

## TENTH INSPECTION DISTRICT—1909.

## FOURTH ANNUAL REPORT.

Counties—Williamsen, Jackson, Johnson.

THOMAS LITTLE, *Inspector*, Murphysboro.

Hon. David Ross, *Secretary State Bureau of Labor Statistics, Springfield:*

SIR—In compliance with the statute of the State defining the duties of the State inspector of coal mines, I herewith submit the fourth annual report of coal mines in the tenth inspection district, for the year ending June 30, 1909.

A tabular statement is herewith given of the statistics in each county, showing the number of mines operated during the year, both shipping and local; the new and abandoned mines; the depth of coal below the surface, with the geological number and thickness of various seams; the number of miners and other employes working in the mines and on the surface; the total tonnage of all grades of coal; the average value of coal at the mines, and the aggregate value of the total product in the district, with the casualties in and around the mines, both fatal and non-fatal. Since my last report two counties, Gallatin and Saline have been taken from my district and added to the ninth district.

The following summary is given as a recapitulation of the principal facts found in the schedule of the various counties:

Number of counties in which coal is produced.....	3
Total number of mines.....	80
Number of new mines, shipping.....	2
Number of mines abandoned, shipping.....	3
Number of local mines.....	54
Total tonnage of shipping mines.....	6,500,643
Total tonnage of local mines.....	52,949
Tons loaded on cars for shipment.....	6,049,938
Tons supplied to locomotives.....	69,431
Tons sold to local trade.....	105,996
Tons consumed and wasted at mines.....	328,227
Aggregate value of the total product.....	\$6,185,124
Number of miners in all the mines.....	5,108
Number of other employes and boys under ground.....	1,829
Number of employes above ground.....	937
Total number of mine machines in use.....	192
Total tons cut by machines.....	1,837,619
Total tons produced by hand in all the mines.....	4,715,973
Number of fatal accidents.....	28
Number of non-fatal accidents.....	68
Number of wives made widows.....	16
Number of children made fatherless.....	36
Number of tons produced for each fatal accident.....	234,056
Number of tons produced for each non-fatal accident.....	96,377
Number of persons employed to each fatal accident.....	281
Number of persons employed to each non-fatal accident.....	115

The following shows the coal report by counties, with increase and decrease in each for the year ending June 30, 1908 and June 30, 1909:

COUNTIES.	TOTAL OUTPUT OF ALL GRADES OF COAL, IN TONS.		Increase.	Decrease.
	1908	1909		
Williamson.....	5,367,140	5,901,815	534,675	.....
Jackson.....	637,000	650,033	19,147	.....
Johnson.....	2,896	1,744	.....	1,152
Totals.....	6,007,126	6,553,592	.....	1,152
Net increase.....	.....	.....	553,822	.....

## NEW MINES.

The Pond Creek Coal Company has sunk a new shaft four miles northeast of Herrin. It is located on the C. B. & Q. Railroad. They struck coal August 5, 1908, at a depth of 240 feet. It is the No. 7 seam and is 9½ feet thick. The shaft is 9½ by 16½ feet and is timbered with 4 by 8 inch white oak. A pair of first motion engines 18 by 36 inches were installed which are the Litchfield make; the drum is 6 feet in diameter with a 1¼ inch cable; two boilers 6 by 16 feet with 72 flues, 4 inch; one feed pump with a 2 inch suction and 1½ inch discharge; it is a Blakesley pump. The engine room is 22 by 27 feet and the boiler room is 36 by 46 feet, and are frame buildings, covered with galvanized iron. The head frame is 67 feet high and is built with 4 by 12 yellow pine bolted together with 4 inch blocks. The shaking screen and the self dumping cages were built by the Illinois Machine Company, at Carterville, Ill. They have one pair of track scales of standard make. There are four tracks under the screens so that they can make four grades of coal. On the bottom of the shaft they have a No. 5 Cameron pump with a 4 inch suction and 3 inch discharge. They are opening the bottom out with air machines, as they have two Sullivan punchers. The air shaft is not completed yet, but is down 160 feet; they are having to stop sinking on account of too much water. They are putting a drill hole down into an entry so that they can get rid of the water. This is an up-to-date shaft; it is intended to have a 2,000 ton a day capacity.

The W. P. Rend Coal and Coke Company has put a new mine down at Rendsville, three miles north of Herrin, Ill. They struck a ten foot vein of coal on the 15th day of July, 1908, at a depth of 205 feet. The shaft is 9 feet 6 inches by 18 feet and is timbered with 4 by 10 yellow pine. A steel tippie was put up by the Jeffery Manufacturing Co. The sheave wheel is 76 feet from the top of the shaft. Shaker screen put in by the Jeffery Manufacturing Company. It is made to load over four tracks and give four grades of coal. The re-screening plant at the south end of the hoisting shaft, put up by the Jeffery Manufacturing Company contains a revolving screen 6 by 25 feet. The power plant contains three Erie City Iron Works boilers 6 by 18 feet, with seventy 4 inch flues, rated at 150 H. P. each; one Union Iron Works boiler 6 by 18 feet, seventy 4 inch flues, 150 H. P., fed by James G. Pulling pump, suction 3 inch; feed line 3 inch; cross 2 inch, and one 100 k. w. generator, connected by belt to Erie high speed engine 16 by 20 inches. One 150 k. w. Westinghouse generator, connected to Skinner high speed engine. Ventilating plant contains a 12 foot Stevens fan, connected direct to a 14 by 16 inch Ideal high speed engine. The fan rests 38 feet from air compartment, being connected to same by concrete and brick and steel fan drift; concrete roof, heavy iron reverse doors, heavy steel waste chimney. Top of air compartment has double air tight explosion doors.