

## State inspector of coal mines reports

### Section 68, Pages 2011 - 2040

These reports of the Kansas State Mine Inspector mostly concern coal mining, though by 1929 the scope of the reports broadens to include metal mines. The content of individual reports will vary. The reports address mining laws and mining districts; industry production and earnings; fatal and non-fatal accidents; accident investigations and transcripts of oral interviews; labor strikes; mine locations; mining companies and operators; and proceedings of mining conventions. The reports document the political, economic, social, and environmental impacts of more than seventy years of mining in southeastern Kansas.

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Mine No. 5 of the Pittsburg-Midway Coal and Mining Company is located three-fourths mile east of North Midway, connected with the Frisco railway. This is a very old mine, and when there were heavy rains the water would run in from the surface and flood the mine, but the company had good pumps installed and pumped out the water, built corduroy roads and raised the track in the low places, making the roads first-class. The ventilation in this mine was good. They employed 24 day men, top and bottom, and 65 miners. Working 200 days they produced 24,512 tons of coal. This mine is now worked out and has been abandoned. Wm. Morgan, mine foreman.

Mine No. 3 of the Scammon Coal Company is located two and one-half miles northwest of Mulberry, connected with the Frisco railway. It was formerly known as the Nichols & Linthicum mine. This company has built a new tippie, sunk an air-shaft and erected a new twelve-foot fan. This is an old shaft, is very poorly timbered, and has very bad cages. I have requested the company to timber the mine and put in new cages. This is a dry mine. The roads are in a good condition. They have four currents of air; an over-cast is used for the return air-course. While it is a very old mine it has stood there for years and has not been developed. I called the company's attention that they should make a man-way around the bottom of the shaft and put in some new doors and fill up the old cross-cuts which had been left open since the mine had worked on the low back-entry system. They promised to attend to those things at once. The mine is now being developed on the double brush-entry system. They are now employing about 30 men developing this mine. Henry Heln, mine foreman.

Mine No. 4 of the Gross & Jenkins Coal Company is located one and three-fourths miles south of Coalvale, on the Frisco railway. They have a good tippie, top buildings and machinery, shaker-screens and self-dumping cages. The appliance used to dump these cages consists of two wooden beams extending upward from the bottom of the cage about eight or ten feet. On account of this appliance the company claimed they could not put covers on their cages. I then ordered a solid cover put on the opposite side, and on the side the beams were on they could put a cover between them. They complied with this request. The mine was developed on the low back-entry system, and in places where the cross-cuts and air-courses had been neglected the air was very poor. I ordered those things to be attended to at once, and on the next visit I found the air in much better condition. On the next

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visit to this mine, we found all the entries were being brushed and the cross-cuts being filled in, which made a big improvement in the ventilation. This mine is ventilated by a twelve-foot fan that gives two currents of air. The boss promised to put in an overcast and give each quarter section its own current of air. The shaft is 8 x 16 feet and 61 feet deep, well timbered, and has good bottoms also well timbered. The roadways are kept in good condition. This mine employs 12 day men, top and bottom, and 55 miners. Working 208 days, they produced 30,816 tons of coal. William Jenkins, mine foreman.

Mine No. 7 of the Columbus Coal Company is located south of Mulberry, connected with the Frisco railway. This mine has a good top house, good tipple and machinery, shaker-screens and self-dumping cages with covers and safety-catches attached. The shaft is 8 x 16 feet. It is well timbered and has a large bottom, also well timbered. This mine was developed on the double-entry brush system. In one of these entries they had a very bad squeeze, which affected the return air-course. The air-course was rebrushed six feet high, which made a great improvement in the ventilation. This company equipped the mine with electric mining-machines, but they were not a success and have been abandoned. The mine is ventilated by a twelve-foot fan, has an undercast, and four separate and distinct currents of air. This fan produces 30,000 cubic feet of air per minute. The roads are well sprinkled and are kept in good condition.

Mine No. 9 of the Cherokee-Pittsburg Coal and Mining Company is located northwest of Frontenac, connected with the A. T. & S. F. railway. This mine has good top buildings, a good tipple and machinery, shaker-screens, self-dumping cages with tops and safety-catches attached. They have a first-motion engine. The shaft is 7 x 16 feet and 100 feet deep, is well timbered and has a large bottom. This mine is ventilated by a sixteen-foot fan, producing 36,220 cubic feet of air per minute. It has a good overcast, built up with bricks and mortar, making four separate currents of air. In our first visit we found some of the cross-cuts very small and the return air-courses in bad shape. These we ordered to be attended to at once, which was done. The roads are well sprinkled and kept in good condition. The fans run slow while the shots are being fired. This mine employs 66 underground day men, 21 top men, 7 boys and 204 miners. Working 238 days they produced 200,632.3 tons of coal. Jno. McGarvia and Abe Tenant, mine foremen.





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Mine No. 11 of the Cherokee-Pittsburg Coal and Mining Company is located four miles north of Frontenac on the A. T. & S. F. railway. This mine has very large buildings on top, well constructed, good machinery, shaker-screens, self-dumping cages with covers and safety-catches attached. This mine has a first-motion engine. The shaft is 8 x 16 feet and 145 feet deep, well timbered, and has a large bottom, which is also well timbered. Mine is ventilated by a sixteen-foot fan producing 37,960 cubic feet of air per minute; has a good overcast, each quarter section receiving its own current of air. The coal on the north and northwest quarter is hauled to the bottom by an electric motor. The fan is slowed down while the shots are being fired. The roads are sprinkled and kept in good condition. This mine employs 41 day men underground, 21 top men, 8 boys and 147 miners, who worked 240 days and produced 140,899 tons of coal. The coal in this mine has been very faulty, and a great many entries have been driven prospecting for better coal. Thus the air-courses were partly choked up in several sections of the mine. The present mine foreman has done considerable work cleaning up these air-courses. The coal in this mine took a dip of about 40 feet in 300 feet, making a very steep grade for the mules to pull the coal out. Although they have found a better quality of coal than they formerly had, and are employing a larger number of miners, on account of this steep grade it is hard to get the coal away from the miners. They have done a great deal of work on the roads, grading them so the hill would not be so steep, and putting them in good condition for the electric motor, and since it has been installed they are able to pull the coal up this grade much better than with the mule. They have nearly doubled the number of miners and are producing considerable more coal. The mine is now in a first-class condition. Felix Murphy, mine foreman.

Mine No. 5 of the Cherokee-Pittsburg Coal and Mining Company, is located one-half mile northwest of Chicopee, on the A. T. & S. F. railway. There are good top buildings, tippie and machinery, shaker-screens, self-dumping cages with covers and safety-catches attached, and an excellent first-motion engine to hoist the coal. This shaft, which is well timbered, is the largest in the state, being 9 x 24 feet and 90 feet deep, partitioned off into four shafts, where they expected to put in four cages and load the coal into eight cars at the same time, but on account of the faulty coal when they developed the mine they abandoned the idea of putting in the four cages, as they could hoist with two cages all the coal which

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was produced. They have a 400-horse-power engine installed here to hoist the coal. The coal is hauled from the parting to the bottom with an electric motor. They have an electric pump which can be moved to any part of the mine to pump water. Several drill-holes have been put down for the purpose of pumping water out of the old entries which had been abandoned, and these entries have all had the water pumped out and are now working. On the last of the air there was complaint from the miners, and upon inspection I found considerable black damp mixed with the air. Some of those air-currents, there being four of them in this mine, traveled a distance of about five miles, and upon investigating I found that a great many cross-cuts made between the entries were very small. I called the attention of the miners to the fact that it was utterly impossible to force a good current through air-courses five miles long when there were so many small break-throughs which would retard the progress of the air, as the friction on the sides, top and bottom of the air-courses was what the ventilating pressure had to overcome, and if they would increase the size of their break-throughs it would increase the volume of air with the same ventilating pressure in proportion to the increase made in the size of the break-throughs. I then served notice on them that all break-throughs should not be less than twenty-one square feet, and I would see that the company would keep their air-courses at least as large as the law requires. The fan at this mine, making seventy to eighty revolutions per minute, produced 44,560 cubic feet of air per minute. I then requested the mine foreman to increase the revolutions of the fan or get a larger one, as a mine with such long air-courses requires much more air to be started in, there being more leakages in those long air-courses than in shorter ones. The company installed a new engine for this fan and increased the revolutions to 120 per minute, thus increasing the volume of air, and the miners began making their break-throughs larger, and since that time the ventilation in this mine has been in a good condition. There are employed 89 underground day men, 31 top men, 9 boys and 336 miners, who worked 271 days and produced 321,529.1 tons of coal. William Hart, mine foreman.

Mine No. 6 of the Cherokee-Pittsburg Coal and Mining Company is located in the west part of Frontenac, connected with the A. T. & S. F. railway. The roads in this mine are dry, but there was considerable loose rock hanging, which took a good deal of attention. The air is split in four currents; has two overcasts, one on each side of the mine, but on account of the long distance traveled





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had considerable impurities in it on the last of the air. In the northeast section of the mine, where the air is bad, several drill-holes have been sunk, which has benefited the air in this part of the mine. The coal is hauled to the bottom on the north side of the mine by two electric motors for a distance of about one mile. This is one of the large producing mines of the state, giving employment to 86 underground day men, 21 top men, 6 boys and 253 miners, who worked 265 days and produced 199,738.7 tons of coal. This mine is 8x16 feet and 85 feet deep. The north side is now abandoned and they are only working the south side, pulling all the coal to the bottom with mules. There was abundance of air in this mine, produced by a very large fan, but on account of the great distance it had to travel, and the air-ways getting choked up, sometimes the air was very poor in some portions of the mine, but the company was very prompt to remedy when notified of the same. Phillip Jones, mine foreman.

Mine No. 12 of the Cherokee-Pittsburg Coal and Mining Company is located one mile northwest of Frontenac, connected with the A. T. & S. F. railway. This mine was sunk close to the face of the north workings of mine No. 6. After developing the bottom, it will be a one-sided mine, all the coal being caged on one side and the empties bumped across to the other side, with the "empty" tracks graded so as to carry the empties around the mine to a place where the mules or motors can be hooked onto them. With this method they will never have any trouble with getting blocked up on the bottom with too many empty cars, as the loaded track is separated from the empty track. As soon as they had this bottom developed they broke through on the old workings of No. 6, and in just a few months from the time they began sinking this mine they were employing over 200 miners and producing 800 to 900 tons of coal per day, as they had a mile of face open in old No. 6. As soon as this new mine had broken through and completed installing the electric motors which had been used in mine No. 6, and changed the switches so the coal could be pulled through to No. 12 instead of No. 6, the mine was ready to employ a number of men that it would have taken two years to develop a mine large enough to supply places for if it was sunk on the solid coal and developed in the usual way. A new air-shaft has just been completed at this mine and they are preparing to erect a twenty-foot fan. The mine is dry and all entries are brushed—in fact, this company brushes all entries all the time. With this large fan erected they should always have abundance of air in this mine. Jno. O'Larey, mine foreman.



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Mine No. 8 of the Cherokee Coal and Mining Company is located half a mile southwest of Chicopee, connected with the A. T. & S. F. railway. The top buildings and machinery are not as large as at some of the other mines of this company, but the coal in this mine was good from the start. It was developed very rapidly and became a large producer, and is now the largest coal-producing mine in the state of Kansas. The output is beginning to be reduced, as part of the mine is now worked out. The excellent roads and the method used in opening this mine are the reasons for the large production. The method employed is known as the diagonal system; three parallel entries are driven on each side of the mine, and then diagonal entries are started from these at an angle of forty-five degrees. The coal is hauled to the bottom by mules, and the drivers do not interfere with each other as much on this system as they do where the entries are driven squarely off from the main entry. They have recently made two new partings in this mine. Until then the coal was hauled directly from the face to the bottom and no changes were made. There are employed 62 underground day men, 20 top men, 5 boys and 358 miners, who worked 270 days and produced 353,404.2 tons of coal. There is installed at this mine a shaker-screen under the chute, as the coal is hoisted too rapidly to dump it all into the shaker-screen. That part of the coal which goes through the main chute then runs over a shaker-screen, and the slack is taken out that way. The shaft, which is 7 x 15 feet and 89 feet deep, with 175-horse-power engine, has hoisted 1600 tons per day out of this mine. There are four separate currents of air, ventilated by a fan which produces 53,300 cubic feet of air per minute. Edward Flynn, mine foreman.

Dickinson Coal Company mine No. 6 is located two miles northwest of the Fuller depot, at Breezy Hill. There is a good engine to hoist the coal and good tippie, with shaker-screens and self-dumping cages. The shaft is 7½ x 11 feet and 210 feet deep. The shaft is well timbered and has a good bottom. Ventilated by a fourteen-foot fan producing 25,570 feet of air per minute. The entries have always been brushed on the double-entry system, and the air is excellent. The mine is very dry, but the roads are kept well sprinkled. When the shot-firers are firing the fan is run very slow. There are good cages with covers and safety-catches. They employ 15 day men, top and bottom, and 25 miners. Working 138 days, they produced 15,021 tons of coal. Jno. Kirkwood, mine foreman.





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Sheridan Coal Company mine No. 3 is located one and one-half miles west of the Fuller depot. The engine and machinery and top buildings are old, but the fan-house is a good building. The fan is kept in good condition. The shaft is 8 x 11 feet and 210 feet deep. The cages have covers and safety-catches. The shaft and the pit bottom are well timbered. The roads are kept well sprinkled. The mine is ventilated by a fourteen-foot fan, producing 30,500 cubic feet of air per minute. The fan in this mine is stopped when the shot-firers are firing the shots. The mine is in good condition. It employs 18 day men, top and bottom, and 90 miners, who worked 224 days, producing 54,874 tons of coal. W. S. Johnson, mine foreman.

Sheridan Coal Company mine No. 2 is located one-fourth mile west of the Fuller depot. This mine is equipped on top with good machinery and buildings, shaker-screens and self-dumping cages. The shaft is 7 x 11 feet and 77 feet deep, is well timbered, and the cages have covers and safety-catches. It is ventilated by a fourteen-foot fan producing 19,000 cubic feet of air per minute. The northeast section of the mine has been abandoned for some time. The mine is in good condition, excepting the roads, which should be sprinkled oftener. After calling the attention of the boss to the dry, dusty roads, he promised to have them sprinkled and keep them damp thereafter. The fan runs at very slow speed while the shots are being fired. Employs 22 day men, top and bottom, and 123 miners, who worked 240 days and produced 103,229 tons. Sam Neil, mine foreman.

Sheridan Coal Company mine No. 5 is located one mile north of the Fuller depot. There is a steam hoist. The shaft is 7 x 11 feet and 50 feet deep. It employs 12 day men, top and bottom, and 20 miners, who produced 6466 tons of coal, working 95 days. The top house was burned down, and they built a first-class top house and engine-house. This mine was known as the Watson mine. The present company is improving it by timbering the shaft well, enlarging and timbering the bottom and brushing the entries, which is putting the mine in good shape. The work is very faulty on the south. There is only two men employed prospecting. Cages are covered and have safety-catches. The mine is in a good condition. J. Cann, mine foreman.

McCormick Coal Company mine No. 1 is located one-half mile west of Curranville. This mine has good buildings and machinery on top, shaker-screens and self-dumping cages with covers and



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safety-catches. The shaft is well timbered. It is 8 x 16 feet and 119 feet deep. The bottom is well timbered, and in the last nine months 200 cross-timbers have been put in the entries to secure the roof. The roads are kept well sprinkled and the mine is in a generally good condition. It is ventilated by a twelve-foot fan producing 30,750 feet of air per minute. The fan is run very slowly while the shots are being fired. There is sufficient air going down this mine. Occasionally there has been complaint from the miners, but when the leakages have been stopped the air was then carried to the working-face. They employ 22 day men, top and bottom, and 126 miners. Working 232 days they produced 113,606 tons of coal. W. H. Berker, mine-foreman.

McCormick Coal Company mine No. 4 is located one and three-fourth miles northwest of Mulberry. This was the old Miller mine. This company has built a new tippie and improved the machinery on top, and put covers and safety-catches on the cages. The shaft is  $7\frac{1}{2}$  x 16 feet and 83 feet deep. The mine had been started on the single-entry system, and several of these entries had squeezed and choked up the air-courses, putting the mine in a very bad condition. W. L. Barker, the mine boss, did some very good work in driving entries around those that had squeezed, thus making better air-courses. He then left this mine to take charge of No. 1. The improvements were continued until the present by driving more air-courses, and this mine, which a few years ago was in a terrible condition, has been greatly improved. It is ventilated by a twelve-foot fan and produces 20,000 feet of air per minute. The fan is run very slowly while the shots are being fired. The roads are very dusty, but the boss has promised to attend to this right away. The manway is by the side of the hoisting-shaft. They have agreed to make a new manway, which is very much needed and will improve the mine considerably. They employ 20 day men, top and bottom, and 68 miners, who worked 259 days, producing 45,843 tons of coal. J. S. Samples, mine foreman.

Wear Coal Company mine No. 20 is located two and three-fourths miles northwest of Pittsburg, connected with the Frisco railway, and is a new mine. Everything around this mine has been arranged to handle a big output. It has good machinery and buildings. The shaft is well timbered. It is 8 x 13 feet and 120 feet deep. The bottom is well timbered with very strong timbers. The work in this mine has been very faulty from the start. The north side of the mine is in good condition, but the south side



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had very poor air on account of the return air-courses being neglected. The boss promised to travel the return air-courses and have this remedied at once. It is important that this should be done, since the air is so very bad on this side of the mine. The roads are kept well sprinkled and the fan is run very slowly while the shots are being fired. The mine is ventilated with a twelve-foot fan. There is sufficient volume of air going down this mine, but unless these air-courses are cleaned out it will be impossible to conduct the air to the working-face. This mine, like all others working in fault, is poorly ventilated on account of the small air-courses which are usually driven while prospecting or going through fault. They employ 7 day men, top and bottom, and 40 miners. Working 234 days, they produced 8173 tons of coal. Chas. Davis, mine foreman.

Wear Coal Company mine No. 19 is located north and east of Dunkirk, connected with the A. T. & S. F. railway. It is very well equipped, having good engine, buildings and tipple, self-dumping cages and shaker-screen. The cages have covers and safety-catches. The shaft and the pit bottom are well timbered, and arranged to handle a big output. The shaft is 8x13 feet and 180 feet deep. There has been considerable trouble with bad faults in the coal from the bottom of this mine, and some of the entries have been stopped on account of the faults. Considerable gas was generated in the bottom of this mine while it was being developed, but later they have handled it successfully without any accidents occurring. Ventilated by a twelve-foot fan which produces sufficient air. Not many men are employed, as they are still trying to get through the faults. If they succeed in finding their coal this mine is equipped to be one of the best producers the company has. The fan runs very slowly while the shots are being fired. They employ 12 day men, top and bottom, and 49 miners, who worked 238 days and produced 13,408 tons of coal. Thos. Davis, mine foreman.

Wear Coal Company mine No. 17, located at Dunkirk, connected with A. T. & S. F. railway. There is a steam hoist, shaker-screens, and self-dumping cages with safety-catches. This mine was started on the low back-entry system, with curtains on every cross-cut. The air was very poor at the working-face under this system, but since they have brushed both entries the air is carried to the working-face much better than formerly. There is a rock about three feet above the coal in this mine, from which there comes considerable oil. The entries have pools of this oil which has oozed out of the rock. Several of the entries on the west side of this mine have



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been driven through a fault and the straight west has been driven through and opened up in better coal. Ventilated by a twelve-foot fan, producing a volume of 27,400 cubic feet of air per minute. The fan is kept running while the shots are being fired. They have a steam-pipe running down the mine, extending into each of the main entries, and the steam is turned on and allowed to exhaust in the entries and is carried in by the current of air to the working-face during the time the shots are being fired. The roadways are kept well-sprinkled. The mine is in good condition. The shaft is 185 feet deep. There are employed 29 day men and 112 miners, who worked 165 days, producing 54,011 tons of coal. Gus Lunburg, mine foreman.

Girard Coal Company, four and one-half miles east of Girard, is connected with the A. T. & S. F. railway. The buildings on top are good and substantial; good machinery, shaker-screens and self-dumping cages with safety-catches. I called the attention of the mine foreman to the condition of the safety-catches. I did not believe they would catch; they were overhauled and put in better condition. The shaft is 7x13½ feet and 168 feet deep, well timbered. The bottom is also well timbered and kept in good condition. An air-course, which had been driven six feet wide, caved in, but since that time another air-course has been driven around this, improving the air in this section. The cross-cuts were very small and partly filled up with props and powder-boxes. Upon notifying the boss he said he would see that those cross-cuts were made larger and kept clear. The mine is ventilated by a sixteen-foot fan run by a belt. The belt was in bad condition, but they were expecting a new one any day. The volume of air was 20,000 cubic feet per minute. They keep the fan running at this mine while the shots are being fired. They employ 15 day men, top and bottom, and 62 miners, who worked 195 days, producing 38,365 tons of coal. Jno. Steel, mine foreman.

Hamilton Coal Company mine No. 7 is located at Radley, connected with A. T. & S. F. railway. This is a new mine, just being developed. They have only recently made connections. The shaft is 7x13½ feet and 165 feet deep. The cages have covers and safety-catches. This is a very dry mine. They have water-pipes extending down the mine and into the entries, with a hose attachment to sprinkle the roads, sides and roof. The air has been conducted to the face with curtains, but they are now preparing to put doors in the place of the curtains. It is ventilated by a sixteen-foot fan producing a volume of 30,000 cubic feet of air per minute. The fan



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is stopped while the shots are being fired. The hose attachment with which they sprinkle the sides and roof is a good precaution to reduce the liability of an explosion. Jno. Fulton, mine foreman.

Hamilton Coal and Mercantile Company mine No. 6 is located one-fourth mile north of Cherokee. This mine has a steam hoist. The shaft, which is well timbered, is  $7\frac{1}{2} \times 15\frac{1}{2}$  feet and 120 feet deep. This mine is well ventilated, and when they were developing it, about two years ago, they only allowed one shot to be fired in a room at one time. The shot-firers would make the first round, firing one shot in each place, the fan being stopped while they were doing this; they would then go on top and have the fan speeded up, and in about an hour the smoke would all be driven out of the mine. They would then go down and fire the remaining shots. In spite of this precaution two explosions occurred at this mine—one on the 18th and one on the 19th of December—but I am happy to say that no shot-firers lost their lives, although burned quite severely. It seems peculiar that those two explosions should occur so close together, as they have not had one in that mine since that time. There are employed 23 day men, top and bottom, and 63 miners. Working 247 days they produced 43,025 tons of coal. Robt. Eadie, mine foreman.

Chapman Coal Company mine No. 4 is located a little east of Curranville. This is an old mine and nearly worked out. Has a steam hoist and is ventilated by a twelve-foot fan. There have been a great many improvements made by cleaning out the return air-courses and corduroying the road. The fan runs very slowly while they are firing the shots. This mine is in fair condition, considering it is an old mine and just about worked out. The shaft is  $8 \times 16$  feet and 45 feet deep. They employ 13 day men and 40 miners. Working 160 days they produced 7500 tons of coal. Anthony Ryder, mine foreman.

Chapman Coal Company mine No. 2 is located one and one-fourth miles south of Fuller. This mine has a steam hoist. The shaft is  $8 \times 16$  feet and 45 feet deep. They employed 21 day men and 180 miners, who worked 130 days, producing 66,500 tons of coal. This mine is now abandoned. Geo. Fox, mine foreman.

Chapman Coal Company mine No. 3 is located half a mile south of Fuller, and is well equipped on the top with a good tippie, automatic scales to weigh the miners' coal, shaker-screen, and self-dumping cages with covers and safety-catches. The shaft is well timbered, and also the bottom. This being a very shallow mine,



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with lots of water, the roads are very muddy; but a great deal of work has been done corduroying the roads and they are now in first-class condition. This mine was developed very rapidly by sinking an escape-shaft and driving through to meet the entry from the main shaft. The ventilation is good. It is ventilated by a fourteen-foot fan which produces 37,710 cubic feet of air per minute. The fan is stopped while the shot-firers are firing the shots. The shaft is 8 x 16 feet and 45 feet deep. It employed 60 miners and 13 day men in the process of development. Jno. T. Ryder, mine foreman.

Nevius-Coulter Coal Company mine No. 6 is one-fourth mile east of Radley station, connected with A. T. & S. F. railway. This is a new mine with good top buildings and machinery. The shaft is 8 x 16 feet and 172 feet deep. The cages are self-dumping, with covers and safety-catches. The bottom is well timbered. The air-shaft is sunk but they have not yet made the connections. At present they are ventilating the mine with a small fan. An air-chamber at the side of the main shaft is used as an air-shaft. They are preparing to put in a new fan and an overcast in the mine as soon as these connections are made. The roads are kept well sprinkled and the mine is in good condition. They are now employing 7 day men, top and bottom, and 20 miners, who are developing the mine. Dave Galbrath, mine foreman.

Nevius Coal Company mine No. 1 is located two miles west of Fourth and Broadway, Pittsburg. This is an old mine. They have been troubled with considerable fault, but on one side they got through it and into some coal that was very good. The shaft is 8 x 14 feet and 96 feet deep, well timbered, and the bottom is all well timbered. The cages have covers but no safety-catches. The fan was out of repair. They promised to remedy this at once. It is a twelve-foot fan producing an average of 17,000 cubic feet of air per minute. The roads are kept sprinkled and the fan is run slowly while the shots are being fired. All the men work on one side of this mine. Employs 14 day men and 43 miners, who worked 216 days and produced 42,149 tons of coal. Jas. Monahan, mine foreman.

C. C. Cockrell Coal Company mine No. 3, located east of Franklin, is a new mine with a good tippie, top buildings and machinery, shaker-screens, and self-dumping cages with covers and safety-catches. It is ventilated by a twelve-foot fan. They have an overcast, giving each quarter section a separate current of air. The



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roads are kept sprinkled and the fan is stopped when the shots are being fired. This mine is now being developed and is in good condition. They employ 19 top and bottom day men and 30 miners. Jno. Kane, mine foreman.

Joe Burnett Coal Company mine No. 1, located west of McCormick's Camp, is a new mine, and has just completed good top buildings and machinery, shaker-screens, and self-dumping cages with safety-catches. The shaft is 8x16 feet and 115 feet deep. They employ 9 top and bottom day men and 22 miners, and are now developing the mine. The bottom is well timbered and has a good overcast, giving each quarter section its own current of air. Ventilated by a twelve-foot fan. This is one of the latest improved fans, being all steel. The roads are kept sprinkled and the fan is stopped when they fire the shots. This is a good mine and is kept in good condition. Andrew Gasaline, mine foreman.

Mine No. 12 of the J. R. Crowe Coal Company is located two and one-half miles north of Weir, on the Frisco railway. This is a very old mine and will soon be worked out. It is shallow, and the roof is soft, and when there are heavy rains considerable water runs in from the surface through the places where it has caved in. They do a great deal of ditching and dig sumps to drain the roads; they also corduroy the roads. It takes considerable work to keep the roads in a reasonably fair condition, on account of so much water. They brush all of their entries, which gives them brushed return air-courses for the four separate currents of air. There are employed 6 top men, 14 underground men and 85 miners, who worked 232 days and produced 68,739 tons of coal. Jas. Reed, mine foreman.

Mine No. 11 of the J. R. Crowe Coal Company is located two and one-half miles north of Weir, on the Frisco railway. This mine employs 7 top men, 17 underground day men and 77 miners, who worked 210 days and produced 42,765 tons of coal. This mine is very wet, but by ditching and corduroying the roads they were kept in a fair condition. The mine has since been abandoned. Jas. Johnson, mine foreman.

Mine No. 14 of the J. R. Crowe Coal Company is located at Croweburg, connected by switch from the Frisco railway. This mine is well equipped with good top buildings, good machinery, shaker-screens, and self-dumping cages with covers and safety-catches. The shaft, which is well timbered, is 8x16 feet. This mine was developed on a cheap plan—the bottom was badly tim-





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bered; the air-courses around the bottom are made on the cheapest plan—if a car would go through that seemed to be good enough. The man who developed this mine had no thought of the future. The present boss had to retimber the bottom, and go through the air-courses and make them larger, so that a sufficient volume of air would go through to ventilate the mine. The stoppings were built in very poor shape, causing a good deal of leakage; frame doors were poorly hung. On our second visit to this mine we found the boss had made many improvements, and the ventilation was much better. This mine is worked on the double brush-entry system. Ventilated by a twenty-foot fan, producing 24,420 cubic feet of air per minute. It has an overcast, and each quarter section of the mine gets its own current of air. The fan is stopped while the shots are being fired. The roadways are sprinkled and are in good condition. This mine employs 20 day men, top and bottom, and 84 miners. Working 158 days, they produced 54,504 tons of coal. Alex. Sharp, mine foreman.

Mine No. 15 of the J. R. Crowe Coal Company is located at Croweburg, connected with the Frisco railway. This mine is well equipped with good top buildings, good machinery, shaker-screens, self-dumping cages with covers and safety-catches, and first-motion engine. The shaft, which is well timbered, is 8 x 16 feet and has a large bottom very poorly timbered; the most of it should be retimbered. This mine, like No. 14 of the same company, was developed without any thought of the future. The air-courses along the bottom are too small to carry a sufficient volume of air to ventilate the mine. It has an overcast that is very badly built. We ordered the boss to enlarge the air-courses, rebuild the overcast, hang frame doors and rebuild some of the stoppings. On our second visit we found this had been complied with, which made a great improvement in the ventilation. The mine is ventilated by an eighteen-foot fan, producing 32,200 cubic feet of air per minute. This fan is stopped while the shots are being fired. On one of our visits we found some very bad rock on the entry and instructed the mine foreman to attend to this, which he did. The roads are kept sprinkled and are in a good condition. This mine employs 18 day men, top and bottom, and 76 miners, who worked 162 days and produced 84,342 tons of coal. F. H. Smith, mine foreman.

Mine No. 16 of the J. R. Crowe Coal Company is located northwest of Croweburg, connected by a switch with the Frisco railway. This is a new mine. They have just completed building a new tippie, putting in shaker-screens and self-dumping cages. They have an



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escapement-shaft sunk 300 feet away from the main shaft. They will partition this escapement-shaft and use part of it for an air-shaft. They have not yet made connections, and the miners are all paid by the day for development work. This mine is developed as a one-sided mine—all of the coal will come in on the west side of the bottom. There are three entries driven west about 250 feet. The loaded cars will run from this point by a one-per-cent. grade to the bottom in the main entry, where the empties will be bumped off to the east side and will run around the run-around and into the back entries, and the grade will carry the empties west towards where the north and south entries are being driven off, 250 feet west of the bottom. There are three parallel entries going north and three going south. The coal is hauled out of the north entry. When they reach this road going east toward the bottom, which is brushed about ten feet wide, the driver will unhook and allow the cars to run to the bottom, and there he will find the empty cars which have come from the run-around; and this same thing can be done by the drivers from the south side. Under this plan of development they will never get blocked up, as the roads used to haul the empty cars in are entirely separate from the roads used to haul the cars out. This is an excellent plan for developing a mine, for if they have sufficient empty cars and a breakage should take place in the shaft or machinery they can continue to work below and would never get blocked up. It is a fine piece of work, and when the connections are made this mine will be in first-class condition. It gives promise of being one of the best mines in the north end of the district. It is a very dry mine. Oscart Huber, mine foreman.

Mine No. 1 of the Pittsburg Coal Company is located half a mile south of Englevale, connected with the Missouri Pacific railway. This shaft is 6 x 13 feet and 250 feet deep. This is the deepest mine in this part of the district. There is considerable gas in this mine. It is a very old mine and is not well timbered. They have another shaft sunk about 300 feet away. They have cages to be used in case of an accident in the main shaft. The men who examined this mine for gas did not use a safety-lamp and several of them got burned quite severely. This mine is ventilated by a fan which produces sufficient air for the number of men employed there. They have four currents of air. It is a dry mine and the roads are in good condition, being kept well sprinkled. I ordered them to get safety-lamps to be used in the morning when they went around to examine the mine. Shortly after my last visit the mine was closed down and has not since been opened up. This



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mine employs 13 day men, top and bottom, and 41 miners, who worked 134 days, producing 12,654.2 tons of coal. Hal Cain, mine foreman.

B. S. Chambers Coal Company, located two and one-half miles northwest of Mulberry, connected with the Frisco railway. This is a very old mine. It is a slope, and the coal is hoisted out by a steam-engine. It is ventilated by a very small fan. There has been a great deal of complaint from this slope about the poor air. This mine was worked on the low back-entry system, with curtains hung in the cross-cuts to carry the air to the face. This was the chief cause of the air-current being very weak at the working-face. Notice was served on them that they must discontinue using those break-throughs for roadways. The company then discontinued turning any more rooms in the back entries, which improved the condition of the air. This mine employs 10 day men, top and bottom, and 30 miners, who worked 190 days and produced 17,329 tons of coal. Jno. Haines, mine foreman.

Mine No. 1 of the Cockerill Coal Company is located one mile west of Pittsburg, on Twentieth street, connected with the Frisco railway. This mine is equipped with a good tippie, top buildings and machinery, shaker-screens, and self-dumping cages with covers and safety-catches. The shaft is  $7\frac{1}{2}$  x 14 feet and 70 feet deep. The air-courses are in fair condition. Ventilated by a fan. There are four currents of air. Ventilation is in good condition. The roadways are very wet and in bad condition, they having broken through on an old mine which had a great deal of water in it, the water coming in and practically covering all the roads in the mine. The company sunk a shaft to the largest body of this water, put in a pump, and continued pumping the water out, making every effort to get the water out and put the roads in better condition. This mine employs 17 day men, top and bottom, 2 boys and 70 miners, who worked 117 days and produced 32,279.65 tons of coal. H. G. Steward, mine foreman.

Mine No. 3 of the Malle Coal Company is located one mile northwest of Pittsburg. This is a new mine and has no railroad connection. The arrangements on top are for handling only a small output. The shaft is 7 x 12 feet and 38 feet deep. This mine is not much developed on the bottom. It had no air-shaft, and was ventilated by a small air-chamber on the side of the main shaft. After calling the company's attention to this, they sunk an air-shaft, and an escapement 300 feet from the air-shaft. The mine



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is ventilated by a furnace, and since the connections have been made with the new air-shaft the air has been improved. They began working this mine on the single-entry system. I called their attention to the law which requires them to drive two entries parallel, and they then began driving another entry. There are employed 4 day men, top and bottom, and 12 miners. Working 260 days they produced 11,869 tons of coal. Albert Malle, mine foreman.

Mine No. 4 of the Hamilton-Grant Coal Company is located west of Pittsburg. They have built a tramway from this shaft to a switch from the Missouri Pacific. They haul the coal in pit cars for a distance of about one-half mile and dump it into the railroad cars. This is a small mine and has no escapement-shaft. The mine is sunk close to the creek, and the company has agreed to sink an escapement shaft on the other side of the creek. The shaft is 6 x 12 feet and 30 feet deep. Ventilated by a furnace. Employs 12 miners, who produced 14,952 tons of coal. Francis Keegan, mine foreman.

Mine No. 1 of the La Belle Coal Company is located one mile west of Frontenac, connected with the A. T. & S. F. railway. This shaft is 7 x 11 feet and 40 feet deep. Ventilated by a fan, and the air in fair condition. The roads in this mine were very wet. The company promised to sink a large sump to drain the roads and endeavor to keep them dry. All of the coal on the south side of this mine is worked out and the mine closed for a short while. The company then secured some coal-land on the north side of the mine and began working in there developing it. They employ about 30 miners and 6 day men, who produced 10,106 tons of coal. Henry Wilson, mine foreman.

Mine No. 1 of the Calvin-Pucket Coal Company is located one and one-half miles north and one and one-half miles east of Pittsburg. This is a small gin-shaft, employing 5 miners. Ventilated by a furnace. Sell their coal to local trade. They produced 1,850 tons of coal.

Venson & Nichols Coal Company is located at Eighteenth street, Pittsburg. This is a small gin-shaft, which produced only 100 tons of coal.

Mine No. 6 of the Ben Abbott Coal Company is located one-half mile north of Coalvale. This is an old mine, and was known as Crowe's No. 6. Since the new company has taken hold of it they have built new top houses. During the suspension it took a very





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bad squeeze. The company has since rebrushed the air-courses and put the mine in good condition. This mine employs six day men, top and bottom, and 16 miners. Working 159 days they produced 6,007 tons of coal.

Mine No. 2 of the Black Diamond Coal Company is located one mile north of Pittsburg. This is a small gin-shaft, employing only a few men, supplying coal for the local trade.

Mine No. 3 of the R. Wilson Coal Company is located at Twenty-fifth and Grand, Pittsburg. This is a small gin-shaft, employing only a few miners, supplying coal for the local trade.

Mine No. 3 of the Pittsburg Coal and Coke Company is located six miles southwest of Pittsburg, connected with the Frisco railway. This mine gave employment to 38 miners, producing 20,541 tons of coal. This mine has since been abandoned, and a new mine has been sunk. The coal is hauled from the new mine to the old one over a tramway. At the present time there are but four miners employed, who have leased the mine, working out the pillars of coal which had been left.

Mine No. 4 of the Nevius Coal Company is located two miles southwest of Chicopee, connected with the Frisco railway. This mine gives employment to 7 top men, 10 underground day men and 62 miners, who worked 185 days and produced 56,091 tons of coal. It is ventilated by a fan which produces 12,000 cubic feet of air per minute. At my last visit all of the entries were stopped, and there were 35 miners employed taking out the pillars of coal. This mine will be abandoned in two or three months. The roads are dry and the mine is in good condition. Jas. Turner, mine foreman.

Mine No. 16 of the Cockerill Coal Company is located two miles southwest of Chicopee, connected with the Frisco railway. The roads in this mine are dry and in good condition. There are only two entries working on the east side—the second south and the second north. The coal is very faulty, and they are prospecting, and if they don't find better coal with those cross-entries there will only be a few rooms and pillars to work on the east side of the mine. There are only four entries going on the west side. Ventilated by a fan, which produces 19,710 cubic feet of air per minute. The general condition of the mine is good. They gave employment to 7 top men, 10 underground day men, and 72 miners, who worked 255 days and produced 29,222.4 tons of coal. Peter McQuade, mine foreman.

## STATISTICAL TABLES.

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COAL-MINING INDUSTRY IN CRAWFORD COUNTY FOR THE FISCAL YEAR ENDING JUNE 30, 1907.

Office No.	NAME OF OPERATOR.	Post-office address.	Number or name of mine.	Mine boss.	Location of mine.
1	Cherokee-Pittsburg Coal Co.	Frontenac	5.	Wm. Hart	1 mile northwest of Chicopee.
2	"	"	8.	Ed. Flynn	1 mile southwest of Chicopee.
3	"	"	6.	Philip Jones	½ mile west of Frontenac.
4	Central Coal and Coke Co.	Weir	9.	Jno. McGarvia	¾ mile northeast of Frontenac.
5	"	"	15.	Frank Thomas	3 miles north and 1 mile east of Weir.
6	"	"	17.	J. J. Hoye	1½ miles northwest of Nelson.
7	"	"	27.	Geo. Wickwire	¾ mile north and 1½ miles east of Weir.
8	"	Pittsburg	31.	Wm. Jones	1½ miles southeast of Nelson.
9	"	"	38.	F. A. Simmons	1 mile east and 2½ miles north of Nelson.
10	"	Weir	41.	G. B. White	1 mile west and 2 miles north of Weir.
11	Western Coal and Mining Co.	Fleming	7.	W. H. Caldwell	¾ mile southeast of Missouri Pacific depot.
12	"	"	10.	Dave Fulton	1 mile southwest of Missouri Pacific depot.
13	"	Yale	11.	Geo. Richardson	1½ miles southwest of Yale.
14	"	"	13.	Jas. Nuttman	1 mile northwest of Yale.
15	Pittsburg-Midway Coal Co.	Midway	6.	Wm. Morgan	Southwest of Midway.
16	"	"	7.	Robt. Cennan	Northwest of Midway.
17	Wear Coal Co.	Pittsburg	7.	Luther Hare	4 miles northeast of Pittsburg.
18	"	"	17.	A. Kirkwood	7 miles northwest of Pittsburg.
19	Sheridan Coal Co.	Fuller	2.	Sam Neill	¼ mile west of Fuller.
20	Dickinson Coal Co.	"	6.	J. Davidson	2 miles northwest of Fuller.
21	Sheridan Coal Co.	"	6.	J. Cann	2 miles north of Fuller.
22	C. C. Cockrell Coal Co.	Pittsburg	12½.	Chas. Lynch	2 miles south of Chicopee.
23	"	"	16.	M. Cavanaugh	6 miles south of Pittsburg.
24	Devlin-Miller	Frontenac	A.	Thos. Fox	3 miles north of Frontenac.
25	J. R. Crowe Coal Co.	Weir	11.	J. Johnson	2½ miles northwest of Weir.
26	"	"	12.	Jas. Keld	3 miles north of Weir.
27	Bolen-Darnall Coal Co.	Kansas City, Mo.	1.	Jas. McCluskey	½ mile east of Yale.
28	Chapman Coal Co.	Curranville	2.	Jno. O'Leary	1¼ miles south of Fuller.
29	Clemens & Son	Pittsburg	1.	Ryas Hornbuckle	1 mile north, ½ mile west Mo. Pac. depot.
30	"	"	3.	S. S. Boone	2 miles west of Pittsburg.
31	Bannister Bros. Coal Co.	"	2.	J. Monahan	2 miles north of Pittsburg.
32	Nervus Coal Co.	"	1.	V. Glades	2 miles west of Fourth and Broadway.
33	Southeast Kansas Coal Co.	"	4.	Jas. Turner	2 miles southwest of Chicopee.
34	La Belle Coal Co.	Frontenac	1.	H. Wilson	1 mile west of Frontenac.
35	B. S. Chambers Coal Co.	Mulberry	1.	W. A. Johnson	2½ miles northwest of Mulberry.
36	Hamilton-Grant Coal Co.	Weir	3.	Thos. Berry	2½ miles north of Weir.
37	Dickey-Mulholland Coal Co.	Mulberry	1.	Jno. Gressline	½ mile northwest of Mulberry.

38	Pittsburg Coal Co.①	Englevalle	1.	H. A. Hefton	¼ mile south of Englevalle.
39	R. Wilson Coal Co.	Pittsburg	3.	Geo. Wilson	Twenty-fifth and Grand avenue.
40	Malle Coal Co.	"	2.	A. Malle	2 miles west of Pittsburg.
41	Cockerill Coal Co.②	"	1.	H. G. Steward	1 mile northwest of Pittsburg.
42	J. R. Burnette	"	1.	Ed. Jones	¾ mile northeast of Frontenac.
43	McCormick Coal Co.	Fuller	1.	A. Gessline	2 miles southwest of Fuller.
44	Girard Coal Co.	Pittsburg	1.	Wm. Williams	4½ miles east of Girard.
45	Hamilton Coal Co.	Weir	5.	Robt. Eadie	¼ mile north of Cherokee.
46	Pittsburg Coal Mining Co.	Pittsburg	3.	T. Thebold	6 miles southwest of Pittsburg.
47	Black Diamond Coal Co.	"	2.	Wm. Walker	1 mile north of Pittsburg.
48	Joe Lafayette Coal Co.	"	1.	J. Lafayette	1 mile west of Pittsburg.
49	Joe Limb Coal Co.	Coalvale	1.	C. Lynn	¼ mile north of Coalvale.
50	Gross & Jenkins Coal Co.	Mulberry	4.	Jno. Jenkins	1¼ miles south of Coalvale.
51	McCormick Coal Co.	"	4.	W. L. Baker	1¼ miles southwest of Mulberry.
52	"	"	"	"	Gross.
53	C. C. Nichols	Pittsburg	"	"	"
54	Pittsburg-Midway	Midway	3.	Smith	Eighteenth street, Pittsburg.
55	Venson and Nichols	Pittsburg	"	"	West of Patterson.
56	W. W. Patterson	"	"	W. Patterson	"
57	Clemens & Son	"	105.	J. Cunningham	"

1. Two quarters.

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COAL-MINING INDUSTRY IN CRAWFORD COUNTY FOR THE FISCAL YEAR ENDING JUNE 30, 1907—Continued.

Office No.	Railroad connections.	Kind of opening.	Kind of power.	Tons of coal produced.				Average number of employees.					
				Lump.	Not and slack.	Mine run.	Total cut-put.	Miners.	Boys.	Under-ground day men.	Total under-ground.	Top men.	Grand total.
1	Santa Fe	Shaft	Steam			321,539.10	321,539.10	336	9	89	434	31	465
2	"	"	"			353,404.20	353,404.20	358	5	62	425	20	445
3	"	"	"			199,738.70	199,738.70	252	6	86	344	21	365
4	"	"	"			255,138.00	255,138.00	265	6	65	340	19	359
5	Frisco	"	"	84,524.00	54,081.00	615.00	139,220.00	183	40	181	20	201	
6	K. C. S., Mo. Pac., Frisco	"	"	23,937.00	32,728.00	5,137.00	61,802.00	75	5	17	97	12	109
7	Frisco	"	"	44,260.00	22,949.00	8,021.00	75,230.00	101	4	28	133	13	146
8	K. C. S.	"	"	56,527.00	66,895.00	16,296.00	139,706.00	145	3	38	181	14	195
9	"	"	"	22,696.00	25,250.00	35,938.00	83,844.00	95	4	15	114	10	124
10	Frisco	"	"	25,468.00	9,451.00	902.00	35,821.00	28	8	8	44	7	51
11	Mo. Pac.	"	"	40,284.95	31,985.25		72,270.20	92	2	16	110	8	118
12	"	"	"	44,409.10	56,935.85		101,344.95	129	1	12	142	6	148
13	"	"	"	126,135.40	53,463.70		179,599.10	167		19	212	7	219
14	Frisco	"	"	80,956.35	29,784.45	2,550.35	113,391.15	115	9	10	134	7	141
15	"	"	"	30,509.20	23,128.55	1,252.55	54,890.30	62		12	74	9	83
16	"	"	"	8,241.60	9,807.20	1,419.15	19,467.95	23		6	29	5	34
17	"	"	"	10,357.55	4,669.60	337.30	15,962.45	25		8	33	4	37
18	Santa Fe	"	"	35,338.90	40,915.15	565.00	76,864.05	101		17	118	11	129
19	K. C. S.	"	"	45,035.00	46,192.00	14,002.00	105,229.00	123		13	136	9	145
20	"	"	"	3,370.00	2,330.00	10,458.00	15,021.00	25		6	31	9	40
21	"	"	"	1,259.00	837.00	4,370.00	6,466.00	20		5	25	7	32
22	Frisco	"	"	30,318.45	18,844.70	3,512.15	52,675.30	67	2	15	84	8	92
23	"	"	"	20,413.60	10,944.35	456.05	31,914.00	161	2	10	73	18	81
24	Santa Fe	"	"	42,317.00	61,232.00	671.20	104,220.20	165		47	212	14	226
25	Frisco	"	"	39,598.00	32,264.00	2,153.00	74,015.00	79	1	15	95	8	103
26	"	"	"	36,951.00	28,897.00	1,072.00	66,920.00	74	1	12	87	8	95
27	Mo. Pac.	"	"	18,349.00	17,581.00	1,052.00	36,982.00	60		12	72	7	79
28	K. C. S.	"	"	42,429.00	52,987.00	45,591.00	140,957.00	186	4	27	217	16	233
29	Frisco	"	"	7,823.00	9,642.00	457.00	17,922.00	25		5	30	4	34
30	"	"	"	29,974.00	13,871.00	2,250.00	46,095.00	50	1	9	60	8	68
31	"	"	"			30,344.00	30,344.00	41		9	50	7	57
32	"	"	"			42,149.00	42,149.00	43		8	51	6	57
33	"	"	"			56,091.00	56,091.00	62		10	72	7	79
34	Santa Fe	"	"	2,359.72	3,003.28	4,743.00	10,106.00	10	1	3	14	3	17
35	Frisco	"	"	6,300.00	7,109.00	3,920.00	17,329.00	33		5	38	5	43
36	"	"	"			19,900.00	19,900.00	30		5	25	3	28
37	"	"	"	14,282.00	83.00	21,687.00	36,052.00	364		6	70	5	75

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38	Mo. Pac.	Shaft	Steam	3,133.50	5,105.30	4,415.40	12,654.20	41		7	48	6	54
39	None	"	Horse	2,581.00	1,504.00	1,862.00	5,947.00	10		3	13	1	14
40	"	"	Steam			1,536.00	1,536.00	4		2	6	1	7
41	Frisco	"	"	14,173.00	17,988.00	118.00	32,279.65	70	2	9	81	8	89
42	Mo. Pac.	"	"	2,339.00	3,625.00	1,291.00	7,308.00	20		3	23	6	29
43	K. C. S.	"	"	49,607.30	44,524.10	19,475.20	43,606.60	126		12	138	10	148
44	Santa Fe	"	"	15,780.00	21,609.65	675.00	38,365.10	62		9	71	6	77
45	Frisco	"	"	5,447.00	6,051.00	43,522.00	55,020.00	81		13	94	12	106
46	"	"	"	8,400.00	12,141.00		20,541.00	38		7	45	11	56
47	"	"	"			6,000.00	6,000.00	6	1	4	11	1	12
48	"	"	Horse			1,000.00	1,000.00						
49	"	"	Steam			3,443.00	6,003.00	16	4	4	20	2	22
50	Frisco	"	"	1,259.00	887.00	4,370.00	6,466.00	20	5	25	25	7	32
51	"	"	"			34,255.00	34,255.00	70		11	81	8	89
52	"	Strip pit	"			2,565.35	2,565.35						7
53	"	"	"			26,578.95	26,578.95						84
54	"	"	"			100.00	100.00						8
55	Frisco	"	"	18,678.00			18,678.00	8					8
56	"	"	"				5,476.00						
57	Totals			1,140,106.14	1,038,349.55	1,491,908.60	3,669,359.30	4,602	94	874	5,570	455	6,025

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COAL-MINING INDUSTRY IN CRAWFORD COUNTY FOR THE FISCAL YEAR ENDING JUNE 30, 1908.

Official No.	NAME OF OPERATOR.	Post-office address.	Number or name of mine.	Mine boss.	Location of mine.
1	Cherokee-Pittsburg Coal Co.	Frontenac	5	Wm. Hart	1/2 mile northwest of Cherokee.
2	"	"	6	P. Jones	1/2 mile west of Frontenac.
3	"	"	8	Ed. Flynn	1/2 mile southwest of Cherokee.
4	"	"	9	J. McGarvie	3/4 mile northeast of Frontenac.
5	"	"	11	F. Murphy	3/4 mile northwest of Frontenac.
6	Central Coal and Coke Co.	Weir	15	Frank Thomas	2 miles north and 1 1/4 miles east of Weir.
7	"	"	17	J. J. Haye	1 1/2 miles northwest of Nelson.
8	"	"	27	J. Wickwire	3 1/4 miles north, 1 1/4 miles east of Weir.
9	"	"	31	Wm. Jones	1 1/2 miles southeast of Nelson.
10	"	"	38	Frank Simmons	1/2 mile east, 2 1/2 miles north of Nelson.
11	"	"	41	D. B. White	1 mile west and 2 miles north of Weir.
12	Western Coal and Mining Co.	Fleming	7	Frank Gardner	1 1/2 mile southeast of Mo. Pac. depot.
13	"	"	10	D. Fulton	2 miles southwest of Mo. Pac. depot.
14	"	Yale	11	Jas. Saile	1 1/2 miles southwest of Yale.
15	"	Fleming	14	P. Razor	1 mile northwest of Fleming.
16	"	Yale	13	Wm. Steele	1 mile northwest of Yale.
17	"	St. Louis, Mo.	15	Jno. Money	Northeast of Franklin.
18	"	"	16	A. McAllister	7 miles north of Cornell.
19	Pittsburg-Midway Coal Co.	Midway	5	Wm. Morgan	Southwest of Midway.
20	"	"	7	R. Renman	Northwest of Midway.
21	Wear Coal Co.	Pittsburg	17	Gus. Limberg	7 miles northwest of Pittsburg.
22	"	"	19	T. L. Davis	7 1/2 miles northwest of Pittsburg.
23	"	"	20	Wm. Kirkwood	2 1/2 miles northwest of Pittsburg.
24	Sheridan Coal Co.	Fuller	2	W. Dornoby	1/4 mile west of Fuller.
25	"	"	3	J. Grassline	1 1/2 miles northwest of Fuller.
26	"	"	4	"	"
27	"	"	5	"	"
28	"	"	6	"	"
29	"	"	7	Jno. Cann	2 miles northwest of Fuller.
30	C. C. Cockerill Coal Co.	Pittsburg	3	Jno. Kane	8 miles north of Pittsburg.
31	"	"	16	C. Lynch	6 miles south of Pittsburg.
32	J. R. Crowe Coal Co.	Weir	11	Jas. Johnson	2 1/2 miles north of Weir.
33	"	"	12	Jas. Reed	2 1/2 miles north of Weir.
34	"	"	14	Alex. Sharp	Croweburg.
35	"	"	15	Oscar Hurburt	Croweburg.
36	Chapman Coal Co.	Curranville	4	Geo. T. Ryden	1 1/4 miles south of Fuller.
37	"	"	5	Geo. Fox	1 1/4 miles south of Fuller.
38	"	"	5	Jas. Ryden	1/2 mile south of Fuller.

Inspector of Coal-mines.

39	Clemens & Son	Pittsburg	1	R. Hornbuckle	1 1/2 mile north of Mo. Pac. depot.
40	"	"	3	S. S. Boone	2 miles west of Frisco depot.
41	"	"	4	Wm. Nesbitt	1/2 mile west of Mulberry.
42	Southeastern Kansas Coal and Mining Co.	"	4	Joe Glades	6 miles southwest of Pittsburg.
43	Nevius Coal Co.	Girard	6	Jas. Monahan	2 miles west of Pittsburg.
44	Nevius-Coulter Coal Co.	Frontenac	1	David Gabith	1/4 mile east of Radley.
45	La Belle Coal Co.	Mulberry	1	R. Wilson	1 mile north of Frontenac.
46	B. S. Chambers Coal Co.	Weir	1	Jno. Heine	2 1/2 miles northwest of Mulberry.
47	Hamilton-Grant Coal Co.	"	3	Thos. Berry	2 1/2 miles north of Weir.
48	"	"	3	Francis Keegan	1 1/2 miles west of Pittsburg.
49	Pittsburg Coal Co.	Englevale	1	H. A. Hifton	1/2 mile south of Englevale.
50	R. Wilson Coal Co.	Pittsburg	1	Geo. Wilson	Twenty-fifth and Grand, Pittsburg.
51	Malle Coal Co.	"	3	Albert Malle	1 mile northwest of Pittsburg.
52	Cockerill Coal Co.	"	1	H. B. Steward	1 mile west of Pittsburg.
53	J. R. Burnett Coal Co.	"	1	E. D. Jones	3 1/2 miles northeast of Frontenac.
54	McCormick Coal Co.	Fuller	1	Gerslin	1/4 mile west of Curranville.
55	Girard Coal Co.	Pittsburg	1	Jno. Steele	4 1/2 miles east of Girard.
56	Hamilton Coal Co.	Weir	6	R. H. Eadie	1/4 mile north of Cherokee.
57	McCormick Coal Co.	Mulberry	1	W. E. Baker	1 1/4 miles northwest of Mulberry.
58	C. Pucket Coal Co.	Pittsburg	4	C. Pucket	2 1/2 miles northeast of Pittsburg.
59	C. C. Nichols Coal Co.	"	1	Gross	Gross.
60	Pittsburg Midway Coal Co.	Midway	Strip pit.	Smith	Eighteenth street, Pittsburg.
61	Venson & Nickols	Pittsburg	Pit strip.	"	"

1. Developing.
2. Abandoned.
3. Three quarters.
4. In state of development, September to December, 1907.
5. Abandoned last quarter.
6. Two quarters.

Biennial Report.





COAL-MINING INDUSTRY IN CRAWFORD COUNTY FOR THE FISCAL YEAR ENDING JUNE 30, 1908—CONTINUED.

Office No.	Railroad connections.	Kind of opening.	Kind of power.	Tons of coal produced.				Average number of employees.						
				Lump.	Nut and slack.	Mine run.	Total output.	Miners.	Boys.	Underground day men.	Total underground.	Top men.	Grand total.	
1	Santa Fe	Shaft	Steam			251,286.60	251,286.60	251	5	63	319	96	355	
2	"	"	"			199,248.60	199,248.60	208	7	21	236	21	287	
3	"	"	"			265,838.10	265,838.10	257	4	61	312	19	321	
4	"	"	"			200,632.30	200,632.30	204	7	66	277	21	298	
5	"	"	"			140,899.10	140,899.10	147	8	41	196	21	217	
6	Frisco	"	"	47,168.00	50,826.00	691.00	98,685.00	140	5	43	188	20	208	
7	Mo. Pac., K. C. S., Frisco	"	"	16,768.00	29,240.00	467.00	46,475.00	93			18	121	13	134
8	Frisco	"	"	36,156.00	17,678.00	715.00	54,449.00	98	3	28	124	12	136	
9	K. C. S., Mo. Pac., Santa Fe	"	"	42,840.00	43,107.00	6,032.00	91,981.00	134	6	31	173	18	191	
10	K. C. S.	"	"	26,905.00	21,426.00	1,879.00	50,210.00	96	14	44	116	11	127	
11	Frisco	"	"	30,572.00	19,912.00	1,098.00	45,877.00	72	1	12	85	8	93	
12	Mo. Pac.	"	"	33,947.70	15,149.90		49,097.60	65		11	76	6	82	
13	"	"	"	43,081.55	53,872.65	240.80	97,194.00	108			120	17	127	
14	"	"	"	71,014.70	38,825.95	3,479.95	123,320.60	177	3	19	196	8	204	
15	"	"	"	68,954.15	42,966.45	12,180.95	114,101.95	112	1	10	123	6	129	
16	"	"	"	60,367.35	23,517.30	2,278.10	87,238.25	146	2	13	169	7	185	
17	"	"	"	11,462.75	5,630.05	1,811.70	18,804.50	61		9	70	22	92	
18	"	"	"	3,909.20	2,187.55	302.00	6,298.95	46			53	16	69	
19	Frisco	"	"	24,484.25	17,138.75	7,889.40	42,512.70	48		7	62	10	72	
20	"	"	"	14,470.25	36,435.50	991.70	51,887.55	37		10	47	6	53	
21	Santa Fe	"	"	12,324.90	26,585.80	12,901.80	54,011.05	112		30	132	9	141	
22	Santa Fe, Mo. Pac., Frisco	"	"	5,802.30	6,735.38	1,870.65	18,408.33	49		5	54	7	61	
23	Frisco	"	"	5,522.10	2,652.50		3,173.60	40			44	3	47	
24	K. C. S.	"	"	34,261.00	48,114.00	4,512.00	86,888.00	97	13	110	9	119	127	
25	"	"	"	34,458.00	17,896.00	2,520.00	54,874.00	90		10	100	8	108	
26	"	"	"	1,257.00	887.00	4,370.00	6,466.00	20		5	25	7	32	
27	"	"	"	25,245.00	35,057.00	2,313.00	62,615.00	85		10	95	7	102	
28	Mo. Pac.	"	"		7,364.50		7,364.50	23		3	26	3	29	
29	Frisco	"	"	32,258.00	10,909.00	29,222.40	72,222.40	72		10	82	7	89	
30	"	"	"	32,208.00	17,171.00		42,765.00	77		17	94	7	101	
31	"	"	"	40,876.00	13,628.00		69,739.00	85		14	99	6	105	
32	"	"	"	37,007.00	11,335.00		54,504.00	84		12	96	8	104	
33	"	"	"	5,000.00	2,500.00		84,342.00	76		10	86	8	94	
34	K. C. S.	"	"	13,540.00	23,355.00		7,500.00	60		6	46	7	53	
35	"	"	"				66,500.00	180		17	197	8	205	
36	"	"	"			450.00	450.00	56		8	64	9	73	

Inspector of Coal-mines.

39	Frisco	Shaft	Steam	7,248.00	9,713.00	434.00	17,395.00	25		4	29	3	32
40	"	"	"	36,684.00	12,914.00	419.00	50,224.00	57		13	70	14	84
41	"	"	"	20,909.00	8,498.00	1,709.00	31,216.00	46		7	53	9	62
42	"	"	"			41,139.00	41,139.00	39		10	49	6	55
43	"	"	"			49,471.00	49,471.00	57	1	12	70	7	77
44	Santa Fe	"	"	420.08	761.50		1,182.23	30		3	33	4	37
45	"	"	"			30,422.00	30,422.00	32	1	5	38	5	43
46	Frisco	"	"	6,065.06	3,774.00	5,079.50	14,919.10	37		6	43	5	48
47	"	"	"	4,383.00	5,800.00		11,588.00	18		7	25	3	28
48	"	"	"	4,952.00			4,952.00	12		4	16	2	18
49	Mo. Pac.	"	"	3,133.50	5,105.50	4,415.40	12,654.20	41		7	48	6	54
50	"	"	"	2,581.00	1,504.00	1,862.00	5,947.00	10		3	13	1	14
51	"	Horse.					11,869.00	12		3	15	2	17
52	Frisco	Steam		9,100.20	8,784.15	1,024.60	18,908.95	44	2	10	54	9	63
53	"	"	"	2,329.00	3,628.00	1,291.00	7,308.00	20		3	23	6	29
54	Mo. Pac.	"	"	42,407.56	51,133.15	13,153.75	106,170.61	128		13	141	19	151
55	K. C. S. and Mo. Pac.	"	"	12,778.30	19,548.21	8,142.80	32,669.24	76		10	86	6	92
56	Frisco	"	"	18,025.00	25,000.00		43,025.00	68		11	74	10	84
57	"	"	"			45,843.00	45,843.00	68		12	80	8	88
58	"	"	"			50.00	1,350.00	5					5
59	"	Horse.		600.00	700.00		6,377.95						
60	"	"	"				25,487.30	33					
61	Frisco	Strip pit		181.50	25,305.80		100.00						
62	Totals.			1,095,368.50	1,806,620.74	1,353,089.82	3,255,079.06	4,534	65	796	5,394	517	5,911

Biennial Report.



COAL-MINING INDUSTRY IN CRAWFORD COUNTY FOR THE FISCAL YEAR ENDING JUNE 30, 1908--CONCLUDED.

Office No.	Wages paid.			Number of kegs of powder used.	Gross earnings of miners.	Gross expense of miners.	Net earnings of miners.	Earnings per miner per year.	Expense per miner per year.	Net earnings per miner per year.	Earnings of day men under-ground.	Earnings of day men above-ground.	Net earnings per day man under-ground.	Net earnings per day man above-ground.	Number of days worked.	
	Miner price.	Underground day wages.	Top day wages.													
1	\$0.72	\$2.56	\$2.02 1/2	16,697	\$218,618.86	\$45,958.33	\$172,660.53	\$870.99	\$183.10	\$687.89	\$36,933.12	\$16,693.92	\$586.24	\$463.72	229	
2	72	2.56	2.02 1/2	14,350	173,346.20	38,662.43	134,683.77	833.40	185.88	647.51	12,418.56	9,823.88	591.36	467.78	231	
3	72	2.56	2.02 1/2	19,787	231,279.07	52,865.91	178,413.16	899.92	205.71	694.21	30,942.72	9,118.48	606.72	479.92	237	
4	72	2.56	2.02 1/2	16,929	174,550.06	45,889.61	128,660.45	855.64	215.15	640.49	40,212.48	10,066.96	609.28	480.76	232	
5	72	2.56	2.02 1/2	12,379	122,582.15	21,802.95	101,779.19	833.21	148.32	684.89	25,190.40	10,206.00	614.40	486.00	240	
6	72	2.75	2.40	6,875	85,768.95	18,679.25	67,089.70	612.67	133.42	479.22	6,315.50	6,624.00	379.50	331.20	138	
7	72	2.75	2.35	4,020	40,433.25	10,363.75	30,069.50	434.77	111.44	323.33	6,732.00	3,978.00	374.00	306.00	136	
8	72	2.70	2.40	3,360	47,370.63	9,593.45	37,777.18	509.96	105.46	406.21	10,320.80	3,981.20	368.60	327.60	136	
9	72	2.70	2.40	6,730	80,023.47	18,059.05	61,964.42	597.19	144.77	452.42	12,525.00	6,264.00	391.50	348.00	145	
10	72	2.75	2.52	2,287 1/2	45,682.70	9,038.50	34,644.00	455.03	94.15	360.88	4,389.00	3,159.08	313.50	287.28	114	
11	72	2.75	2.50	3,449	39,912.99	9,991.85	29,921.14	554.35	127.66	426.69	4,125.00	1,700.00	343.75	212.50	125	
12	72	2.56	2.02 1/2	3,785	42,714.85	10,024.88	32,689.96	667.15	154.23	502.92	6,673.92	2,879.52	606.72	479.92	137	
13	72	2.56	2.02 1/2	8,255	84,558.78	21,369.70	63,189.08	782.95	199.72	583.23	5,079.96	3,727.99	673.28	532.57	263	
14	72	2.56	2.02 1/2	8,688	107,288.85	23,542.03	85,746.82	806.16	133.01	673.15	9,728.00	3,240.00	512.00	405.00	290	
15	72	2.56	2.02 1/2	9,190	99,268.63	23,955.09	75,183.54	817.17	159.00	658.00	6,656.00	3,159.00	665.80	523.50	280	
16	72	2.56	2.02 1/2	6,499	75,897.27	17,359.91	58,537.36	519.85	118.90	400.95	6,456.32	2,749.95	496.64	392.85	194	
17	72	2.56	2.02 1/2	2,186	719	36,965.48	7,621.83	39,587.35	770.33	142.11	628.42	4,080.00	512.00	405.00	290	
18	72	2.56	2.02 1/2	1,730	45,141.72	6,054.37	39,087.35	1,220.04	163.63	1,056.41	5,222.40	2,478.60	522.24	413.10	204	
19	72	2.56	2.02 1/2	3,641	46,989.60	19,982.57	37,007.03	419.55	89.13	330.42	8,048.00	3,007.08	402.20	334.12	165	
20	72	2.56	2.02 1/2	820	11,665.18	2,310.41	9,354.77	238.06	47.15	190.91	3,046.40	3,365.42	609.28	480.76	238	
21	72	2.56	2.02 1/2	674	7,110.95	408.68	6,702.27	177.77	10.12	167.65	1,418.44	194.40	201.92	64.80	32	
22	72	2.56	2.02 1/2	7,899	60,332.56	20,142.40	40,190.16	521.57	207.65	413.92	7,787.52	4,294.65	599.04	473.85	234	
23	72	2.56	2.02 1/2	4,988	47,740.38	12,719.70	35,020.68	530.44	141.33	389.11	5,734.40	3,628.80	573.44	453.60	224	
24	72	2.56	2.02 1/2	588	5,625.42	1,499.30	4,126.12	281.27	74.96	206.31	1,216.00	1,346.59	243.20	192.37	95	
25	72	2.56	2.02 1/2	5,682	54,475.05	14,514.75	39,960.30	640.88	170.76	470.12	5,682.00	3,118.50	563.20	445.50	220	
26	72	2.56	2.02 1/2	1,670	6,407.11	3,708.22	2,698.89	278.57	161.22	117.35	1,566.72	1,242.00	322.24	244.00	120	
27	72	2.56	2.02 1/2	2,851	25,423.46	7,163.12	18,260.34	353.10	99.50	253.60	6,528.00	3,614.59	652.80	376.37	255	
28	72	2.56	2.02 1/2	2,193	37,205.55	6,524.25	30,681.30	483.19	84.73	398.46	9,139.20	2,976.75	537.60	425.25	210	
29	72	2.56	2.02 1/2	4,679	56,272.93	12,844.95	43,427.98	602.02	151.12	510.90	8,314.88	2,818.80	593.92	469.80	232	
30	72	2.56	2.02 1/2	2,867	47,418.48	10,459.20	36,959.28	564.50	134.51	429.99	4,853.76	2,559.60	404.48	319.95	158	
31	72	2.56	2.02 1/2	3,804	73,377.54	11,325.10	61,552.44	1,033.45	1,169.35	944.10	4,147.20	2,624.40	414.72	328.00	162	
32	72	2.56	2.02 1/2	750	6,525.00	1,875.00	4,650.00	185.85	46.87	138.98	2,457.60	2,548.00	409.60	324.00	160	
33	72	2.56	2.02 1/2	130	57,855.00	3,585.00	54,270.00	321.42	19.92	301.50	5,657.60	2,106.00	332.80	263.25	130	
34	72	2.56	2.02 1/2	275	1,004	15,133.65	2,861.75	12,271.90	605.34	144.47	460.87	1,792.00	1,063.11	448.00	354.37	175
35	72	2.56	2.02 1/2	3,652	43,695.88	9,815.20	33,880.68	766.57	172.19	594.38	6,689.28	5,688.28	514.56	407.02	201	
36	72	2.56	2.42	2,434	27,157.92	6,428.88	20,729.04	590.38	141.93	448.45	4,566.40	3,007.08	422.40	334.12	165	
37	72	2.56	2.02 1/2	3,870	35,790.93	9,796.95	25,993.98	917.71	251.20	666.51	4,940.80	2,442.36	494.08	467.06	193	
38	72	2.56	2.02 1/2	3,594	45,069.77	9,961.55	35,108.22	755.08	169.65	585.43	6,666.24	4,475.95	555.52	439.42	217	
39	72	2.56	2.02 1/2	1,758	26,487.16	5,037.14	21,450.00	827.20	157.41	669.79	2,867.20	2,288.00	379.44	453.60	224	
40	72	2.56	2.02 1/2	1,493	12,979.54	4,741.96	8,237.58	350.79	128.16	222.19	2,200.40	1,417.50	358.40	283.50	140	
41	72	2.56	2.02 1/2	853	10,168.56	2,290.40	7,878.16	564.92	127.26	137.66	3,763.20	1,275.75	337.60	425.25	210	
42	72	2.56	2.02 1/2	373	4,308.24	993.60	3,314.64	359.02	82.80	276.22	1,425.60	534.60	356.40	267.30	132	
43	72	2.56	2.02 1/2	722	11,009.16	2,216.71	8,792.45	268.51	54.07	214.44	2,401.28	1,628.10	343.04	271.35	134	
44	72	2.56	2.02 1/2	375	5,173.89	1,047.35	4,126.54	517.39	104.73	412.66	1,827.34	451.85	609.23	481.95	238	
45	72	2.56	2.02 1/2	400	10,326.03	1,393.45	8,932.58	860.50	116.12	744.38	1,998.80	1,053.00	665.60	526.50	260	
46	72	2.56	2.02 1/2	1,490	16,450.73	3,925.45	12,525.28	373.88	89.21	284.67	3,507.20	2,496.78	350.72	277.42	137	
47	72	2.56	2.02 1/2	883	6,357.95	1,731.40	5,626.55	317.59	86.57	231.02	860.16	1,360.20	286.72	226.80	112	
48	72	2.56	2.02 1/2	9,236	92,368.42	23,980.53	68,387.89	721.63	187.35	534.28	7,221.76	4,394.20	555.52	439.42	217	
49	72	2.56	2.02 1/2	2,629 1/2	28,422.23	20,142.40	40,250.60	621.57	307.15	413.92	7,787.52	4,284.65	599.04	473.85	234	
50	72	2.25	2.02 1/2	2,500	37,431.75	7,151.25	30,280.50	594.15	113.51	480.64	6,959.92	5,001.70	632.32	500.17	247	
51	72	2.56	2.02 1/2	3,719	39,383.41	9,790.15	30,153.26	581.65	143.09	438.65	7,956.48	4,197.36	663.04	524.67	259	
52	72	2.56	2.02 1/2	247	1,144.50	767.00	377.50	223.90	75.50	158.40	.....	.....	.....	.....	900	
53	72	2.56	2.02 1/2	1,596	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	190	
54	72	2.56	2.02 1/2	238,383	\$2,831,918.78	\$639,519.95	\$2,192,398.83	\$624.59	\$141.04	\$483.55	\$361,554.28	\$190,337.93	.....	.....	.....	

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Inspector of Coal-mines.

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COAL-MINING INDUSTRY IN CHEROKEE COUNTY FOR THE FISCAL YEAR ENDING JUNE 30, 1907.

Office No.	NAME OF OPERATOR.	Post-office address.	Number or name of mine.	Mine boss.	Location of mine.
1	Central Coal and Coke Co., ①	Weir	7	Jno. Young	1 mile north of Scammon.
2	" "	"	16	J. G. White	1 1/4 miles west of Scammon.
3	" "	"	18	Thos. Scott	1 1/4 miles west of Weir.
4	" "	"	39	Joe. Lavery	1 1/4 miles west and 1 1/4 miles north of Weir.
5	M. K. & T. Coal Department	Parsons	6	Francis Ryan	3/4 mile east of West Mineral.
6	" "	"	7	Ed. Ryan	1 1/2 miles east of West Mineral.
7	" "	"	8	W. F. Maylen	1/2 mile southeast of West Mineral.
8	" "	"	11	Mike Wagner	1/2 mile north of West Mineral.
9	" "	"	15	Jas. Price	1/2 mile east, 1/2 mile north West Mineral.
10	Hamilton Coal Co.	Weir	5	Jno. McGill	1/2 mile northwest of Weir.
11	" "	"	2	Jno. Fulton	1 mile south of East Mineral.
12	Fleming Coal Co.	Skidmore	4	Jas. Booth	1 1/4 miles west of Turck.
13	" "	"	5	Aug. Mason	1 mile northwest of Turck.
14	" "	"	6	J. Bullock	3/4 mile northwest of Turck.
15	Cherokee Crescent Coal Co.	West Mineral	1	Dan. Ryan	Stone City.
16	Fidelity Coal and Mining Co.	Stone City	1	Jno. Dorman	"
17	Columbus Coal Co.	Columbus	3	D. R. Casleman	3/4 mile southwest of Turck.
18	Southern Coal Co.	Scammon	5	J. P. Kane	1/2 mile south of Scammon.
19	J. H. Bennett Coal Co.	Weir	1	Jas. Hope	1 1/4 miles northwest of Weir.
20	Cherokee Coal Mining Co.	Cherokee	1	M. Carn	1/2 mile south of Cherokee.
21	J. R. Crowe Coal Co.	Weir	3	Harry Smith	2 miles west of Weir.
22	" "	"	7	Jno. Mallams	3 miles northwest of Weir.
23	" "	"	10	Otta Howell	1 1/4 miles south of Scammon.
24	Mackie Fuel Co.	Scammon	9	Jno. Morton	1 1/4 miles northwest of Scammon.
25	Western Coal and Mining Co.	Pittsburg	12	Francis Keegan	1 mile west of Carona.
26	Norton Coal Co.	Scammon	3	A. Brakwood	3/4 mile west of Scammon.
27	" "	Weir	7	Tom Graham	3 miles southwest of Cherokee.
28	Jno. Mayer Coal Co.	Mineral	1	Jno. Humble	1 1/4 miles southeast of Mineral.
29	Weir Junction Coal Co.	Cherokee	2	Chas. Barnard	2 miles south of Cherokee.
30	Nervius Coal Co.	Pittsburg	3	Jno. Glades	Stippville.
31	Pullen & Son Coal Co.	Scammon	2	Chas. Pullen	1/2 mile north of Scammon.
32	Jno. Robertson Coal Co.	Weir	2	Oscar Manley	1 mile south of Weir.
33	Sherman Coal Co.	Joplin	1	Jno. Citron	Roseland.
34	Scammon Fuel Co.	Scammon	1	Jno. Barr	3/4 mile northwest of West Mineral.
35	Earl & McGregor	Columbus	1	Earl & McGregor	3 miles north of Columbus.
36	Joe Humble Coal Co.	Scammon	4	Joe. Humble	3 miles west of Weir.
37	Larson Bros., Coal Co.	Weir	"	Alf. Larson	2 1/4 miles southwest of Weir.

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38	Sunflower Coal Co.	Scammon	Sunflower	Geo. Walker	1 1/2 miles north of Scammon.
39	Thompson Coal Co.	Weir	1	D. Thompson	1 mile south of Weir.
40	Kansas Fuel Co., ②	Kansas City, Mo.	5	Mike Walsh	1 1/2 miles southwest of Scammon.
41	Doss Bros. Coal Co.	Columbus	"	Sid Doss	2 1/2 miles north, 1 mile east of Hollowell.
42	Sanders & Mummers	Weir	"	C. L. Mummers	Scammon.
43	Curtis Coal Co.	Scammon	1	Frank Curtis	1 mile south of Scammon.
44	Diamond Coal Co.	"	1	M. E. Bothers	3 miles south of Scammon.
45	H. Jenkins Coal Co.	Weir	Strip pit	Chas. Crowder	1/2 mile south of Weir.
46	Jas. Stone Coal Co.	Scammon	"	"	1 mile south of Scammon.
47	J. F. Hughes Coal Co.	"	"	M. J. McCormick	2 miles southeast of Scammon.
48	D. O. Handsinger	West Mineral	"	"	2 miles west of Mineral.

1. Abandoned May 15, 1907.
2. Idle from March to June.
3. Idle from June to August.

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COAL-MINING INDUSTRY IN CHEROKEE COUNTY FOR THE FISCAL YEAR ENDING JUNE 30, 1907--CONTINUED.

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Office No.	Railroad connections.	Kind of opening.	Kind of power.	Tons of coal produced.				Average number of employees.					
				Lamp.	Net and black.	Mine run.	Total out-put.	Miners.	Boys.	Under-ground day men.	Total under-ground.	Top men.	Grand total.
1	Frisco	Shaft	Steam	18,360.00	4,406.00	304.00	23,070.00	25	9	34	7	41	
2	"	"	"	65,637.00	30,045.00	3,974.00	99,656.00	115	3	28	146	17	163
3	"	"	"	27,609.00	25,897.00	2,312.00	55,808.00	43	4	15	82	10	92
4	"	"	"	18,317.00	7,614.00	2,017.00	27,948.00	32	2	7	41	7	48
5	M. K. & T.	"	"	62,056.95	47,623.95	1,446.95	111,127.85	127	19	146	11	157	
6	"	"	"	32,069.55	22,614.70		54,684.25	58	15	73	9	82	
7	"	"	"	56,206.20	42,451.60		98,657.80	155	23	178	14	192	
8	"	"	"	96,312.40	79,794.00	3,214.80	181,321.20	191	20	211	11	222	
9	"	"	"	24,872.25	11,871.60	3,695.80	40,539.65	65	8	73	9	82	
10	Frisco	"	"	15,259.00	18,649.00		33,908.00	46	10	56	10	66	
11	M. K. & T.	"	"	25,026.00	30,192.00	56,695.00	111,913.00	153	20	170	14	184	
12	"	"	"	48,128.90	18,943.30	8,409.86	66,498.40	80	10	90	8	98	
13	"	"	"	27,983.85	18,943.30		53,336.90	65	10	75	6	81	
14	Frisco	"	"	2,950.60	2,833.40	13,933.90	19,717.19	21	4	25	4	29	
15	M. K. & T.	"	"	64,130.67	62,179.25	2,239.90	128,549.82	142	14	156	9	165	
16	"	"	"	30,504.90	41,356.30		71,861.20	71	2	96	11	107	
17	Frisco	"	"	23,528.00	14,373.00	4,590.00	42,491.00	58	13	71	7	78	
18	"	"	"	51,006.51	20,231.05	46,309.75	118,178.90	115	5	137	12	149	
19	"	"	"	15,486.00	14,390.00	3,107.00	32,983.00	63	8	61	7	68	
20	"	"	"	6,415.22	7,449.95	594.26	14,459.43	25	6	31	5	36	
21	"	"	"	27,770.00	22,319.00	619.00	50,708.00	65	15	70	7	77	
22	"	"	"	13,501.00	11,687.00	1,821.00	26,509.00	45	9	54	7	61	
23	"	"	"	36,724.00	28,197.00	821.00	65,742.00	70	13	83	9	92	
24	Mo. Pac.	"	"	46,849.00			46,849.00	48	8	56	5	61	
25	"	"	"	110,495.00	39,252.90		149,748.35	158	3	14	175	17	182
26	Frisco	"	"	64,770.45	38,284.90	7,493.70	105,558.60	139	3	26	165	11	176
27	Mo. Pac.	"	"	9,191.50	10,101.60	7,225.00	26,518.10	44	6	56	7	57	
28	M. K. & T.	"	"	110,700.00			110,700.00	162	3	22	187	10	197
29	Frisco	"	"	9,409.00	11,886.00	2,699.00	23,994.00	34	7	41	6	47	
30	"	"	"		45,784.00		45,784.00	38	8	46	6	52	
31	"	"	"		7,668.35		7,668.35	9	2	11	1	12	
32	Mo. Pac.	"	"		15,150.00		15,150.00	24	5	29	4	33	
33	"	"	"		18,896.00		18,896.00	25	5	30	4	34	
34	M. K. & T.	"	"		33,644.00		33,644.00	70	9	79	8	87	
35	None	"	"		3,610.00		3,610.00	3	1	4		4	
36	Frisco	"	"		1,410.75		1,410.75	71	6	77	4	81	
37	Slope	"	"	6,022.75	9,157.25	12,000.00	12,000.00	20	5	25	6	31	

Inspector of Coal-mines.

38	Frisco	Shaft	Horse			16,000.00	16,000.00	16	4	20	2	22	
39	"	"	"			12,244.00	12,244.00	1	2	3		3	
40	Frisco	Slope	Horse	21,793.00	7,267.00	6,293.00	35,353.00	53	9	62	9	71	
41	"	"	"			140.00	140.00						
42	"	"	"			600.00	600.00	4				6	
43	Frisco	Slope	Steam	2,400.00			1,302.00	4	1	5	1	6	
44	"	Shaft	Horse				6,220.00						
45	"	Strip pit	"				10,025.00	15					
46	"	"	"				6,000.00						
47	"	"	"				75.00	1					
48	Totals			1,174,420.70	695,753.15	346,410.01	2,339,889.74	2,864	31	506	3,401	303	3,714

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*Inspector of Coal-mines.*

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COAL-MINING INDUSTRY IN CHEROKEE COUNTY FOR THE FISCAL YEAR ENDING JUNE 30, 1908.

Office No.	NAME OF OPERATOR.	Post-office address.	Number or name of mine.	Mine boss.	Location of mine.
1	Central Coal and Coke Co.	Weir	16	Jno. White	1 1/4 miles west of Scammon.
2	"	"	18	Thos. Scott	2 miles west and 1/2 mile north of Weir.
3	"	"	39	Jas. Lavery	2 miles west and 1 1/4 miles north of Weir.
4	"	"	42	C. Spensburg	1 1/4 miles west, 1 1/2 miles south of Scammon.
5	"	"	43	Jno. L. Dunn	1 mile west, 2 miles south of Scammon.
6	"	"	44	Jno. Young	2 miles south of Cherokee.
7	M. K. & T. Coal Department	Parsons	6	Jno. Ryan	3/4 mile east of West Mineral.
8	"	"	7	Francis Ryan	1 1/2 miles east of West Mineral.
9	"	"	8	W. F. Maylen	1/2 mile southeast of West Mineral.
10	"	"	11	Dan Ryan	1/2 mile northwest of Mineral.
11	"	"	15	Mike Wagner	1/2 mile east, 3/4 mile north of W. Mineral.
12	"	"	16	Francis Ryan	1 mile south, 1/2 mile east of W. Mineral.
13	Hamilton Coal and Mercantile Co.	Weir	2	Jno. McGill	1/2 mile northwest of Weir.
14	"	"	5	Jno. Fulton	1 mile southeast of Mineral.
15	Fleming Coal Co.	Skidmore and Kansas City, Mo.	4	James Booth	1 1/4 miles west of Turck.
16	"	"	5	Aug. Maison	1 mile west of Turck.
17	"	"	6	J. W. Bullock	3/4 mile northwest of Turck.
18	Cherokee Crescent Coal Co.	West Mineral	1	Dan Ryan	Stone City.
19	"	Roseland	2	Thos. Richardson	1 1/4 miles northeast of Carona.
20	Fidelity Coal and Mining Co.	Stone City	1	Jno. Dorman	3 miles north of Mineral.
21	"	"	8	Sam McCann	2 miles north of Mineral.
22	Columbus Coal Co.	Columbus	3	D. P. Casselman	3 miles southwest of Scammon.
23	Weir Junction Coal Co.	Cherokee	2	Chas. Barnard	3 miles southeast of Cherokee.
24	J. H. Bennett Coal Co.	Weir	1	E. Shaw	1 1/2 miles northwest of Weir.
25	Cherokee Coal and Mining Co.	Cherokee	1	Jno. Lynch	1/2 mile south of Cherokee.
26	"	"	2	"	"
27	J. R. Crowe Coal Co.	Weir	3	F. H. Smith	1 miles west of Weir.
28	"	"	7	Jno. Mallams	2 miles northwest of Weir.
29	"	"	10	Fred Green	2 miles south of Scammon.
30	"	"	9A	Jno. Morton	1 1/4 miles northwest of Scammon.
31	Mackie Fuel Co.	Scammon	12	Francis Keegan	1 mile west of Carona.
32	Western Coal and Mining Co.	Pittsburg	"	Andy Braidwood	1 1/4 miles west of Scammon.
33	Norton Coal Co.	Scammon	"	Thos. Graham	3 miles southwest of Cherokee.
34	"	"	"	Jno. Humble	1 1/4 miles southeast of Mineral.
35	Jno. Mayer Coal Co.	Weir	7	"	2 miles south of Cherokee.
36	Mayer Coal Co.	Kansas City, Mo.	1	Chas. Pullen	1/2 mile north of Scammon.
37	Pullen Coal Co.	Scammon	2	O. Manley	1 mile south of Weir.
38	John Robertsen Coal Co.	Weir	2	"	"
39	"	"	"	"	"
40	"	"	"	"	"
41	Sherman Coal Co.	Joplin, Mo.	Elkhorn	Jno. Citron	Roseland.
42	Scammon Fuel Co.	Scammon	1	Jno. Barr	1 1/4 miles northwest of West Mineral.
43	Earl & McGregor	Columbus	1	Earl & McGregor	3 miles north of Columbus.
44	Joe Humble Coal Co.	Scammon	4	Jos. Humble, jr.	2 miles north of Scammon.
45	Larson Bros. Coal Co.	Weir	"	Alf. Larson	2 1/4 miles southwest of Weir.
46	Sunflower Coal Co.	Scammon	"	Geo. Walker	1/2 mile north of Scammon.
47	Thompson Coal Co.	Weir	1	Dan Thompson	1 mile south of Weir.
48	Kansas Fuel Co.	Scammon	5	Mike Walsh	2 miles south of Scammon.
49	Miller & Fitzgibbons	"	5	Dan. Miller	1/4 mile north of Scammon.
50	John Coal Co.	Roseland	1	David John	1 1/2 miles south of East Mineral.
51	Vanducken Coal Co.	"	1	Frank Vanducken	"
52	Doss Bros. Coal Co.	Columbus	"	Sid Doss	2 1/4 miles northeast of Hallowell.
53	H. Jenkins	Weir	Strip pit	Chas. Crowder	1/2 miles south of Weir.
54	Jas. Stone, sr.	Scammon	"	"	"
55	J. F. Hughes Coal Co.	"	Strip pit	J. W. McCormick	2 miles southeast of Scammon.

1. Developing.
2. Worked out.
3. Abandoned in August, 1907.
4. Two quarters.
5. Abandoned in October, 1907.
6. Three quarters.

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Inspector of Coal-mines.

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COAL-MINING INDUSTRY IN CHEROKEE COUNTY FOR THE FISCAL YEAR ENDING JUNE 30, 1908—CONTINUED.

Office No.	Railroad connections.	Kind of opening.	Kind of power.	Tons of coal produced.				Average number of employees.					
				Lump.	Not and slack.	Mine run.	Total output.	Miners.	Boys.	Underground men.	Total underground.	Top men.	Grand total.
1	Frisco	Shaft	Steam	41,899.00	23,158.00	615.00	72,672.00	113	3	29	145	14	159
2	"	"	"	15,526.00	15,257.00		26,783.00	48	1	19	68	8	76
3	"	"	"	8,141.00	3,061.00		11,222.00	25		6	32	6	38
4	"	"	"	6,130.00	10,950.00	1,088.00	14,138.00	48		12	60	9	69
5	"	"	"	14,638.00	10,949.00	759.00	26,391.00	107	2	22	131	10	141
6	"	"	"	2,992.00	1,047.00	1,525.00	5,564.00	47		13	60	10	70
7	M. K. & T.	"	"	50,387.00	18,321.40	2,132.45	71,840.85	98		17	115	13	128
8	"	"	"	1,757.70	740.90		2,498.60	30		11	41	12	53
9	"	"	"	54,144.30	17,420.00		71,564.30	103		27	130	14	144
10	"	"	"	69,796.65	22,692.25	21,431.25	113,920.45	155		24	179	17	196
11	"	"	"	44,535.20	19,181.00		63,716.20	90		15	105	13	118
12	"	"	"	27,094.08	11,355.80	10,478.25	48,928.63	85		13	98	13	111
13	Frisco	"	"	9,776.00	12,803.00		22,579.00	36		8	44	9	53
14	M. K. & T.	"	"	12,121.00	17,739.00	64,051.00	93,942.00	168		14	132	12	144
15	"	"	"	47,439.65	15,677.00	1,227.35	64,344.00	82		10	92	7	99
16	Frisco	"	"	30,008.50	17,396.45	10,647.70	58,052.65	71		10	81	6	87
17	"	"	"	1,935.00	2,106.85	2,468.15	6,510.00	12		3	15	3	18
18	M. K. & T.	"	"	96,545.40	43,331.40	6,378.96	96,355.76	142		17	169	9	178
19	Mo. Pac.	"	"	9,883.10	13,346.95	2,516.25	25,746.30	41		7	48	5	53
20	M. K. & T.	"	"	26,103.03	36,827.11	8,599.86	70,527.00	88		24	112	12	124
21	"	"	"	4,087.00			4,087.00	38		9	47	7	54
22	Frisco	"	"				30,742.00	50		9	59	9	68
23	Mo. Pac.	"	"	9,181.50	11,886.00	2,689.00	23,944.00	34		7	41	6	47
24	Frisco	"	"	34,828.00			34,828.00	61		9	70	7	77
25	"	"	"	3,926.00	7,220.00	220.00	11,396.00	25		7	32	5	37
26	"	"	"				1,612.00			13	79	7	86
27	"	"	"	38,147.00	10,711.00		48,858.00	66		13	79	7	86
28	"	"	"	8,129.00	3,483.00		11,612.00	42		6	48	6	54
29	"	"	"	7,360.00	3,562.00		10,942.00	32		5	37	6	43
30	Mo. Pac.	"	"			6,006.00	6,006.00	48		8	56	6	62
31	Frisco	"	"				149,745.35	158		8	14	175	183
32	"	"	"	74,841.55	45,011.70	8,309.35	128,211.70	178		4	35	217	230
33	Mo. Pac.	"	"	18,999.95	23,765.44	3,387.61	46,153.00	67		1	12	80	88
34	Frisco	"	"				98,244.00	160		21	181	9	190
35	M. K. & T.	"	"				27,000.00	39		8	47	3	50
36	Frisco	"	"				2,340.00	6		1	7	1	8
37	"	"	"				10,124.00	10		6	38	45	43
38	"	"	"										
39	"	"	"										
40	"	"	"										
41	Mo. Pac.	Shaft	Steam			18,906.00	18,906.00	25		5	30	4	39
42	M. K. & T.	"	"			55,159.00	55,159.00	85		10	96	9	105
43	None	"	Horse			1,177.00	1,177.00	4		1	5		
44	Frisco	"	Steam	11,124.00		8,793.00	20,645.00	31		7	38	5	44
45	"	"	"			9,000.00	9,000.00	20		5	25	6	31
46	"	"	Horse			10,000.00	10,000.00	20		4	24	1	25
47	None	"	"			4,000.00	4,000.00	6		1	4		7
48	"	"	Steam	30,337.50	31,202.00	29.90	50,972.30	78		13	91	8	99
49	"	"	"			5,700.00	5,700.00	28		6	34	7	41
50	"	"	"	1,200.00	1,800.00		3,000.00	15		1	4	20	25
51	None	"	"			500.00	500.00	3					
52	"	"	"				140.00	3					
53	Frisco	Slope	Horse				5,225.00						
54	None	Strip pit	"				10,280.00	15					
55	Frisco	"	"				6,000.00	10					
Totals				911,453.56	479,892.20	421,925.77	1,810,271.53	2,948	17	529	3,494	351	385