

## DO YOU KNOW HOW TO CONSERVE COAL IN FURNACE? PURDUE EXPERTS TELL

To Whom it May Concern:

If press reports are correct to the effect that soft coal production is about 45 per cent of normal, and hard coal production somewhat above normal, we can get along if we will only use our fuel economically.

These papers are addressed to local fuel administrators and conservation committees, to managers of small power plants and to domestic users. Large power plants are usually managed by competent engineers, who presumably are making every effort to save fuel.

There is considerable fuel going to waste about the country, principally in the form of dead wood.

Local fuel conservation committees should arrange to purchase this fuel from the owners and put it on the market; if necessary, calling for volunteers to cut and deliver it at a fair compensation.

Usually the owner of such waste fuel should use it to supply his own needs and refrain from burning coal.

Large quantities of waste paper are available. A pound of paper has practically the same heating value as a pound of hard coal; and all such material which is not bought by the paper makers as raw stock should be used as fuel in the present emergency. The first duty of all is therefore to find and use their available supplies of fuel other than coal. The next duty is to use all fuel economically.

In these papers we state methods which are immediately available and in most cases require nothing more than intelligent care on the part of the coal user.

We list first:

### FOURTEEN POINTS ON COAL SAVING IN DOMESTIC USE

1. Keep your house not over 68 degrees Fahrenheit.

2. Do not heat unused space.

3. Do not cool off house by opening windows or doors. Check fire, shut register or turn off radiators.

4. Furnace or boiler and pipes should be properly insulated, that is, covered with nonconductor of heat.

5. Install window strips and storm windows; stuff up all other cracks.

6. Clean soot and ashes from all heating surfaces daily.

7. Remove all ashes from ash pit daily.

8. Do not control fire by furnace doors; use your dampers.

9. In furnace systems the air ventilation of living rooms of dwellings is usually sufficient from natural leakage. Ventilate sleeping rooms, but do not heat them and keep them shut off from the rest of the house.

10. Test your ashes by sifting. If there is much coal you are shaking your grates too often. Call in an expert if you can not operate without the excessive shaking.

11. Keep a deep fire. Use cooking method of firing unless you can give fire constant attention. (See below.)

12. Install proper dampers so that draft may be properly regulated.

13. Banking at Night—Bank hot air furnace thoroughly. Bank steam furnace thoroughly. Hot water can not be banked much.

14. Humidify the air as much as possible by filling the water pan of your furnace every day.

The principal losses during combustion are from gases which are given off as the fuel becomes heated and from unburned fuel lost in the ashes.

**TO BURN GASES FROM FUEL.**  
In order to burn the gases four things are necessary:

1. Air enough to burn the fuel.

2. Thorough mixture of gas and air.

3. Heat enough to make the oxygen in the air unite with the gases. And

4. Time enough for the air and gas to mix and burn thoroughly.

We give below the best general directions that we can for attaining these four things; but we would recommend that the consumer study his own furnace with these four things in mind. Intelligent study and action on the spot will do much that we can

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is necessary to keep the house comfortable.

### AT NIGHT

For Hot Air and Steam.  
In Mild Weather—if possible, do not put on any fresh coal for an hour or two before going to bed. Then cover the fire uniformly with ashes all over, until no fire can be seen. Close ash pit and furnace doors. Close drafts in furnace door, close ash pit damper, open check draft and close damper in flue leading to chimney. In the morning shake the grate slightly and resume firing as above instructed.

Moderate Weather—if possible, do not put on any fresh coal for an hour or two before going to bed. Then cover the fire over with anthracite coal of nut or pea size or with coke of similar size, if either is available; if not, leave the fire bare. Close ash pit and furnace doors and so forth, as directed above for mild weather.

In Severe Weather—Fire as for prolonged inattention under which ever system of firing is used. When very fine coal is burned in a strong draft, it may pay to wet it enough to keep the fine coal from being carried bodily out of the chimney by the draft; that is, dampen the coal slightly enough to make it stick together. Shelter your coal from snow and rain. Too much air wastes fuel as well as time.

If the domestic user keeps his firebox full of ashes and coal up to the bottom of the fire door and checks the draft on his furnace promptly, as soon as the house reaches a comfortable temperature, he will probably not use too much air.

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### Report Urges Development of Pacific Coast Yards

WASHINGTON, Dec. 9.—Development of Pacific Coast naval shore establishment during the next five years at a cost of \$155,000,000 is recommended in the report of the special board headed by Rear Admiral J. S. McLean sent last year to check up on its previous program. Deep water fleet bases at Bremerton, Wash., at a cost of \$44,000,000, and at San Francisco, at a cost of \$51,000,000, are the chief items proposed, the San Francisco project as previously outlined by the Helm board having been increased by proposed destroyer and submarine bases.

The report urged establishment within three years of the base at San Francisco, saying that with the Bremerton base it would provide two deep-water stations for the capital ships, the minimum required for efficient operation of the Pacific fleet. In addition, expansion of facilities at San Diego to provide a complete operating

base for southern California was recommended to include fleet supply facilities and a repair base for the smaller ships. Advantages of this point as a base for maneuvers and target practice were emphasized.

The board agreed with the Helm Commission (1917) that insufficient depth of water rendered the Mare Island yard unavailable for development as a base in San Francisco harbor and favored Alameda site over that at Hunters Point, although withholding final decision pending further sub-surface exploration.

### STOCKHOLDERS MAY GET DIVIDENDS IN BOURBON

CHICAGO, Dec. 9.—Rumored possibility that dividends of the United States Food Products company, legal successor to the former Distillers Security corporation, would be distributed in the form of distilled liquor in

stead of currency caused much comment here today. One broker estimated that on a conservative basis such action might release 1,500,000 gallons of bourbon whiskey as dividends on the 307,726 shares of the corporation's stock.

### CHICAGO PAPERS CUT SIZE

CHICAGO, Ill., Dec. 9.—Local publishers of daily newspapers, to aid in conservation of coal in addition to seeking to relieve the white paper shortage, began today reducing the size of their publications. The reduction will be equal to 10 per cent greater than the wartime restrictions of the war industries board.

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to enjoy good health. The secret of good health is chiefly to maintain normal activity of the stomach, bowels, liver, skin and kidneys.

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### A Home Recipe for Wrinkled, Saggy Skin

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One feels much more refreshed and exhilarated after using this wonderful preparation. Many women look five or ten years younger after using it a short time.—Adv.

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\$1.10 Miles Nervine	95¢
\$1.15 Wine of Cardui	95¢
60c Listerine	43¢
30c Listerine	23¢
60c Musterole	48¢
30c Musterole	24¢
30c Sanitol Tooth Powder	24¢
35c Peterson's Ointment	32¢
25c Beecham's Pills	22¢
60c Canthrox	51¢
30c Celery King	26¢
50c Pebeo Tooth Paste	45¢
60c Glover's Mange Cure	59¢
35c Senreco Tooth Paste	29¢
50c De Witt's Kidney Pills	34¢

### DURHAM DUPLEX DEMONSTRATORS

9c

35c Gets It Corn Remedy	28¢
90c Parmint	80¢
75c Wyeth's Sage and Sulphur	63¢
25c Phenolax Wafers	19¢
50c Squibbs Oil	85¢
75c Bellans	63¢
\$1.25 Pinkham's Compound	95¢.

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Leather Mitts \$1.12</p