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The actively secreting glands are produced early in the development of the leaf. The secretion is abundant in the young leaf but ceases in older ones save at the leaf base where glands produce secretion which protects the axillary buds. The glands are really peltate glandular pairs which develop from epidermal cells. The secretion often reaches a thickness of 76 μ . In older leaves the glands cease secreting, the epidermal cells enlarge considerably, and the glands ultimately appear to be sunken between neighbouring epidermal cells.

Stomata continue to develop during the growth of the leaf, but the earlier formed stomata are rendered functionless for a time at least owing to the blocking of their pores with secretion. During the internal development of the leaf, differentiation of the tissues is delayed and occurs only when the secretion becomes less active. In mature leaves there is much water-storage tissue and water-storage tracheides. Numerous branched mucilage cells occur in the palisade region.

In conclusion the xerophytic nature of the plant and especially the leaves is dealt with and the thick secretion is shown to be a preventive of desiccation.

Osborn, T. G. B. "On the Habitat and Method of Occurrence in South Australia of Two Genera of Lycopods, hitherto unrecorded for the State." *Trans. Roy. Soc. of S. Australia*, **42**, 1918.

Isoetes and Phylloglossum were hitherto unrecorded in the South Australian flora. Isoetes Drummondii is recorded in this paper from several localities in S. Australia, where it is of interest because it is seldom submerged. In one locality submergence could not take place. The record of Phylloglossum Drummondii completes its range along Southern Australia. Only one locality is recorded for this plant: National Park, Belair. From three typical areas in this locality, 184 plants of Phylloglossum were obtained and a summary is given of the results of a comparative examination of their roots, leaves, tubers and cones.

"A description is given of the association in which *Isoetes* and *Phylloglossum* occur together. It is regarded as a seasonal swamp developed upon alluvial soil within the formation of sclerophyllous woodland. In South Australia both genera are members of a considerable geophilous element within this association" (summary).

Hamilton, A. A. "Topographical, Ecological and Taxonomic Notes on the Ocean Shoreline Vegetation of the Port Jackson District." Journ. of Proc. Roy. Soc. of N. S. Wales, 51, pp. 287-355.

The floristic region described is in the Port Jackson district, east coast of Australia and runs coastally from Turrimetta Head to Port Hacking, stretching inland a few hundred yards from the Pacific Ocean. The region includes plant formations on strand, headland, sand-dune and hillside. Xerophytism is prevalent and the various xerophytic modifications are discussed; the principal factor affecting the vegetation is the on-shore wind. Many plants are aliens, having spread from ships' ballast dumped on the beach. The species occurring on strand, headland dune, etc., from Turrimetta Head to Port Hacking are set forth with ecological and taxonomic notes.

Cockayne, L. "Notes on New Zealand Floristic Botany, including Descriptions of New Species, etc., No. 2." Trans. N. Z. Inst. 49, 1916, pp. 56-65.

The author continues his series of valuable notes on New Zealand Floristic Botany. The matter falls, for the most part, outside the scope of this JOURNAL, but in the latter portion of this part Cockayne discusses his "Proposed Botanical Districts of New Zealand." "....In the delimiting of a 'district' an attempt has been made to mark off *natural areas*