

# Cyclosorus waialele (Flynn) W. H. Wagner

## Family

Thelypteridaceae

## Hawaiian Name

none known

## Synonyms

*Thelypteris waialele* Flynn; \**Christella waialele* (Flynn) D.D. Palmer



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## Habitat

lithophytic, near waterfalls.

## Description

Rhizomes (stems): creeping, 0.25-0.4 cm diam., with scales.

Fronds (leaves): pendent, 7.5-35 cm long , not proliferous.

Stipes (petioles): 1/3-1/5 (rarely 1/2) frond length, not winged, green or medium to dark brown (may be tinged red), glabrous

Vasculature at base of stipe (petiole): two elongate/crescent-shaped vascular bundles.

Blades: pinnate, 3.8-12 cm wide, lanceolate/ovate, elliptic or obovate/oblanceolate, margins shallowly crenate to slightly lobed, with glands .

Veins: prominent, 2 vein pairs uniting to form an excurrent vein to sinuses , not forked.

Pinnae: (10-)15-20 pairs, triangular/deltate or lanceolate/ovate, 1-4 pinna pairs markedly reduced in size .

Rachises (midribs): not winged, medium to dark brown (may be tinged red), glabrous, rarely with hairs . Hairs multicellular (uniseriate), clear/white, sparse throughout.

Costae: glabrous or with scattered hairs.

Sori: round, costal to medial .

Indusia: present, round/reniform.

## Island Distribution

Kaua'i

## Status

Endemic

## Occurrence

Uncommon

## Elevational Range

450-950 m