

(i) *Insects.*

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Blackburn's Sphinx Moth (*Manduca blackburni*)

(1) Critical habitat units are depicted for the Hawaiian islands of Maui, Kahoolawe, Hawaii, and Molokai on the maps below.

(2) The primary constituent elements of critical habitat for Blackburn's sphinx moth include specific habitat components identified as essential for the primary biological needs of foraging, sheltering, maturation, dispersal, breeding, and egg-laying.

(i) Based on our current knowledge of the species, the primary constituent elements required by Blackburn's sphinx moth larvae for foraging and maturation are two larval host plant species in the endemic genus *Nothocestrum* (*N. breviflorum* and *N. latifolium*) and the habitats that support these plants, *i.e.*, dry and mesic habitats between the elevations of sea level and 1,525 m (5,000 ft) that receive between

25 and 250 cm (10 and 100 in) of annual precipitation.

(ii) Based on our current knowledge of the species, the primary constituent elements required by Blackburn's sphinx moth adults for foraging, sheltering, dispersal, breeding, and egg production are native nectar-supplying plants, including, but not limited to, *Ipomoea* spp., *Capparis sandwichiana*, and *Plumbago zeylanica*, and the habitats that support these plants, *i.e.*, dry and mesic habitats between the elevations of sea level and 1,525 m (5,000 ft) that receive between 25 and 250 cm (10 and 100 in) of annual precipitation.

(3) Existing manmade features and structures within the boundaries of the mapped areas do not contain one or more of the primary constituent elements described for the species in paragraph (2) of this section, and therefore, are not included in the critical habitat designations. These features include, but are not limited to: buildings; roads; aqueducts and other

water system features such as pumping stations, irrigation ditches, pipelines, siphons, tunnels, water tanks, gauging stations (section in a stream channel equipped with facilities for obtaining streamflow data), intakes, and wells; telecommunications towers and associated structures and equipment; electrical power transmission lines and associated rights-of-way; radars; telemetry antennas; missile launch sites; arboreta and gardens; heiau (indigenous places of worship or shrines); airports; other paved areas; lawns; and other rural residential landscaped areas.

(4) Critical habitat units are described below. Coordinates are in UTM Zone 4 with units in meters using North American Datum of 1983 (NAD83). The following index map shows the general locations of the 9 critical habitat units designated on the islands of Hawaii, Kahoolawe, Maui, and Molokai.

(i) **Note:** Map 1—State of Hawaii General Locations of Units for Blackburn's Sphinx Moth on Molokai, Maui, Kahoolawe, and Hawaii follows:

