DALLAS POST, DALLAS, PA., SATURDAY, JANUARY 12, 1929



The Ordinary Home-Heating Plant Efficiency, 50 Per Cent.

The Well-Operated Heating Plant Efficiency, 75 Per Cent.

If your home-heater is operated a little better than the average found in the great majority of American homes, 40 per cent of the heat in the fuel you burn is lost up the the chimney, 5 per cent through excessive radiation into the basement and 5 per cent by coal dropping into the ashpit. If you follow the methods of firing recommended by heating engineers, you can cut these losses so that 75 per cent of the B. T. U.'s in the fuel will be usefully applied.

three things to consider. First, there | the ashpit, radiation of heat into the | bustion is not complete and some of the amount of heat contained in basement, and the chimney. e fuel. One pound of Illinois soft As much as 10 per cent of the total rial goes up the flue in the form of coal contains about 11,300 B. T. U.'s; of Indiana soft coal, 11,500; of Ken-tucky, 11,800; of Pocahontas, about 11,000; of Pocahontas, about 14,000; and of anthracite coals, 13,000 the grate into the ashpit. This is B. T. U.'s.

Buy B. T. U.'s, Not Black Rock. Industrial companies that consume

most likely to happen when coal of too small size is used, when the grate is shaken too often and not carefully great quantities of coal buy it on this enough, and when the fire is poked the flue before it has had a chance to This is not entirely practical and prodded more than necessary. If warm the heating surfaces inside the for the average home-owner, but you care is exercised in selecting coal and plant. Less frequent firing of the can reduce your total fuel bills consid- firing the heater, the heat-loss at this better grades of coal, firing before the erably by studying fuels and remem- point can be kept down to 5 per cent fire becomes too low, and proper ator even less, so that sifting the ashes | tention to regulation of ash-door and

soot and dense smoke.

Less Frequent Firing Is Cheapest. On the other hand, if the chimney is high enough and big enough in area to supply more draft, and if the dampers are opened too much, the heat from combustion may be carried up

Carverton

Miss Edna and Mary Hefft have Mr. and Mrs. George Schooley rereturned to New Jersey after spend- cently. ing their vacation with their father and relatives.

Bruce at Philadelphia, is improved. * * * Miss Mary, Edna and Genevieve ents.

* * *

Miss Iva Conklin is spending some time at her brother's, Mr. Bruce Sunday School will be at 1:30 fol- Lewis J. Spencer, of Kingston Conklin, of Philadelphia. * * *

Christina Sword, Bob Dana and Phil- are ill with the flu.

ip Harris. Mr. Willard Prynn, children Shel- from the flu. + don and Mary, called at the home of

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Born, to Mr. and Mrs. Berton Kintz, a son. Mrs. Kintz was Miss Mrs. Wayne Conklin, who has been Alice Gay before her marriage.

> Miss Madge Anderson has been spending her vacation with her par-

Miss Margaret, Etta and Charles Lewis J. Spencer of Kingston Town-Mary Knorr on Sunday.

* * * lowed by church at 2:30. * * *

The following students have return- The Ladies' Aid will hold a bazaar Township for \$228. * * *

* * * Mr. and Mrs. Isaac Coursen visited the latter's mother, Mrs. Rozelle on Sunday.

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Mrs. Steve Covert is recovering

Miss Sarah Knorr is ill. Mrs. Charles Parrish is ill.

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Property Transfers

Knorr visited their grandmother, Mrs. ship to George W. Cook, of Larksville, property in Kingston Township for \$1.00.

> Township to Katherine Keller, of Larksville, property in Kingston

property in Lehman Township for



Real Estate --- Fire Insurance

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ering that you pay y for a certain weight of black lumps, will be unnecessary but for a number of heat units.

heating plant extracts from the fuel fuel at this point is a reason why the and transmits to the rooms that need home-owner should study grates. A warmth is the second vital question center-pivoted grate of the coneaffecting heating economy. The third shaped type is an efficient preventaone is, What becomes of the heat tive of excessive losses here. after the heating plant delivers it to the upstairs rooms? Heat is contin- tral heating plant into the firing-room ually "leaking" through apparently is another fuel waste. The basement solid walls. Great quantities of it must, of course, be warm; when it is, are lost through cracks around win- it helps keep the first-story floors dows and doors. Insulation retards comfortable. But, whereas inefficient the loss of heat through walls and central heating plants lose as much as roofs. These aspects of the home 20 or 30 per cent of the B. T. U.'s heating problem come under the head in fuel from this source, it should be of construction; but the Holland In- possible to keep the figure down to stitute of Thermology is more concerned with the heating plant itself. ern warm air circulating equipment. No heater of any kind or class will The piping that carries the warm home-owner will have to buy only two textract all the B. T. U.'s from fuel air, water, or steam from the heater tons of coal where he now buys three.

How many of these B. T. U.'s your cent or more of the total value of the supply.

Too much radiation from the cen-10 per cent, or even less with mod-

loor dampers will help to keep Avoiding a possible loss of 5 per down losses due to improper air So by selecting the right kind and

size of coal, by choosing an efficient and modern heating plant and having it installed according to an approved engineering code, the average householder can reduce by a big percentage the number of B. T. U.'s wasted by the consumption of fuel in his heat-

The Holland Institute of Thermology points out that this means a direct saving. If the net efficiency of the heating plant can be increased from 40 per cent to 60 per centwhich is not beyond the bounds of practical possibility under the conditions that have been described-the home-owner will have to buy only two

Care in Firing Cuts Five Firing Rules Reduce Fuel Bill Out Danger of Gas

against winter blizzards and "cold winter takes its toll of lives in Amersnaps," choose as to whether you will ican homes, can be eliminated entirefollow an economy strategy or an easy ly by following a few simple rules. the heater is "ciosed up for the hight." strategy, the Holland Institute of according to the heating experts of Thermology of Holland, Mich, advises the Holland Institute of Thermology the householder to understand the the home owner.

an average of twice daily in severe weather is much more economical than stitute states. "The problem is to get putting in smaller charges of coal at the gas up the chimney, rather than ings. All of these are fitted together shorter intervals.

With a modern warm-air circulating house. heating plant, it is possible to keep a "Many persons imagine they can defairly thick firebed in the heater. The firepot in this type of home-heater is no precautions until they begin to the air chamber and being circulated through the home is reduced to deep enough to carry a big volume of smell it. But carbon monoxide gas is slow burning fuel. This prevents entirely odorless, and is therefore all this is the case with other heating dropping of coal into the ashpit and the more deadly. The only safe way equipment which he is considering keeps the fire in the best condition to to deal with it is to prevent it from placing in his home is a question transmit heat into the air that car- escaping, except through the chimney. ries it up to the rooms that need The following rules will help to ac-

It is sound economy to allow some ashes to accumulate in the lower part make sure there is a good draft by of the fuel bed during mild weather. opening the draft and smoke pipe Poking and stirring the fire from dampers and closing the checkdraft above tends to produce clinkers and on the smoke pipe. to cause greater heat losses both up the chimney and into the ashpit.

ter—is to keep ashes away from un-der the grate. Heaps of ashes in the "3—Distribute the coal evenly on air is properly humidified, as can be ashpit may prevent the inflow of enough air to sustain combustion, or the fire. may deflect the air through part of the firebed only, or may react in burniant cruter in the firebed only of may react in burnt-out grates.

In going into the annual campaign Danger from coal gas, which every of Holland, Mich.

to have it percolating through the with double cup joints sealed with as-

complish this:

"2-Before putting in coal, close the ashpit door and its draft shutter. This A final rule for economical firing of throws the main draft to the fuel feed temperature of 40 degrees, means a a modern warm-air circulating heat-ing plant—or any other, for that mat-across the top of the fire and quickly tion during the heating season. Phy-

15 or 20 minutes while the gases are being 'cooked' out and burned off the fresh coal and the fumes are being carried away. Then make the usual regulations to control the fire."

Coal gas poisoning occurs most fre quently, according to the Holland Institute's engineers, where large quantities of coal are added to the fire and

This is why it is so necessary for technical defails of his central heat-Firing the central heating plant on "All coal generates deadly carbon ing plant. The furnace-or heart of bestos cement. In this construction the danger of deadly gases filtering which demands the investigation of

"1-When adding fuel to the fire, Humidity Cuts Cost of

Home Comfort 17 Per Cent As an example of the ecol humidity, the Holland Institute of Thermology cites the fact that, to heat a house to 75 degrees instead of 70 degrees, with an average outside done with a modern vapor-air circu-

