

**Say It**  
If your doctor says this is all right, then say it over and over again.

Headaches, Biliousness, Constipation, Ayer's Pills, Sugar-coated, Easy to take, Don't forget.

**TIMBER CULTURE A GOOD THING**

Preservatives and Processes in the United States. (Continued from Yesterday.)

Each of these processes have been developed which involve the compression and expansion of the air in the wood structure to expel some of the expensive creosote, leaving only a film along the cell walls. The amount of oil left in the timber is reduced, and in consequence the cost of the treatment is less. In other cases zinc chloride and creosote are mixed together and injected into the timber in the form of an emulsion, the object being to reduce the cost of the treatment and to prevent the zinc chloride from leaching out of the timber. Sometimes the timber is impregnated with zinc chloride, and only a narrow outer layer is filled with creosote; or again, glue and tannin are employed in the effort to plug up the outer wood cells, and so keep the salt in the interior.

**The Saving in Dollars and Cents.**  
No process to preserve timber can come into use unless it is certain that the outlay for the treatment will be more than offset by the longer service of the treated timber. It is difficult to give a general example of the saving effected by treating certain timbers with preservatives, since it depends so largely upon local conditions and the class of timber. The following examples of the saving which under certain circumstances can be effected by proper preservative treatment are, however, typical, although they may not apply to other localities and to other kinds of timber without some modification:

An untreated loblolly pine fence post costs about 8 cents, or, including the cost of setting, 14 cents. Its length of life in this condition is about two years. Compounding interest at 5 per cent, the annual charge on such a post is 7.53 cents—that is, it costs 7.53 cents a year to keep such a post in service. If given a preservative treatment, which costs about 10 cents, the length of life of the post is increased to about 18 years. The total cost of such a post, set, is then 24 cents, which, compounded at the above interest rate, gives an annual charge of 2.04 cents. Thus the saving due to treatment is 5.49 cents a year, assuming that there are 200 posts per mile, there is a saving each year of every mile of fence of a sum equivalent to the interest on \$219.60.

The saving due to treating railroad ties is also worthy of consideration. A loblolly pine tie untreated is worth about 30 cents, and its length of life in this condition is about five years. To this first

cost should be added the cost of laying, which is about 20 cents. The annual charge figured as above is then 11.52 cents. If treated it will last for about 12 years. Its cost of treatment is about 35 cents. A treated tie in the track, therefore, costs about 85 cents. Compounded at 5 per cent, as in the above example, its annual charge is 9.48 cents. The saving per year is therefore 2.04 cents per tie. Assuming 2,880 ties per mile of track, the saving due to treatment alone amounts to \$58.75 per mile, which corresponds to an investment of \$1,175 per mile.

Assuming that the cost of an untreated oldfield or loblolly pine pole, including hauling and setting, is \$5, and that it lasts five years—a fair estimate for many portions of the United States—the annual charge, compounding interest at 5 per cent, amounts to \$1.15. In other words, it costs the owner \$1.15 a year for every such pole in his lines. This corresponds to a capital of \$23 invested at 5 per cent interest, or, for a mile of 40 poles, to \$20. Again, assuming that the butt of such a pole can be treated for \$1, the first cost of the pole, set in the ground, is \$6. The treatment may reasonably be expected to secure a service from the pole of 20 years, instead of five years when untreated. Thus, the annual charge on the treated pole, with the same rate of compound interest, is only \$0.48 per pole, which corresponds to an investment of \$9.60; or 384 per mile, as compared with the \$920 per mile in the other case. Thus during the life of the treated pole a yearly saving of the interest on \$536 will be effected for every mile of line.

It might be said that it is not positively proved that the treated poles will last 20 years, and that it will be necessary to wait until the poles are finally removed before the length of their service can be determined. A sufficient answer to this argument is that treated poles need to last only 1.6 years longer than untreated poles in order to justify the cost of treatment. Moreover, there is abundant evidence to show the long life of creosoted wood. Even in this country there are many examples of poles and other timbers creosoted 20 and even 30 years ago, which today are apparently as sound as when first set in the ground. In Europe, where wood preservation is an older industry, the results are still more marked. There have been failures, but in every instance they can be traced to incompetent or fraudulent work, insufficient impregnation, improper preparation of the timber, or some similar cause.

**What Wood Preservation Can Do in the Future.**

At the present rate of consumption the exhaustion of the supply of structural timbers in the United

States is a thing of the very near future. Moreover, the cost of fence posts is an ever increasing burden upon the farmer and stockman. In the case of structural timbers telephone poles will serve as an example. Statistics gathered by the Forest Service show that in 1906 more than 3,500,000 telephone and telegraph poles were cut. This includes only poles 20 feet and over in length, and ignores the far greater number of poles and posts of smaller sizes. Of the poles cut, at least 40 per cent, or nearly 1,500,000 were either of white cedar or of arbutus.

Under average forest conditions it requires more than 190 years to grow a 30-foot cedar pole. The average life of such a pole, when set in the ground in its natural state, does not exceed 15 years. In other words, in order to meet even the present annual consumption there must be nearly 13 trees growing in the forest for every 30-foot cedar pole standing today. A study of the rates of growth and the durability of other kinds of wood used for other purposes—ties, mine props, piling etc.—shows that the consumption of structural timber greatly exceeds its production. Yet relief can be had in prolonging the length of service of the timber now being placed in position. Most of the cross-ties placed in the track today must be renewed within eight years. But if their life can be lengthened to 15 years the benefits of the preservative treatments are plain. It is estimated that 150,000 acres are required each year to grow timber for the anthracite coal mines alone. The average life of an untreated mine prop is not more than three years. By proper preservative treatment it can be prolonged by many times this figure. Poles which in ten or 12 years, or even less, decay so badly at the ground line that they have to be removed can, by a simple treatment of their butts, be made to last 20 or 25 years. The same is true of fence posts and other timbers exposed to direct contact with the soil. Sap shingles, which are almost valueless in their natural state, can be easily treated and made to outlast even painted shingles of the most decay-resistant woods. Thousands of dollars are lost every year by the so-called "bluing" of freshly sawed saw-wood lumber. This can often be prevented by proper treatment and at a cost so small as to put the method within the reach of the smallest operator. Millions of feet of insect and fire-killed timber in the West are standing untouched in the forest. Under present conditions this timber is not only useless, but is an actual detriment to the forest. Much of this dead wood possesses all the requirements of high-grade structural timber, with the single exception of durability. Often where dead timber is most abundant there is an almost complete absence of the naturally durable kinds of wood, timber for structural purposes—ties, mine timbers, poles, posts, etc.—must be transported long distances at heavy expense. The thorough seasoning of several years has strengthened the dead wood and put it in an excellent condition for treatment. Fortunately, most of it is of a kind which readily absorbs the liquid preservatives, and so is well adapted to successful impregnation. Therefore, expensive pressure plants are, in most cases, unnecessary, and the cost of erecting and operating a small open-tank treatment. Fortunately, most of it is the South the cheap and abundant loblolly pine, one of the easiest of all woods to treat, can by proper preparation be made to take the place of the high-grade longleaf pine for many purposes. Black and tupelo gums and other little-used woods have a new and increasing importance because of the possibility of preserving them from decay at small cost. In the Northwestern and Lake States are tamarack, hemlock, beech, birch, and maple, and the red and black oaks, all of which by proper treatment may help to replace the fast-diminishing white oak and cedar. In the States of the Mississippi valley the pressing fence-post problem may be greatly relieved by treating such species as cottonwood, willow, and elm.

**Born in Iowa.**  
Our family were all born and raised in Iowa, and have used Chamberlain's Colic, Cholera and Diarrhoea Remedy (made at Des Moines) for years. We know how good it is from long experience in the use of it. In fact, when in El Paso, Texas, the writer's life was saved by the prompt use of this remedy. We are now engaged in the mercantile business at Narcoossee, Fla., and have introduced the remedy here. It has proven very successful and is constantly growing in favor.—Eugis Bros. This remedy is for sale by Dr. Stone's drug store.

**New Notaries.**  
J. W. DeGraff, M. E. Fowler, Portland; H. A. Sonne, Baker City.

**WANT ADS--QUICK RETURNS**

**FOR SALE**  
For Sale—Good, almost new hay baler. Can be seen at Capital Soap Works, 1230 Ferry street. Will very cheap. 6-18-1mo

**Automobile For Sale**—First class, 35-horse power, 5 passenger Stoddard-Dayton touring car for sale cheap. Owner will guarantee car. Enquire at Journal office.

**For Sale**—First-class carpet paper at this office, 25c for a big roll.

**Farm and City Property**—Our lists of desirable properties is too large to specialize. Yerex Bros. Co., 373 State street. tf.

**For Sale**—New 6-room house on Market and Thirteenth. All conveniences. Will sell cheap. Address C. H., Journal office. tf.

**There is a Demand**—For properties conveniently located which may be purchased on installments. If you have one of merit, either city or country, to be sold in this manner at market value, let me know about it. Customers are now waiting to close deals. Paul M. Sims, Main 729, 222 N. Commercial.

**FOR SALE.**  
640 Acres—Located 3 miles from good, thriving town, close to Salem. 240 acres under cultivation, 75 acres timber, balance pasture. 1 8-room house, 1 5-room house, barn 54x92, will hold sufficient feed for 2 years, other outbuildings; school house on the place. Stock consisting of 40 head good cattle, 5 head horses, 10 hogs, and wagons and implements goes with place, all for \$40 per acre. Good terms may be had.

15 Acres—Located in the famous Rosedale district, 11 acres under cultivation, 3 acres orchard consisting of prunes, pears, apples and cherries. Raspberries and strawberries. About 8 acres in oats and vetch, balance pasture. 5-room house and barn; price \$2250.

20 Acres—Located 6 1/2 miles from Salem, all under cultivation except a 1/2 acre of timber. Soil, a rich black loam, no gravel nor white land on place. A 20x26 house and a new 24x32 barn, also new granary 14x16. Good family orchard; price, \$2250. Good terms can be had.  
SALEM INVESTMENT CO.  
432 State street.

**LOGGERS.**  
Carpenters Union No. 1065—Local Union No. 1065 of Carpenters and Joiners of America meet every Saturday evening at 8:00 p. m. in Hearst hall, 420 State St. A. W. Dennis, Rec. Sec.

Foresters of America—Court Sherwood Foresters, No. 19. Meets Saturday night in Holman hall, State street. Waldo Miller, C. R.; J. C. Perry, financial secretary.

Central Lodge No. 18, K. of P.—Castle Hall in Holman block, corner State and Liberty streets. Tuesday of each week at 7:30 p. m. Oscar Johnson, C. C.; E. B. Anderson, K. of R. and S.

Modern Woodmen of America—Oregon Cedar Camp No. 5246. Meets every Thursday evening at 7 o'clock in Holman hall. W. W. Hill, V. C.; F. A. Turner, clerk.

Woodmen of World—Meet every Friday night at 7:30, in Holman hall. O. L. Darling, C. C.; P. L. Fraser, clerk.

Lincoln Annuity Union.—Sick, accident and pension insurance; \$2,000,000 pledged; every claim paid. Good agents wanted. J. H. C. Montgomery, supreme organizer. Box 432 Salem, Oregon. R. B. Ryan, secretary, 546 State street.

**LIVERY AND FEED STABLES**  
Livery and Feed Stables—Old Post office Stables, at 254 Ferry street between Commercial and Front streets. Telephone 135. Some of the finest livery in the city can be found here. Dick Westcott proprietor. 10-1-1yr

**SASH AND DOOR FACTORIES**  
Frank M. Brown.—Manufacturer of sash, doors, mouldings. All kinds of house finish and hard wood work. Front street, between State and Court. Make all complaints at the office.

**BUTTERNUT BREAD.**  
It is worth more than any other bread yet the price is no higher for sale at your grocers'.  
CALIFORNIA BAKERY,  
Thomas & Cooley, Props.

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Louisa Noodle House—Ferry street, near High. 6-5-1mo.

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Concrete Work—Get my prices on sidewalks, curbs, septic tanks and cement work of any kind. All work guaranteed first-class. Mr. work guaranteed first class. M. July 24-tf.

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Butts & Wenderoth—Fine wines, liquors and cigars. We handle the celebrated Kellogg and Castle whiskeys. Cool and refreshing beer constantly on draught. South Commercial street. 9-3-1yr

Enlarged—Our meat market on E. 1st State street has been doubled in size and we are better prepared than ever to serve customers. Prompt service and the best of meats our motto. Call or phone 199. B. E. Edwards Meat Co.

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Theo. M. Barr—Plumbing, hot water and steam heating and tinning. 164 Commercial street. Phone Main 192. 9-1-1yr

M. J. Petzel—Plumbing, steam and gas fitting. Successor to Knox & Murphy, 226 Commercial street. Phone Main 17.

**WANTED**  
Wanted at Once—From \$100 to \$500, the best of collateral security to offer. Address G—10, Journal office. 6-11-tf

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Cummins Bros.' Transfer Company—All kinds of transfer work done. Furniture and pianos boxed ready for shipment. Prompt service is our motto. Stand and office at 253 South Commercial street. Phone 210. Residence Phone 988

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A Busy Mollifier for Busy People. Brings Golden Health and Brandy Vigor. A specific for Constipation, Indigestion, Liver and Kidney Troubles, Pimples, Eczema, Impure Blood, Bad Breath, Stomach Disorders, Headache and Backache. It's Rocky Mountain Tea in tablet form. It's made in a box. Genuine made by HOLLISTER'S DRUG COMPANY, Madison, Wis. GOLDEN NUGGETS FOR SALLLOW PEOPLE

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A SAFE, CERTAIN RELIEF FOR SUPPRESSED MENSTRUATION. RIVER KNOWN TO FAIL. (Beds) Best! Ready Relief. Genuine. Guaranteed. If you are suffering from any of the above named ailments, call for a box of these pills. They will cure you. If you are suffering from any of the above named ailments, call for a box of these pills. They will cure you. If you are suffering from any of the above named ailments, call for a box of these pills. They will cure you.  
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**Are You in the Market for Some Good Buys?**

375 acres 4 miles from Salem, good house and barn, 200 acres in cultivation. \$31,975.

20 acres at Fruitland, 13 acres in cultivation, balance timber and pasture, good spring, 5-room house, new barn, 2-acre apple orchard which netted \$200 last year. Price \$2100.

Modern 5-room cottage on Court street, city water, sewer, etc. Price \$1600.

Farms For Any Purpose—Any number of acres to suit, look over our lists before buying, all our buyers have been well satisfied, we can please you.

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373 STATE STREET.

**FOR SALE.**  
Grain, Stock, Dairy and Fruit Farms—Some of the very best in the valley.

515 Acres—340 under cultivation in crop, balance timber and good pasture, spring water all year. An ideal stock or dairy farm; well fenced; good house, 9 rooms, barn and granary; good orchard. This is a snap, only \$37 per acre; adjoining land held at \$40 to \$60 per acre.

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Houses and Lots—In all parts of the city. Lots \$50 and up, houses and lots \$600 and up. We make a specialty of close-in property.

Modern House—7 rooms, 3 blocks of courthouse, only \$2700.  
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Call and try them. Meals 15c. Board per week \$3.75, also furnished rooms very reasonable.  
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Portland's New and Modern Hotel. Rates \$1 per day and up. European plan. Free Bus.  
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