

The Bend Bulletin

DAILY EDITION
Published Every Afternoon Except Sunday.
By The Bend Bulletin (Incorporated)
Entered as Second Class matter January 5, 1917, at the Post Office at Bend, Oregon, under Act of March 3, 1879.

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An Independent Newspaper, standing for the square deal, clean business, clean politics and the best interests of Bend and Central Oregon.

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By Mail	
One Year	\$5.00
Six Months	\$2.75
Three Months	\$1.50
By Carrier	
One Year	\$6.50
Six Months	\$3.50
One Month	\$0.60

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TUESDAY, JULY 13, 1920.

USING WOOD WASTE

While we are hunting for new industries for Bend, the forest products laboratory maintained by the government at Madison, Wis., is seeking to discover how wood waste may be utilized. Since one of the most abundant of local materials is wood waste, it seems possible that it might be well to keep in touch with the work of the laboratory.

One of its latest investigations has been as to the practicability of using wood alcohol for motor fuel. This, a recent bulletin from the laboratory says, seems to be entirely out of the question because of its high price, but it may be possible to manufacture grain alcohol from wood and use it as a substitute for gasoline. There seems to be confusion in terms here, but this is what the bulletin says.

Coniferous sawdust is the material used along with other forms of waste. One ton will yield from 15 to 20 gallons of 190 proof spirit, making the raw material cost about 2 cents per gallon of return in a plant where the waste is figured as worth from 30 to 50 cents per ton.

A number of plants have tried to produce this alcohol, but so far one only has been successful on a commercial basis. If one somewhere, why not one in Bend?

Poor Packing Causes Waste.

Few persons considering the cost of living realize that more than \$700,000,000 is added to the cost of their food, clothing and other necessities each year because of the waste caused by damage, unscientific loading and the tremendous cost of packing these commodities. The railroads and the shippers realize it, as shown by their conducting a campaign to reduce to the minimum the waste through damage, and to utilize to the utmost the capacity of freight cars, which are hauled half empty.

These are some of the items which enter into this waste estimate—damage and theft, \$100,000,000; wasted lumber used only once in packing cases, \$240,000,000; empty car space, \$209,000,000; and the staggering cost to the railroads of hauling half empty cars more than 6,000,000,000 miles, \$137,000,000. It is estimated that from 10 to 25 per cent of the cost of food-stuffs goes to pay for the crates which are thrown away.

LIVE APART FROM THE WORLD

People of Northern Korea as Ignorant as Were Their Ancestors Thousands of Years Ago.

Many of the natives in the north of Korea have never seen a white man. A bulletin of the National Geographic society says that they are living among the hills today much as did their ancestors centuries ago, worshipping mythical gods in the rocks and trees on every mountaintop, keeping their women in semi-slavery, and dying in ignorance of the world beyond their narrow confines. After the Russo-Japanese war of 1904 the country was opened to foreigners, and the exploration of the northern part progressed by leaps and bounds, until the only extensive unknown area lay along the north central boundary, between the Tumen and Yalu rivers.

The old walls of the ancient city of Musan bear five centuries of history. Few white men have wandered inland to the gates of this city, and except for a few stragglers it lies unknown to the western world. The great central palace or reception hall, remains intact, and close by, in palatial ruins, is the temple guest-house. The smaller public buildings, the gates, the watch towers and, most of all, the walls themselves, have their own peculiar fascination, telling their own story or adding a chapter to that of its neighbor.



The Pelican

Some pelicans around me sail, as I wind up my lyre, that I may earn a slice of kale, to buy a rubber tire. The pelican is most absurd, it has no warbling skill; it is a bonehead sort of bird that largely runs to bill. It catches fish before my door, by every artful means, instead of going to the store and buying canned sardines. It hangs around in my front yard, close by its feeding place, and doubtless thinks an old fat bard should sing its charms and grace. I've witnessed many tinhorn fowls in my long, sad career; I've gazed on buzzards, crows and owls, in countries far and near; I've looked on roosters large and small, on mudhens and such things; the pelican outclasses all, for homeliness, by jings. And yet it thinks it's pretty fine, as graceful as a bride; it stands before this hut of mine, and seems to point with pride. Along the beach, and to and fro, I watch its vain parades; as silly as an ancient beau who ogles blooming maids. It thinks it is a shining star, pure radiance to spill; but, like the chaps who fix my car, it mostly runs to bill.

NEW FALL HATS IN EMBROIDERED FELT



This chic fall creation is of hand-embroidered felt, the brim alone being the field for design. A rather narrow band encircling the high crown and bowed in front. The ends of the ribbon finished with either little balls or tassels. The under side of the brim is faced with delicate-tinted silk, preferably pink or blue, giving a beautiful cast of reflected light upon the face.

Conservative Kilkenny Castle.
Some of the rooms in Kilkenny castle are almost exactly as they were 800 years ago.

DANCE WITH THE LEGION
Cole McElroy's Jazz Band returns to Bend after an extended eastern tour to play at the Gymnasium all week, July 19 to 24, under auspices of The American Legion. Lots o' pep.
Adv.

Awful Possibility.
Edward was talking cannibals to his sister. Rather frightened, the little sister said: "Oh, I hope they don't come here. If they do, they'd eaten us up and then we won't have ourselves."

Qualities That Count.
The highway of life may be rough and full of obstruction; one may be weary of the heat and the dust; but the courage that comes of an honest heart and a clear conscience will find for the wayfarer green arbors of rest and cooling springs whereto to quench his thirst.—Georgia May Cunningham.

Bear in Mind Fishermen-Campers!

Every tree destroyed by forest fire reduces Central Oregon's wealth just that much.

Preserve the trees by being careful about fire. Protect them by spreading the gospel to all others.

The Brooks-Scanlon Lumber Co.

Demanding of merchants their highest priced wares, whether you can afford them or not, is fuel for the profiteer. Even with present prices, proper judgment can be exercised in buying and money saved. High prices is no excuse for extravagance.

The Shevlin-Hixon Company.

Canada's Water Power.
It has been estimated by engineers that the available water power in Canada, both developed and undeveloped, is capable of generating 18,832,000 horsepower, of which 7,308,100 horsepower are available in populated areas.
The utilization of this water power is rapidly increasing. During last year the installation of plants was completed with a total of 64,400 horsepower. Developments now under construction will produce 370,000 horsepower; and projects contemplated for the near future will add 750,000 horsepower. The waterpowers in Canada already developed have a capacity of 2,493,000 horsepower. The "white coal," that for ages had been running to waste, is now being made to turn the wheels of industry and to light Canada's streets and dwellings.

Saw Son Made President.
Mrs. Ellen Garfield was the first woman who ever saw her son inaugurated president of the United States. Washington's mother was living in Frederickburg, Va., when the father of his country was inaugurated, but she did not witness the ceremony, which took place in New York.

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Nature's Adaptation.
British mine-rescue investigators have made the curious discovery that while the average man is stimulated by the oxygen of their apparatus, no effect on miners is apparent. It is suggested that long work in a close atmosphere has given the lungs such full use of the available oxygen that an excess has no influence.

For Garden Culture.
The bloodroot, common in rich woodlands where it has not been exterminated by professional root diggers for its reputed medicinal value, says the American Forestry Magazine, is in bloom with the crocus and readily adapts itself to garden culture.

"Shin Plaster" Currency.
The name "shin plaster" was applied to all forms of currency issued by the United States government during the Civil war, but more especially to the notes for less than \$1. They were and are redeemed by the government on presentation. Several million dollars of them are still outstanding and are carried on the national treasury books as part of the debt bearing no interest.

Napoleon's Height.
Historians say that at the time of his coronation Napoleon Bonaparte was a little under five feet, three inches, but he became stooped later in life and at his death measured scarcely more than five feet.

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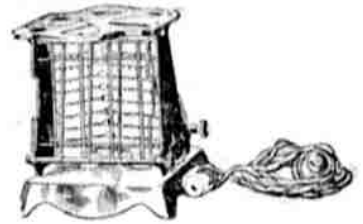
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Bend Water Light & Power Co.

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