

MANY DIFFERENT KINDS OF COAL AND THEIR FUEL QUALITIES.

All is not coal that's black. Coal from different areas and different mines may differ greatly in character and quality. In quality coals may range from those having only 1 or 2 pounds of ash in 100 pounds of coal to those having 20 or 30 pounds of ash. Some coals contain less than half a pound of sulphur while others contain 5 pounds or more per 100 pounds of coal. This makes a great difference in the usability of coal. High sulphur coals cannot be used in making or working iron. Coals differ even more in the amount of "gas" or "volatile matter," and in the amount of water they contain. When first laid down in the form of peat 100 pounds of coal may consist of 25 pounds of "moisture," 20 pounds of so-called "fixed carbon," 5 pounds of ash, and 50 pounds of gas or volatile matter. As the bed of peat is buried beneath later deposits and time passes, millions of years, and earth shrinkage squeezes the bed, the moisture slowly disappears, and the volatile matter passes off until at the last as anthracite only 38 pounds are left of the original 100 pounds.

Pennsylvania is very rich in kinds of coal. At the east is anthracite, containing only about 3 pounds of moisture, and 3 to 8 pounds of volatile matter, and the rest pure carbon and ash in a 100 pounds of coal. Going westward the amount of "gas" or "volatile matter" steadily increases until at the western edge of the State the coal commonly has 40 pounds of gas to a 100 pounds of coal. The difference is due to the difference in the intensity of the pressure and folding to which the beds of coal were subjected at the end of the Age of Coal. This pressure appears to have folded and squeezed the beds more at the east than at the west. The coal beds in the anthracite fields are highly folded, in places standing vertically, or even overturned. In the bituminous field the beds are less highly folded and towards the western and northwestern part of the State the folds nearly die out.

The various characters of the coal greatly affect its usability for different purposes. For gas making a high gas coal is needed, for household use a low-gas or low-volatile coal is desirable as it gives off much less smoke. Certain qualities of coal are especially adapted for blacksmithing, for by-product coking. Users of coal find it desirable or necessary to have analyses of coals that are offered them in order to secure the coal best suited to their special needs.

In this connection all operators of soft coal mines, all dealers in soft coal, and all who use this coal in large quantity should find much valuable information in a report just issued by the Pennsylvania Topographic and Geologic Survey, Department of Forests and Waters. This report contains analyses of about 2,000 samples of coal collected in the bituminous coal fields of Pennsylvania. More than 700 of these samples were collected since 1922 and analyzed by the U. S. Bureau of Mines. Many of the analyses have never before been published. For each new analysis there is given the name and location of the mine, the operator, a description of the place in the mine where the sample was taken and a measurement of the coal bed at that place. The analyses are arranged by counties and alphabetically by towns in each county, so that knowing the location of the mine, an analysis of coal at any given place can be found. A very complete index enables the person knowing only the name or owner of the mine to find the desired analysis. This bulletin also contains about 325 analyses of Pennsylvania bituminous coals as delivered to United States post-offices, courthouses, Government fuel yards, Army posts, and Indian schools. This report was prepared by the U. S. Bureau of Mines but not published by that bureau. A copy may be obtained free on application to the State Geologist, Harrisburg, Pa.

CENTRE COUNTY FARM CENSUS FOR 1925.

The government census of the farms of Centre county has been completed and advance sheets of the findings show startling decreases in almost every item of farm produce since the 1920 census.

It is so interesting that we publish herewith comparative data on the farms of Centre county:

NUMBER OF FARMS.		
Total	1925	1920
Operated by:	2,105	2,265
Owners	1,373	1,425
Managers	27	42
Tenants	705	823
FARM ACREAGE.		
All land in farms	239,797	268,250
Crop land, 1924	127,946	
Harvested	115,248	
Crop failure	1,305	
Fallow or idle	11,395	
Pasture, 1924	49,617	
Plowable	18,376	
Woodland	19,944	
Other	19,944	
Wooded not pastured	52,443	
All other land	9,591	
FARM VALUES.		
Land & buildings	\$13,855,129	\$15,250,350
Land alone	6,646,159	8,607,225
Buildings	7,208,967	6,643,125
LIVESTOCK ON FARMS.		
Horses	6,151	8,110
Mules	446	397
Cattle total	19,787	24,380
Beef cows	250	687
Other beef cattle	912	2,793
Dairy cows	12,602	12,568
Other dairy cattle	6,023	8,592
Pigs	17,989	21,935
Breeding sows	2,105	2,888
PRINCIPAL CROPS.		
Corn, acres	21,103	26,443
Corn, bushels	705,754	1,178,662
Oats, acres	19,206	22,764
Oats, bushels	682,115	624,172
Hay, acres	38,079	40,652
Hay, tons	48,644	50,190
White potatoes, acrs.	2,933	2,596
White potatoes, bu.	297,784	271,233
Apples		
Young trees	17,443	22,285
Trees bearing age	65,620	77,954

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PLACE TOO HEAVY TAX ON DIGESTION

Common Fault Is Overworking the Stomach.

Among civilized people the digestive organs are constantly overworked. The process of digestion cannot be "hustled," like the brain or the nerve system, is a warning given by Walter M. Gallichan, in the Buffalo Express.

Roast beef requires fully four hours for digestion and bread about three hours. Salt fish, goose, dried haricot beans and peas are not digested under about five hours.

Speaking generally, an average dinner requires between four and five hours for the digestive organs to do their work.

The custom of eating four meals a day is a continual tax upon the digestive apparatus. It is one of the gravest of all our dietetic fallacies that constant stoking of the human engines is essential for producing energy. The stomach only works normally when it is permitted reasonable intervals of rest.

Even during sleep, if a hearty meal has been taken an hour or so before retiring, the digestive machinery is hard at work.

We rest the muscles after exertion and we relax brain activity while asleep; but the unfortunate stomach is worked overtime habitually. This is why the ordinary rejoiners to an inquiry concerning the health of our acquaintances are "Pretty fair" or "Fairly well" at the best, while very often they are: "Not very well" or "Not at all up to the mark."

Three good meals a day should be the maximum, with at least four-hour intervals in between. Many persons engaged in sedentary occupations benefit by reducing the meals to two a day. The habit of eating luncheon at half-past one, afternoon tea, with cakes and pastries at five, and a four or five-course dinner at seven is a cruel test of the working capacity of the long-suffering digestive tract. In cases of very feeble digestive functioning small and frequent meals have been recommended by some physicians.

On the other hand, in some forms of dyspepsia fasting within reasonable limits has proved beneficial.

Workers in National Park

Yellowstone park has a vocabulary all its own and tourists visiting it the first time have many surprises in store for them. An automobile driver is never a chauffeur in the park. He is a "gear jammer." A waitress is always a "heaver," and a cook is known only as a "meat burner." Most of the employees in the hotels and camps of the park are students. Twenty universities and colleges are represented among the hundreds of waitresses and housemaids working in the big hotels and camps. There are also many school teachers among the women employees, and this year most of these motored to the park in their own cars. The chauffeurs and other men employees of the transportation and hotel company also came chiefly in their own autos. Many of the students motored all the way from New York, and large numbers of them came from California.

King Goes to the Wood

Ethiopia is an ancient country, but for generations its capital has been merely a temporary home for the king. This dignity located in some sharp peak surrounded by military defense. A rambling village sprang up around it and all was well until the wood of the vicinity was exhausted, whereupon the court and its followers moved to a new location. Addis Ababa has been the capital for some time and promises to be a permanent one for the reason that a foreign element was attracted to this place and made some improvements of a permanent nature, and when the last movement was proposed such a great protest was heard against leaving these modern conveniences that the court decided to stay.

Honor German Professor

The faculty of Bonn university in Germany recently gave a reception to Prof. Aloys Brandl, who retired as head of the department of English. The occasion was his seventieth birthday anniversary. Professor Brandl for many years was president of the German Shakespeare society and is one of the best known authorities in Germany on English philology and literature. The faculty of the university presented Professor Brandl with a portrait of himself by Hellemann. He also received an honor scroll from his former pupils on which was recorded tributes of his services to the university in the department of English.

You Can Mail Bees

Bees and silk worms have been given special privileges in the international mails by the universal postal union convention held in Stockholm. They are permitted by mail while the convention has prohibited the mailing of all other live animals in the mails.

Sardines

American sardines, still packed tightly in cans, are finding greater favor than ever in the Philippines, the Straits Settlements and Dutch East India.

Demountable House.

Demountable cheap houses may be used in Salonki in its efforts to rebuild the city, which was partially destroyed by fire during the war.

The World Court--Objections 1.

Written for the Watchman by Mary A. Willcox, Ph. D., Prof. emeritus Wellesley College.

The World Court held its first regular session in June, 1922. The following February, President Harding sent to the Senate a message recommending our joining the Court. Opposition at once developed in various quarters.

The objections may be reduced to five which are substantially as follows:

- The Court is too strong.
 - The Court is too weak.
 - The Court might be improved.
 - There is no code of international law which the Court could apply.
 - The Court is the creation of the League of Nations and by joining it we should become entangled in the League.
- In this and the following article these objections will be discussed.
1. The Court is too strong. Mr. Borah has described the Court now functioning as a most ambitious and presumptuous effort to establish a judicial despotism. How a despotism can be established by a Court which may only decide cases voluntarily submitted by both disputants it is difficult to imagine. No sane thinker can honestly believe that the Court would threaten our liberties because it is too strong.
 2. The Court is too weak. This objection is much more appealing than the last. The Court is considered too weak partly because it has no means of enforcing its decisions. But nations that submit a case must agree to accept the Court's decision. Public opinion, common sense and national honor have thus far proved sufficient to induce such acceptance even when one or the other party was more or less dissatisfied. The many cases of successful arbitration in modern history show that nations voluntarily laying a dispute before judges do honorably abide by the result.
 - The Court is weak also in that it cannot compel nations to submit their disputes to it. In reply to this objection its friends recall the response of Franklin when some one asked the use of a certain electrical experiment—"What is the use of a baby?" They believe that the important thing is to get a court started even in the most rudimentary form. As Elihu Root has remarked when an institution is once established and becomes known people begin to think differently about the subjects to which it relates. If it is carried on so as to induce confidence in its original limited scope it inevitably grows and develops. "Thou hast been faithful over a few things; I will make thee ruler over many things."
 3. The Court might be improved. Many plans have been suggested which in the opinion of at least some Americans would better it. But as a wise statesman has said if an institution is being planned for international benefit it is needful not only to consider what Americans would like best but what the French and the Japanese and all the other nations who are to make use of it would like best. The beliefs and opinions which all the different nations hold in common are very few and simple and it is upon these few beliefs and opinions, common to all the interested nations that we must base any institution that is to be approved and used by them all. The question is not whether the Court is the best conceivable one but whether it would be useful so far as it goes and whether there is any probability of getting forty-eight nations to agree to a better one.

WHAT THE PRESBYTERIAN HOME FOR WOMEN IS LIKE.

The Presbyterian home for women, reconstructed out of the Keller property on Newry street, Gaysport, Blair county, will soon be ready for occupancy as the work has all been done with the exception of the painting, putting in the electric lights and cleaning up the building. The furniture and other equipment have arrived and it is expected that the home will be opened by Thanksgiving.

A large brick addition has been built to the old Keller homestead, the latter having been extensively repaired. The old fashioned fire places in nearly every room will be preserved as well as the winding staircase that reaches from the lower floor to the top of the house and is very unique and quaint, being constructed along the most graceful lines, describing long sweeping curves and equipped with a dainty though substantial railing.

There are three stories and the new section has long lines of rooms on each floor, with spacious halls and wide doors to the rooms, each of which contains a wash stand. There are many lavatories. The floors in the halls are of maple and those of the rooms of white pine, the other woodwork being yellow pine, much of it being finished in golden oak.

A notable feature is the two spacious enclosed porches or sun parlors at the rear, on the first and second floors, the large kitchen that will be fitted up in the most modern and approved manner, the nurses quarters, and roomy dining hall, that has a patent floor made of a composition that is as soft as linoleum. There are various offices and other necessary departments and all the latest improvements and conveniences that will make the home complete in every detail.

It has large, and many windows, making a well-lighted and cheery place from top to bottom and is very roomy in all departments. An automatic elevator has been installed, of the latest design that can be set to stop at any floor desired and can be brought to any landing to take on passengers, by pressing electric buttons. The old and new buildings are joined with a large porch between them at the front. The lighting system will be equipped with attractive fixtures and everything done to make the whole place as cozy and comfortable as possible. A steam heating plant has been installed in the cellar, that will be finished throughout and used for various purposes. The cellar also contains an incinerator, in which garbage will be burned, by being placed in a chute in the kitchen.

The interior will be painted in tasteful, harmonizing colors, and the exterior improved in this manner, especially the old part. The grounds will be placed in fine shape, lawns being made, flowers and shrubbery planted, though which cement walks have been laid. When the whole work is finished this will be one of the most attractive and complete institutions of the kind in the State. It has been erected and will be maintained by the Huntingdon Presbytery.

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"No," sobbed the man; "I am a musician."

MEDICAL.

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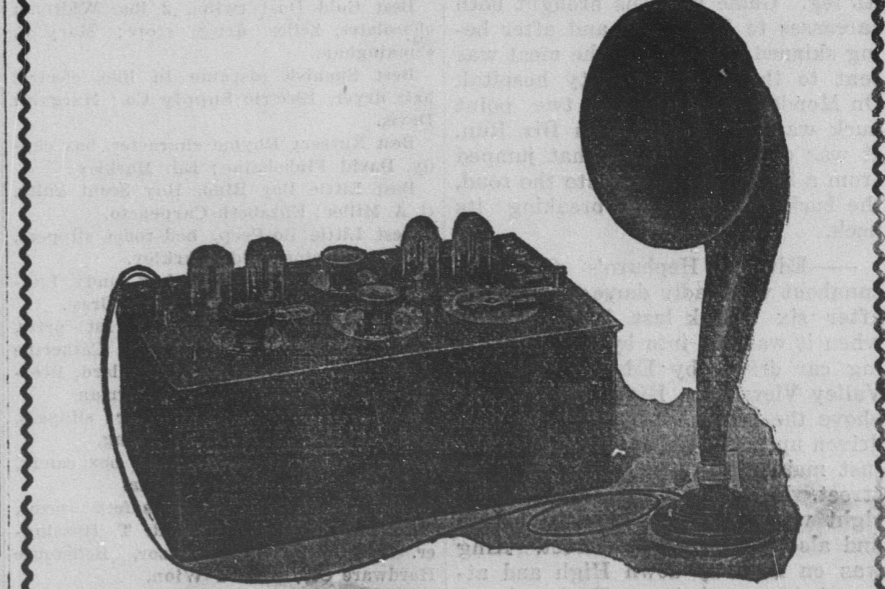
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