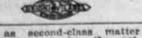
MEDFORD MAIL TRIBUNE

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GEORGE PUTNAM, Editor and Manager



Entered as second-class matter Medford, Oregon, under the act March 3, 1879.

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

Daily average for eleven months end-ing November 30, 1311, 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.

MEDPORD, OREGON.

Metropolis of Southern Oregon and Northern California, and the fastest-growing city in Oregon.

Population—U. S. cermus 1910—8840; 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, 1811, show increase of 19 per cent.

Banner fruit city in Oregon—Rogue River Spitzenberg apples won sweepstakes prize and title of "Apple King of the World" at the National Apple Show, Spokane, 1909, and a car of Newtowns won First Prize in 1910 at Canadian International Apple Show, Vancouver, B. C.

Pirst Prize in 1910 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, inclosing 6

ing the past six years.
Write Commercial Club, inclosing 6 cents for postage for the finest community pamphlet ever published.

OUR CARROT MAN

(Editorial in Ashland Tidings.) The Tidings was presented Saturday with an image, reported by the donor to be an exact type of the editor of The Medford Mail Tribune. It is wrought out of carrots and moss. Others who have seen it say it looks "just like him." We have seen the Tribune man but once and did not take more not of him on that occasion than he did of us; we do not know that he took any of us, for we did not see any mention of it in his "in town" column-so we are not a competent judge as to the truth of the likeness. Nature has provided for the legs and arms, in growing the vegetable, while the genius of the nam, because it bears a fierce asof his hair, his pipe and his body. Withal the image is odd enough and displays one of the mirthful moments when nature plays her pranks in producing man's kind in her work of vegetation. We have named it Putname, because it bears a fierce aspect, like his editorials do when discussing the Oregonian, or when he threatens to spank somebody or something. It is truly a marvel of nature and a work of art, and, some say, like Boswell's Johnson, it depiets the subject with such sublime fidelity that one would know him, in catching a glimpse of his apparition or reincarnation, even though he had never met him in life. It is truly a combination of art and nature that will well repay a visit to this office village down the valley to Ashland, the peerless, to get a look at it. Mrs. M. Riley is the artist who discovered and embellished the image.

AL KAUFMAN GOES KNOCKOUT ROUTE

NEW YORK, Dec. 29.-Al Kaufman of California is in the has-been class today, Al Palzer, practically in unknown, sending him to the mat for the count in the fifth round of their in several of the preceding rounds. Kauwman put Palzer down once in the first round. It was a fierce, rushing, rough fight while it lasted. Kaufman had apparently struck his stride and was boxing strongly in the fifth when suddenly a terrific body punch from the Iowa hope laid him low. The knockout was complete.

BLANKS FOR NEW LICENSES RECEIVED

William L. Finley, state game warden, has written County Clerk W. R. Coleman that the state will print year and that a supply for Jackson of burning any fuel. county will be forthcoming the latter county has borne the expense of printing the licenses. Warden Finley says he has already sent out 40,000 of the blank licenses to counties farthest away from Salem, where they are printed.

DOES FR UIT RAISING PAY?

THE present year has been considered an off year in fruit districts of the northwest. Unfavorable weather conditions prevented a heavy yield and a tremendous eastern fruit crop cut down the price. Yet Rogue river valley fruit has commanded good prices-with the exception of Bartlett pears,—what in other districts would be called fancy prices.

Returns have not all been received for Comice pears. They are selling as high as \$8 a box in the eastern markets. But it is not the occasional high price that tells the story. It is the average price of the fruit throughout the

The Rogue River Fruit and Produce association, handling three-quarters of the orchard output of the valley, give the following as the average net prices realized for this season's crop handled through the association:

Bartlett pears, 4 tier fancy, \$1.12; 5 tier fancy, \$.785; 4 tier choice, \$.80; 5 tier choice, \$.748.

Clairceau pears, 4 tier fancy, \$1.245; 5 tier fancy, \$1.233; 4 tier choice, \$.987; 5 tier choice, \$.95.

Howell pears, 4 tier fancy, \$2.245; 5 tier fancy, \$2.207; tier choice, \$1.979; 5 tier choice, \$1.902.

4 tier choice, \$2.00; 5 tier choice, \$1.884.

tier choice, \$2.018; 5 tier choice, \$2.051. Winter Nelis pears, 4 tier fancy, \$2.12; 5 tier fancy,

Newtown apples, fancy, \$1.99 to \$1.53; choice, \$1.20. There is probably not another fruit section in America whose yield has averaged as good a price this year as the Rogue river valley.

IMPORTING FEED FOR LIVESTOCK.

THE record of a single feed mill in Medford, according to the sworn statement of its proprietor, shows that between Nevember, 1910, and June 1, 1911, ninety-nine clegged with soot, and, besides, throws a great deal of soot down into cars of hay and grain were shipped into Medford from the oil, making it "mucky" and, naturally, less easy to evaporate. We points outside the Rogue river valley.

valued at \$14 a ton, \$7560; thirty cars of barley, 600 tons, of fuel oil is doubled, naturally the number of heat units generated in a at \$30 per ton, \$18,000; fifteen cars of oats, 300 tons, at \$32 unit of time is decreased by one-half. This is just what happens with the a ton, \$9600; total, \$35,160.

valley. There is idle land sufficient to produce many times this quantity, and a ready market with good prices and six hours, respectively, we find in both cases more than a third of the awaits the farmer.

gate, but there is ample water at hand for those who de- case of the slop distillate and the Richmond oil it is seen that only s sire to use it. Instead of importing foodstuffs, we should rather small percentage of residue was left upon relighting the oils after be exporting them.

year for fruit for the reason that we do not produce as particular case. Any statement that the arrester will double the burning much as we consume, and thereby send out of the country money that should be distributed at home—a condition that should be changed and changed this year. that should be changed and changed this year.

A Test of Fuel Oils

By P. J. O'GARA. Pathologist and Special Meteorological Observer U. S. Weather Bureau, (Cintinued from Yesterday.)

Tables of Comparative Tests. In the following tables will be found the burning time per hourr of one gallon of each one of the fuels used, together with the percentage of soot and residuum left. Each type of pot was filled to its full capacity, is given up. This explains why in the later hours of the morning the temand the total elapsed time of burning noted. The quantity of oil burned perature increase in an orchard over that of the outside temperature is divided by the elapsed time in hours gave the average time required to burn one gallon of fuel, which, for the orchardist, is the standard of measure in orchard heating. In order to find the number of pounds past three years by this office it has been shown that this difference in consumed per hour, divide the weight of one gallon by the time required temperature may be all the way from 25 to 50 per cent, and actually to see. It is worth riding from the to burn a gallon. It will be seen that for most of the fuels burned in compares with the burning rate of the oil in the pot as determined by the common or lard pail types, or their near relatives, the quantity burned direct experiment. We have a mass of data which show that with the per hour is not far from one and three-fourths to two pounds per hour. same number of pots burning and the atmospheric conditions remaining However, when these types were used with a soot arrester the burning the same a difference of 5 to 6 degrees between the temperature in the time was considerably increased and the consumption per hour very much decreased. If it is desired to get the approximate number of heat units pots were lighted, but later on when one-half to two-thirds of the fuel generated per minute, divide the calorific power of a gallon of the oil by had burned the difference dropped to 2 to 3 degrees. We can easily the total number of minutes required to burn a gallon. It must be understand now why this is true of a type of pot such as the lard pall remembered that the total burning time as obtained is an average of type. With such types as may be regulated or which may have a constant several burnings. This average by no means indicates the rate at which burning surface or constant ratio of depth to surface the results are quite the fuel is consumed in many types of pots. Some very interesting experi-different. The only conclusion that one may come to is, if the simple ments were made to determine the rate at which the oils are burned, lard pail or Bolton type of the one-gallon size is used, that a sufficient and it was found out that the fuel consumption per unit of time when number of pots should be had as a reserve to be lighted when the natural the pots are first lighted is much more rapid than when the oil is nearly drop comes and which is due to the construction or form of the pot. In consumed. For each type of pot, as well as each fuel oil, rating curves any other type of pot which can be regulated, if allowed to burn without were drawn showing the actual rate of oil consumption. These rating regulation, the same thing will happen to a greater or less extent, decurves also show the rate at which heat is given off. At another place pending upon the depth of the pot as compared with the area of the the method of obtaining these curves will be explained. It will be shown opening. Shallow pots are necessarily less affected than those in which why it is that when heat is most needed there seems to be a falling off the ratio of depth to top diameters it too large. To sum the whole matter bout at the National Sporting club of the amount of heat given out by the smudge pots, although they may up, it may be said that the rate of fuel consumption should be such that here. Kaufman was knocked down be burning. Very often we have heard fruit growers say, "I could not there is no marked difference in the amount of heat given off or, which keep up the temperature at 6 a. m., just when I needed the heat most." is the same thing, the amount of fuel consumed, in a given unit of time, We will try to explain why this is.

or rather fuel consumption, in the common lard-pail type was worked out. It was shown that the rate of fuel consumption in pots of the same type burning double the quantity of oil in a unit of time may not be the best is not in direct proportion to the diameters of the top of the pots or areas We will understand this last statement better after inspecting the following of the surface of the oil exposed to the air. With clean pots burning the tables: same oil under the same conditions it was shown, for instance, that the time required to consume one gallon of fuel oil in the one-gallon pot is to the time required to consume one gallon in the two-gallon pot inversely as the square of the diameter of the one-gallon pot divided by the square of the depth is to the square of the diameter of the two-gallon pot divided by the square of its depth. It must not be understood that this law will give the exact burning time of the type of pot which is too much out of proportion as to diameter of top and depth, but for the Bolton or lardpail type it seems to be fairly accurate with clean pots. The burning time Bolton Two Gallon may be calculated for a unit quantity within a small percentage of error For instance, the burning time of a gallon of oil in a two-gallon Bolton was found by experiment within ten minutes of the actual elapsed time. Naturally, it is very difficult to keep conditions always the same in the the hunters' and anglers' licenses this field. Slight wind currents will have a great deal to do with the time

TABLE 1. part of this week. Heretofore each Common Lard-Pail Heater Without Soot Arrester, Capacity One Gallon.

Fuels-	Burning Time of One Galion.	Per Cent Soot and Residue.	Remarks.
Stove distillate Slop distillate Richmond oil Crude oil	3 hours, 47 min. 3 hours, 50 min.	1.20 per cent. 0.81 per cent.	Small amount of soot left. Soot and residue wouldn't bur Soot and residue wouldn't bur Hard asphaltum residue: wou not ignite after cooling.

Companies of the property of the companies of the compani

TABLE 2. Common Lard-Pail Heater With Soot Arrester, Capacity One Gallon,

Fuels-	Burning Time of the Gallon.	Per Cent Soot , and Residue.	Remarks,
Stove distillate Slop distillate	6 hours, 50 min 5 hours, 42 min	0.00 per cent. 19.36 per cent.	Small amount of soot. Took off arrester; burned t he
Richmond oil	7 Junes, 22 min	18.50 per cent.	Removed arrester, burned 30 min.; 8.15 per cent residue.
Crude oil	& hours, 26 min	138.72 per cent.	Residue would not ignite.

TABLE 3. Bolton One-Gallon Heater Without Soot Arrester, Capacity One Gallon.

Fuels-	Burning Time.	Per Cent Soot and Residue.	Remarks	
Stove distillate Stop distillate Richmond oil Richmond oil	4 hours, 7 min.	5.60 per cent	Small amount of soot, Residue would not burn. Residue would not burn. Hard asphaltum; would inf nite an cooling.	iz

TABLE 4.

Fuels-	Burning Time of One Gallon.	and Res	idue.	Remarks.
Stove distillate Slop distillate	5 hours, 14 min. 6 hours, 57 min.	0.00 per 19.00 per	cent,	Burned with fittle most Removed arrester, tighted burned I hr. 45 min. tonge
Richmond oil	6 hours, 7 min	27.55 per	cent	With 2.5 per cent residue. Removed arrester: lighted burned 1 hr. 55 min. longer
Crude oil	4 hours, 58 min.	34.46 per	cent.	with 5.5 per cent residue. Removed arrester; lighted with

By comparing the common lard-pail heater without soct arrester with the Bolton one-gallon heater without soot arrester, it will be seen that there is practically no difference in the burning time of each kind of oil Anjou pears, 4 tier fancy, \$2.24; 5 tier fancy, \$2.329; It will be seen that the total burning time of the stove distillate in each case varied only ten minutes in favor of the common lard-pail. With the Bose pears, 4 tier fancy, \$2.56; 5 tier fancy, \$2.54; 4 slop distillate the total burning time varied ten minutes in favor of the lard-pail. With the Richmond smudge oil the burning time was in favor of the Bolton heater 27 minutes. With the crude oil there is a difference of 15 minutes in favor of the common lard-pail. The percentage of residue left was the same in each case, excepting the Richmond smudge oil, Jonathan apples, fancy, \$1.84 to \$1.40; choice, \$1.33 to in which the common lard-pail has an apparent advantage of 2.8 per cent. less residue. As the fuels were all taken from the same levels for each set of experiments, no difference could arise from the standpoint of difference in gravity.

We will leave the reader to compare the common lard-pail heater with the soot arrester and the Bolton one-gallon heater with soot arrester. It is very evident that if there is any distinct advantage in burning time it is largely with the common lard-pail. Furthermore, the present of soot and residue left unburned is also in favor of the lard-pail heater, with the exception of the crude oil, where the difference is not great. Right here it should be remarked that the arrester simply cuts down the burning area and, therefore, lengthens the burning time. When the pots are first lighted combustion is fairly rapid and compares favorably with the open pot without arrester; but after a short time the arrester tends to become have stated at the very beginning of this paper that a unit quantity of any In detail, there were 54 cars of alfalfa hay, 540 tons, fuel oil is capable of generating just so many heat units in combining soot arrester. With the heavier oils, the soot arrester actually increases Every bit of this feed should have been raised in the the burning time per un't quantity much more than double, as compared with the pot without arrester. Take, for instance, the crude oil in the Bolton pot as well as the common lard-pail. After burning between five oil left unburned; not that the oil would not burn under normal conditions, To reap the greatest harvest it is necessary to irri- but because the clogging effect of the arrester put the flame out. In the the removal of the soot arresters. A sufficient number of burnings were made in each cary to warrant the averages as given in the tables. I may The balance of trade is against the valley in an off also say that the rating curves also show just how the oil burned in each compare the amount of residue left we will see that there was only one fuel, namely, the stove distillate, which gave the full value of the fuel in generated heat, or as nearly so as this crude type of apparatus will permit. In every other case the percentage loss ran all the way from 10 per cent to nearly 39 per cent. It is hardly possible that only a little more than 60 per cent of oil actually burned could give up 90 per cent of the total calorific value of the gallon. Even in dividing the total quantity burned within a given time by the time required to burn, we merely get the average rate of burning which is far from being the true rate. We will show later on that in the lard pail and Bolton types of heaters without arresters the burning rate during the last hour and more is a little more than 50 per cent of the burning rate when the pots are first lighted. Since this is true, when the pots are burning low only 50 per cent as much heat less than at any time during the night, providing the conditions of air movement are the same. In some actual observations made during the orchard and that outside of it could be maintained for a time after the Furthermore, the rate of burning should be such that the fuel may b During the course of the experiment a very interesting law of burning, used economically. It is very much better to have a large number of small fires than to have a few large ones so that a large pot capable of

TABLE 5.

Bolton Two-Gallon Heater Without Arrester			r. Capacity Two Gallons.	
Fuels-	Burning Time of One Gallon.	Per Cent Soot and Residue.	Remarks.	
Hove distillate Hop distillate Richmond oil Trude oil	hr. 30 min. hr. 434 min. hr. 424 min. hr. 524 min.	1.00 per cent. 2.50 per cent.	Burned with very little soot. Residue mostly metallic. Residue mostly asphaltum. Asphaltum, would not burn.	

TABLE 6.

Fuels-	Burning Time of One Gallon.	Per Cent Soot and Residue.	Remarks.
Stove distillate	hrs., 42% min.	1.50 per cent.	Burned with considerable soot
Blop distillate	hrs., 42% min.		Heavy soot with residue.
Blehmend oil	hrs., 21% min.		Heavy soot with residue.
Crude oil.,	hrs., 52% min.		Mass of soot and asphaltum

Not having any two-gallon lard pail type pots at hand, the Bolton two-gallon heater was used. A band of thin sheet iron was bound around the holes at the top, virtually converting it into a lard pail heater of the two-gallon size. As the results were so nearly like those given in Tables 5 and 6, they are omitted here. As a matter of fact, the comparison would be just about the same as was given in discussing the one-gallon types.

> (To Be Continued.) programment and the contract of the contract o

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