in the Rush Mine. At firing time on the evening of above date, deceased was standing in the entry when a very heavy shot was fired in a room some fifty feet distant, the force of which knocked him down striking his head against the rail and fracturing his skull. Death resulted a short time after.

#### GREENE COUNTY.

January 10th—Scott Padgett, age forty-one years, married, was fatally injured by the railroad cars at the Templeton Mine. He was employed to bring the flats down to the tippie at the mine, and about 10:45 o'clock, of above date, he was riding on the front end of a car which was being pulled down to the tippie by a mule. When some distance from the tippie he jumped off the car for the purpose of making the mule travel faster, and in so doing caught his heel in the switch frog, throwing him down across the rail. The car passed over both legs crushing them so badly that amputation was necessary, death resulting a short time after the operation was performed. He leaves a wife and nine children.

March 10th—C. Shuts, miner, age seventeen years, single, was killed by a blast in the Glenburn Mine. He was working in a room with his father at the time, and on the evening of above date the father had gone home, leaving the son to fire the shots, two in number. At about 3:30 p. m. he attempted to fire one of the shots when it exploded prematurely, either from a defective squib, or by his lighting the squib too close to the powder. He lived two days after the accident.

April 28th—Ross Figgins, machine helper, age thirty years, married, was killed by falling coal in the Midland Mine. On the

above date he was at work shoveling slack after a machine. He and his machine runner were making the last cut in the right-hand corner of a room in which a piece of loose coal had been left from the preceding cut. They had the cut nearly finished, when about two and one-half tons of the coal gave way, striking and killing him instantly. He leaves a wife. This accident could have been prevented by a small amount of labor on the part of the loader in working off the loose coal.

July 1st—August Klusmier, miner, age twenty years, married, was instantly killed by falling slate in the Black Creek Mine. This accident was investigated by Mr. Dodds, Assistant Inspector of Mines, who reports that deceased did not have his room properly timbered, as being the prime cause of the accident. He leaves a wife and one child.

August 19th—Edward Culp, driver, age twenty-five years, married, was fatally injured in the Green Valley Mine. On the afternoon of above date, he had gone into an entry after a trip and had instructed another driver to follow him in and pull a car from a room outside of where Culp was going. The driver who followed him in left his empty car stand in the entry while he went into the room after the loaded one. Deceased seemingly had forgotten the instructions he had given the other driver, as he came down the entry at rather a fast rate of speed, standing on the front end of the loaded car, which collided with the empty one, crushing him, inflicting injuries from which he died ten days later. He leaves a wife and one child.

August 27th—Israel Hughes, Jerryman, age thirty years, married, was killed by falling slate in the North West No. 3 Mine. At about 11 o'clock on the above date, he and one other person were at work cleaning up a fall of slate on one of the cross entries when, apparently without warning, a large piece of slate fell on him, killing him instantly. The slate had been examined by himself and the boss in the morning before commencing work, both pronouncing it safe to work under. He leaves a wife.

August 28th—Michael Schafer, miner, age twenty-nine years, single, was fatally burned by a powder explosion in the Antioch Mine. On the afternoon of above date, he had made up his cartridges, and was cleaning a blasting barrel. In order to dry it, he fired a squib through it. The squib, passing through the

barrel, struck the face of the coal and bounded back into the loose cartridges, firing them, they in turn exploding the powder in the keg sitting near by, burning him so badly that he died three days later at St. Anthony's Hospital in Terre Haute.

October 15th—Logan Edington, miner, age seventeen years, single, was killed instantly by falling off an ascending cage in the Letsinger shaft. Little could be learned of this accident, other than the fact that the proper signal had been given. The engineer replied at the top of the shaft with the answering signal, after which deceased got on the cage and it was belled away. When the cage reached the surface he had disappeared. The supposition is that he lost his balance and fell off the cage.

December 4th—George Gilman, miner, age twenty years, was fatally injured by a delayed shot in the Black Creek Mine. Little could be learned of this accident other than the deceased had lighted his shot and retired to an adjoining room for safety, and after waiting a while, it is presumed, thinking the squib had gone out, he started back to try another one, but when within a few feet of the shot it exploded, injuring him so that he died on December 6th, at St. Anthony's Hospital, Terre Haute. He leaves a wife.

December 5th—Joseph Maney, age forty years, miner, married, was killed in the Antioch Mine by a piece of coal thrown from a shot. This accident was investigated by Assistant Inspector Mr. Thomas, and from evidence obtained it was learned that there were four shots fired inside of the room in which deceased was working, one of which was in the face of the entry about eighty to one hundred feet distant. Also that the shots in this mine are tamped on fuse. At about 3:20 o'clock the entry man lighted his shot and ran past deceased's room calling him to come. Deceased then lighted his shot and ran out on the entry. Just as he reached his room parting, the shot in the face of the entry exploded, throwing a piece of coal, which struck deceased just behind the left ear, injuring him fatally. When found by parties who returned to look for him he was lying in an adjoining room in an unconscious condition, from which he did not recover. He leaves a dependent wife and two children.

December 17th—Charles Moore, miner, age twenty-three years, single, was killed by a falling slate in the Victory Mine.

Deceased and two other persons were working at night, shooting down slate, for the purpose of making height at a point on the double parting about seventy feet from the shaft bottom in the above mine. At about 10 o'clock p. m. of the date named they had fired two shots in the slate, one on each side of the entry. The shots did not bring the slate down, but left it in such a condition that it was almost ready to fall. For some reason, deceased went in under it, it is thought to get a couple of cap-pieces to be used as wedges, and while under it a large piece of the slate fell on him, inflicting injuries from which he died at 11 o'clock the following day.

#### KNOX COUNTY.

July 14th—Walter Welty, aged seventeen years, was killed by falling down the Knox Coal Company's shaft located at Bick-nel. Deceased was not an employe of this company, but on this evening was visiting the night engineer. Deceased requested the engineer to let him down the shaft, which he refused to do. The engineer then went into the boiler room, to attend to his fires, and when he returned deceased had disappeared. On investigation he was found at the bottom of the shaft, life extinct. The supposition is that he opened the shaft gate to step on the cage, which he thought was at the ground landing. It being very dark, he did not see that the cage was not there and stepped into the open shaft.

December 14th—Claude Alsman, not an employe, age seventeen years, single, was killed by an ascending cage in the Knox Mine. This accident was investigated by Assistant Inspector Mr. Dodds, and from evidence taken at the inquest it was learned that deceased was not an employe of this company, but had gone down into the mine to visit some friends and look around the mine. When coming up out of the shaft with a number of other persons he lost his balance, presumably caused by the motion of the cage, leaned over and was caught by a buntin, and thrown back down the shaft, a distance of about seventy feet. Life was extinct when he was brought to the surface.

## PIKE COUNTY.

December 19th—Riley Rumble, driver, aged twenty-six years, single, was fatally crushed between a mine car and the entry rib in the Littles Mine. He was standing on the front end of a trip of cars at a double parting. There were four mules standing in the way, and he was waiting for them to move, so that he could start to the shaft bottom with his trip. When his mule started to pull the cars, in leaning over to avoid the other mules, he was caught between the car and the rib and crushed so badly that he died two days later.

## PARKE COUNTY.

January 7th—Peter August Johnson, miner, aged seventy-six years, single, was killed in the Mary Mine. He was at work loading a car of coal on the morning of above date, working some eight feet back from the face of his room, which was well timbered, when a piece of slate, about 250 pounds weight, fell on his back, driving his face to the floor. The supposition is, that the blow stunned him, and that while in this unconscious condition with the rock laying on his head, holding his face to the floor, he was smothered to death.

June 5th—William Daniels, shot firer, aged thirty-nine years, married, met his death by suffocation in the Briar Hill Mine. Deceased and one other miner were employed to fire the shots in the above mine.

It was developed by the investigation that on the evening of the 5th, they had nearly completed their work and a number of very heavy shots had been fired on the first south entry, this being the point where they were then working. The supposition is, that Daniels lost his way in the mine, owing to the powder smoke. When found he was lying near the face of the entry where the first shots were fired life extinct. He leaves a wife and two children. Overcharged shots were largely responsible for this accident.

July 6th—Jesse Perkins, miner, age fifty-two years, married, was killed by a premature shot in the Zeller-McClellan Columbia No. 1 Mine. He had tamped a shot on a fuse on the evening

of above date and about 3 o'clock attempted to fire it. The shot exploded while he was still trying to ignite the fuse, pieces of coal striking him and killing him instantly. His nephew, who was waiting to fire a dirt shot at the time, was also seriously injured by flying coal, having his leg fractured and was otherwise cut and bruised. Deceased leaves a wife. Had a squib been used in this instance, the accident might have been avoided.

August 14th—Bass Montgomery, fireman, age twenty-six years, married, was fatally burned by an explosion of coal oil at the Lucia Mine. About 2 o'clock on the night of above day, he was filling his miner's lamp from a coal oil can containing about one-half gallon of oil. While so engaged the oil in the can exploded burning him so badly that he died at 4 o'clock the following afternoon. He leaves a wife and four children.

September 15th—James Rosa, miner, age seventeen years, single, was suffocated by breathing heated powder smoke in the Columbia No. 2 Mine. He had gone into the mine about 7 o'clock p. m. of above date with Vennela Guido, a fellow miner, to assist him in firing a couple of shots, and as they did not come out as soon as expected, a searching party went into the mine after them. Both men were found unconscious in the room where the shots had been fired and deceased never regained consciousness. His companion, however, recovered after being brought to the surface, though suffering from the injuries received. It is presumed, as there was no evidence of their having been injured by coal, slate, or otherwise, that they had gone back into the room after the shots were fired to note results and were overcome by the smoke.

October 31st—Thomas Kerrick, miner, age twenty-eight years, married, was fatally injured by falling slate, in the Briar Hill Mine.

Deceased had gone into a fellow-miner's room to visit, and was standing somewhere near the center of the room when a piece of draw slate three and one-half inches thick, measuring eighteen by twenty-four feet wide, fell on him and so injured him that he died one hour later. He leaves as dependents a wife and two children.

November 30th—Albert E. Snodgrass, trapper, age fifteen years, was fatally injured by falling slate, in the Mecca No.



1 Mine. About 11 o'clock a. m. of above date, he was following his driver from his door out to the double parting when a large piece of slate measuring eleven by eight feet, length and breadth, four inches in thickness fell on him, inflicting injuries from which he died ten hours later

February 28th—Charles Wilden, miner, age forty-nine years, married, was fatally injured in the Cox No. 3 Mine, by being struck with pieces of coal thrown from a delayed shot. He had two shots ready to fire at firing time, 3:30 p. m., on the evening of above date, one of which he had lighted and retired to a place of safety. After waiting awhile, he heard a shot explode, which he thought was in his room. Results, however, proved it to be in an adjoining room. Having heard the explosion, he started back into his room to light what he thought was his remaining shot and when within ten or twelve feet of the face, his first shot exploded, pieces of coal from it striking and injuring him to such an extent that he died the evening of the same day. He leaves a wife and eight children. A compliance with the statute, requiring shots to be fired in rotation would have prevented this accident.

March 2d—Julius Currey, miner, single, age eighteen years, was killed by falling slate in the Lucia Mine. Evidence obtained at the investigation shows that at the time of the accident at 7:30 a. m., he was either setting a prop, or sounding the roof, it could not be determined which. He was found under a piece of slate with a sledge hammer in his hands. The section of slate was twenty-one feet long, seven feet wide and about eight inches thick. There were thirty-eight available props in the room at the time of the accident, and had a part of them been set, the accident could have been prevented.

May 15th—Matthew Barr, miner, age thirteen years, was fatally injured by falling slate in the Columbia No. 2 Mine. This was his first day in the mine and he was working with his father driving a break through off of a double parting. They had finished their day's work about 1:30 o'clock p. m., and the boy was back at the mouth of the break through gathering up some picks, when about one hundred pounds of slate fell on him, injuring him so that he died on the following day.

## SULLIVAN COUNTY.

March 5th—Walter Kemp, driver, age twenty-two years, single, was killed in the Hymera No. 2 shaft about 11 o'clock on the morning of above day. Kemp, who was driving a mule on the night shift, got on the cage with his mule preparatory to leaving the mine. The cage was belled away in the usual manner, but when it reached the surface the mule was found standing on the cage, but the driver had disappeared. The alarm was given at once and on investigation, Kemp was found in the sump at the bottom of the shaft. No outcry, that would indicate what caused him to fall off the cage, had been heard.

March 14th—George Bemis (not employed), age fourteen years, was fatally injured by a mine car, in the Phoenix No. 5 Mine. On the morning of above day, he had gone into the mine to help his brother, and was assisting him to load a car of coal. There was considerable loose coal thrown on the roadway by a shot some distance back from the face of the room. The room they were working dips with rather a strong grade toward the face. In cleaning up the roadway, they had used a cap-piece to check the car. Deceased was working in front of the car, attempting to remove the chalk from in front of the car wheel for the purpose of letting the car down nearer the face of the room, when it started and caught him against a prop, crushing him, inflicting injuries from which he died within a few hours.

April 2d—Murry Hunt, driver, age twenty-one years, married, was fatally injured by a gas explosion in the Green Hill Mine. On the morning of above day, Hunt, in company with another laborer and the mine boss, had gone into the mine for the purpose of repairing a dam which had been built to shut off the water in the old workings. The dam had been constructed of three walls of timber, packed between with clay. In order to make the necessary repairs, the greater portion of these timbers had to be torn out.

By 9:30 o'clock a. m. two of the walls had been removed, and the mine boss had picked up a bar and knocked out the wedge over the inner wall and raised his lamp to the opening for the purpose of examining the interior of the dam. Considerable gas

had accumulated in the old workings, which found vent through the opening just made and ignited from his lamp, causing an explosion. Hunt, who was standing directly in front of the dam, received the full force of the explosion, and was burned and bruised so badly that he died while being taken home, a distance of two miles. Carelessness on the part of the mine boss was exhibited here, he knowing that the mine generated both black and fire damp and that tearing away the barrier would allow either to flood that part of the workings.

May 11th—Ludwig Hoffman, loader, age twenty-five years, single, was killed by falling slate in the Star City Mine. On the evening of above date, he and another miner, with whom he was working had fired four shots, three in one room and one in the inside adjoining room, firing the one in the inside room last. On their way out of the mine they were crossing the outside room, which was very smoky, and Hoffman was in advance, had gotten about half way across it, when suddenly a large piece of slate gave way, falling on him and killing him instantly.

June 10th—Isaac Prior, timberman, age fifty-nine years, married, having a wife and four children, was fatally injured by falling slate in the Shelburn Mine. About 2:25 p. m. he was standing in the main air course, opposite a break through. The supposition is, that he was examining the roof when a large piece of slate fell on him, injuring him so that he died about 5 o'clock in the afternoon of the same day.

July 3d—Clarence Wharton, age eighteen years, single, was killed by falling slate in the Dugger Mine. This accident occurred at a double parting on one of the cross entries, the parting being a terminal for both mule and motor haulage.

The slate which fell on deceased was located at the inside end of this parting and was known to be loose for several days. Charles Wharton, father of deceased and assistant mine boss, had tried to take it down prior to the accident, but failed. About 10 o'clock on above date, deceased came into the parting with a loaded trip, and having turned his mule was in the act of hitching it to an empty car, when a large piece of slate measuring eight feet in length, three feet wide, and from six to twenty-two inches thick fell on him, killing him instantly. It appears from the foregoing that the proper precaution was not taken in this

instance, or the accident might have been prevented. The facts that the loose slate was located at a double parting where the drivers and mules during the day frequently were compelled to pass under it, in going to and from their work, and that the noise made by the tramping of the mules, moving mine cars, motors, etc., would drown any noise made by the slate in cutting, chipping, or other indications that it was about to fall, should have impelled double precautions being taken at points of this kind, in the way of timbering or taking the slate down.

October 8th—J. E. Chapple, miner, age nineteen years, single, was fatally burned by the explosion of a keg of powder in the Jackson Hill No. 2 Mine. A keg of powder which belonged to the deceased had been sent down the mine and was left laying on the roadside until it came his turn for a car. Deceased and a fellow miner were playing with the powder, driving nails into the keg, thus causing a spark which ignited the powder and brought about the explosion with the above results.

October 14th—A. L. Gaston, timberman, age thirty-nine years, married, was killed by falling down the Island Company's shaft No. 4. He was at work on the above date, putting a midwall between the hoisting and fan shafts. The midwall had been constructed to a depth of about one hundred and thirty feet, and the fan shaft was four by nine feet in size.

Deceased was lowering his brattice lumber shiplap, six inches by sixteen feet, down the fan shaft in a sinking bucket, the bucket being about two feet ten inches across. About 1:15 p. m. of above date, he had loaded the bucket with fifteen pieces of the shiplap, which were set in loose, the top ends dragging down the side of the shaft. He also got into the bucket himself to descend. Although advised by both the mine boss and the engineer not to do so, he persisted in going down with the lumber, and when about one hundred and thirty feet from the surface, which is about half way down, by some means or other he fell out of the bucket, falling to the bottom of the shaft and was instantly killed. He leaves a wife and six children.

December 8th—Adolph Hellman, loader, age forty years, married, was killed by a shot blowing through a pillar in the Hymera No. 1 Mine. He was working in room No. 30 on the second south entry. The room was only partially turned, being driven in

about twenty feet, and is directly opposite a break through which had been driven from the second south to within one foot of being through to inside south entry. This entry had been driven just about to the outside edge of the break through, and the entry man in the first south had drilled a hole in his entry in the rib next to the break through, and judging from the depth of the hole knew that his powder would be bedded somewhere opposite. Also knowing that the pillar was very thin, he warned deceased of the danger of remaining in his room when the shot was fired. About 1:30 o'clock p. m. the entry man lighted his shot and called deceased to come out of his room, he replied all right, but continued at his work until the shot exploded, blowing through the pillar and throwing a large quantity of loose coal into the room neck, striking him and killing him instantly. He leaves a wife and two children.

#### VANDEBURGH COUNTY.

The first fatal accident to occur in the mines of Indiana, during the year 1903, was that of Louis Pletcher and Richard Sanders, miners, both of whom were killed by a premature shot in the Sunnyside Mine, at Evansville, about 3 o'clock p. m., January 3d. There was no one present at the time the shot was fired, and as life was extinct in both when they were found, little could be learned as to the exact cause of the accident. On examination of the working place and surroundings, the face of a twelve-foot entry disclosed the fact that there had been two shots prepared, ready to fire, one in each corner of the face, but only one of which had been fired; the squib in the remaining shot showing evidence of having been lighted, as the sulphur on the match was considerably charred. Pletcher and Sanders were working buddies, driving a pair of entries together, and the presumption is that both had gone into the entry where the accident occurred, for the purpose of firing the two shots, each man to light one, and in doing so, the shot which exploded was either lighted too close to the powder, or the squib was defective, and when the shot exploded the concussion extinguished the remaining squib, with the result as above described.

December 2d—Wm. Ray, miner, age fifteen years, was fatally burned by a powder explosion in the Sunnyside Mine. About

10 o'clock a. m. of above date, he was filling a can of powder from a full keg, when his lamp fell into the can, exploding the powder therein as well as the remaining powder in the keg, inflicting burns from which he died during the night following.

#### VERMILLION COUNTY.

May 15th—Thomas Durkin, driver, age thirty-five years, married, was fatally injured by mine cars in the Oak Hill Mine. About 11 o'clock a. m. of above date, deceased had come out to the double parting with a loaded trip. The double parting is located at the foot of a hill some two hundred yards in length; the coal being hauled from this point by rope haulage.

A trip of fifteen cars had just reached the top of this hill, which rises with rather a sharp grade, when in some way they became detached from the rope and ran back down the hill into the empty siding, striking the empties between which deceased was standing, injuring him so that he died on the evening of the same day. He leaves a wife and two children.

July 27th—Joseph E. Balcak, car coupler, age twenty-six years, single, was killed by coming in contact with an electric wire, in the Klondyke Mine. About 1 o'clock of above date he was coupling cars on a siding or double parting which forms the east terminal of the motor haulage in the Klondyke Mine. The trolley wire extends in past the siding a short distance, and stands about thirteen inches above the top of the mine cars and about on a line with the outer edge of the car. Deceased had stooped under the wire, reached in between the cars and made his coupling and when rising touched the wire with his left shoulder. He tried to make an outcry and a trapper boy standing nearby seeing his condition ran to him and tried to pull him away from the wire, receiving a shock which knocked him down. The boy then ran for help, but when it had arrived Balcak was dead.

As soon as notified of the accident the engineer examined his voltmeter and found that it was carrying but two hundred and forty-seven volts, two hundred and fifty being the maximum load carried. It is generally considered by electricians and other persons conversant with electric power that two hundred and fifty volts will not kill a human being, and in fact is not considered

dangerous unless the contact continues for some length of time. In this connection we may say, there is never a day, in the mines somewhere in the State that some person does not come in contact with a live wire carrying two hundred and fifty volts, with no serious results.

In the above case, however, a combination of circumstances brought about the accident. The floor around the double parting was wet, and deceased was sweating and was resting his hands on the car irons, his left side also touching the irons on the car and his left shoulder the live wire, thus forming a direct circuit through his heart, which may possibly have been weak. The evidence proves conclusively that this death at least was due entirely to an electric shock.

July 20th—Harry Titus, miner, age twenty-five years, was fatally burned by a powder explosion in the Indiana Fuel Coal Company's No. 5 Mine. On the evening of above date he was making up his cartridges preparatory to charging his shots and was pouring the powder into the cartridge from a quart can which he had filled from his full keg, sitting near by. A spark fell from his lamp into the can, firing it, and this in turn exploding the powder in the keg, with above results. Had deceased observed the statute governing the distance a lamp shall be set from the powder when cartridges are being made up, this accident would not have occurred. Titus leaves a dependent wife and three children.

September 29th—Benjamin Bishop, shot firer, age thirty-five years, married, met his death from the effects of a windy or blown-out shot in the Indiana Fuel Coal Company's No. 5 Mine. Deceased and one other miner were employed as shot firers in the above mine. On the evening of the date mentioned they had nearly completed their work, each man working in separate parts of the mine. About 8 o'clock p. m. deceased fired a shot in the face of an entry. This shot was drilled three feet past the cutting or loose end, one foot past the cutting or loose end being the maximum distance. The shot was five and one-half feet thick, five feet being the maximum thickness provided by law.

The shot was fired with eight pounds of black powder and caused a smoke explosion. When found deceased was lying in

a room about fifteen feet from the face of the entry, life extinct. He leaves as dependents three children.

### VIGO COUNTY.

January 26th—John Crabb, miner, age forty-eight years, married, was killed in the Glen Oak Mine. He was at work in his room loading a car, at 7:30 o'clock on the morning of above date, when about two tons of slate fell on him, killing him instantly.

His room was well timbered to within seven feet of the face, a large water slip lay across the face of the room which had been exposed by shots fired the previous evening, and he either did not notice it, or failed to examine the roof, as this was the direct cause of the accident. Deceased leaves a wife and five children.

January 26th—James Wesmer, miner, married, was suffocated by inhaling the smoke and heated air, caused by the burning of the tippie at the Harris and Lankford Mine. Somewhere between the hours of 8 and 10 o'clock on the morning of above date, Archie Ferguson, one of the top men employed about the mine placed a can of black oil or car grease by the side of the stove in the tippie, for the purpose of melting it, after which he resumed his work incident to the care of the pit top. The grease being set so close to the stove, soon became very hot and ignited, setting fire to the tippie, completely destroying it together with the head frame and fan house. There were nineteen persons and two mules in the mine at the time of the fire.

The driver at the bottom of the shaft was notified as soon as the fire was discovered and he gave the alarm to the men inside the mine, after which he returned to the shaft bottom and was hoisted to the surface on the cage. By this time, however, the fire had gained such headway that the cages could not be used, and there being no manway, or second outlet, at this mine, the miners with one exception, Virgil Beck, who climbed the buntins, remained in the mine until the tippie had burned and until arrangements could be made for a rescuing party to enter and assist them. When the rescuing party had reached the men, it found Wesmer and four other persons badly overcome by the smoke and heated air. Wesmer died within a few minutes after being brought to the surface. The other four recovered in a very short



time with no very serious results. Fortunately none of the other miners were injured. Wesmer leaves a wife.

November 26th—Abel H. Pell, miner, age thirty years, married, was killed at the bottom of the J. Ehrlich coal shaft. He was at work on the above date, with the mine boss and a fellow miner, removing the old guides in the shaft preparatory to replacing them with new ones.

From evidence obtained at the investigation, Pell was working about seven feet up from the bottom of the shaft, standing on a buntin. About 8:30 the cage in the compartment in which they were working was ordered to the top of the shaft for the purpose of sending down a new guide timber, and it is supposed that the cage or water box, while descending in the opposite compartment from where deceased was standing, caught his head against a buntin, crushing it and killing him instantly.

#### WARRICK COUNTY.

September 25th—Thomas Robinson, miner, age fifty-five years, was fatally injured by a delayed shot in the John Archibald Coal Company's No. 1 Mine. At firing time, 3.30, on the evening of above date, he was attempting to fire a shot, having lighted the squib and retired to a place of safety. The squib did not fire as quickly as he thought it should and after waiting awhile thinking it had gone out, he went back into his place for the purpose of trying another one. When he had gotten within about eighteen feet of the face, the shot exploded, pieces of coal striking and so injuring him that he died within a few minutes. He leaves a wife and one child dependent.

September 11th—Stigal, miner, age fifty-three years, married, was killed by a premature blast in the Air Line Mine. From evidence obtained at the investigation of this accident it is evident that it was due to one of two causes, viz., a faulty squib, or carelessness in lighting it. An eyewitness who was standing within eighteen feet of deceased when he attempted to fire the shot testifies that the shot exploded almost the instant he touched the squib with his light. He leaves a wife and two children.

September 29th—Henry Shopenhurst, miner, married, was fatally injured by falling slate in the Big Vein No. 3 Mine. At 7:30 a. m. he was at work in his room loading a car of coal, shoveling from in front of the car. Suddenly a large body of coal gave way falling on him and injuring him to such an extent that he died at 11 o'clock a. m. of the same day. He leaves a wife.

A summary of the names of persons, occupation, date and cause of each death, the name of the mine and county in which the fatalities occurred are given in the following table:

# TABLE OF FATAL CASUALTIES.

## CLAY COUNTY.

| DATE.          | NAME.                | Age. | Depend-<br>ents. | RESIDENCE.      | OCCUPATION. | CAUSE OF<br>ACCIDENT. | MINE.               | COMPANY.                    |
|----------------|----------------------|------|------------------|-----------------|-------------|-----------------------|---------------------|-----------------------------|
| January 5....  | Goldy Hadley.....    | 45   | 3                | Brazil.....     | Miner.....  | Falling slate.....    | Gifford No. 2.....  | Collins Coal Co.            |
| January 29.... | Chas. Smith.....     | 20   | 2                | Staunton.....   | Miner.....  | Falling slate.....    | Klondyke.....       | C. Ehrlich Coal Co.         |
| April 16.....  | Dora McCullough..... | 30   | 4                | Cardona.....    | Driver..... | Mine car.....         | Cornwell.....       | Jackson Coal and Mining Co. |
| July 8.....    | Wm. Buckholz.....    | 64   | 1                | Brazil.....     | Miner.....  | Premature blast.....  | Brazil B No. 1..... | Brazil Block Coal Co.       |
| November 18..  | Jas. McGowan.....    | 34   | 3                | Knightsville... | Miner.....  | Falling slate.....    | Brazil B No. 7....  | Brazil Block Coal Co.       |

## DAVIESS COUNTY.

|                |                      |    |   |                |             |                     |                |                   |
|----------------|----------------------|----|---|----------------|-------------|---------------------|----------------|-------------------|
| September 28.. | Chas. Mandabach..... | 34 | 3 | Washington.... | Miner.....  | Fell down shaft.... | Mandabach..... | Mandabach Bros.   |
| June 26.....   | Mat Ryan.....        | 38 | 4 | Cannelburgh... | Driver..... | Falling slate.....  | Mutual.....    | Mutual Mining Co. |

## FOUNTAIN COUNTY.

|                |                 |    |     |            |            |                 |           |               |
|----------------|-----------------|----|-----|------------|------------|-----------------|-----------|---------------|
| October 14.... | Fred Perry..... | 26 | ... | Cates..... | Miner..... | Windy shot..... | Rush..... | Rush Coal Co. |
|----------------|-----------------|----|-----|------------|------------|-----------------|-----------|---------------|

## GREENE COUNTY.

|                |                      |    |     |                 |                |                     |                   |                          |
|----------------|----------------------|----|-----|-----------------|----------------|---------------------|-------------------|--------------------------|
| January 10.... | Scott Padgett.....   | 41 | 10  | Linton.....     | Laborer.....   | Run over by cars..  | Templeton.....    | Western Indiana Coal Co. |
| March 10.....  | Charles Shute.....   | 17 | ... | Linton.....     | Miner.....     | Premature shot..... | Glenburn.....     | Dickason Coal Co.        |
| April 23.....  | Ross Figgins.....    | 30 | 1   | Midland.....    | Machine hand.. | Falling coal.....   | Midland.....      | Midland Coal Co.         |
| July 1.....    | August Klusmier..... | 30 | 2   | Linton.....     | Miner.....     | Falling slate.....  | Black Creek.....  | Black Creek Coal Co.     |
| August 19....  | Edward Culp.....     | 25 | 2   | Jasonville..... | Driver.....    | Mine cars.....      | Green Valley..... | Green Valley Coal Co.    |
| August 27....  | I. Hughes.....       | 30 | 1   | Jasonville..... | Laborer.....   | Falling slate.....  | Northwest No. 1.. | Northwest Coal Co.       |
| August 28....  | Mike Schafer.....    | 29 | ... | Antioch.....    | Loader.....    | Powder explosion..  | Antioch.....      | Antioch Coal Co.         |
| October.....   | Logan Edgington..... | 18 | ... | Midland.....    | Miner.....     | Fell off cage.....  | Letsinger.....    | Letsinger Coal Co.       |
| December 4.... | Geo. Gilman.....     | 30 | 1   | Linton.....     | Miner.....     | Delayed shot.....   | Black Creek.....  | Black Creek Coal Co.     |
| December 5.... | Jos. Maurey.....     | 40 | 3   | Antioch.....    | Miner.....     | Coal from shot..... | Antioch.....      | Antioch Coal Co.         |
| December 17..  | Chas. Moore.....     | 23 | 1   | Linton.....     | Laborer.....   | Falling slate.....  | Victoria.....     | Victoria Coal Co.        |

## TABLE OF FATAL CASUALTIES—Continued.

## KNOX COUNTY.

| DATE.         | NAME.              | Age. | Depend-<br>ents. | RESIDENCE.   | OCCUPATION.   | CAUSE OF<br>ACCIDENT. | MINE.     | COMPANY.      |
|---------------|--------------------|------|------------------|--------------|---------------|-----------------------|-----------|---------------|
| July 14. .... | Walter Welty.....  | 17   | 1                | Bicknel..... | Not employed. | Fell down shaft....   | Knox..... | Knox Coal Co. |
| December 14.  | Claude Alzman..... | 17   | ...              | Bicknel..... | Not employed. | Ascending cage....    | Knox..... | Knox Coal Co. |

## PIKE COUNTY.

|              |                   |    |     |              |             |                |              |                        |
|--------------|-------------------|----|-----|--------------|-------------|----------------|--------------|------------------------|
| December 19. | Riley Rumble..... | 26 | ... | Littles..... | Driver..... | Mine cars..... | Littles..... | S. W. Littles Coal Co. |
|--------------|-------------------|----|-----|--------------|-------------|----------------|--------------|------------------------|

## PARKE COUNTY.

|               |                       |    |     |               |                 |                     |                  |                           |
|---------------|-----------------------|----|-----|---------------|-----------------|---------------------|------------------|---------------------------|
| January 7.... | P. A. Johnson .....   | 76 | ... | Brazil .....  | Miner .....     | Falling slate.....  | Mary.....        | Otter Creek Coal Co.      |
| February 28.. | Cbas. Wilden .....    | 49 | 9   | Coxville..... | Miner .....     | Delayed shot.....   | Cox No. 3.....   | Brazil Block Coal Co.     |
| March 2.....  | Julius Curry .....    | 18 | ... | Mecca.....    | Miner .....     | Falling slate.....  | Lucia.....       | Rock Run Coal Co.         |
| May 15.....   | Matthew Barr .....    | 13 | ... | Perth .....   | Miner .....     | Falling slate.....  | Columbia No. 3.  | Zeller-McClellan Co.      |
| June 15.....  | Wm. Daniels .....     | 39 | 2   | Coxville..... | Shot firer..... | Suffocated.....     | Briar Hill.....  | Raccoon Valley Coal Co.   |
| July 6.....   | Jesse Perkins .....   | 52 | 1   | .....         | Miner .....     | Premature shot..... | Columbia No. 1.  | Zeller-McClellan Co.      |
| August 14.... | Bass Montgomery ..... | 26 | 5   | Mecca.....    | N fireman.....  | Explosion .....     | Lucia.....       | Rock Run Coal Co.         |
| September 15  | James Rosa .....      | 18 | ... | .....         | Miner .....     | Suffocated.....     | Columbia No. 2.  | Zeller-McClellan Co.      |
| October 30... | Thos. Kerrick .....   | 28 | 3   | Coxville..... | Miner .....     | Falling slate.....  | Briar Hill.....  | Raccoon Valley Coal Co.   |
| November 30.  | Albert Snodgrass..... | 15 | ... | Mecca.....    | Trapper .....   | Falling slate.....  | Mecca No. 1..... | Mecca Coal and Mining Co. |

## SULLIVAN COUNTY.

|                |                        |    |     |                 |                |                     |                   |                                |
|----------------|------------------------|----|-----|-----------------|----------------|---------------------|-------------------|--------------------------------|
| March 5.....   | Walter Kemp .....      | 22 | ... | Hymers.....     | Driver .....   | Fell off cage ..... | Hymers No. 2 ..   | Hymers Coal and Mining Co.     |
| March 14.....  | George Bemis .....     | 13 | ... | Alum Cave ..... | Not employed.  | Mine car .....      | Phoenix No. 5 ..  | N. Pittsburg Coal and Coke Co. |
| April 2.....   | Murry Hunt .....       | 21 | 2   | Sullivan .....  | Driver .....   | Gas explosion ..... | Green Hill.....   | Green Hill Coal Co.            |
| May 11.....    | Ludwig Hoffman .....   | 25 | ... | Star City.....  | Loader .....   | Falling slate.....  | Star City.....    | Harder-Hater Coal Co.          |
| January 10...  | Isaac Prior .....      | 57 | 6   | Shelburn.....   | Timberman..... | Falling slate.....  | Shelburn.....     | Keystone Coal Co.              |
| July 3.....    | Clarence Wharton ..... | 18 | ... | Dugger .....    | Driver .....   | Falling slate.....  | Dugger.....       | Indiana Chicago Coal Co.       |
| October 8..... | J. E. Chapple .....    | 19 | ... | Jackson Hill... | Miner .....    | Explosion .....     | Jackson Hill No.2 | Jackson Hill Coal and Coke Co. |

|                  |                      |    |   |                |                 |                       |                    |                 |
|------------------|----------------------|----|---|----------------|-----------------|-----------------------|--------------------|-----------------|
| October 14 ..... | A. L. Gaston .....   | 56 | 7 | Superior ..... | Timberman ..... | Fell down shaft ..... | Island No. 4 ..... | Island Coal Co. |
| December 18.     | Adolph Hellman ..... | 40 | 3 | Hymera .....   | Loader .....    | Shot through pillar   | Hymera No. 1 ..... | Hymera Coal Co. |

## VANDERBURGH COUNTY.

|                  |                       |       |       |                  |             |                        |                 |                    |
|------------------|-----------------------|-------|-------|------------------|-------------|------------------------|-----------------|--------------------|
| January 3 .....  | Louis Pletcher .....  | ..... | ..... | Evansville ..... | Miner ..... | Premature shot .....   | Sunnyside ..... | Sunnyside Coal Co. |
| January 3 .....  | Richard Sanders ..... | ..... | ..... | Evansville ..... | Miner ..... | Premature shot .....   | Sunnyside ..... | Sunnyside Coal Co. |
| December 2 ..... | Wm. Ray .....         | 15    | ..... | Evansville ..... | Miner ..... | Powder explosion ..... | Sunnyside ..... | Sunnyside Coal Co. |

## VERMILLION COUNTY.

|               |                       |    |       |               |                   |                        |                        |                   |
|---------------|-----------------------|----|-------|---------------|-------------------|------------------------|------------------------|-------------------|
| May 15 .....  | Thos. Durkin .....    | 35 | 3     | Clinton ..... | Driver .....      | Mine car .....         | Oak Hill .....         | Oak Hill Coal Co. |
| July 27 ..... | Jos. Bal oak .....    | 26 | ..... | Clinton ..... | Car coupler ..... | Electric shock .....   | Prince .....           | Keller Coal Co.   |
| July 30 ..... | Harry Titus .....     | 25 | 4     | Clinton ..... | Miner .....       | Powder explosion ..... | Bruliettes No. 5 ..... | Indiana Fuel Co.  |
| September 29. | Benjamin Bishop ..... | 35 | 3     | Clinton ..... | Shot firer .....  | Windy shot .....       | Bruliettes No. 5 ..... | Indiana Fuel Co.  |

## VIGO COUNTY.

|                  |                     |       |       |                      |             |                       |                       |                     |
|------------------|---------------------|-------|-------|----------------------|-------------|-----------------------|-----------------------|---------------------|
| January 6 .....  | John Crabb .....    | 48    | 6     | Burnett .....        | Miner ..... | Falling slate .....   | Glen Oak .....        | Glen Oak Coal Co.   |
| January 25 ..... | James Wesmer .....  | ..... | 1     | W. Terre Haute ..... | Miner ..... | Suffocated .....      | Harris-Lankford ..... | Harris & Lankford.  |
| June 2 .....     | Joseph Selker ..... | 29    | ..... | .....                | Cager ..... | Descending cage ..... | Nickel Plate .....    | Brazil Mining Co.   |
| November 26.     | Abel H. Pell .....  | 30    | 6     | Seeleyville .....    | Miner ..... | Descending cage ..... | Ehrlich .....         | J. Ehrlich Coal Co. |

## WARRICK COUNTY.

|               |                      |       |   |                 |             |                      |                      |                       |
|---------------|----------------------|-------|---|-----------------|-------------|----------------------|----------------------|-----------------------|
| September 11. | Wm. Stigal .....     | 53    | 3 | Chandler .....  | Miner ..... | Premature shot ..... | Air Line .....       | Hall & Marsh.         |
| September 25. | Thos. Robinson ..... | 55    | 2 | Newburg .....   | Miner ..... | Delayed shot .....   | Star No. 1 .....     | J. Archibald Coal Co. |
| September 29. | H. Shopenhurst ..... | ..... | 1 | Boonville ..... | Miner ..... | Falling coal .....   | Big Vein No. 3 ..... | J. Woolly Coal Co.    |

TABLE.

*Nationality of Persons Killed in Indiana Mines in 1903.*

|                |    |                |    |
|----------------|----|----------------|----|
| American ..... | 30 | Polish.....    | 1  |
| Irish.....     | 3  | Slav.....      | 1  |
| English.....   | 3  | Hungarian..... | 2  |
| Negro.....     | 4  | Austrian.....  | 1  |
| German.....    | 8  | Total.....     | 55 |
| Swede.....     | 1  |                |    |
| Scotch.....    | 1  |                |    |

COMPARATIVE TABLE,

*Showing Number of Tons Mined in Each Year, the Number of Persons Employed,  
and the Number of Tons Produced Per Each Death from  
January 1, 1879, to January 1, 1904.*

| YEAR.     | Tons<br>Produced. | Number of<br>Employes. | Deaths. | Tons<br>Per Death. |
|-----------|-------------------|------------------------|---------|--------------------|
| 1879..... | 1,196,490         | 3,459                  |         | No report          |
| 1880..... | 1,550,375         | No report              |         |                    |
| 1881..... | 1,771,576         | 4,567                  | 10      | 177,153            |
| 1882..... | 1,900,000         | No report              |         |                    |
| 1883..... | 2,560,000         | 5,403                  | 11      | 232,727            |
| 1884..... | 2,260,000         | 5,716                  | 9       | 228,888            |
| 1885..... | 2,375,000         | 6,502                  | 7       | 339,285            |
| 1886..... | 3,000,000         | 6,406                  | 7       | 428,571            |
| 1887..... | 3,217,711         | No report              |         |                    |
| 1888..... | 3,140,979         | 6,685                  | 17      | 184,763            |
| 1889..... | No report         |                        |         |                    |
| 1890..... | 3,791,211         | 6,550                  | 5       | 758,242            |
| 1891..... | 3,819,600         | 6,975                  | 5       | 763,900            |
| 1892..... | 4,408,471         | 7,600                  | 19      | 232,024            |
| 1893..... | 4,358,897         | 7,431                  | 22      | 193,586            |
| 1894..... | No report         |                        |         |                    |
| 1895..... | 4,224,084         | 7,885                  | 23      | 182,699            |
| 1896..... | 4,068,124         | 7,112                  | 28      | 170,200            |
| 1897..... | 4,088,100         | 7,984                  | 16      | 262,630            |
| 1898..... | 5,146,920         | No report              | 22      | 233,950            |
| 1899..... | 5,864,975         | 7,366                  | 15      | 390,997            |
| 1900..... | 6,883,083         | 8,858                  | 18      | 382,169            |
| 1901..... | 7,019,203         | 12,496                 | 24      | 292,466            |
| 1902..... | 8,763,197         | 13,139                 | 24      | 365,133            |
| 1903..... | 9,942,553         | 15,128                 | 55      | 181,683            |

## SERIOUS ACCIDENTS.

The same conditions, causes, etc., will apply to the serious accidents occurring in 1903 as those shown in the description and comments on the fatal accidents.

An aggregate of one hundred and forty-five (145) serious accidents is shown in the table of causes, sixty-four (64), or nearly forty-four per cent., of which were caused by falling slate. On

investigation, at least 19 per cent. of those were found to have occurred at or near the working faces, and in a number of instances were the result of gross carelessness on the part of those injured by reason of their failure to examine the roof, take down loose slate and lack of sufficient props being set.

Twenty-six, or eighteen per cent., were due to explosives, causing windy shots, premature and delayed shots, overcharged shots, shots blowing through pillars, smoke explosions, etc. Of this number there are but few exceptions where the accident could not have been prevented by a reasonable amount of care on the part of those injured while handling explosives, tamping, charging, placing and firing shots.

Forty, or a fraction over twenty-seven and one-half per cent., of the one hundred and forty-five accidents, were caused by mine cars, and those injured were in most instances drivers. Of this class of accidents little can be said, other than the fact that driving is more hazardous than any other employment in or about a mine.

Three persons were burned, two slightly and one seriously, at the same time by a gas explosion. This accident could have been prevented had the persons injured heeded the advice and warning given them by a fellow workman, who on entering the mine early in the morning discovered that the mine doors used in directing the air current into the entry where the explosion occurred, had been left open during the night, thus cutting off the air from that part of the mine and allowing the gas to accumulate.

The remaining accidents were due to the different kinds of employment incident to the operations of a mine, and were generally not of a very serious nature.

A summary of the names of persons injured, occupation, dates, cause and extent of injury, the name of the mine company and county wherein serious accidents have occurred during the year 1903, are given in the following table:

## TABLE OF SERIOUS ACCIDENTS.

## CLAY COUNTY.

| DATE.    | NAME.                   | OCCUPATION.   | INJURY.               | CAUSE.               | MINE.                | COMPANY.                  |
|----------|-------------------------|---------------|-----------------------|----------------------|----------------------|---------------------------|
| Jan. 30. | Dominic Delaco .....    | Miner .....   | Back injured .....    | Falling slate .....  | Diamond No. 5 .....  | Brazil Block Coal Co.     |
| Feb. 10. | Archer Hagerty .....    | Miner .....   | Back injured .....    | Falling slate .....  | Diamond No. 5 .....  | Brazil Block Coal Co.     |
| Feb. 17. | William Patterson ..... | Driver .....  | Foot crushed .....    | Mine car .....       | Cloverland .....     | Cloverland Coal Co.       |
| Feb. 4.  | Fred Hale .....         | Miner .....   | Back injured .....    | Falling slate .....  | Monarch .....        | American Sewer Pipe Co.   |
| Feb. 28. | Verner Jones .....      | Miner .....   | Back injured .....    | Falling slate .....  | Monarch .....        | American Sewer Pipe Co.   |
| Apr. 13. | William Lucas .....     | Miner .....   | Rib fractured .....   | Falling slate .....  | Crawford No. 3 ..... | Crawford Coal Co.         |
| Nov. 20. | George Wyre .....       | Miner .....   | Foot cut off .....    | Falling slate .....  | Cloverland .....     | Cloverland C. al Co.      |
|          | James Thompson .....    | Miner .....   | Head bruised .....    | Falling slate .....  | Gifford No. 2 .....  | Collins Coal Co.          |
| July 18. | Alex. McAnnis .....     | Miner .....   | Breast injured .....  |                      | Cloverland .....     | Cloverland Coal Co.       |
| July 17. | Nelson Backet .....     | Laborer ..... | Leg broken .....      | Falling slate .....  | Lawrence No. 7 ..... | Zeller-McClellan Coal Co. |
| Aug. 22. | Walter King .....       | Miner .....   | Face burned .....     | Premature shot ..... | Crawford No. 7 ..... | Crawford Coal Co.         |
| Aug. 13. | Charles Bowers .....    | Miner .....   | Ankle fractured ..... | Falling slate .....  | Lawrence No. 6 ..... | Zeller-McClellan Coal Co. |

## DAVISS COUNTY.

|       |                 |             |                    |                     |                   |             |
|-------|-----------------|-------------|--------------------|---------------------|-------------------|-------------|
| ..... | Henry May ..... | Miner ..... | Foot crushed ..... | Falling slate ..... | Cabel No. 9 ..... | Cabel & Co. |
|-------|-----------------|-------------|--------------------|---------------------|-------------------|-------------|

## FOUNTAIN COUNTY.

|       |                     |             |                  |                    |              |                        |
|-------|---------------------|-------------|------------------|--------------------|--------------|------------------------|
| ..... | Robert Maurey ..... | Miner ..... | Leg broken ..... | Falling coal ..... | Eureka ..... | Cayuga Press Brick Co. |
|-------|---------------------|-------------|------------------|--------------------|--------------|------------------------|

## GREENE COUNTY.

|          |                        |              |                        |                      |                           |                        |
|----------|------------------------|--------------|------------------------|----------------------|---------------------------|------------------------|
| Jan. 2.  | B. Marks .....         | Miner .....  | Back injured .....     | Falling slate .....  | Midland .....             | Midland Coal Co.       |
| Jan. 3.  | Ira Watson .....       | Miner .....  | Back injured .....     | Falling slate .....  | Island Valley No. 2 ..... | Island Valley Coal Co. |
| Jan. 13. | Ed. Shoptaw .....      | Driver ..... | Finger cut off .....   | Mine cars .....      | Summit No. 2 .....        | Summit Coal Co.        |
| Jan. 14. | Wm. Cramer .....       | Miner .....  | Face burned .....      | Blown out shot ..... | Vulcan .....              | Vulcan Coal Co.        |
| Jan. 14. | Thomas McCauley .....  | Miner .....  | Face burned .....      | Blown out shot ..... | Vulcan .....              | Vulcan Coal Co.        |
| Jan. 14. | Wm. A. Moore .....     | Miner .....  | Face burned .....      | Blown out shot ..... | Vulcan .....              | Vulcan Coal Co.        |
| Jan. 14. | Harvey Gott .....      | Driver ..... | Finger cut off .....   | Mine cars .....      | Summit No. 2 .....        | Summit Coal Co.        |
| Jan. 22. | Oscar Jackson .....    | Miner .....  | Spine dislocated ..... | Falling slate .....  | Island Valley No. 2 ..... | Island Valley Coal Co. |
| Jan. 29. | Emerson Phillips ..... | Driver ..... | Hand crushed .....     | Mine cars .....      | Green Valley .....        | Green Valley Coal Co.  |



|           |                        |                     |                        |                          |                          |                           |
|-----------|------------------------|---------------------|------------------------|--------------------------|--------------------------|---------------------------|
| Dec. 29.  | John Kennedy.....      | Miner.....          | Leg broken.....        | Falling slate.....       | Montgomery No. 2.....    | Davies Coal Co.           |
| Feb. 3.   | Henry Mattox.....      | Miner.....          | Foot crushed.....      | Falling coal.....        | Island Valley No. 3..... | Island Valley Coal Co.    |
| Feb. 7.   | Chess Jones.....       | Miner.....          | Body bruised.....      | Twisted into dump.....   | Atlas No. 1.....         | Johnson Coal Co.          |
| Feb. 18.  | Jessie May.....        | Driver.....         | Hip injured.....       | Falling slate.....       | Atlas No. 1.....         | Johnson Coal Co.          |
| Feb. 23.  | Thomas Jones.....      | Driver.....         | Foot crushed.....      | Mine cars.....           | South Linton.....        | South Linton Coal Co.     |
| Feb. 23.  | Albert Gaddes.....     | Driver.....         | Foot crushed.....      | Mine cars.....           | Black Creek.....         | Black Creek Coal Co.      |
| Feb. 25.  | John Linenburg.....    | Miner.....          | Back injured.....      | Falling slate.....       | South Linton.....        | South Linton Coal Co.     |
| Feb. 26.  | Charles Starks.....    | Miner.....          | Back injured.....      | Falling slate.....       | Atlas No. 1.....         | Johnson Coal Co.          |
| Mch. 9.   | Frank Mitchell.....    | Miner.....          | Ribs fractured.....    | Caught by door.....      | Midland.....             | Midland Coal Co.          |
| Mch. 9.   | John Crouse.....       | Driver.....         | Leg broken.....        | Mine car.....            | Summit No. 2.....        | Summit Coal Co.           |
| Mch. 25.  | I. Griffith.....       | Miner.....          | Badly crushed.....     | Falling slate.....       | Island Valley No. 2..... | Island V. Hey Coal Co.    |
| Apr. 11.  | Joseph Drake.....      | Miner.....          | Severely burned.....   | Powder explosion.....    | Gilmour.....             | Indiana Southern Coal Co. |
| Apr. 12.  | Thomas Maybury.....    | Driver.....         | Wrist fractured.....   | Mine cars.....           | Lattis Creek No. 1.....  | Lattis Creek Coal Co.     |
| Apr. 23.  | Frank Reynolds.....    | Driver.....         | Back injured.....      | Mine car.....            | Summit No. 2.....        | Summit Coal Co.           |
| Apr. 29.  | Edward Brown.....      | Driver.....         | Back injured.....      | Mine car and mule.....   | Island Valley No. 3..... | Island Valley Coal Co.    |
| June 6.   | George Nixon.....      | Cager.....          | Hips injured.....      | Mine car.....            | Lattis Creek.....        | Lattis Creek Coal Co.     |
| June 27.  | George Ritter.....     | Driver.....         | Leg broken.....        | Mine car.....            | Victoria.....            | Victoria Coal Co.         |
| July 7.   | Eli Turpen.....        | Loader.....         | Badly burned.....      | Premature shot.....      | Atlas No. 1.....         | Johnson Coal Co.          |
| July 9.   | Lewis Shelly.....      | Laborer.....        | Ankle crushed.....     | Falling slate.....       | Midland.....             | Midland Coal Co.          |
| July 21.  | Henry Fields.....      | Driver.....         | Back injured.....      | Mine cars.....           | Island Valley No. 3..... | Island Valley Coal Co.    |
| May 28.   | Sim Adkins.....        | Timberman.....      | Leg broken.....        | Falling coal.....        | Midland.....             | Midland Coal Co.          |
| Aug. 13.  | Van Goin.....          | Driver.....         | Back injured.....      | Mine cars.....           | Green Valley.....        | Green Valley Coal Co.     |
| Aug. 31.  | R. L. McCoullough..... | Loader.....         | Jaw bone broken.....   | Shot through pillar..... | Gilmour.....             | Southern Indiana Coal Co. |
| Sept. 11. | Elmer Thompson.....    | Miner.....          | Leg broken.....        | Falling slate.....       | Island Valley No. 3..... | Island Valley Coal Co.    |
| Sept. 21. | John Cox.....          | Miner.....          | Seriously burned.....  | Powder explosion.....    | Island No. 1.....        | Island Coal Co.           |
| Sept. 21. | Whit Carico.....       | Miner.....          | Foot crushed.....      | Falling coal.....        | Island Valley No. 2..... | Island Valley Coal Co.    |
| Sept. 29. | Oscar Welch.....       | Driver.....         | Leg broken.....        | Mine car.....            | Gilmour.....             | Southern Indiana Coal Co. |
| Sept. 29. | Elmer Overton.....     | Miner.....          | Ankle dislocated.....  | Falling slate.....       | Gilmour.....             | Southern Indiana Coal Co. |
| Oct. 5.   | Russel Benjamin.....   | Miner.....          | Badly burned.....      | Smoke explosion.....     | Victoria.....            | Victoria Coal Co.         |
| Oct. 7.   | George Hafflev.....    | Trapper.....        | Back injured.....      | Mine car.....            | Summit No. 2.....        | Summit Coal Co.           |
| Oct. 8.   | Ned Ruthford.....      | Loader.....         | Leg broken.....        | Falling slate.....       | Summit No. 2.....        | Summit Coal Co.           |
| Oct. 8.   | A. Wilson.....         | Superintendent..... | Arm crushed.....       | Shaker screen.....       | No. West No. 1.....      | No. West Coal Co.         |
| Oct. 22.  | James Gregory.....     | Miner.....          | Face burned.....       | Smoke explosion.....     | No. West No. 1.....      | No. West Coal Co.         |
| Oct. 26.  | John Bowdel.....       | Driver.....         | Breast injured.....    | Mine car.....            | South Linton.....        | South Linton Coal Co.     |
| Nov. 5.   | Earnest Smith.....     | Driver.....         | Leg crushed.....       | Mine car.....            | South Linton.....        | South Linton Coal Co.     |
| Nov. 2.   | John Bradshaw.....     | Miner.....          | Badly crushed.....     | Falling slate.....       | Black Creek.....         | Black Creek Coal Co.      |
| Dec. 11.  | Samuel Abraham.....    | Miner.....          | Head and face cut..... | Falling slate.....       | Black Creek.....         | Black Creek Coal Co.      |
| Dec. 21.  | William Briggs.....    | Miner.....          | Ankle fractured.....   | Caught by cage.....      | Letsinger.....           | Letsinger Coal Co.        |
| Dec. 30.  | Robert Pollock.....    | Driver.....         | Leg fractured.....     | Mine car.....            | Letsinger.....           | Letsinger Coal Co.        |
|           |                        |                     |                        |                          | Black Creek.....         | Black Creek Coal Co.      |

## GIBSON COUNTY.

|           |                      |                    |                   |                     |             |                             |
|-----------|----------------------|--------------------|-------------------|---------------------|-------------|-----------------------------|
| July 1..  | Robert Anderson..... | Ass't M. Boss..... | Leg broken.....   | Falling slate.....  | Oswald..... | Princeton Coal & Mining Co. |
| Aug. 27.. | Jack McDonald.....   | Miner.....         | Badly burned..... | Premature shot..... | Oswald..... | Princeton Coal & Mining Co. |
| Aug. 27.. | F. A. Baney.....     | Miner.....         | Badly burned..... | Premature shot..... | Oswald..... | Princeton Coal & Mining Co. |

## TABLE OF SERIOUS ACCIDENTS—Continued.

## PARKE COUNTY.

| DATE.     | NAME.                 | OCCUPATION.       | INJURY.             | CAUSE.                 | MINE.                     | COMPANY.                  |
|-----------|-----------------------|-------------------|---------------------|------------------------|---------------------------|---------------------------|
| Jan. 5.   | George Geaskins ..... | Miner .....       | Back injured .....  | Felling slate .....    | Columbia No. 3 .....      | Zeller-McClellan Coal Co. |
| Jan. 23.  | John Doskey .....     | Shot firer .....  | Badly burned .....  | Windy shot .....       | Lytford No. 1 .....       | Wabash Valley Coal Co.    |
| Feb. 19.  | F. Chuskain .....     | Miner .....       | Arm fractured ..... | Falling slate .....    | Lytford No. 1 .....       | Wabash Valley Coal Co.    |
| Feb. 15.  | William Hess .....    | Driver .....      | Leg fractured ..... | Mine car .....         | Minshal .....             | Minshal Vein Coal Co.     |
| Apr. 9.   | Robert Conway .....   | Machine R. .....  | Back injured .....  | Falling slate .....    | Brazil Block No. 12 ..... | Brazil Block Coal Co.     |
| Apr. 20.  | George Doidge .....   | Motorman .....    | Back injured .....  | Motor .....            | Cox No. 3 .....           | Brazil Block Coal Co.     |
| May 22.   | George Limko .....    | Miner .....       | Back injured .....  | Cox .....              | Superior No. 1 .....      | Zeller-McClellan Coal Co. |
| May 21.   | John Saltis .....     | Miner .....       | Leg broken .....    | Falling slate .....    | Brazil Block No. 11 ..... | Brazil Block Coal Co.     |
| June 20.  | Anglo Barger .....    | Miner .....       | Face burned .....   | Delayed shot .....     | Mary .....                | Otter Creek Coal Co.      |
| July 2.   | George Perkins .....  | Miner .....       | Leg broken .....    | Premature shot .....   | Superior No. 1 .....      | Zeller-McClellan Coal Co. |
| Aug. 13.  | Filbert McBay .....   | Miner .....       | Leg broken .....    | Falling slate .....    | Superior No. 3 .....      | Zeller-McClellan Coal Co. |
| Sept. 15. | H. Hanam .....        | Miner .....       | Rib fractured ..... | Mine door-w shot ..... | Cox No. 3 .....           | Brazil Block Coal Co.     |
| Oct. 5.   | Thomas West .....     | Driver .....      | Hand crushed .....  | Mine car .....         | Minshal .....             | Minshal Vein Coal Co.     |
| Dec. 11.  | F. Perovento .....    | Miner .....       | Leg broken .....    | Falling slate .....    | Brier Hill .....          | Raccoon Valley Coal Co.   |
| Aug. 12.  | R. Downs .....        | Miner .....       | Back injured .....  | Falling slate .....    | Pan-American .....        | Plymouth Block Coal Co.   |
| Oct. 12.  | Wm. Golsaka .....     | Trapper boy ..... | Back injured .....  | Falling slate .....    | Brazil No. 12 .....       | Brazil Block Coal Co.     |
| Oct. 12.  | George Migra .....    | Driver .....      | Leg crushed .....   | Falling slate .....    | Brazil No. 12 .....       | Brazil Block Coal Co.     |

## PIKE COUNTY.

|           |                     |                 |                          |                     |                      |                          |
|-----------|---------------------|-----------------|--------------------------|---------------------|----------------------|--------------------------|
| Feb. 27.  | W. Laswell .....    | Miner .....     | Leg fractured .....      | Falling slate ..... | Hartwell .....       | S. H. Wulfsman Coal Co.  |
| Mar. 13.  | W. Barrowman .....  | Timberman ..... | Back injured .....       | Falling slate ..... | Ayrshire No. 4 ..... | D. Ingle Coal Co.        |
| Mar. 13.  | Wm. Wright .....    | Miner .....     | Skull fractured .....    | Falling slate ..... | Massey .....         | Massey Coal Co.          |
| Mar. 27.  | Lewis Lynn .....    | Laborer .....   | Leg fractured .....      | Falling slate ..... | Ayrshire No. 3 ..... | D. Ingle Coal Co.        |
| June 10.  | Otto Shade .....    | Miner .....     | Leg fractured .....      | Falling slate ..... | Winslow .....        | Winslow Gas and Coal Co. |
| July 18.  | J. E. Keys .....    | Miner .....     | Injured internally ..... | Falling slate ..... | Carbon .....         | Aberdeen Coal Co.        |
| Aug. 29.  | Wm. Titus .....     | Miner .....     | Back injured .....       | Falling slate ..... | Winslow .....        | Winslow Gas Coal Co.     |
| Sept. 9.  | Jas. Logan .....    | Miner .....     | Back broken .....        | Falling slate ..... | Ayrshire No. 3 ..... | D. Ingle Coal Co.        |
| Sept. 18. | Wm. Vannell .....   | Driver .....    | Back injured .....       | Mine car .....      | Littles .....        | S. W. Little's Coal Co.  |
|           | Whitt Hill .....    | Miner .....     | Leg broken .....         | Mine car .....      | Winslow .....        | Winslow Gas Coal Co.     |
| Dec. 3.   | George Kramer ..... | Miner .....     | Foot crushed .....       | Cog on drum .....   | Winslow .....        | Winslow Gas Coal Co.     |

# PERRY COUNTY.

|           |                     |             |                       |                    |                 |                          |
|-----------|---------------------|-------------|-----------------------|--------------------|-----------------|--------------------------|
| Mar. 26.. | Wm. Co .....        | Miner ..... | Shoulder crushed..... | Falling slate..... | Troy .....      | Bergenroth Bros.         |
| Oct. 7..  | Chas. Shepard ..... | Miner ..... | Leg broken .....      | Falling slate..... | Cannelton ..... | American Cannel Coal Co. |

# SULLIVAN COUNTY.

|           |                      |                 |                         |                       |                         |                                |
|-----------|----------------------|-----------------|-------------------------|-----------------------|-------------------------|--------------------------------|
| Jan. 7.   | Glover Bean.....     | Driver .....    | Hip dislocated.....     | Crushed by mine car.  | Dugger .....            | Indiana Chicago Coal Co.       |
| Jan. 16.  | B. Boles .....       | Loader .....    | Leg broken .....        | Falling slate.....    | Bunker Hill .....       | Washington Fuel Co.            |
| Jan. 19.  | George Bridwell..... | Driver .....    | Leg fractured.....      | Mine car .....        | Hymera No. 1.....       | Hymera Coal Co.                |
| Jan. 20.  | Albert Morris .....  | Miner .....     | Back injured .....      | Falling coal .....    | Hymera No. 1.....       | Hymera Coal Co.                |
| Jan. 20.  | B. Hughbanks .....   | Miner .....     | Leg fractured.....      | Falling slate.....    | Phoenix No. 1.....      | N. Pittsb'g Coal and Coke Co.  |
| Feb. 10.  | Edgar Able .....     | Miner .....     | Foot crushed .....      | Falling slate.....    | Green Hill .....        | Green Hill Coal Co.            |
| Feb. 13.  | J. Watson .....      | Miner .....     | Shoulder crushed.....   | Mine car .....        | Phoenix No. 3.....      | N. Pittsb'g Coal and Coke Co.  |
| Mar. 3.   | Perry Davis .....    | Loader .....    | Back injured .....      | Falling slate.....    | Bunker Hill .....       | Washington Fuel Co.            |
| Mar. 7.   | Miles Payton .....   | Timberman.....  | Arm fractured.....      | Falling slate.....    | Glendora .....          | W. S. Bogle Coal Co.           |
| May 19.   | Carl Shepard .....   | Loader .....    | Rib fractured.....      | Falling slate.....    | Bunker Hill.....        | Washington Fuel Co.            |
| May 25.   | A. Rechmel .....     | Miner .....     | Leg fractured.....      | Falling slate.....    | Phoenix No. 5.....      | N. Pittsb'g Coal and Coke Co.  |
| May 26.   | John Martin .....    | Driver .....    | Rib fractured.....      | Falling slate.....    | Glendora .....          | W. S. Bogle Coal Co.           |
| June 22.  | Karl Hogg .....      | Driver .....    | Arm fractured.....      | Mine car .....        | Jackson Hill No. 2..... | Jackson Hill Coal and Coke Co. |
| Aug. 1.   | Homer Phillips.....  | Loader .....    | Leg broken .....        | Falling slate.....    | Glendora .....          | W. S. Bogle Coal Co.           |
| Aug. 5.   | Joseph Watson .....  | Miner .....     | Collar bone broken..... | Falling slate.....    | Phoenix No. 3.....      | N. Pittsb'g Coal and Coke Co.  |
| Aug. 14.  | Frank Crim .....     | Cager .....     | Leg fractured.....      | Falling coal .....    | Jackson Hill .....      | Jackson Hill Coal & Coke Co.   |
| Sept. 14. | Dave Price .....     | Miner .....     | Badly burned .....      | Gas explosion.....    | Glendora .....          | W. S. Bogle Coal Co.           |
| Sept. 14. | J. C. Lewis .....    | Miner .....     | Badly burned .....      | Gas explosion.....    | Glendora .....          | W. S. Bogle Coal Co.           |
| Sept. 14. | Claud Lafoon .....   | Miner .....     | Badly burned .....      | Gas explosion.....    | Glendora .....          | W. S. Bogle Coal Co.           |
| Oct. 8.   | Jas. McGell .....    | Miner .....     | Badly burned .....      | Powder explosion..... | Jackson Hill .....      | Jackson Hill Coal & Coke Co.   |
| Oct. 24.  | John Buck .....      | Miner .....     | Seriously burned .....  | Smoke explosion.....  | Citizens .....          | Citizens Coal Co.              |
| Oct. 24.  | Thos. Wadler .....   | Miner .....     | Seriously burned .....  | Smoke explosion.....  | Citizens .....          | Citizens Coal Co.              |
| Oct. 24.  | Milt Ford .....      | Miner .....     | Seriously burned .....  | Smoke explosion.....  | Citizens .....          | Citizens Coal Co.              |
| Oct. 24.  | George Crabb .....   | Miner .....     | Seriously burned .....  | Smoke explosion.....  | Citizens .....          | Citizens Coal Co.              |
| Oct. 24.  | Chas. McFee .....    | Miner .....     | Seriously burned .....  | Smoke explosion.....  | Citizens .....          | Citizens Coal Co.              |
| Oct. 28.  | John Howard .....    | Miner .....     | Leg broken .....        | Falling coal .....    | Cummins .....           | Cummins Coal Co.               |
| Nov. 6.   | Thomas Davidson..... | Driver .....    | Leg broken .....        | Mine car .....        | Star City .....         | Harder-Hafer Coal Co.          |
| Dec. 6.   | Benjamin Smith.....  | Miner .....     | Ribs fractured.....     | Falling slate.....    | Cummins .....           | Cummins Coal Co.               |
| Dec. 8.   | Frank Malone .....   | Miner .....     | Jaw bone broken.....    | Overcharged shot..... | Hymera No. 1.....       | Hymera Coal Co.                |
| Dec. 28.  | James Proffith ..... | Tracklayer..... | Arm broken .....        | Mine car .....        | Jackson Hill .....      | Jackson Hill Coal & Coke Co.   |

# VANDEBURGH COUNTY.

|          |                  |                   |                       |                |                 |                    |
|----------|------------------|-------------------|-----------------------|----------------|-----------------|--------------------|
| Oct. 27. | Wm. Shaken ..... | Trapper boy ..... | Ankle dislocated..... | Mine car ..... | Sunnyside ..... | Sunnyside Coal Co. |
|----------|------------------|-------------------|-----------------------|----------------|-----------------|--------------------|

## TABLE OF SERIOUS ACCIDENTS—Continued.

## VERMILLION COUNTY.

| DATE.    | NAME.                | OCCUPATION.       | INJURY.                  | CAUSE.                | MINE.                  | COMPANY.                  |
|----------|----------------------|-------------------|--------------------------|-----------------------|------------------------|---------------------------|
| Jan. 2.  | George Perry .....   | Miner .....       | Leg fractured .....      | Falling slate .....   | Buckeye .....          | McClellan Sons & Co.      |
| Jan. 12. | Ed Butts .....       | Car coupler ..... | Hand crushed .....       | Mine cars .....       | Bruilettes No. 3 ..... | Bruilettes Creek Coal Co. |
| Mch. 5.  | William Taylor ..... | Driver .....      | Leg fractured .....      | Mine cars .....       | Oak Hill .....         | Oak Hill Coal Co.         |
| Mch. 20. | Joseph Bolemy .....  | Miner .....       | Badly burned .....       | Smoke explosion ..... | Buckeye .....          | McClellan Sons' Coal Co.  |
| Mch. 20. | Charles Poul .....   | Miner .....       | Badly burned .....       | Smoke explosion ..... | Buckeye .....          | McClellan Sons' Coal Co.  |
| Mch. 20. | Gus Watson .....     | Miner .....       | Badly burned .....       | Smoke explosion ..... | Buckeye .....          | McClellan Sons' Coal Co.  |
| May 24.  | Frank Rhodes .....   | Miner .....       | Shoulder fractured ..... | Smoke explosion ..... | Crown Hill .....       | Clinton Coal Co.          |

## VIGO COUNTY.

|           |                       |                 |                       |                       |                   |                           |
|-----------|-----------------------|-----------------|-----------------------|-----------------------|-------------------|---------------------------|
| Jan. 3.   | Wesley Webster .....  | Miner .....     | Leg fractured .....   | Falling slate .....   | Lawton .....      | Coal Bluff Mining Co.     |
| Jan. 2.   | A. Lench .....        | Laborer .....   | Leg fractured .....   | Mine car .....        | Grant No. 2 ..... | Grant Coal and Mining Co. |
| Jan. 21.  | Arthur Felkins .....  | Miner .....     | Leg fractured .....   | Falling slate .....   | Klondyke .....    | Bruilettes Creek Coal Co. |
| May 11.   | Percy Phillips .....  | Laborer .....   | Back injured .....    | Falling slate .....   | Glen Oak .....    | Glen Oak Coal Co.         |
| June 4.   | Winfred Starks .....  | Miner .....     | Back injured .....    | Premature blast ..... | Fauvre .....      | Fauvre Coal Co.           |
| July 15.  | Eugene Miller .....   | Laborer .....   | Skull fractured ..... | Falling slate .....   | Miami .....       | Miami Coal Co.            |
| July 24.  | George Taylor .....   | Timberman ..... | Back injured .....    | Falling slate .....   | Seeleyville ..... | Seeleyville Coal Co.      |
| Sept. 16. | R. Adams .....        | Miner .....     | Arm broken .....      | Falling coal .....    | Union .....       | Coal Bluff Mining Co.     |
| Sept. 28. | John V. Bogle .....   | Laborer .....   | Leg broken .....      | Falling slate .....   | Rosebud .....     | Seeleyville Coal Co.      |
| Oct. 14.  | Charles Halskin ..... | Miner .....     | Leg broken .....      | Falling slate .....   | Union .....       | Coal Bluff Mining Co.     |
| Oct. 14.  | Joseph Simpson .....  | Timberman ..... | Back broken .....     | Falling slate .....   | Lawton .....      | Coal Bluff Mining Co.     |
| Oct. 15.  | George Hallis .....   | Driver .....    | Hip crushed .....     | Mine cars .....       | Peerless .....    | Coal Bluff Mining Co.     |

NOTE.—The above table includes only those who have suffered broken bones, cuts, bruises, burns and such other injuries as we think require special mention.

#### ACCIDENTS TO MINING PROPERTY.

The most serious accident of the kind to occur during the year was the burning of the Harris and Lankford Mine.

Somewhere near 9 o'clock on the morning of January 26th, fire broke out in the tibble, igniting from a can of overheated car grease which had been placed near the stove to melt.

The result of this fire was the loss of one human life and two mules, also the total destruction of the tibble, engine-room and other mine buildings, which, including the ropes, cages and tibble equipment would place the financial loss near six thousand dollars.

The engine-room at the Star Mine, owned by the John Archibald Coal Company, in Warrick County, was destroyed by fire in March. The loss other than the building was very small as the hoisting machinery and boiler were left in comparatively good condition. The mine was idle about thirty days, which, of course, added considerably to the loss.

The Cable & Co.'s No. 4 Mine, located at Washington, Daviess County, was flooded with water in March and has not been operated since that time.

The engine and boiler rooms at the L. T. Dickason's Glenburn Mine, Linton, Greene County, were destroyed by fire on July 9th. Fortunately the boiler and hoisting machinery were not so badly damaged that they could not be repaired and hoisting resumed in a short time. The dynamo and other electric appliances were a total loss, which necessitated the mine being operated as a pick mine until they could be replaced with new machinery.

A serious fire occurred on July 14th at the Lawton Mine, resulting in a total loss of all mine buildings, as well as a part of the machinery. The work of rebuilding the tibble and setting the machinery, etc., was not completed until September 10th, at which time hoisting coal was resumed. This is one of the Coal Bluff Mining Company's properties. We did not obtain the estimated loss.

A serious mine fire occurred in the interior of the Crown Hill No. 2 Mine, Vermillion County, in August. The flames rushed up the shaft, completely destroying the curbing, tippie and outside buildings.

The Black Diamond Mine, in Fountain County, located near Silverwood, was flooded with water in September, and has since been abandoned.

TABLE,

*Showing by Counties the Number of Steam Boilers, Number and kind of Motors, Number of Dynamos and Number of Compressors used at Indiana Mines, also the Number of Mines using Rope Haulage.*

| COUNTY.          | NUMBER AND KIND OF BOILERS. |        |           |        | NUMBER AND KIND OF MOTORS. |           |        | Number of Dynamos. | Number of Compressors. | Number Mines Using Rope Haulage. |
|------------------|-----------------------------|--------|-----------|--------|----------------------------|-----------|--------|--------------------|------------------------|----------------------------------|
|                  | Tabular.                    | Flued. | Cylinder. | Total. | Third Rail.                | Traction. | Total. |                    |                        |                                  |
| Clay.....        | 27                          | 6      | 30        | 63     | 4                          | .....     | 4      | 7                  | .....                  | .....                            |
| Daviess.....     | 4                           | .....  | 6         | 10     | 2                          | .....     | 2      | 1                  | .....                  | .....                            |
| Fountain.....    | .....                       | 2      | 2         | 4      | .....                      | .....     | .....  | .....              | .....                  | .....                            |
| Gibson.....      | 4                           | .....  | .....     | 4      | .....                      | .....     | .....  | .....              | .....                  | .....                            |
| Greene.....      | 41                          | 6      | 5         | 52     | 1                          | 1         | 2      | 15                 | 4                      | 1                                |
| Knox.....        | 5                           | .....  | 2         | 7      | .....                      | .....     | .....  | .....              | .....                  | .....                            |
| Parke.....       | 18                          | 2      | 32        | 52     | .....                      | 1         | 3      | 5                  | 2                      | .....                            |
| Pike.....        | 1                           | .....  | .....     | 1      | 1                          | .....     | 1      | 1                  | .....                  | .....                            |
| Perry.....       | 10                          | 6      | 1         | 17     | .....                      | .....     | .....  | .....              | .....                  | .....                            |
| Sullivan.....    | 54                          | 5      | 8         | 67     | 3                          | 3         | 5      | 18                 | 3                      | 1                                |
| Vanderburgh..... | 7                           | 13     | .....     | 20     | .....                      | .....     | .....  | .....              | .....                  | .....                            |
| Vermillion.....  | 23                          | 5      | 2         | 30     | .....                      | 2         | 2      | 2                  | .....                  | 1                                |
| Vigo.....        | 22                          | 19     | 21        | 62     | .....                      | .....     | .....  | 3                  | 1                      | .....                            |
| Warrick.....     | 8                           | 2      | 2         | 12     | .....                      | .....     | .....  | 1                  | 3                      | 1                                |
| Total.....       | 220                         | 70     | 111       | 401    | 13                         | 7         | 20     | 53                 | 13                     | 4                                |

## TABLE,

*Showing by Counties the Names of Mines at Which Box Car Loaders are Used, Also Giving Name and Cost of Loader.*

## CLAY COUNTY.

| NAME OF MINE.           | NAME OF LOADER. | COST OF LOADER. |
|-------------------------|-----------------|-----------------|
| Brazil Block No. 1..... | Autumwa.....    | \$2,500 00      |
| Brazil Block No. 7..... | Autumwa.....    | 2,500 00        |

## GREENE COUNTY.

|                   |              |            |
|-------------------|--------------|------------|
| North West.....   | Autumwa..... | \$2,500 00 |
| Lattis Creek..... | Autumwa..... | 2,500 00   |
| Green Valley..... | Autumwa..... | 2,500 00   |

## PARKE COUNTY.

|                           |              |            |
|---------------------------|--------------|------------|
| Brazil Block No. 12 ..... | Autumwa..... | \$2,500 00 |
|---------------------------|--------------|------------|

## PIKE COUNTY.

|                |              |            |
|----------------|--------------|------------|
| Hartwell ..... | Christy..... | \$2,000 00 |
|----------------|--------------|------------|

## SULLIVAN COUNTY.

|                   |              |            |
|-------------------|--------------|------------|
| Mammoth Vein..... | Autumwa..... | \$2,500 00 |
| Willfred.....     | Autumwa..... | 2,500 00   |
| Glendora.....     | Autumwa..... | 2,500 00   |
| Cummins.....      | Autumwa..... | 2,500 00   |

## VERMILLION COUNTY.

|              |              |            |
|--------------|--------------|------------|
| Rhodes ..... | Autumwa..... | \$2,500 00 |
|--------------|--------------|------------|

Total number of Loaders, 12. Total cost, \$27,500.00.

## EXAMINATIONS.

Examinations of applicants to qualify as mine bosses, fire bosses and hoisting engineers were held at two different times within the past year with results as shown by the annexed table:

TABLE.

| PLACE.            | DATE.        | NUMBER OF APPLICANTS. |       |       | PASSED. |       |       |
|-------------------|--------------|-----------------------|-------|-------|---------|-------|-------|
|                   |              | M. B.                 | F. B. | H. E. | M. B.   | F. B. | H. E. |
| Terre Haute ..... | May 5 .....  | 27                    | 5     | 41    | 23      | 1     | 25    |
| Terre Haute ..... | Oct. 1 ..... | 26                    | 4     | 29    | 23      | 2     | 18    |
| Total .....       |              | 53                    | 9     | 70    | 46      | 2     | 43    |

We give herewith the names and addresses of those who qualified and received certificates at the above examinations:

## MINE BOSS EXAMINATION HELD MAY 5TH.

| NAMES.                   | ADDRESSES.    | NAMES.                  | ADDRESSES.  |
|--------------------------|---------------|-------------------------|-------------|
| Thomas Moses .....       | Linton.       | Malcolm Reed .....      | Linton.     |
| P. H. Roeder .....       | Dugger.       | Jos. W. Morrison .....  | Linton.     |
| John Wright .....        | Linton.       | Chas. P. West .....     | Silverwood. |
| Jas. Vennorman .....     | Coal Bluff.   | John G. James .....     | Linton.     |
| Thomas Anderson .....    | Linton.       | Robert E. Collins ..... | Linton.     |
| S. G. Raimy .....        | Jasonville.   | Robert Baird .....      | Cotes.      |
| William E. Vanlien ..... | Jasonville.   | Chas. W. Smith .....    | Clinton.    |
| John Gardner .....       | Center Point. | Louis Wantelet .....    | Linton.     |
| Frank Norris .....       | Dugger.       | John Harrison .....     | Linton.     |
| John Harrison .....      | Linton.       | Harry Tucker .....      | Burnett.    |
| William Briddick .....   | Linton.       | Edward Atkinson .....   | Linton.     |
| John McLeonhardt .....   | Harmony.      | Walter Wright .....     | Coal Bluff. |
| G. W. Purcell .....      | Terre Haute.  |                         |             |

## HOISTING ENGINEER EXAMINATION, HELD MAY 5TH.

|                         |             |                        |                |
|-------------------------|-------------|------------------------|----------------|
| Clip Ellingsworth ..... | Jasonville. | F. G. Hise .....       | Linton.        |
| Wm. E. Badders .....    | Linton      | Wm. H. Chambers .....  | Winslow.       |
| C. S. Bradley .....     | Cass.       | George Brown .....     | Fontenet.      |
| John Dunbar .....       | Dugger.     | Edward Hall .....      | Pleasantville. |
| Wm. E. Hooper .....     | Bicknell.   | George Gonterman ..... | Linton.        |
| Samuel T. Diekey .....  | Midland.    | Wm. T. James .....     | Linton.        |
| Perry F. Clark .....    | Bicknell.   | Caleb E. Summers ..... | Carlisle.      |
| W. A. Marton .....      | Rosedale.   | Monroe Osborne .....   | Rosedale.      |
| Noah Hardesty .....     | Jasonville. | Chas. D. Wilgus .....  | Linton.        |
| O. H. Smith .....       | Bicknell.   | L. W. Leachman .....   | Clinton.       |
| J. N. Gambill .....     | Midland.    | John E. Yetter .....   | Veedersburg.   |
| John B. Halstead .....  | Jasonville. | W. C. Courtney .....   | Linton.        |
| George Annakin .....    | Crawford.   | E. E. Chambers .....   | Linton.        |
| John Nolan .....        | Linton.     |                        |                |

## FIRE BOSS EXAMINATION, HELD MAY 5TH.

|                      |           |  |  |
|----------------------|-----------|--|--|
| W. E. Williams ..... | Waterman. |  |  |
|----------------------|-----------|--|--|



## MINE BOSS EXAMINATION, HELD OCTOBER 1st.

| NAMES.                 | ADDRESSES.   | NAMES.                 | ADDRESSES.   |
|------------------------|--------------|------------------------|--------------|
| Bert McClanahan .....  | Hymera.      | Jos. Mullen .....      | Jasonville.  |
| David Hoard .....      | Brazil.      | Eli Mott .....         | Linton.      |
| Raymond Tanner .....   | Linton.      | F. A. Richardson ..... | Brazil.      |
| Harry Milbourn .....   | Lyford.      | C. J. Lawton, Jr. .... | Bicknell.    |
| Levi Bardsley .....    | Shelburn.    | Stephen Brown .....    | Linton.      |
| S. T. Harvey .....     | Terre Haute. | S. M. Miller .....     | Shelburn.    |
| Terrance Carroll ..... | Linton.      | James McGow .....      | Fontanet.    |
| John McCloud .....     | Sullivan.    | Silas Johnson .....    | Edwards.     |
| Silas Risher .....     | Linton.      | Mathew Bach .....      | Littles.     |
| William Johnson .....  | Jasonville.  | John E. Lindsay .....  | Harmony.     |
| A. R. Stanley .....    | Sullivan.    | Curtis Erwin .....     | Seeleyville. |
| T. I. Hiatt .....      | Dugger.      |                        |              |

## HOISTING ENGINEER EXAMINATION, HELD OCTOBER 1st.

|                        |              |                      |              |
|------------------------|--------------|----------------------|--------------|
| Thomas M. Cody .....   | Linton.      | John N. Miller ..... | Clay City.   |
| Moses Watts .....      | Jasonville.  | Wm. T. Fowler .....  | Princeton.   |
| Joseph E. Butler ..... | Dugger.      | M. C. Cash .....     | Sullivan.    |
| Chas. McDarnel .....   | Sullivan.    | O. P. Sears .....    | Clinton.     |
| Morian E. Miller ..... | Worthington. | A. M. Sears .....    | Midland.     |
| Van L. Plew .....      | Sullivan.    | Fred Medeke .....    | Sullivan.    |
| Isaac Davis .....      | Francisco.   | Wm. L. Goddard ..... | Seeleyville. |
| W. T. Shewmaker .....  | Terre Haute. | James Hale .....     | Linton.      |
| J. R. Pearce .....     | Midland.     | Benjamin Bird .....  | Jasonville.  |

## FIRE BOSS EXAMINATION, HELD OCTOBER 1st.

|                      |         |  |  |
|----------------------|---------|--|--|
| Harry Milbourn ..... | Lyford. |  |  |
|----------------------|---------|--|--|

## SERVICE CERTIFICATES.

Thirty service certificates were granted within the year, as follows: Mine Boss, 22; Fire Boss, 1; Hoisting Engineer, 7. Following will be found the names and addresses of those to whom certificates were issued:

## MINE BOSS.

| NAMES.                | ADDRESSES.      | NAMES.                 | ADDRESSES.   |
|-----------------------|-----------------|------------------------|--------------|
| Newton W. Lane .....  | Shelburn.       | Julius Ehrlich .....   | Seeleyville. |
| Thomas Davidson ..... | Shelburn.       | John Baird, Sr. ....   | Cardonia.    |
| W. E. Cowen .....     | Shelburn.       | John T. Sterling ..... | Delcarbo.    |
| Samuel Bradburg ..... | Shelburn.       | Fred W. Newton .....   | Boonville.   |
| Hugh Waugh .....      | Ehrmindale.     | John M. Lowory .....   | Shelburn.    |
| John H. Davis .....   | Nyesville.      | John Taylor .....      | Shelburn.    |
| James Taylor .....    | Shelburn.       | John W. Miller .....   | Evansville.  |
| William Perry .....   | Coal Creek.     | Chas. Craig .....      | Diamond.     |
| W. P. Harrison .....  | Rockville.      | James M. Scully .....  | Alum Cave.   |
| Elza Eller .....      | W. Terre Haute. | John Hill .....        | Brazil.      |
| M. D. Stevenson ..... | Carbon.         | James A. Nolan .....   | Linton.      |

## HOISTING ENGINEER.

| NAMES.               | ADDRESSES.   | NAMES.                | ADDRESSES.  |
|----------------------|--------------|-----------------------|-------------|
| R. S. Taylor.....    | Shelburn.    | Wm. H. Yeager.....    | Shelburn.   |
| John M. Cummins..... | Hymera.      | Lew Davis .....       | Shelburn.   |
| William Gray.....    | Seeleyville. | James T. Mathews..... | Evansville. |
| H. S. Shee .....     | Terre Haute. |                       |             |

## FIRE BOSS.

|                   |           |  |  |
|-------------------|-----------|--|--|
| Mark Headley..... | Shelburn. |  |  |
|-------------------|-----------|--|--|

## DIRECTORY OF MINES.

Table showing the names and addresses of persons and corporations operating coal mines in each county:

## CLAY COUNTY.

| NAME.  | ADDRESS.          | MINE.                |
|--|-------------------|----------------------|
| Brazil Block Coal Company..                  | Brazil .....      | Brazil Block No. 1.  |
| Brazil Block Coal Company..                  | Brazil .....      | Brazil Block No. 8.  |
| Brazil Block Coal Company..                  | Brazil .....      | Brazil Block No. 11. |
| Brazil Block Coal Company..                  | Brazil .....      | Diamond No. 3.       |
| Brazil Block Coal Company..                  | Brazil .....      | Diamond No. 5.       |
| Brazil Block Coal Company..                  | Brazil .....      | Gart No. 5.          |
| Brazil Block Coal Company..                  | Brazil .....      | Gart No. 10.         |
| Brazil Block Coal Company..                  | Brazil .....      | Gart No. 7.          |
| Brazil Block Coal Company..                  | Clay City.....    | Briar Hill.          |
| Clay City Coal Co .....                      |                   |                      |
| Zeller-McClellan Coal Com-<br>pany .....     | Brazil .....      | Cloverland.          |
| Zeller-McClellan Coal Com-<br>pany .....     | Brazil .....      | Lawrence No. 8.      |
| Zeller-McClellan Coal Com-<br>pany .....     | Brazil .....      | Lawrence No. 7.      |
| Jackson Coal and Mining<br>Company .....     | Brazil .....      | Cornwall.            |
| Crawford Coal Company .....                  | Brazil .....      | Crawford No. 2.      |
| Crawford Coal Company .....                  | Brazil .....      | Crawford No. 3.      |
| Crawford Coal Company .....                  | Brazil .....      | Crawford No. 5.      |
| Crawford Coal Company .....                  | Brazil .....      | Crawford No. 6.      |
| Crawford Coal Company .....                  | Brazil .....      | Crawford No. 7.      |
| Eureka Block Coal Company                    | Terre Haute.....  | Eureka No. 2.        |
| Eureka Block Coal Company                    | Terre Haute.....  | Eureka No. 3.        |
| C. Ehrlich Coal Company....                  | Turner .....      | Fortner.             |
| C. Ehrlich Coal Company....                  | Turner .....      | Klondyke.            |
| Collins Coal Company.....                    | Brazil .....      | Gifford No. 1.       |
| Collins Coal Company.....                    | Brazil .....      | Gifford No. 2.       |
| Coal Bluff Mining Company..                  | Terre Haute.....  | Pratt.               |
| Coal Bluff Mining Company..                  | Terre Haute.....  | Glen.                |
| Continental Coal and Mining<br>Company ..... | Brazil .....      | Continental.         |
| Crawford Coal Company .....                  | Brazil .....      | Rebstock.            |
| Indiana Bituminous Coal<br>Company .....     | Terre Haute ..... | Fairview.            |
| Lewis Coal and Mining Com-<br>pany .....     | Lewis .....       | Lewis.               |
| Zeller-McClellan Coal Com-<br>pany .....     | Brazil .....      | Cloverland No. 2.    |

## DAVIESS COUNTY.

| NAME.                                   | ADDRESS.          | MINE.             |
|---|-------------------|-------------------|
| Cabel & Company .....                   | Washington .....  | Cabel No. 4.      |
| Cabel & Company .....                   | Washington .....  | Cabel No. 9.      |
| Raglesville Coal Company...             | Raglesville ..... | Hoosier No. 4.    |
| Davies County Coal Com-<br>pany .....   | Montgomery .....  | Montgomery No. 2. |
| Davies County Coal Com-<br>pany .....   | Montgomery .....  | Montgomery No. 3. |
| Mutual Mining Company...                | Cannelburg .....  | Mutual.           |
| Mandabach Bros. Coal Com-<br>pany ..... | Washington .....  | Mandabach.        |
| Wheatland Coal Company...               | Washington .....  | Wheatland.        |

## FOUNTAIN COUNTY.

|                            |                  |             |
|----------------------------|------------------|-------------|
| Rush Coal Company .....    | Cates .....      | Rush        |
| Silverwood Coal Company... | Silverwood ..... | Silverwood. |

## GREENE COUNTY.

|   |                     |                      |
|---|---------------------|----------------------|
| Black Creek Coal and Mining<br>Company .....    | Linton .....        | Black Creek.         |
| Island Coal Company .....                       | Linton .....        | Island City No. 1.   |
| Island Coal Company .....                       | Linton .....        | Island City No. 2.   |
| Island Coal Company .....                       | Linton .....        | Island No. 3.        |
| Indiana Southern Coal Com-<br>pany .....        | Chicago, Ill. ....  | Gilmour.             |
| Hoosier Coal Company .....                      | Bloomfield .....    | Hoosier No. 1.       |
| Island Valley Coal Company.                     | Linton .....        | Island Valley No. 2. |
| Island Valley Coal Company.                     | Linton .....        | Island Valley No. 3. |
| Midland Coal Company .....                      | Midland .....       | Midland.             |
| South Linton Coal and Min-<br>ing Company ..... | Linton .....        | South Linton.        |
| Vulcan Coal Company .....                       | Indianapolis .....  | Vulcan No. 1.        |
| Summit Coal Company .....                       | Chicago, Ill. ....  | Summit No. 2.        |
| Western Indiana Coal Com-<br>pany .....         | Terre Haute .....   | Templeton.           |
| L. T. Dickason Coal Company                     | Chicago, Ill. ....  | Victoria.            |
| L. T. Dickason Coal Company                     | Chicago, Ill. ....  | Glenburn.            |
| Tower Hill Coal Company ..                      | Bloomington .....   | Tower Hill.          |
| Green Valley Coal Company.                      | Linton .....        | Green Valley.        |
| Lattas Creek Coal Company.                      | Terre Haute .....   | Lattas Creek No. 1.  |
| Johnson Coal and Mining<br>Company .....        | Columbus, Ohio..... | Atlas.               |
| Antioch Coal Company .....                      | Chicago, Ill. ....  | Antioch.             |
| Fry Coal Company .....                          | Terre Haute .....   | Fry.                 |
| Hoosier Coal Company .....                      | Linton .....        | Hoosier No. 2.       |
| Letsinger Coal Company .....                    | Bloomfield .....    | Letsinger.           |
| Northwestern Coal Company                       | Jasonville .....    | Northwest.           |
| Coal Bluff Mining Company.                      | Terre Haute .....   | Twin.                |
| Island Coal Company .....                       | Linton .....        | Island No. 5.        |
| Johnson Coal and Mining<br>Company .....        | Columbus, Ohio..... | Atlas No. 2.         |

## KNOX COUNTY.

|                             |                    |                |
|-----------------------------|--------------------|----------------|
| Bicknell Coal Company ..... | Bicknell .....     | Bicknell.      |
| Vulcan Coal Company .....   | Indianapolis ..... | Edwardsport.   |
| Lynn Coal Company .....     | Bicknell .....     | Lynn.          |
| Knox Coal Company .....     | Bicknell .....     | Knox.          |
| Prospect Hill Coal Company. | Vincennes .....    | Prospect Hill. |
| Enterprise Coal Company...  | Bicknell .....     | Enterprise.    |

## PARKE COUNTY.

| NAME.   | ADDRESS.           | MINES.               |
|---|--------------------|----------------------|
| Brazil Block Coal Company.                      | Brazil .....       | Brazil Block No. 12. |
| Brazil Block Coal Company..                     | Brazil .....       | Cox No. 3.           |
| Brazil Block Coal Company..                     | Brazil .....       | Brazil Block No. 9.  |
| Rock Run Coal Company .....                     | Montezuma .....    | Lucia.               |
| Rock Run Coal Company .....                     | Montezuma .....    | Mecca No. 1.         |
| Wabash Valley Coal Com-<br>pany .....           | Chicago, Ill ..... | Lyford No. 1.        |
| Otter Creek Coal Company...                     | Brazil .....       | Mary.                |
| I. W. McIntosh Coal Com-<br>pany .....          | Brazil .....       | McIntosh No. 3.      |
| New Century Coal and Min-<br>ing Company .....  | Montezuma .....    | New Century.         |
| Zeller, McClellan & Company                     | Brazil .....       | Superior No. 1.      |
| Zeller, McClellan & Company                     | Brazil .....       | Superior No. 2.      |
| Zeller, McClellan & Company                     | Brazil .....       | Superior No. 3.      |
| Minshal Vein Coal Company.                      | Terre Haute .....  | Minshal No. 1.       |
| Plymouth Block Coal Com-<br>pany .....          | Carbon .....       | Pan-American.        |
| C. B. Harrison .....                            | Rockville .....    | Harrison.            |
| W. P. Harrison .....                            | Rockville .....    | Harrison.            |
| Raccoon Valley Coal and<br>Mining Company ..... | Terre Haute .....  | Raccoon.             |
| Parke County Coal Company                       | Rosedale .....     | Parke No. 11.        |
| Minshal Vein Coal and Min-<br>ing Company ..... | Terre Haute .....  | Minshal No. 2.       |

## PERRY COUNTY.

|                       |            |       |
|-----------------------|------------|-------|
| Bergenroth Bros. .... | Troy ..... | Troy. |
|-----------------------|------------|-------|

## PIKE COUNTY.

|                              |                    |                 |
|------------------------------|--------------------|-----------------|
| Aberdeen Coal Company....    | Littles .....      | Aberdeen.       |
| D. Ingle Coal Company .....  | Ayrshire .....     | Ayrshire No. 3. |
| D. Ingle Coal Company .....  | Ayrshire .....     | Ayrshire No. 4. |
| D. Ingle Coal Company .....  | Ayrshire .....     | Ayrshire No. 5. |
| D. Ingle Coal Company .....  | Ayrshire .....     | Ayrshire No. 6. |
| S. W. Little Coal Company... | Evansville .....   | Blackburn.      |
| S. W. Little Coal Company... | Evansville .....   | Littles.        |
| S. W. Little Coal Company... | Evansville .....   | Rogers.         |
| S. H. Wulfman Coal Company   | Huntingburg .....  | Hartwell.       |
| J. Wolley Coal Company....   | Evansville .....   | Petersburg.     |
| Aberdeen Coal Company....    | Littles .....      | Carbon.         |
| Massey Coal Company.....     | Oakland City ..... | Massey.         |
| Winslow Gas Coal Company.    | Winslow .....      | Winslow.        |

## SULLIVAN COUNTY.

|   |                    |                       |
|---|--------------------|-----------------------|
| Washington Fuel Company..                         | Chicago, Ill ..... | Bunker Hill.          |
| Rainbow Coal and Mining<br>Company .....          | Chicago, Ill ..... | Caledonia.            |
| Indiana Chicago Coal Com-<br>pany .....           | Chicago, Ill ..... | Dugger.               |
| Green Hill Coal and Mining<br>Company .....       | Sullivan .....     | Green Hill.           |
| Hymera Coal and Mining<br>Company .....           | Chicago, Ill ..... | Hymera No. 1.         |
| Hymera Coal and Mining<br>Company .....           | Chicago, Ill ..... | Hymera No. 2.         |
| West Linton Coal and Mining<br>Company .....      | Linton .....       | Ingleside.            |
| New Pittsburgh Coal and Min-<br>ing Company ..... | Chicago, Ill ..... | Phoenix Nos. 1, 2, 3. |
| Keystone Coal Company .....                       | Shelburn .....     | Shelburn.             |
| Harder-Hafer Coal Company                         | Chicago, Ill ..... | Star City.            |

## SULLIVAN COUNTY—Continued.

| NAME.  | ADDRESS.          | MINE.                   |
|--|-------------------|-------------------------|
| White Ash Coal Company....                   | Terre Haute ..... | White Ash.              |
| Sullivan Coal Company.....                   | Dugger.....       | Freeman.                |
| Sun Flower Coal Company....                  | Dugger.....       | Sun Flower.             |
| W. S. Bogle Coal and Mining<br>Company ..... | Chicago, Ill..... | Glendora.               |
| Wilfred Coal Company.....                    | Shelburn.....     | Wilfred.                |
| Island Coal Company.....                     | Linton .....      | Island No. 4.           |
| Mammoth Vein Coal Com-<br>pany.....          | Shelburn.....     | Mammoth.                |
| Little Giant Coal Company..                  | Linton .....      | Little Giant.           |
| Cummins Coal Company.....                    | Chicago, Ill..... | Cummins.                |
| Indiana Hoeking Coal Com-<br>pany.....       | Farmersburg ..... | La Blanz.               |
| Citizens Coal Company.....                   | Sullivan.....     | Citizens.               |
| J. Wolley Coal Company.....                  | Evansville.....   | Mildred.                |
| Bruilletes Coal Company....                  | Terre Haute ..... | Bruilletes Creek No. 6. |

## VANDERBURGH COUNTY.

|   |                 |               |
|---|-----------------|---------------|
| Diamond Coal Company .....                  | Evansville..... | Diamond.      |
| H. A. Lozier Coal Company..                 | Evansville..... | First Avenue. |
| John Ingle Coal Company....                 | Evansville..... | Ingle.        |
| Crescent Coal Company.....                  | Evansville..... | Unity.        |
| Evansville Coal and Mining<br>Company ..... | Evansville..... | Union.        |

## VERMILLION COUNTY.

|  |                   |                       |
|--|-------------------|-----------------------|
| Bruilletes Creek Coal Com-<br>pany ..... | Clinton.....      | Bruilletes Nos. 3, 5. |
| McClellan's Sons & Company               | Clinton.....      | Buckeye.              |
| Cayuga Press Brick Company               | Cayuga.....       | Cayuga.               |
| Clinton Coal Company.....                | Clinton.....      | Crown Hill.           |
| Oak Hill Coal Mining Com-<br>pany .....  | Clinton.....      | Oak Hill.             |
| Keller Coal Company.....                 | Chicago, Ill..... | Prince.               |
| Willow Grove Coal Company                | Clinton.....      | Willow Grove.         |
| Brazil Block Coal Company..              | Brazil.....       | Rhodes.               |
| Clinton Coal Company.....                | Clinton.....      | Crown Hill No. 2.     |

## VIGO COUNTY.

|  |                   |                |
|--|-------------------|----------------|
| Terre Haute Brick and Pipe<br>Company.....   | Terre Haute.....  | Brick Works.   |
| Big Vein Coal and Mining<br>Company .....    | Chicago, Ill..... | Chicago No. 6. |
| Coal Bluff Mining Company..                  | Terre Haute ..... | Diamond.       |
| Coal Bluff Mining Company..                  | Terre Haute.....  | Peerless.      |
| Coal Bluff Mining Company..                  | Terre Haute.....  | Lawton.        |
| Coal Bluff Mining Company..                  | Terre Haute.....  | Union.         |
| J. Ehrlich Coal Company....                  | Seeleyville.....  | Ehrlich.       |
| Grant Coal Company.....                      | Grant.....        | Grant No. 2.   |
| Glen Oak Coal and Mining<br>Company.....     | Chicago, Ill..... | Glen Oak.      |
| Loughner Coal Company.....                   | Seeleyville.....  | Hector.        |
| Bruilletes Creek Coal Com-<br>pany .....     | Clinton .....     | Klondyke.      |
| Miami Coal Company.....                      | Brazil.....       | Miami.         |
| Brazil Mining Company.....                   | Chicago, Ill..... | Nickelplate.   |
| Parke County Coal Company                    | Rosedale.....     | Parke No. 10.  |
| Vigo Coal Company.....                       | Seeleyville.....  | Ray.           |
| Fauvre Coal Company.....                     | Indianapolis..... | Vigo.          |
| Seeleyville Coal and Mining<br>Company ..... | Seeleyville.....  | Rosebud No. 2. |
| Seeleyville Coal and Mining<br>Company ..... | Seeleyville.....  | Royal No. 1.   |

## VIGO COUNTY—Continued.

| NAME.  | ADDRESS.            | MINE.        |
|--|---------------------|--------------|
| Harris-Landford Coal and Mining Company..... | W. Terre Haute..... | Larimer.     |
| Home Coal Company.....                       | W. Terre Haute..... | Eagle.       |
| Home Coal Company.....                       | Terre Haute.....    | Broadhurst.  |
| Fauvre Coal Company.....                     | Indianapolis.....   | Redbird.     |
| Miami Coal Company.....                      | Brazil.....         | Miami No. 2. |
| Deep Vein Coal Company...                    | Terre Haute.....    | Deep Vein.   |
| Greenfield Mining Company.                   | Terre Haute.....    | Greenfield.  |
| Sugar Creek Coal Company..                   | Terre Haute.....    | Sugar Creek. |
| Lost Creek Coal Company...                   | Terre Haute.....    | Lost Creek.  |

## WARRICK COUNTY.

|  |                 |                 |
|--|-----------------|-----------------|
| Hall & Marsh.....                      | Evansville..... | Air Line.       |
| Big Four Coal Company.....             | Boonville.....  | Big Four.       |
| J. Wolley Coal Company.....            | Evansville..... | Big Vein No. 1. |
| Caledonia Coal and Mining Company..... | Boonville.....  | Caledonia.      |
| J. A. Bryan.....                       | Evansville..... | Chandler.       |
| Charles Menden.....                    | Evansville..... | DeForrest.      |
| John Archibald Coal Company.....       | Evansville..... | Star No. 1.     |
| T. D. Scales Coal Company..            | Boonville.....  | Electric.       |

Names and addresses of mine bosses of the various Indiana mines:

## CLAY COUNTY.

| NAMES.                  | ADDRESSES.        | MINES.                           |
|-------------------------|-------------------|----------------------------------|
| John Boivin.....        | Brazil.....       | Brazil Block Coal Company No. 1. |
| Jame. Burt.....         | Brazil.....       | Brazil Block Coal Company No. 8. |
| Joseph C. Winn.....     | Brazil.....       | Diamond No. 5.                   |
| Samuel Holden.....      | Brazil.....       | Continental.                     |
| A. P. Gilmour.....      | Knightsville..... | Gart No. 7.                      |
| William Rosser.....     | Diamond.....      | Gart No. 10.                     |
| John Jenkins.....       | Brazil.....       | Rebst. ck.                       |
| Fred Ebermine.....      | Knightsville..... | Cloverland.                      |
| Wm. Myers.....          | Turner.....       | Fairview.                        |
| Fred George.....        | Harmony.....      | Lawrence No. 6.                  |
| Thomas Thompson.....    | Hoosierville..... | Lawrence No. 7.                  |
| Moses Marks.....        | Cardonia.....     | Cornwall.                        |
| Walter Knox.....        | Asherville.....   | Crawford No. 2.                  |
| Gr. H. Howell.....      | Centerpoint.....  | Crawford No. 5.                  |
| William Spears.....     | Brazil.....       | Crawford No. 6.                  |
| Samuel Lindsay.....     | Hoosierville..... | Crawford No. 7.                  |
| John T. Summers.....    | Carbon.....       | Eureka No. 3.                    |
| H. B. Ehrlich.....      | Turner.....       | Fortner.                         |
| Jacob C. Ehrlich.....   | Staunton.....     | Kl. ndyke.                       |
| James Drumm.....        | Brazil.....       | Gifford No. 1.                   |
| John Barker.....        | Brazil.....       | Glen.                            |
| James A. King.....      | Brazil.....       | Monarch.                         |
| M. D. West.....         | Cloverland.....   | Cloverland.                      |
| Alexander Ferguson..... | Coal Mont.....    | Lewis.                           |
| George Myers.....       | Brazil.....       | Cloverdale No. 2.                |

## DAVIESS COUNTY.

|                      |                  |                   |
|----------------------|------------------|-------------------|
| A. Kocher.....       | Washington.....  | Cabel No. 9.      |
| Arnold Brown.....    | Montgomery.....  | Montgomery No. 2. |
| Edward Dant.....     | Montgomery.....  | Montgomery No. 3. |
| Daniel Davis.....    | Connellburg..... | Mutual.           |
| W. A. Jacobs.....    | Raglesville..... | Union.            |
| Jacob Mandabach..... | Washington.....  | Mandabach.        |
| Frank Harris.....    | Washington.....  | Wheatland.        |

## FOUNTAIN COUNTY.

| NAME.           | ADDRESS.         | MINE. |
|-----------------|------------------|-------|
| Wm. Perry ..... | Silverwood ..... | Rush. |

## GIBSON COUNTY.

|                        |                 |         |
|------------------------|-----------------|---------|
| George Archibald ..... | Princeton ..... | Oswald. |
|------------------------|-----------------|---------|

## GREENE COUNTY.

|                        |                  |                      |
|------------------------|------------------|----------------------|
| Reuben Small .....     | Linton .....     | Black Creek.         |
| Richard Potts .....    | Linton .....     | Island No. 1.        |
| Silas Richer .....     | Linton .....     | Island No. 2.        |
| T. Roberts .....       | Linton .....     | Island No. 3.        |
| James M. Scully .....  | Gilmour .....    | Gilmour.             |
| Frank Lockhart .....   | Linton .....     | Hoosier No. 1.       |
| George Epperson .....  | Linton .....     | Island Valley No. 2. |
| Joseph Fennel .....    | Linton .....     | Island Valley No. 3. |
| W. T. James .....      | Linton .....     | South Linton.        |
| John Jennings .....    | Jasonville ..... | Midland.             |
| Joseph Gibson .....    | Linton .....     | Vulcan.              |
| Wm. McQuade .....      | Linton .....     | Summit No. 2.        |
| James Burke .....      | Linton .....     | Templeton.           |
| Woody Badders .....    | Linton .....     | Victoria.            |
| John Kelly .....       | Linton .....     | Glenburn.            |
| Joseph Stevenson ..... | Linton .....     | Antioch.             |
| Thomas Thomas .....    | Midland .....    | Tower Hill.          |
| Isaac Valentine .....  | Jasonville ..... | Green Valley.        |
| Thomas Hiatt .....     | Jasonville ..... | Latta Creek No. 1.   |
| James Baxter .....     | Linton .....     | Atlas No. 1.         |
| Wm. Vanhorn .....      | Jasonville ..... | Fry.                 |
| Dan Davis .....        | Jasonville ..... | Lettinger.           |
| John Quigley .....     | Linton .....     | Twin.                |
| Charles Vaughn .....   | Linton .....     | Island No. 5.        |
| W. McChalp .....       | Linton .....     | Atlas No. 2.         |

## KNOX COUNTY.

|                       |                |                |
|-----------------------|----------------|----------------|
| R. M. Freeman .....   | Bicknell ..... | Bicknell.      |
| William Lynn .....    | Bicknell ..... | Knox.          |
| Ellis G. Hooper ..... | Bicknell ..... | Lynn.          |
| Phelix Mullin .....   | Bicknell ..... | Prospect Hill. |

## PARKE COUNTY.

|                         |                    |                      |
|-------------------------|--------------------|----------------------|
| C. B. Harrison .....    | Rockville .....    | Harrison.            |
| W. P. Harrison .....    | Rockville .....    | Harrison.            |
| Chas. C. Dodge .....    | Knightsville ..... | Brazil Block No. 12. |
| George H. Dodge .....   | Coxville .....     | Cox No. 3.           |
| James Lamb .....        | Montezuma .....    | Lucia.               |
| Morgan Roberts .....    | Mecca .....        | Mecca No. 1.         |
| Edward Allias .....     | Montezuma .....    | New Century.         |
| Wm. Vanlieu .....       | Lynford .....      | Lynford No. 1.       |
| John Chesterfield ..... | Brazil .....       | Mary.                |
| John Suttie .....       | Brazil .....       | McIntosh No. 3.      |
| George Myers .....      | Brazil .....       | Superior No. 1.      |
| Nap Harris .....        | Brazil .....       | Superior No. 2.      |
| Jos. Donahay .....      | Brazil .....       | Superior No. 3.      |
| Silas Jones .....       | Jes-up .....       | Minshal No. 1.       |
| Thomas Dalton .....     | Carbon .....       | Pan-American.        |
| James M. Coakley .....  | Diamond .....      | Brazil Block No. 9.  |
| Thomas Karrack .....    | Coxville .....     | Raccoon.             |
| George Mitch .....      | Rosedale .....     | Parke No. 11.        |

## PERRY COUNTY.

| NAME.            | ADDRESS.   | MINE. |
|------------------|------------|-------|
| Wm. Schmuck..... | Troy ..... | Troy. |

## PIKE COUNTY.

|                       |                    |                 |
|-----------------------|--------------------|-----------------|
| H. L. Williams .....  | Oakland City ..... | Massey.         |
| John Jones .....      | Ayrshire .....     | Aberdeen.       |
| Bart Stinson .....    | Ayrshire .....     | Ayrshire No. 3. |
| W. L. Smith .....     | Ayrshire .....     | Ayrshire No. 4. |
| J. Johnson .....      | Ayrshire .....     | Ayrshire No. 5. |
| D. Ingle, Jr. ....    | Ayrshire .....     | Ayrshire No. 6. |
| John Wiley .....      | Petersburg .....   | Blackburn.      |
| George Briggs .....   | Hartwell .....     | Hartwell.       |
| Herman Rosa .....     | Littles .....      | Littles.        |
| H. T. Brewis .....    | Petersburg .....   | Petersburg.     |
| John D. Johnson ..... | Ayrshire .....     | Carbon.         |
| John Jennings .....   | Winslow .....      | Winslow.        |

## SULLIVAN COUNTY.

|                         |                     |                     |
|-------------------------|---------------------|---------------------|
| Martin Navin .....      | Farnsworth .....    | Bunkerhill.         |
| James Stewart .....     | Farnsworth .....    | Calladonia.         |
| Chas. Horton .....      | Dugger .....        | Dugger.             |
| Wm. Epperson .....      | Sullivan .....      | Green Hill.         |
| John Evans .....        | Hymers .....        | Hymers No. 1.       |
| John Griffith .....     | Dugger .....        | West Linton.        |
| George Sargent .....    | Jackson Hill .....  | Jackson Hill No. 2. |
| Asa Roberts .....       | Alum Cave .....     | Phoenix No. 1.      |
| Alex Fauld .....        | Alum Cave .....     | Phoenix No. 3.      |
| C. C. Hall .....        | Shelburn .....      | Shelburn.           |
| H. D. Wooley .....      | Delcarbo .....      | Star City.          |
| Wm. Green .....         | Hymers .....        | White Ash.          |
| O. H. Hendrickson ..... | Dugger .....        | Freeman.            |
| Thomas Leighman .....   | Dugger .....        | Sun Flower.         |
| Walter Phillips .....   | Sullivan .....      | Glendora.           |
| Theodore Thompson ..... | Hymers .....        | Hymers No. 2.       |
| Ed. Newport .....       | Shelburn .....      | Wilfred No. 1.      |
| David Love .....        | Dugger .....        | Island No. 4.       |
| John Crosby .....       | Pleasantville ..... | Little Giant.       |
| John Patton .....       | Cummins .....       | Cummins.            |
| John D. Price .....     | Farmersburg .....   | LaBlanz.            |
| Richard Jones .....     | Sullivan .....      | Citizens.           |
| John McCloud .....      | Sullivan .....      | Mildred.            |

## VANDERBURGH COUNTY.

|                        |                |                   |
|------------------------|----------------|-------------------|
| S. T. Harvey .....     | Clinton .....  | Bruilletes No. 3. |
| Wm. Chesterfield ..... | Clinton .....  | Buckeye.          |
| R. M. Irwin .....      | Cayuga .....   | Eureka.           |
| Wm. F. Brown .....     | Clinton .....  | Crown Hill.       |
| Wm. Hutchison .....    | Clinton .....  | Oak Hill.         |
| Frank Christy .....    | Clinton .....  | Prince.           |
| James Boskell .....    | Clinton .....  | Willow Grove.     |
| Samuel Ogden .....     | Atherton ..... | Atherton.         |



## VIGO COUNTY.

| NAME.                 | ADDRESS.              | MINE.          |
|-----------------------|-----------------------|----------------|
| Samuel Holden.....    | Coal Bluff.....       | Chicago No. 6. |
| Richard Jackson.....  | Burnett.....          | Diamond.       |
| Charles Long.....     | Coal Bluff.....       | Peerless.      |
| John Cain.....        | Coal Bluff.....       | Lawton.        |
| James Johnson.....    | Fontanet.....         | Union.         |
| J. L. Devonald.....   | Burnett.....          | Grant No. 2.   |
| Samuel C. Watts.....  | Burnett.....          | Glen Oak.      |
| Thomas Maxwell.....   | Seeleyville.....      | Hecktor.       |
| William Seank.....    | Burnett.....          | Klondyke.      |
| John Baird.....       | Brazil.....           | Miami.         |
| Thomas Bingham.....   | Heckland.....         | Parke No. 10.  |
| R. T. Bieler.....     | West Terre Haute..... | Redbird.       |
| J. D. Lewis.....      | Seeleyville.....      | Rosebud.       |
| John Scott.....       | Seeleyville.....      | Royal No. 1.   |
| John F. Irwin.....    | West Terre Haute..... | Larimer.       |
| W. N. Broadhurst..... | West Terre Haute..... | Broadhurst.    |
| William Winn.....     | Ehrmindale.....       | Miami No. 2.   |
| Richard Morgan.....   | West Terre Haute..... | Deep Vein.     |
| James A. Erwin.....   | West Terre Haute..... | Greenfield.    |

## WARRICK COUNTY.

|                      |                |                 |
|----------------------|----------------|-----------------|
| T. B. Hall.....      | Chandler.....  | Air Line.       |
| John E. Kelley.....  | Boonville..... | Big Four.       |
| P. F. Hargrove.....  | Boonville..... | Big Vein No. 3. |
| L. M. Gaiser.....    | Boonville..... | Caledonia.      |
| John McCain.....     | Chandler.....  | Chandler.       |
| Mark Wilson.....     | DeForrest..... | DeForrest.      |
| Edwin Archibald..... | Newburg.....   | Star No. 1.     |
| William Mason.....   | Boonville..... | Electric.       |

IN THE FOLLOWING SUMMARY WILL BE FOUND MOST OF THE  
IMPORTANT TOTALS FOR THE STATE FOR THE YEAR.

## SUMMARY 1903.

|   |                |
|---|----------------|
| Number of counties having shipping mines.....           | 14             |
| Number of mines working more than ten men.....          | 184            |
| Number of new mines.....                                | 37             |
| Number of mines abandoned.....                          | 11             |
| Number of pick miners employed.....                     | 7,808          |
| Number of machine, runners and helpers.....             | 588            |
| Number of loaders.....                                  | 2,232          |
| Number of inside day and monthly men employed.....      | 2,981          |
| Number of outside day and monthly men employed.....     | 1,519          |
| Total number of all employes.....                       | 15,128         |
| Number of days worked.....                              | 29,928         |
| Number mules used.....                                  | 1,300          |
| Number kegs of powder used.....                         | 327,820        |
| Amount of wages paid to miners.....                     | \$6,017,021 20 |
| Amount of wages paid to inside day and monthly men..... | 2,085,116 28   |
| Amount of wages paid to outside day and monthly men.... | 1,047,434 64   |

|  |                |
|--|----------------|
| Total amount of wages paid to all employes.....    | \$9,149,572 12 |
| Amount of money spent on improvements.....         | 168,071 96     |
| Total tons machine mine block coal.....            | 187,430        |
| Total tons hand mine block coal.....               | 838,510        |
| Total tons block coal .....                        | 1,025,940      |
| Total tons bituminous hand mine coal.....          | 5,749,965      |
| Total tons bituminous hand mine coal.....          | 3,216,648      |
| Total tons bituminous machine mine coal.....       | 8,966,613      |
| Total tons hand mine coal.....                     | 6,588,475      |
| Total tons machine mine coal.....                  | 3,404,078      |
| Total tons of coal produced.....                   | 9,992,553      |
| Total tons of coal consumed in Indiana.....        | 5,009,081      |
| Total tons of coal shipped outside of Indiana..... | 4,983,472      |
| Total number of steam boilers.....                 | 401            |
| Total number of electric motors.....               | 20             |
| Total number of dynamos.....                       | 53             |
| Total compressors .....                            | 13             |
| Number of compressed air punching machines.....    | 82             |
| Number of electric chain machines.....             | 235            |
| Total number of mining machines.....               | 317            |
| Total number of box car loaders.....               | 12             |
| Total number of fatalities.....                    | 55             |
| Total number of serious accidents.....             | 145            |
| Total number of minor accidents.....               | 77             |
| Total number of accidents.....                     | 277            |