

PREVENTION OF SAP-STAIN IN WHITE-PINE.

TESTS BY STATE FOREST SERVICE.

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(Concluded.)

TABLE 2 shows that none of the representative boards in the close-stacked treated pile showed stain until six weeks after the formation of the stack, when one of the boards was found to be lightly stained. During the next fortnight, however, the remaining representative boards all developed light stain, and from then on until the dismantling of the stack the increase in stain was very slight. The final examination, however, as shown in Table 5, revealed that 35.8 per cent. of the boards were blotched and 48.5 spotted. It was noticed that the boards in the top three layers were all badly stained, and this was probably due to the treating-solution having been washed off by the rain, thus reducing the treated material to the same conditions as experienced in the untreated stack, and making it very liable to attack. A proportion of 9.3 per cent. of the boards was entirely free from stain, and it appears that, had the stack been formed under cover, the staining would not have been severe. The depth of staining in this stack often occurred up to $\frac{1}{2}$ in. in depth. Fig. 6 represents typical staining in the pile.

Table 2.—Occurrence of Sap-stain in Close-stacked Treated Pile.
(Five boards examined.)

| Date. | Sap-stain Occurrence. |
|-------------------|--|
| 1927. | |
| 2nd April .. | Stack formed. |
| 9th April .. | Staining, nil. |
| 16th April .. | .. |
| 23rd April .. | .. |
| 30th April .. | .. |
| 7th May .. | .. |
| 14th May .. | One board slightly spotted. |
| 21st May .. | No increase in stain; timber still of good appearance; two boards lightly stained. |
| 28th May .. | Four boards stained (one board unable to be removed), the stain appearing in streaks and blotches. |
| 2nd July .. | No increase in stain. |
| 30th July .. | Slight increase. |
| 27th August .. | No increase. |
| 24th September .. | .. |
| 27th October .. | Very slight increase. |

NOTE.—Overhanging ends of boards commenced to show staining on 16th April.

The history of the staining in the open-stacked untreated pile is shown in Table 3. Two of the representative boards had become