

## SALVADORA

Vessels sometimes tending to be of 2 distinct sizes, with medium sized vessels partially surrounded by extremely small, tracheid-like members; mostly in multiples of 2-4 cells and irregular clusters; 2-10 per sq. mm. Perforations simple. Intervascular pitting alternate, very small to minute; pits to ray and wood parenchyma similar. Mean member length 0.13-0.2 mm.

Parenchyma paratracheal, varying from a few cells (scanty) to complete sheaths (vasicentric) round the vessels and often joining with the broad bands of parenchyma that surround and link together the strands of included phloem. Strands of 1-4 cells, fusiform cells often very common. Storied.

Rays up to 3-5 cells wide; less than 1 mm, but usually more than 1 story, high; uniseriate rays usually very few, but moderately abundant in some specimens of *S. persica* Linn; composed of mixed square and upright cells; 8-14 rays per mm. composed entirely of square or slightly procumbent cells that are indistinguishable in tangential sections, but with some more distinctly procumbent cells in one specimen of *S. persica*. With numerous solitary crystals in one specimen of *S. oleoides* Decne. Storied in specimens in which the rays are not characteristically more than 1 story high.

Fibres with simple pits, more numerous in the radial than in the tangential walls. Walls moderately thick to thick. Length about 0.6 mm.

Included (interxylary) phloem of the "foraminate" type present in all the material of *Salvadora* examined; with round to oval strands of included phloem surrounded and commonly linked together by parenchyma.

### *Salvadora persica* L.

Diffuse-porous. Pores in short radial multiples of 2 to 6; medium sized, maximum tangential diameter 120  $\mu$ ; numerous but not crowded. Vessels with simple perforations; pits alternate, very small. Wood parenchyma sparingly paratracheal. Conjunctive parenchyma forming concentric and confluent bands. Rays heterogeneous, consisting of square cells; 1 to 3 cells wide; less than 15 cells high; ray-vessel pitting fine, short oval in outline. Fibres with simple pits. Included phloem of the "foraminate type". (Ilanoth Specimen No. 21)