## OUR COAL AS WAR ASSE

WE CAN FIGHT FOUR THOUSAND YEARS AT OUR PRESENT RATE OF CONSUMPTION

BY FRANK G. CARPENTER.

Washington, D. C., Feb. 2.—The ground it would form a cube more than age of muscle-fighting has passed. The age of machine—But even that pile is too big for the ASHINGTON. B. C. Feb. 2—The age of muscle-fighting has passed The age of machine-fighting has begun. This war is being waged by machinery, and in machine-fighting the greatest of assets is coal. The war is not confined to the battle-field. For every modier sent to the front there are 10 behind the lines. They are to be found in our steel mills, eur machine shops, our munitions industries which give us our supplies. All of these are based upon coal, and fif wars are to continue and nation is to fight to the death against mation, the nation that will finally survive is

if wars are to continue and nation is to fight to the death against nation, the nation that will finally survive is the one that has the most coal.

On that has let us see where we stand. In order to give you the best information I have gone over the altu-ation with the experts of the fuel nd-ministration and the geological survey.

States must forever be the heart of that center. As for the coal famine of today, that is a temporary matter. It is due to not getting the coal out the ground, and the war troubles in

of the ground, and the war troubles in Placing it in the hands of the consumer. For those who can comprehend fig-ures I give herewith, in round numbers, in billions of tons, a table prepared by the congress I have referred to, showthe congress I have relatively countries of the world stand as to their coal reserves. This table is not made up by United States authorities. It comes from the geological experts of every may be relied upon as correct:

land has been the center of the coal production of the world, and for a long time it furnished half of the coal used by mankind. It has long since exhausted the supplies near the surface, and the miners are now working hundreds and in some cases thousands of feet below ground. The coal veins are thin. In some of the mines the men have to lie on their sides to pick the coal out. The rich Newcastle field has veins from the rich Newcastle field has veins from the production of the ground that part of the country has plenty of good soft coal as well. The smount runs high into the billions

three to six feet in thickness, and many of the Wales veins are only three feet thick. Some of our Pennsylvania veins are from 30 to 60 feet thick, and the bituminous coal near Pittsburg measures from eight to 15 feet, while in the coal fields of Alaska we have great beds which are 40 feet thick.

And now let us look at our own coal reserves. I have before me some figures made this year by Dr. Marius R. Campbell, one of the leading experts of the geological survey. They will show us how much coal we have and how look we worried about the immediate future. The amount so far used is only four-tenths of 1 per cent of our available grouply, and we shall be mining coal soft coal as well. There are another of general symptoms that may be observed in connections that may be observed in connections. There are a number of general symptoms that may be observed in connections that may be observed in connection with most of the common dealers of the same in that may be observed in connections that m

Some of the mines of Belgium which all the industries of the East for hundred new now worked by the Germans are dreds of years. So far we have not wind feet deep. They are the deepest mined of real mines of the world, but the minimum of the world, but the minimum of the future probably will be carried to a depth of \$600 feet, or more than a mile underground.

great fortifications with wide trenches between. Suppose we made it 500 feet thick and 500 feet high, or as tall as the Washington Monument, which no tank could climb over. The great wall

estimates include only those of the United States proper. They leave out the enormous coal beds we have it Alaska, some of which are being opened up by the new railroad now building. We have both anthracite and bituminous coal there and a vast amount of lightly which may be more valuable to lignite, which may be more valuable in the future. I saw something of the coal fields during my recent trip to Alaska and I have talked about them with Dr. Aifred H. Brooks, who has apent more than 15 years exploring the territory and who knows more about geology than any other man on earth. He says a low estimate of the coal we have there would be 156,000.000,000 tons, which is just about 250 times at much in the coal was the coa does, one tonk, which is just about 250 ilmes as much as the coal we used in 1917. Of course, a great part of the Alaska coal does not compare in quality with that we now mine, but the strikery has great beds of good coal and the railroad has already reached the Matanuska fields, which have fuel it for the Nave. ino fit for the Navy.

asimption is due total for local consumption is due to the construction of the constru as Germany and more than 20 times as much as Great Britain. The only anthracity bed of Northeastern Penncountries that compare with us in our wealth of black diamonds are Canada and China, and se far their mines are fully as good, if not better, than the practically undeveloped. With the exception of one or two mines, the great state of China are not made at all the control of the chief steaming cost since

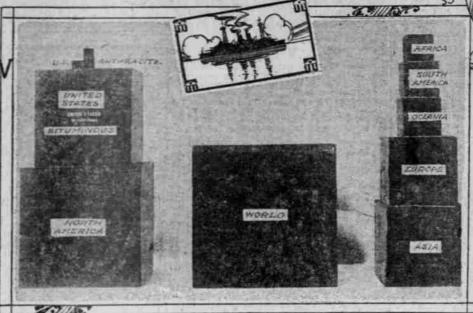
There are two ways in which the poultrykeeper may determine the cause of death. First, by external symptoms: second, by a careful postmortem examination.

be werried about the immediate future. The amount so far used is only four-tenths of 1 per cent of our available enoughly, and we shall be mining cost down to our grandchildren of 18 gendews to the coal of the coal of the coal of the poultrykeeper has to erations or more. We can keep up our present rate of production, inclinding all the coal of soft coal which begins the coal of production, inclinding all the foundation of the coal of the poultrykeeper has to contend, and through Kentucky, West Virginia, Tennessee and Alabama, almost to the Guif of Mexico. That bed has some of the best coal of the world, and there is enough of it to supply all the industries of the East for hungels, congestion of the lungs, gapes, Naucous discharge from mouth; Pneumoils, congestion of the lungs, gapes. Mucous discharge from nostrils:
Roup, catarrh, colds.
Mucous discharge from mouth; Pneumonia congestion of the lungs, gapes.
Nau:ea and vomiting: Inflammation of the trop; copper, lead or sinc polson-

ing.

Mass of inflamed tissue projecting from vent: Prolapse of oviduct.

Paralysis: Poisoning, heat prostra-The estimates of Dr. Campbell as to our anthracite coal, which lies in Northeastern Pennsylvania, we have enravailable coal include those down not used more than one-fourth of the more than one-half mile-below the surface. His estimates run into the thou-something like 21,000,000,000 tons and there is still more than 17,000,000,000 tons and there is atill more than 17,000,000,0



The occasional loss of a hen

The occasional loss of a hen that to all appearances is in good health, is a common expe-rience of most poultrykeepers. In the majority of cases little

In the majority of cases little attention is paid to such a loss, because the owner is not sufficiently informed to reach a conclusion as to the apecific cause of the mortality. If death is brought on by some simple non-contagious malady, or through accident, no particular harm is done; but should the disease be of such a party of the configuration.

of such a nature that the rest of the flock is more than likely to be infected, the failure to take cognizance of these occas-

lonal deaths may mean the loss of a number of birds. Efficiency

demands that the poultrykeeper have a general knowledge of the external and internal mani-festations of disease.

ance of the fowls.

External Indications.

There are a number of general symp-



In blackhead the liver is enlarged and



the intestines will be found greatly in- two sounces; powdered borax, two the intestines will be found greatly infiamed and full of mucus.

Where intestinal worms or stape worms are suspected, the intestines should be cut open with a small pair of shears and the contents emptied in a bowl of water. If worms are present they can be easily detected in this manner.

In tuberculasis the intestines and surrounding tissue will be found dotted.

To repair the damage done to your skin through loss of sleep, apply this very excellent cream, working it well.

"IWANTA" MALADY RAGES when disfiguring purpose blemishless skin it is a sure sign that your
diet is too rich. Eliminate greasy foods, The heart should be firm, Bad Epidemic Reported in Washington: Adults Affected Most.

> WASHINGTON, Dec. 23-The anworld today, has arrived in Washington. They're all getting the iwantas. Along F street, small boys taxging along after their mothers, are afflicted to a terrible degree. Ever dow, in holiday attire, every Every winvender, catches their eye. Then ensues

a struggle.
"Ma, iwanta piece of candy."
"Mother, iwanta rocking horse."
"Ma, iwanta soldier's suit and a gun

The malady has afflicted the Gov-

ernment Service. Army and navy officers meet in their offices, their homes, hotel lobbies and on the And the average Washingtonian has

it even more terribly than his children. His is a particularly bad case. One hears it especially in those palaces where "the merry elbow used to be crooked in good cheer" by both your and old. Here is the way it

"Iwanta vote."

And the sweet young things whose are in cantonements and in Francischer halfs and bope-to-be other halfs have a plaint.

"Iwanta picture."

Would You Be Beautiful? Then Heed Signs.

How to Repair Damage Done Skin Through Loss of Sleep-ply Cream. TOU may not believe in signs, as

I rule, but there are signs that the eauty lover must heed to guard against the loss of good looks. If you con tinue to ignore nature, you will have to suffer the disappointing consequences and, when it is too late, realize that you made a mistake not to heed her warnings.

Look at yourself in your mirror. Are there the indications of fatigue about your eyes and mouth? Have the former

lost their brilliancy and are they rimmed with dark circles? Are your lips drawn together in a rigid line that rob the mouth of its sweetness of expression? If these signs are to be read in your face, you are not getting the amount of sleep necessary to preserve your good looks.

The only thing to do is to give nature a chance to rebuild the brokendown tissues and provide a new store of correct Cancel all proposessary or

of energy. Cancel all unnecessary en of energy. Cancel all unnecessary engagements and rest. Lie down every afternoon and make sure that you get eight hours' sleep every night. If you are a business woman, try to get from 10 to 12 hours' sleep each night. Do not let anything interfere with this rule until you are your normal self agrain.

gain.
Aid nature in her process of restoring eyes, before retiring, with a soothing lotion and by massaging your face with a nourishing skin food. Use the follow-

In tubercures the intestines and surrounding tissue will be found dotted with small whitish or yellowish nodules.

Reproductive organs. In gangrene of the ovary, the ova are found to be brown or black, while in a healthy state they are yellowish pink in color. If death has been caused by a ruptured oviduct, one or more eggs in various stages of decomposition will often be found in the body cavity.

Skin through loss of sleep, apply this very excellent cream, working it well into the tissues: Oil of sweet almonds, two ounces; white wax, three drams; glycerin, three-fourths of an ounce; orange flower water, one and one-half ounces; oil of neroll, eight drops; oil of bigarade (orange skin), eight drops.

This formula contains only vegetable oils and will not increase the growth of hair upon the face.

This formula contains only vegetable oils and will not increase the growth of hair upon the face.

When disfiguring pimples mar the

candles, pastry and rich gravies from your menu, for they not only "play hob" with your health, but destroy your complexion. Try plain, whole-some food for a while and notice the transformation in your skin.

If you are of a worrisome nature and fret over trivial things, you will soon begin to notice signs of wrinkles about

begin to notice signs of wrinkers about your mouth and across your brow. If you are wise you will read the sign the moment it appears and stop all unnecessary worry. When you have accomplished this, keep your skin firm and flexible by massaging with cold cream. Before the destruction of your good looks begins, nature displays these Govmay to repair the damage done by your their the fore it is too late to save your beauty.

## Greatest Danger From Within. Boy Scout News.

As a democracy, our country faces great danger—not so much from submarines, battleships and armies. Thanks to our allies, our enemies have apparently little chance our shores. Our danger is from within Our enemies have representatives everywhere. They tell lies; they mis-represent the truth; they deceive our own people; they are a real menace to

our country. Fortunately here in America the people are better educated—they want the truth. The President knew that the Government would need the con-fidence, enthusiasm and willing service "Iwanta But Hun helmet."
"Iwanta soldier button."
"Iwanta soldier button."
"Iwanta be drafted" is the only thing of every man and woman, every boy and girl in the Nation. He knew that and girl in the Nation. He knew that the only possible way to create a gen-uine feeling of partnership between the people and its representative in Washington, D. C., was to take the people into his confidence by full, frank statements concerning the reasons for entering the war, the various steps taken during the war, and the ultimate



Routledge Floring 145 147 25 51 PORTLAND ng lotion for the eyes: Camphor water, New Poultry Supply Catalogue Free

the same time be affected with some healthy bird the liver is a chocolate to windpipe or Trachea. When young and the same time be affected with some healthy bird the liver is a chocolate to windpipe or Trachea. When young and to standard the same time be affected with some healthy bird the liver is a chocolate to windpipe or Trachea. When young and the same time be affected with some healthy bird the liver is a chocolate to windpipe or Trachea. When young and affects them.

It wants a provide a chick's die from the gapes the walls of the windpipe will be found studded affects them.

In hypertrophy or enlargement of with small red gape worms, the liver, this organ will be enlarged.

Intestines. In bad cases of diarrhea are in cast.

White patches on mouth and throat: deep red in color, engorged with blood and rather firm under the knife.

If the liver is shrunken, hardened, and marbled or spotted with areas of grayish or yellowish tissue, the trouble would be diagnosed as fatty degenera-tion.

Yellow droppings: Cholera, Choking: Arsenic poisoning. Convulsions: Poisoning, epilepsy, harconvulsions: Poisoning, epilepsy, nar-est bug. Constipation: Simple constipation, in-

Canker, roup.

digestion, inflammation of the oviduct. Diarrhea: Polsoning, blackhead, cholera, tuberculosis, roup, white diarrhea.

Dark comb: Liver diseases, congestion of the lungs, blackhead, pneu-Dark comb: Liver diseases, congestion of the lungs, blackhead, pneumonia.

Emaclation: Tuberculosis, viscual gout, mites, diarrhes.

Excessive thirst: Enlargement of the liver, peritonitis, aspergillosis.

Excessive the liver will be covered with a fine chalky sediment.

Hard, dry tenges for the liver will be covered with a fine chalky sediment.

Hard, dry tongue: Plp, diseases of the spiratory system.

Hard full crop: Crop bound.

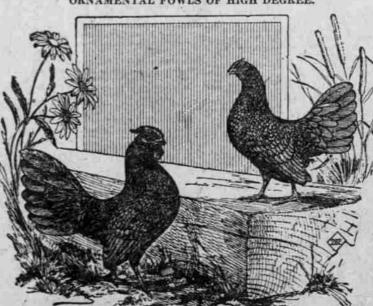
Lameness: Rheumatism, bumble foot.

When the heart is found distended

Lameness: Rheumatism, bumble foot, scaly legs, tuberculosis; leg weakness.
Limp neck: Limber-neck.

Internal Indications.

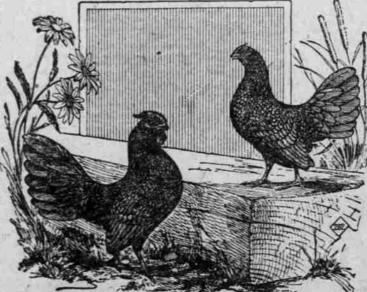
It frequently happens that a bird



GOLDEN SEABRIGHT BANTAMS.

vancement.

Mature male Seabrights should not exceed 26 ounces in weight, and females 22 ounces. They have small, firm rose combs, short blue legs, drooping wings, well-spread fan tail and an aiert, upright carriage. The male must be "hen feathered," that is, the tail is devoid of curving sickle feathers, which denote the male in other fowls, and the feathers of the neck hackle and saddle are not pointed, as in other cocks. This hen feathering is the distinguishing feature of the Seabright Bantams. The plumage is described as golden bay, each feather distinctly outlined with a narrow edge of glossy black.



Golden Seabright Bantama are essentially an ornamental breed, both eggs and carcasses are too small for commercial purposes. Sir John Seabright, an Englishman, spent a lifetime originating and perfecting the breed. Later, in 1820, a club was formed for their ad-