THE PENNSYLVANIA ANTHRAUITE 332 engines of various kinds, and COAL FIELD.

The good or the bad condition of must be broken, sorted to sizes, and the Pennsylvania anthracite coal have the impurities picked out, before mining industry affects happily or unhappily the lives of hundreds of thousands of our people through all grades of society, from the coal picker to the millionaire capitalist; and the discussion of this great industry is of corresponding interest. The Third Part of the United States Geological Survey, now passing through the press, contains the description of "The Pennsylvania Anthracite Coal Field," by Mr. H. H. Stock. Speaking broadly, the anthracite coal field, consisting of long, narrow, upland valleys and located in east-central Pennsylvania, may be said to be bounded on the west by the Susquehanna River, on the north by the and on the east by the Delaware and Lehigh rivers. The anthracite region lies mainly within Lackawanna, Northumberland counties, though the measures overlap into Wayne, Susquehanna, Wyoming, Sullivan, Colabout 484 square miles are underlain this productive area continuous, but Northern basin, including the Wyoming and Lackawanna valleys, contains 176 square miles. The Eastern-Mauchchunk on the Lehigh River west to Dauphin on the Susquehanna, and contains 181 square miles.

The Western-middle basin contains 94 square miles. This anthracite and the Schuylkill region, or labor district No. 9.

It is probable that only a very small part of the coal measures originally deposited in this region has escaped erosion. In the report of the Mr. D. W. Smith estimates the original contents of the anthracite coal field before mining began at more 50 or 60 feet of the Mammoth bed. in the Eastern-middle field, 75 to 77 1762. Anthracite discovered in Wyom ing Valley by Connect cut settlers. 1769, Obadiah Gore first burned anthracite in his blacksmith forge. 1802, Anthracite first burned in a grate in Philadelphia. 1812, Anthracite first successfully used in an iron furnace at Philadelphia. 1823, First cargo of Nevertheless, pessimists to the conanthracite shipped around Cape Cod trary, says Mr. Stock, the anthracite to Boston. 1820-184c, Period of canals and navigation companies. 1840-1901, Period of railroad exploitation. 1855, Anthracite leads charcoal in manufacture of pig iron. 1887, Important development of lake and western trade. 1900, Large number of existence. individual collieries bought up by railroads.

After a protracted contest with the railroads, the individual operators ton. consolidated their interests in 1899 with the Pennsylvania Coal Company and incorporated a railway for themselves; whereupon, in January 1901, the Pennsylvania Coal Company was bought by Messrs. Pierpont Morgan & Co., at an increase of 752 per cent upon the par value of the stock; this property was then immediately sold to the Erie Railroad; and thus the contest was closed. The mining is by "stripping," where the coal outcrop can be easily reached, and by the room and pillar system for underground work. Slopes and shafts are the prevailing form of mine opening. Anthracite is universally mined with hand rotary drills and by the use of black blasting powder, dynamite or giant powder being sometimes used. The reports of the Bureau of Mines give 39 3 tons of anthracite mined as the approximate result per keg used, as against 282 tons, per keg of powder, of bituminous coal mined during the same period. The coal is not undercut as a general rule, and mining machines have never been applied successfully to the anthracite rotary fans, and fire-damp exists in a number of mines in such quantities as to render it necessary to work them acquainted with contemporaneous history as with the history of any period of the world. as to render it necessary to work them period of the world. entirely by the use of safety lamps. Every known form of haulage-mule Every known form of haulage—mule haulage, rope haulage, locomotive that they don't know the difference between conversation and a monohaulage-is to be found in the an- between conversation and a monothracite mines, there being in 1900, logue.

15,708 mules for hauling coal.

of the Twenty-second Annual Report Irish; but at present a great many ment is growing daily. It is a well Polish, 27, Hungarian, 6; Italian, 3; the war revenue taxes. At the last North Branch of the Susquehanna, a total of 140,656. The production has since devoted himself to the being covered by salaried carriers and Luzerne, Carbon, Schuylkill, and tons, valued at \$42,300,000; 1890, the Reed rules and the vigor of the of Virginia has received considerable ucate their children. It is a crying umbia, Dauphin, and Lebanon. Of interests in the anthracite coal fields school, remains to be seen, but un- grave mistake. "Great responsibility," the total anthracite territory, only has been the policy for the past few less the subject of reciprocity with said Mr. Swanson, "rests upon the pass a measure which can claim for by workable coal measures; nor is and preparation of coal, as well as in say that they will not. the ownership of the properties. consists of detached basins. Of the Large central plants are rapidly refour main geographic divisions, the placing isolated smaller plants. One flesh" of the leaders. The third would result in securing the cheapmiddle basin has a total coal area of has replaced possibly halt a dozen The President refuses to recede from ions of the bill there would be no perabout 33 square miles. The South-ern basin extends 70 miles from fashioned cylindrical boilers, and must be done for Cuba and General number of small plants were doing cent reciprocal reduction on Cuban the work. This concentration natural- imports. Mr. Roosevelt is threatencoal field is divided for trade and ly tends to better management, and ing to send a special message to Conlabor purposes into the Wyoming to a saving in fixed expenses and in gress on the subject although if he will be as accommodating and as ready region, or labor district No. 1; the labor. These economies have resulted does it will be against the advice of to issue money orders, register mail Lehigh region, or labor district No. 7; from the increase of capital and his friends who fear that it would and in other ways increase their work labor required to produce anthracite, have a tendency to make the opposi-Coal Waste Commission (Harrisburg), away: now royalties are 25 cents for he intended to before the matter came than 19,500 million tons, and he pea. In 1877, the average number displayed by newspapers which have they would be unanimous in their op thinks that this amount of coal repre for days worked per year was 205; always heretofore been the friends of sents not more than 6 per cent, pro- 1897, it was 152. The cost of open- the trusts and he was at a loss to bably about 2 per cent, and possibly ing a colliery in 1887 was \$100,000; understand how the Cubans themonly I per cent of the vast original now it is from \$400,000 to \$500,000. selves could have produced the widecoal deposit before erosion took Owing to requirements of cleaning, spread sentiment which there seems place. The coal beds vary in thick. about 14 per cent of the coal product to be in favor of concessions to the ness from mere traces of coal to the which was formerly saleable must island. now be thrown upon the dump. In In the Wyoming basin of the North- 1887, the average daily breaker outern field 81.8 per cent of the total put was 500 tons; in 1897, the aver- dent the bill providing for a perma- dents of their several states. coal may be considered marketable; age of all breakers was 380 tons. In nent Census Bureau but Mr. Roose-in the Eastern-middle field, 75 to 77 1880, 88 per cent of the coal sold velt has expressed disapproval of the per cent; in the Southern field, 72 was of the size which sold at a profit; section which includes in the civil per cent; in the Western middle field, in 1897, only 70 per cent. In 1877, service all of the clerks now employ 75 per cent. The development of the 38 per cent of all coal mined was ed by the bureau, not more than oneanthracite coal field may be briefly grate and larger sizes not requiring third of which will be retained in the suggested by the following chronology: preparation for sale; in 1887, only 26 permanent organization. He has so per cent; in 1897, 15 per cent. The selling price of prepared sizes at tide water was \$3.26 in 1877, \$3.67 in 1887, and \$3.46 in 1897. Deeper workings, heavier machinery, greater costs in many ways of mining, have

> The cost of mining anthracite can hardly be given in general terms. It is probably not far from \$1.50 per

greatly increased cost of preparation.

industry, with an invested capital of

some \$700,000,000, with natural an-

nual profits of from \$85,000,000 to

\$100,000,000, with a freight traffic

worth \$40,000,000 per year to the

carriers, cannot be rapidly wiped out

Learn Something.

About eighty per cent. of the inmates of our prisons and penitentaries have received sufficient education to be able to write their own names and read a little. About the same proportion have never been taught to use their hands in any usetul way. These figures would appear but, whether you can or not, to constitute an impressive argument in favor of industrial education. The mechanic is seldom at a disadvantage. He can nearly always find employment with your work. You can't live while the man who does not understand how to use his hands is often reduced to direst distress, because can. There's a limit, however; no man will hire him.

Read the Papers.

The principal of the Philadelphia schools, Dr. Brooks, says he is in thorough accord with the thought that teachers should carefully read long be well and strong, without the newspapers. The newspapers, some sort of activity. says Dr. Brooks, are very largely the says Dr. Brooks, are very largely the only means for learning of current this picture on it, events, and teachers should be as well take no other.

Some people are so fond of talking

WASHINGTON.

Unlike bituminous coal, anthracite From our Regular Correspondent.

Washington, March 7, 1902. "If we don't revise the tariff the German, 4: and Austrian, Slavonic, moment the Michigan delegation, on 000; 1900, 57,400,000 tons, valued press the "schism," as it is called by

drainage tunnels are now draining advocate of the Ways and Means whole basins, where formerly a large Committee bill which grants 20 per pea coal, about 10 to 121 cents for up in the Senate, he was certainly small stzes below pea, and from 40 to suspicious of the vigorous advocacy

The Senate has sent to the Presi-

Getting Thin

is all right, if you are too fat; and all wrong, if too thin already.

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Scott's Emulsion of Cod Liver Oil is the readiest cure for "can't eat," unless it comes of your doing no work--you can't

SCOTT & BOWNE

of coal in the anthracite field by de- organization of those republicans who although this was voted for by a large government, do not receive a recennual periods since 1880 has been, desire a revision of the tariff at this majority of the Committee, the minori- muneration sufficient to enable them in round numbers: 1880, 28,700,000 session. Whether the autocracy of ty report, prepared by Mr. Swanson to live comfortably and properly ed-46,500,000 tons, valued at \$66,400,- party whip will be sufficient to sup. support in the House. Mr. Swanson shame, but I believe that the people told me yesterday that he considered at \$86,000,000. Concentration of gentlemen of the Henderson-Dalzell the passage of the bill would be a sufficient pressure to bear on the mayears in connection with the mining Cuba is soon disposed of it is safe to carriers of rural routes and their personality is a matter of great importance to the residents of the districts. Cuba is another "thorn in the In the first place, the contract system large breaker now does the work caucus on the subject, held Monday est class of men and equipment. The formerly done by a number of small evening, was productive of no results prices bid would be too low to secure ones. A sing e tubular boiler plant and another will be held this evening, men of high grade. By the provismanent tenure, as either the government or the carrier could cancel the mammoth central pumping plants or Grosvenor of Ohio has become a warm contract on thirty day's notice. This would, of itself, militate against the efficiency of the service. Again, it is unreasonable to expect that the men who have contracted to do certain work for the least possible money as men who are paid a salary and without a corresponding increase in tion even more obstinate and might who appreciate that their positions demand for it. In 1880, coal royal- even injure his chances for a renomi. are permanent so long as they perties were from 20 to 25 cents per ton nation. Senator Rawlins of Utah form their duties to the satisfaction of for prepared sizes, the sizes below told me the other day that while he their patrons and of the Department. chestnut being neglected or thrown had not investigated the subject as These are but a few of the many objections to the measure but I fee confident that, could the residents along the free delivery routes have an 50 cents for prepared sizes above of Cuban reciprocity which is being opportunity of expressing themselves. position to the change." From what I have been able to learn from the Senate end of the Capitol it seems hardly likely that the bill will receive a favorable vote in that body, parti cularly as its opponents predict that before the Senate takes it up for con sideration the senators will be over whelmed with protests from the resi

New York, told me yesterday that he

RAILROAD TIME TABLE

LACKAWANNA RAILROAD.

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50c. and \$1.00; all druggists. | am am p m p m corrected to Jan. 30, 1902. ARRIVE

has even stated that he felt inclined the enactment of the bill he has so to veto it, although it is not believed faithfully championed in several Conthat ne will yield to the inclination. gresses and which embodies a material increase in the salaries of letterhave the impurities picked out, before it can be marketed. The coal is broken by toothed rolls, and screened in circular or horizontal screens, the slate being picked out by machinery or by boys and old men. Some years ago the anthracite miners were mainly American, English, Welsh and Irish; but at present a great many nationalities are represented in the anthracite fields. The percentages of nationalities are about as follows: American, 21; Irish, 16; English, 5; Welsh, 9—a little over 5; per cent—Welsh, 9—a little over 5; per cent—Polish, 27, Hungarian, 6; Italian, 3; the war revenue taxes. At the last On Monday Senator Frye com- carriers throughout the country. "I in my bill, so much that appeals to The House Committee on Post- the inherent sense of justice of the Scotch, and Lithuanian over I per which Mr. Babcock had counted as offices and Post Roads has reported American people, that I feel sure, cent each. In 1899 the amount of an ally, declined to vote with him and a bill providing that hereafter the when they realize the facts, they will employees inside the mines was consequently he determined to routes of the free delivery service demand its passage. As a matter of 92,223; of outside employees, 48,433. abandon his project for the time and shall be let by contract instead of fact, our letter-carriers, who are the hardest worked employees of the will awaken to the injustice and bring jority to make even the republicans

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