Railroed Ties and our Ferest Supply.
The renewal of wooden railroad ties on the 200,000 miles of railroad track in the United States causes an enormous
drain upon the forest fires resources of this country. The hardwood ties used in the Eastern states of a road with fairly heavy traffic have a life of only a few years, and the soltwood fir ties used on the middle, western, and southern roods have a usefol life lasting only half
as long. When we remember that the as long. When we remember that the
average number of ties to each $30-$ foot rail is sixteen, it is easy to compate that the total number of ties on all the railroads is about $35,000,000$, and that if the average life of the tie is five years, there must be needed for renewals about 7 , 000,000 ties yearly. The average size of
the tie is about 6 inches in depth by 8 inches in breadth and 9 feet in length, and consequently in each tie there i sbout 36 linear feet of timber. Hence the total annual renewals thronghout the United States must call for the de livery of over $250,000,000$ feet of sawed or hewed timber. Allowing one-thind
for waste, there nuast be some 330,000 , -000 linear feet of timber cut annually from our forests to supply this one item of railrond ties.
In view of these facts particular interest attaches to the statement that the Great Northern Railroad has adopted
in place of the ordinary $6 \times 8$ tie of rect. angular cross section, a tie of triangula section with a face 12 inches in width and a depth to the apex of 7 inches; for in the first place it is evident that there will be a great economy of material in using a tie of a section so much smaller ;
and it will be seen that there is also an economy due to the nise of a tie with a economy due to the use of a tie with a
broader face, since a emaller number will be required to the rail. The ordinary $6 \times 8$ tie has a total croes-sectional area of 48 square inches, wheres the sectional area of the tringgular tie is 42 square inches, which in itself means a
eaving of $41 / \in$ linear feet in each tie. One saving of 4\% linear feet in each tie. One tie is to increase the ultimate bearing of the track system upon the ballated roadbed, and, of course, the increase in the width of the tie trom 8 to 12 inches means an increase of bearing surface of exactly 50 per cent. Consequently the over one-third without any loss of total bearing surface. Probably no such reduction as this will be made, for the reason that the transerarse strength of the triangular tie is not equal to that of the square tie, and the transverse
strength has, of course, to be considered. There is a further and incidental advantage in the triangular section, due to the fact that there is a wedging action of the tie when it is under losd, tending to make it embed itself more securely in the ballast. In other words, it is to a certain extent seli-tamping, adjusting
itself in the ballast automatically, and esving a certuin amount of oversight and labor on the part of the section gange. It seems that the new type of tie has passed the experimental stage, since it has been in use in the terminal yards of the Great Northern Railway at St. claimed that it has shown it self to be more effective under heavy service than the conventional type. If the same results are shown in main line service ander fast and heavy traffic, this very simple expedient will prove to be one has been introduced into American railroad practice for many years past. Big Prune Crop.
With but a few exceptions, the prune trees of Benton are heavily laden with fruit this season according to the Cor-
vallis Times. The exceptions are in the south end of Benton. There the orchards of the Herron Brothers, Hugh Finley and Zierolf Brothers are not as the crop is in no seuse a failure.
To the west and the north, the re ports give assurance of a bountiful crop The yield at the big prune orchard, in particular, is expected to be enormous. Preparations for saving it are on, and in-
clode improvements to the big drier. clude improvements to the big drier.
The latter is the largest concern of the kind on the Cosst if not in the world It has ten tunnels, each 100 feet long, and four feet square, inside. Its inside content is 16,000 cubic feet. For heat and power it is served by two eighty-
horse boilers. It accommodates 3,000 horse boilers. It accommodntes sin , b , perfectly favorable westher conditions, perfiectly favorable weather conditions,
its curing capacity is about 65,000 pounds of fruit every 24 hours. When the weather is damp, as is often the case, drying is retarded, and a much smalier
output is the result. Improvements output is the result. Improvements baved on the experience of past years
are being added to the curing plant this are being added Mathe caring plant this
season, and Manager Johnson with a gang of workmen has already set about the tast.

## JULY CLEARANCE SALE

Below we mention a few of the good things we are offering this month in the way of money savers. Look them over. Perhaps some of them may interest you. At any rate, keep your eye on this space. It is more than likely that you will soon find something that you want and the prices will prove an agreeable surprise.

## Summer Dress Gioods Reduced 33113 Per Cent..

The line is still fairly complete, comprising mercerized cottons, pebbled silkette, Chambray Madras and other seasonable fabrics. Look them over next time you're in the store.

## A Red Hot Special.

We place on sale today about 25 pieces of French Percale. These were ex cellent values at 10 and $121 / 2$ cents a yard. Sale price $7^{1 / 2}$ cents. The percale is fine quality, full width and in every way a notably big value. Test our claim by investigation

## Millinery Reductions.

Our entire stock of fresh, seasonable millinery has been marked down to bed rock prices. The assortment is still fairly complete and the prices should prove unusually attractive to the purchaser

## Curtains at Cut Prices

We have become slightly overstocked on Ecru Lnce Curtains and have therefore marked every pair of Ecru Lace Curtains down to an exceedingly low price. Investigate this while the best of the lot are yet unsold.

## Ladies' Tan Shoes.

We have taken every pair of Ladies' Tan Shoes in the house including values up to $\$ 3.50$ and marked them at the ridiculourly low figure of $\$ 1.50$ per pair. We want to clean up before fall-that's the whole story. Look into this. The prices will do the rest JOSEPHSON'S

Roseburg,
Oregon.

Buy one of those fine
Morris Chairs we are showing and comfort and satisfaction is sure. Also a splendid line of Rockers.
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Lounges that are up-to-date.
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