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Notes on the Silviculture of Hoop Pine.

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Notes on the Silviculture of Hoop Pine.

1. Hoop Pine is the coniferous tree *Araucaria Cunninghamii*, so called after Allan Cunningham, an Australian explorer. It occurs principally in South-Eastern Queensland and North-Eastern New South Wales between the latitudes 25° and 30°, but is found as far north as the top of the Owen Stanley Ranges in Papua. It is confined to the humid coastal regions of the summer rainfall belt.

Notes on Seed Fall, Germination, and Seedling Establishment.

2. Hoop Pine is bisexual (the male and female inflorescences occurring separately), and monœcious (the male and female inflorescences appearing on the same and not on separate trees). The trees, however, are either preponderatingly female or preponderatingly male.

3. The male amenta are in evidence, green and unripe in December, but in January to March they shed their pollen and assume a brown appearance, which gives the foliage of the preponderatingly male tree a brownish tinge. These trees, the cutters say, are hard to bark. The male amenta fall on the soil and form a mulch suitable for a seed-bed. The incipient female cones (thumb-size) appear also in December-March and undergo pollination.

4. The cones are formed towards the summit of the trees, the male amenta down the sides. Crown pollination is effected by the wind.

5. When the thumb-size incipient cones appear, the preceding year's cones are up to hen-egg size (1½ to 2¼ in. or 1 to 1¾ in.) and apparently do not fall until a year later. In such case there are three generations of cones on the tree at the same time—(i.) the mature cones then falling; (ii.) the hen-egg-size cones which fall a year later; and (iii.) the thumb-size cones which fall two years later.