

Average value of lump coal per ton at the mines	\$1 33.32
Aggregate value of total product.....	\$4,043,638
Number of coal cutting machines used	10
Number of tons cut by machines.....	90,795
Number of employes in machine mines.....	98
Number of fatal accidents.....	17
Number of wives made widows.....	10
Number of children made fatherless.....	40
Number of non-fatal accidents.....	146
Total number of accidents.....	163
Number of employes to each fatal accident.....	520
Number of employes to each non-fatal accident.....	61
Number of tons to each fatal accident.....	199,687
Number of tons to each non-fatal accident.....	23,252

Comparative table for each county, in tons of lump coal, for the years ending July 1, 1892 and 1893:

COUNTIES.	Tons produced in 1892.	Tons produced in 1893.	Tons increase.	Tons decrease.
Grundy.....	1,108,419	1,106,574	1,845
Kankakee.....	81,793	83,700	1,907
LaSalle.....	1,261,467	1,242,566	18,901
Livingston.....	404,491	402,370	2,121
Will.....	108,897	77,934	30,963
Total.....	2,965,067	2,913,144	1,907	53,830

Net decrease in the district for the year. 51,923 tons.

New Mines.—The following named mines have been put in operation during the year: In Grundy county, the Chicago, Milwaukee & St. Paul Coal Co.'s No. 4 mine, located about one mile north of the village of Braceville; the Star Coal Co.'s No. 3 mine, located one-fourth of a mile west of the village of Carbon Hill; Leharty Bros. mine, north of Morris; also one mine reopened at Morris by John Teiford. In LaSalle county, the Standard Coal Co. mine, at Seneca; the Marseilles Land and Water Improvement Co. mine, at Marseilles; the Acme Coal Co.'s mine, at Streator, and W. B. Scott's mine, near Kangley. In Livingston county, the Streator Clay Manufacturing Co. and Alexander Bergren have opened mines at Streator. In Will county, at Braidwood, William Mally opened a local mine.

Prospective Mines.—In Grundy county, the Big Four have sunk a new shaft, and are equipping for a large output in the future; at Morris, Esley & Co. have put down a shaft for local trade only. In Kankakee county, the Wilmington Gardner Coal Co. have been prospecting with the drill and will commence sinking operations in a short time at Clark City. In LaSalle county, at Streator, Messrs. Plumb and Baer & Co. are each sinking a shaft to reach the lower vein or No. 2 of the geological section of the State; the Chicago, Wilmington and Vermilion Coal Co. have sunk and are busy equipping its new No. 1 mine, located four miles north of Streator. In Will county, at Braidwood, the same company have finished sinking the escapement shaft, and are now engaged sinking the hoisting shaft of what will be their Q mine.

Abandoned Mines and Mines Not in Operation During the Year.—In Grundy county, the Wilmington Mining and Manufacturing Coal Co. abandoned its No. 3 mine permanently, after closing it down for four months. In

LaSalle county, Goodmanson and Dawson, Freeman C. Bliss, and one of William Howe & Co.'s mines at Streator have been permanently abandoned. In Livingston county, Samuel Simpkins' mine was abandoned on account of the river breaking into it. John Marshall and Muncie & Son's mines were also abandoned, the coal being exhausted, all located at Streator. In Will county, the Chicago, Wilmington and Vermilion Coal Co.'s N mine is abandoned; the Ballantine & Fleming mine, at Braidwood; Purshuse & Co. and Jesse Masy's mines have not been in operation during the year, the last two in Streator.

Mining Machines.—At Carbon Hill, Grundy county, the Star Coal Co. has taken all the mining machines out of its No. 1 mine, and is not operating, at present, machines in any of its mines. The Chicago, Wilmington and Vermilion Coal Co. has not operated any mining machines during the year and has moved its engine and dynamo to Streator.

Escapement Shafts.—The following companies have sunk escapement shafts during the year: The Star Coal Co., at its No. 3 mine at Carbon Hill; the Chicago, Milwaukee & St. Paul Coal Co., at its No. 4 mine; Howe & Co mine, and the Marseilles Land and Water Improvement Co.

Floods.—The following mines were flooded with water February 4th, in Livingston county, at Streator: Samuel Simpkins, Pleasant Hill Coal Co., Richard Evans, Barrackman & Sons, Lukins & Cavanaugh and Alexander Bergren. In LaSalle county, May 11th, the Star Coal Co.'s No. 1 shaft at Kangley was flooded through a break which came to the surface, allowing the water from Moon's creek to flow into the mine. All of the flooded mines were idle for some time. S. Simpkins finally abandoned his mine on account of surface breaks near the bed of the river.

Improvements.—In LaSalle county the Star Coal Co. at its No. 2 mine, Kangley, sunk an air-shaft near the working face, thus shortening the travel of the air-current one-half, and greatly improving the sanitary condition of the mine; the Illinois Valley Coal Co., Oglesby, put in a new fifteen-foot fan and new engine, 12x14 inches, at its No. 1 mine which gives a large increase to the volume of air passing in the mine; the Oglesby Coal Co. has removed its fan-engine up close to the fan; this does away with the wire ropes which were used for transmitting the power of the engine to the fan, and which caused a great deal of trouble through stretching and breaking, also a loss of working time; the LaSalle County Carbon Coal Co. has increased its boiler power at the Rockwell mine, and are replacing the old hoisting engines with a pair of Litchfield engines, each 18x32 inches. Mr. E. Hakes, of Rutland, is now equipping his new shaft, having succeeded in getting the railroad track into it after over one year's delay; he intends to hoist all the coal from the mine at this new shaft and will use the old shaft as an escapement shaft.

In Livingston county the Chicago, Wilmington and Vermilion Coal Co. has sunk a shaft for water and ventilation purposes on the eastern portion of their No. 3 mine, thus shortening the travel of the air-current and greatly improving the ventilation of this part of the mine; a traveling