

MEDFORD MAIL TRIBUNE

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The Democratic Times, The Medford Mail, The Medford Tribune, The Southern Oregonian, The Ashland Tribune.

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GEORGE PUTNAM, Editor and Manager

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Official Paper of the City of Medford Official Paper of Jackson County.

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SWORN CIRCULATION. Daily average for eleven months ending November 30, 1911, 2751.

Full Leased Wire United Press Dispatches.

The Mail Tribune is on sale at the Ferry News Stand, San Francisco, Portland Hotel News Stand, Portland, Bowman News Co., Portland, Ore., W. O. Whitney, Seattle, Wash.

MEDFORD, OREGON. Metropolitan of Southern Oregon and Northern California, and the fastest growing city in Oregon.

Population—U. S. census 1910—\$540; estimated, 1911—10,000.

Five hundred thousand dollar Gravity Water System completed, giving finest supply pure mountain water, and 17.3 miles of streets paved.

Postoffice receipts for year ending November 30, 1911, show increase of 13 per cent.

Spokane fruit city in Oregon—Rogue River Spitzenberg apples won sweepstakes prize and title of "Apple King of the World".

at Spokane National Apple Show won by carload of Newtowns.

Rogue River pears brought highest prices in all markets of the world during the past six years.

Write Commercial Club, including 5 cents for postage for the finest community pamphlet ever published.

JOLTS AND JINGLES By Ad Brown

Personally we are not so strong for dissolving the plumbing trust as we are for exemption from the privilege of paying for the time during which the gentlemanly plumber goes back to the shop after his tools.

From the number of pearl necklaces that are to be given this year as Christmas gifts by New York society people it would seem the smug-gling game had not been altogether stopped.

"I see Nat Goodwin has settled his difference with Edna Goodrich." "What was their difference?" "Sixty thousand dollars."

Piffle. Apple-green west and an orange bar. And the crystal eye of a lone, one star.

And "Child, take the shears and cut what you will.

Frost tonight—so clear and dead still."—Edith M. Thomas in Harper's.

Pea-green piffle and orange bunk. And the ragged rhyme of one mad or drunk.

You must confess this approaches Miss Edith's verse—but we can't sell this.

—John D. Wells in Buffalo News.

Crushed pumpkin down and a lemon squeeze— Child, lead your mother outdoors to freeze.

At stuff like this we could never fail.

But we'd never dare offer this stuff for sale.

—Judd Mortimer Lewis in Houston Post.

Allee-blue cheese and a plate of tripe. And fourteen Chinamen hitting the pipe.

Verzes like this make a bosom throb— I hope it won't cause me to lose my job.

—Milwaukee Sentinel.

Salmon-hued vests and a pale blue tie. Child, keep your fingers out of the pie.

Christmas is near. If I sell this girls, You can do SOME of your shopping early.

—Edgar A. Guest in Detroit Free Press.

Green marmalade and a pair of jacks— I can write barrels of this with an ax.

Child, mail it snickly, then give me a kiss— Harper's is patiently waiting for this.

—Oregon Journal.

Alice Blue thoughts and Helen Pink dreams. And a moon held high on a scaffold of beams;

Ah, child, for thy sake I will win me a name; It is 'but a step from mere piffle to fame.

THE TARIFF BOARD'S REPORT.

TAFT'S tariff board has reported upon duties on wool and woollens and confirmed statements made by insurgents during the fight upon the Payne-Aldrich tariff measure. The present duties are declared, in effect, prohibitive and unjustifiable.

The report goes into detail and gives much valuable information. However it does not make known anything not known before. Almost every fact brought out was previously presented by La Follette and others during the tariff debate.

In his message to congress Taft says that when he vetoed the tariff reform bill he was "not possessed of adequate knowledge to determine whether or not the proposed act was in accordance with his pledge to support a fair and reasonable tariff policy."

Was Taft possessed of the "adequate knowledge" when he signed schedule K of the Payne-Aldrich bill which he has been forced since to admit "indefensible" and which his own board shows an outrage?

But Taft's tariff board does not recommend any particular rates of duty and Taft now asks congress to reduce the duties on wool and woollens. So it is once more up to congress whose conclusion on the tariff had been embodied in the bill which Taft vetoed, because it was a democratic-insurgent measure.

Taft blundered when he signed the Payne-Aldrich tariff bill and has been forced to admit it. The tariff board's report proves that he blundered again when he vetoed the tariff reform bill.

SEEKING COUNTRY TRADE.

WITH the extension of the parcels post, the partnership between the government and a few mail order houses will put many a small town merchant out of business if he doesn't wake up.

Any competition that gets the business must be recognized, and the competition met.

The principal reason the farmer sends his trade to the catalog houses is the patent one that he believes their prices are lower than can be obtained from the local merchants.

If he is right in his belief that the mail order prices are lower, then the dealers are to blame for letting this condition obtain.

On the other hand, if he is wrong, if the prices in the local stores are as low as the others, then the home dealers are at fault in not taking aggressive steps to convince him of it, steps such as the mail order houses took to convert him to their side.

Successful merchants keep in touch with the rural population and show that trade is appreciated. Special efforts should be made to draw farmers and provide entertainment that doesn't have to be paid for.

The farmer's problems are the small town's problems. His lack of markets, his need of assistance, of cooperation, are all of vital interest to the little community where he trades or should trade, for upon his prosperity rests the prosperity of the community.

A CREDITABLE ISSUE.

THE Gold Hill News is out with a 20 page Christmas number, the largest and most creditable issue ever published in that city. The news matter is home print and speaks well not only for the enterprise and ability of the publisher, Rex Lampman, but also for the merchants and business men of that thriving city.

To print a 20 page paper in Gold Hill is an achievement entailing difficulties appreciated only by those familiar with the limitations of the country print shop. As the editor remarks:

"The Christmas number of the News probably represents a greater effort, comparatively, than was expended by the Portland Oregonian on its great anniversary number, or than will be expended by the Medford Mail Tribune on its big New Year's edition. Hindered and hampered by a lack of labor-saving machinery and adequate equipment, and crippled by the financial inability to employ competent help, the average country publisher must of necessity, if his paper is to make a creditable showing, work harder every day in the year than the city newspaper man, who has every high-priced aid at his fingers' ends. Then, too, there is no "division of labor" in a country printshop, as there is in a city office. The country publisher compositely takes the place of all the big salaried men in all departments on the city paper. He leaves an editorial on the iniquitous tariff "up in the air" to kick off some dance bills on the job press. However, he is "on the job" because he likes it, and this is a plain statement of fact rather than a complaint.

"The reader will find these twenty pages filled with clean, timely reading matter, and will note that the advertisers have "come through" generously. Advertising patronage is the sinews of war of all legitimate newspapers, and it will almost invariably be found that the excellence of a country newspaper is in exact ratio to the amount of advertising it carries. In other words, the country publisher makes as good a paper as he can afford to make—and often better."

And in this case, at any rate, the editor has succeeded.

A Test of Fuel Oils

By P. J. O'GARA.

Pathologist and Special Meteorological Observer U. S. Weather Bureau. In all the work that has been done in orchard heating to prevent frost injury, no comparative tests have ever been made to determine the calorific or heating powers of the various fuels when burned in the numerous appliances which have been put upon the market in recent years. So far as we know, no one has ever determined just what fuel oils of different gravities will do when burned under like conditions. Neither has it been determined just what the various smudge pots will do. There has been a tendency among the manufacturers of smudge pots to rate their particular types of pots according to the length of time the pot will burn a gallon of oil. They forget that a unit quantity of fuel oil contains just so many heat units; or, which is the same thing, a unit quantity of oil in combining with oxygen will result

In the production of a certain quantity of heat. Naturally, combustion may be perfect or imperfect, and no one expects the total quantity of heat contained in the oil to be given up when burned in even the best type of fuel pot. If combustion were absolutely perfect, smudging or orchard heating would be a simple matter of handling the oil, one of the cleanest and pleasantest of operations. We know the reverse is true, for smudging, which is, after all, a need term, results in the production of a lot of un-combusted or uncombined carbon which is the soot or deposit left on the sides of the pots and on everything else around. But, besides the soot, there may be a considerable quantity of uncombined gases which escape, thus lowering the actual calorific power of the fuel oil. In testing the calorific power of any fuel oil we are able to determine the total number of heat units which it will generate upon uniting with the oxygen of the air. This calorific power from the laboratory standpoint is never realized in practice, and there is no doubt but that in our crude smudge pots we scarcely realize 75 per cent of the fuel value of the oil.

Fuel Oils Used in the Tests.

In making the tests of fuel oils, the first thing done was to determine the approximate number of heat units by careful physical laboratory determinations. Before going into the matter of the different oils used, it will be well to understand what a heat unit is. The heat unit commonly used in this country is the British unit of heat, or British Thermal Unit (B. T. U.), which is that quantity of heat required to raise the temperature of one pound of pure water one degree Fahrenheit at or near 39.1 degrees F., the temperature of water at maximum density. However, as a rule, we state that a heat unit is that quantity of heat which will raise the temperature of a pound of water one degree. If a pound of water were raised from 29 to 49 degrees F., we would say that 19 heat units had been expended in raising the temperature of the pound of water 19 degrees. If, then, we say that a pound of crude oil has a calorific power of 18,000 heat units, it means that in burning this oil with combustion complete the heat generated would raise 18,000 pounds of water 1 degree F. In orchard heating we do not heat water but air, and the quantity of heat which will raise a pound of water 1 degree F. will raise a pound of air about 4 degrees F. At the temperatures when orchard heating is necessary, a pound of air occupies a space of nearly 12.4 cubic feet, and since the temperature increase is never very great and the atmospheric pressure is high, we may say that a heat unit will raise the temperature of the air enclosed in 12.4 cubic feet of space 4 degrees F. It will be seen that we are simply using one pound of water as a unit of quantity for comparison, and we might state that in all calculations the amount of heat required to raise any other substance, such as iron, lead, etc., 1 degree F. is compared with the quantity of heat required to raise one pound of water 1 degree F. at maximum density.

The oils used in the test were Stove Distillate, Slop Distillate, Richmond Smudge Oil and Crude Oil. The Stove Distillate is a new fuel oil which has been put upon the market by the Union Oil company. The Richmond Smudge Oil is also a new oil which is the Standard Oil company's new fuel oil. The Slop Distillate has been used before to some extent and is put out by the Union Oil company. The so-called Crude Oil is a very heavy residual product which has been used more or less as a smudge oil for a number of years, with varying success. In the table below will be seen the characteristics of these oils, namely, their specific gravities, weight per gallon, heat units per pound, and heat units per gallon.

To be continued.

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