

Number of tons produced for each fatal accident.....	279,112
Number of tons produced for each non-fatal accident.....	279,112
Number of persons employed to each fatal accident.....	362
Ratio of fatal accidents to 1,000 persons employed.....	2.8
Number of kegs of powder used for blasting coal.....	165,348
Number of kegs of powder used for other purposes.....	1,907
Number of pounds of dynamite for blasting.....	4,246

The following gives the total tons produced in each county for the years 1906 and 1907, with the increase and decrease:

COUNTIES.	TOTAL PRODUCTS—ALL GRADES OF COAL.			
	1906	1907	Increase.	Decrease.
Clinton.....	770,689	1,061,410	290,721	.....
Franklin.....	387,230	863,165	475,935	.....
Jefferson.....	20,292	10,060	.....	10,232
Marion.....	826,280	1,084,783	258,503	.....
Perry.....	1,453,766	1,743,922	290,156	.....
Randolph.....	572,001	742,894	170,893	.....
Washington.....	95,796	68,768	.....	27,028
White.....	6,585	7,243	658	.....
Totals.....	4,132,639	5,582,245	1,486,866	37,260
Net increase.....	.....	.....	1,449,606	.....

NEW MINES.

The Norris City Coal Company, located at Norris City, White county, completed the sinking of its air shaft February 16, 1907. This shaft is 640 feet deep and is 7 by 10 feet, with four feet taken off for a stairway, leaving air chamber 7 by 6 feet.

The Big Muddy and Carterville Coal Company of Carterville has opened a mine on the Iron Mountain Railway at Royalton, two miles west of Zeigler. The main shaft is 10 by 16 feet in the clear. The air shaft has an air chamber 5 by 8 feet in the clear, with a manway 4 by 8 feet. The tippie is constructed of wood. The hoisting engines are the Aetna make, 20 by 36 inches, with a six-foot cast iron drum. The hoisting rope is one and a quarter inch steel. The cages are self dumping, of the Bond manufacture. The fan is sixteen feet in diameter. Two boilers are installed of the Galesburg make, seven-sixteenth inches shell, seventy-two inches in diameter and eighteen feet long, with seventy four-inch flues.

The Sesser Coal Company has opened a new mine, located on the C., B. & Q. Railroad, one and one-half miles from Sesser, Franklin county. The main shaft is 10 by 18 feet in the clear, timbered with 6 by 12 inch plank to the rock. The air shaft is 10 by 15 feet, with four feet off for a manway. The coal seam is 9 feet 10 inches thick and 723 feet below the surface. The plant was completed September 10, 1906. The hoisting engine is of the first motion type, 24 by 46 inches, made by Crawford & McCrimmon. The fan and the fan engines are of the same make. The fan is twenty feet in diameter and the engine 12 by 24 inches. The company has installed three Gem City boilers, 72 inches by 18 feet, with eighty-four flues. The boiler and engine rooms are built of brick and are fire proof. The fan house is also built of brick and stands twenty feet from the air shaft. The air chamber is tunneled to the air shaft. This would protect the fan in case of an explosion. The tippie is constructed of steel, with an end pull to the hoisting engine. The sheave wheels are set tandem, one above the other.

The company has installed a Smith gravity box car loader, to handle coal for the northern trade, this trade being mostly confined to box cars. The arrangement seems to give the best of satisfaction for handling the egg coal, which can be loaded in box cars. The company has an Ottumwa box car loader. A large shaker screen is used to grade the coal. The mine track is forty-two inch gauge, with forty pound steel rails on the main and cross entries. The cars are of three and one-half ton capacity and when loaded to their extreme capacity hold four and one-fourth tons. The bottom of the shaft on the loaded track side has a fall of $1\frac{1}{2}$ per cent for 400 feet, giving a splendid action for loaded cars. The company is undecided in the matter of installing an empty car lift of the Danville manufacture or to blast up the bottom and make a gravity for the empty cars, both plans having their respective advantages.

The United Coal Company's new mine is located on the C., B. & Q. and Illinois Central Railroads, at Christopher, Franklin county. This shaft is 500 feet deep, with a seam of coal 9 feet and 7 inches. The main shaft is 10 feet by 16 feet. The air shaft is 9 by $13\frac{1}{2}$ feet, the air way being 9 by 9 feet. The engine is of the Danville make, first motion, 24 by 42 inches. There are four boilers installed of the Erie, Pa., make, 72 inches by 18 feet, with seventy-two four-inch flues. The fan is of the Capell make, 6 by $13\frac{1}{2}$ feet. The dynamo is of the Morgan-Gardner make, 150 K. W. The fan house is built of brick and concrete, standing twenty feet from air shaft, with a tunnel running to the air chamber equipped with a pair of relief doors, in case of an explosion. The blacksmith shop, boiler and engine rooms are constructed of brick. The main office is at the mine and is also built of brick, steam heated, with bath room in connection. The tippie is constructed of steel, with a large shaker screen and two box car loaders, one a Christy, the other of the Ottumwa make. The scales for weighing the coal into railroad flat cars are placed, one above the mine switches to weigh the empty cars and one below the switches to weigh the loaded cars. This is one of the up-to-date mines in southern Illinois.

The Zeigler District Colliery Company has sunk a new mine, on the C., B. & Q. Railroad, Christopher, Franklin county. The shaft is 517 feet deep, with a 10-foot vein of coal. The main shaft is 10 by 16 feet; the air shaft 8 by $12\frac{1}{2}$ feet. The engines are the Litchfield make, first motion, 24 by 42 inches. There are four Erie, Pa., boilers, 18 feet by 72 inches. The boiler room, blacksmith shop and engine houses are built of brick and are fire proof. The tippie is constructed of steel, with shaker screens. The pit cars have a capacity of three tons. This mine when fully developed should produce a large tonnage with its modern equipments.

The W. P. Rend Coal Company has opened a new mine on the C., B. & Q. Railroad, four miles northwest of Benton, Franklin county, and is now in operation. The mine is 575 feet deep, with a good 10 foot 9 inch seam of coal. The main shaft is 10 by 18 feet; the air shaft 10 by 13 feet, with mainway 4 by 10 feet. The hoisting engine is 24 by 42 inches; the hoisting rope is steel, $1\frac{3}{8}$ inches. Five boilers are installed, size 17 feet 11 inches by 72 inches, with seventy-eight four-inch flues; also one dynamo, 100 K. W. and one 150 K. W. The coal is mined with two electric Morgan-Gardner machines. The buildings, consisting of blacksmith shop, boiler and engine rooms, are constructed of brick and are fire proof. The tippie is steel, with shaker screens. This mine is equipped with sufficient machinery, when developed, to insure a large tonnage.

The Coöperative Coal Company, Breese, Clinton county, is now in active operation. The mine is situated on the B. & O. Railroad, one mile east of Breese. The depth to the coal is 390 feet to a seam of 7 feet and 6 inches. The main shaft is 9 by 18 feet in the clear, timbered with 6 by 8 inch yellow pine. The air shaft is 10 by 16 feet, also timbered with 6 by 8 inch yellow pine for the first thirty feet; the remaining distance is timbered with 4 by 8 inch yellow pine. At this mine there is a pair of 34 by 60 inch Danville engines and four 72 inch by 20 feet, Erie boilers. The fan is eighteen feet in diameter; fan engine is St. Louis make, 12 by 18 inches. Coal is hoisted