
A BILL FOR AN ACT

RELATING TO THE PROTECTION OF TARO.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF HAWAII:

1 SECTION 1. Hawaii imports eighty-five per cent of its
2 food. In 2011, the department of agriculture pointed out that
3 the State is most at risk for staple starches. Taro (kalo) is
4 the most culturally significant food plant in Hawaii and also
5 one of Hawaii's highest yielding staple starch food crops,
6 producing between ten thousand and thirty thousand pounds per
7 acre per annum under current wetland cultivation practices.
8 Hence, taro plays a critical role in food security for the
9 State.

10 The State produces approximately four million pounds of raw
11 taro on an estimated five hundred to six hundred acres (three
12 hundred eighty acres in commercial wetland taro lands (lo'i))
13 statewide and imports an additional two million pounds or more
14 annually. Collectively this does not meet local demand which is
15 diversifying as value-added producers and consumers become more
16 educated about kalo, poi, and pa'i'ai. This demand is expected
17 to grow as Hawaii moves towards greater local food self-



1 threat of new taro pest and disease introductions from raw taro
2 imports, a critical and necessary step for improving biosecurity
3 control measures and reducing the high costs associated with
4 control efforts.

5 Access to affordable taro lands remains a major challenge
6 for young taro growers striving for success, greater family food
7 self-sufficiency, and community well-being. In 2009, the taro
8 security and purity task force, established under Act 211,
9 Session Laws of Hawaii 2008, found "no logical reason why we
10 should continue to import any type of taro to meet local needs"
11 and provided a series of recommendations for improving taro and
12 taro farmer success. In its 2010 and 2014 reports to the
13 legislature, the task force recommended greater protections for
14 lo'i, including their structural elements, such as terraces,
15 kuauna or paepae pohaku (stone walls), and 'auwai (irrigation
16 ditches) within the boundaries of the State's public
17 conservation districts to help meet food security needs and to
18 support community and cultural resilience in the face of the
19 rising costs of imported food for local families. The task
20 force also found that these key agricultural structures for
21 wetland taro production are frequently destroyed, severed, and



1 built upon due to gaps in land use designations, historic
2 preservation records, planning, laws, and agency policies,
3 making the need for improved taro land protections more urgent.

4 Over the last five years, the taro security and purity task
5 force has documented a strong and growing desire among Hawaii's
6 younger generation of farmers, potential farmers, and community
7 groups, to plant kalo and return to the lo'i on each island to
8 grow food, care for their families, create places of education
9 and renewal, and perpetuate Hawaiian culture.

10 As global warming and sea-level rise continue in the
11 Pacific and Hawaii, existing lowland agricultural sites,
12 particularly lo'i kalo, will disappear or become inundated with
13 brackish water, raising the question of where we will grow our
14 food in the future. At this time, since the State has no
15 measures in place to protect the necessary upland taro-growing
16 lands, we will need to mitigate these changes.

17 Historic, long-fallowed lo'i kalo lands can be found on
18 public conservation lands within most ahupua'a on each island and
19 point to an opportunity for greater food productivity and a
20 chance to address the looming issue of food security in the face
21 of sea-level rise.



1 The taro security and purity task force estimates between
2 five thousand and seven thousand acres of historic lo'i lands may
3 be found within state conservation districts based on maps
4 developed by the office of Hawaiian affairs and department of
5 land and natural resources during the 2014 legislative session,
6 or less than three per cent of all department of land and
7 natural resources lands.

8 There is a compelling interest in preserving wetland taro
9 lands and their supporting structures on public conservation
10 lands under the jurisdiction of the department of land and
11 natural resources for these purposes.

12 Chapter 171, Hawaii Revised Statutes, entitled "Public
13 Lands, Management and Disposition of", outlines the laws for
14 land use specifically and only for public lands. Section
15 171-10, Hawaii Revised Statutes, describes the allowable land
16 uses on public lands. The taro security and purity task force
17 finds that wetland taro lands are highly productive but often
18 classed as marginal under the existing categories of section
19 171-10(1), Hawaii Revised Statutes, relating to intensive
20 agriculture use.



1 The purpose of this Act is to improve protections for lo'i
2 kalo and ancient wetland agricultural structures on undeveloped
3 state-owned or -acquired conservation lands for Hawaii's long-
4 term future food security and well-being.

5 SECTION 2. Section 171-1 Hawaii Revised Statutes, is
6 amended by adding a new definition to be appropriately inserted
7 and to read as follows:

8 "Taro lands" means any undeveloped public lands situated
9 in the land use conservation district pursuant to chapter 205 in
10 wetland taro cultivation prior to statehood, or any undeveloped
11 public lands that were traditional taro lands situated in the
12 land use conservation district pursuant to chapter 205 that
13 retain historic structural evidence of loi kalo, such as auwai
14 irrigation ditches, terraces, or walls."

15 SECTION 3. Section 171-10, Hawaii Revised Statutes, is
16 amended to read as follows:

17 "**§171-10 Classes of lands.** The board of land and natural
18 resources shall classify all public lands and in doing so be
19 guided by the following classifications:

20 1. Intensive agricultural use



1 (A) First class--Lands highly productive of intensive
2 crops such as sugarcane, pineapples, truck crops, and orchard
3 crops.

4 (B) Second class--Lands having medium productivity for
5 intensive crops.

6 (C) Third class--Lands having fair to marginal
7 productivity for intensive crops.

8 (D) Fourth class--Taro lands of no particular productivity
9 determination, but having cultural, social, economic, and food
10 self-sufficiency value if preserved for wetland taro
11 cultivation. District boundary amendments of fourth class--taro
12 lands shall be prohibited. Notwithstanding any law to the
13 contrary, public land classified as fourth class--taro lands
14 pursuant to this section shall not be subject to district
15 boundary amendment.

16 2. Special livestock use

17 (A) First class--Lands highly suitable for special
18 livestock uses such as swine, dairy, and poultry production. In
19 making the determination, consideration shall be given to
20 drainage, climate, topography, proximity to market, and
21 transportation and compatibility to adjoining land use, among



1 other considerations. "Dairy" as used for disposition purposes
2 means a "dry lot" dairy without allowance for grazing.

3 (B) Second class--Lands suitable for special livestock
4 uses, but inferior to those of first class.

5 3. Pasture use

6 (A) First class--Lands having a potentially high economic
7 animal unit carrying capacity and capable of correspondingly
8 high liveweight gains per acre per year, such as, less than five
9 acres per animal unit per year and more than one hundred pounds
10 live beef gains per animal unit per acre per year.

11 (B) Second class--Lands having a potentially medium
12 economic animal unit carrying capacity and capable of moderate
13 liveweight gains per acre per year, such as, five to twenty
14 acres per animal unit per year and twenty to one hundred pounds
15 live beef gains per animal unit per acre per year.

16 (C) Third class--Lands having a relatively low animal unit
17 carrying capacity and producing correspondingly low liveweight
18 gains per acre per year, such as, more than twenty acres per
19 animal unit per year and less than twenty pounds average live
20 beef gains per animal unit per acre per year.

21 4. Commercial timber use



1 (A) First class--Lands of high suitability for growth of
2 merchantable timber having mean annual growth potential under
3 normal forest management practices with yields exceeding amounts
4 such as one thousand board feet per acre, and with location and
5 terrain presenting favorable logging, transportation, and
6 marketing conditions.

7 (B) Second class--Lands of high suitability for growth of
8 merchantable timber having mean annual growth potential under
9 normal forest management practices with yields exceeding amounts
10 such as one thousand board feet per acre, and with location and
11 terrain presenting less favorable logging, transportation, and
12 marketing conditions.

13 (C) Third class--Lands of medium suitability for growth of
14 merchantable timber having mean annual growth potential in
15 amounts such as five hundred to one thousand board feet per acre
16 under normal forest management practices, and with location and
17 terrain presenting favorable logging, transportation, and
18 marketing conditions.

19 (D) Fourth class--Lands of medium suitability for growth
20 of merchantable timber having mean annual growth potential in
21 amounts such as five hundred to one thousand board feet per acre



1 under normal forest management practices, and with location and
2 terrain presenting less favorable logging, transportation, and
3 marketing conditions.

4 (E) Fifth class--Lands of relatively low suitability for
5 growth of merchantable timber having mean annual growth
6 potential less than an amount such as five hundred board feet
7 per acre, and with location and terrain presenting favorable
8 logging, transportation, and marketing conditions.

9 (F) Sixth class--Lands of relatively low suitability for
10 growth of merchantable timber having mean annual growth
11 potential less than an amount such as five hundred board feet
12 per acre, and with location and terrain presenting less
13 favorable logging, transportation, and marketing conditions.

14 5. Quarry use

15 Lands having sufficient quantity and quality of rock,
16 gravel, and sand for purpose of commercial use.

17 6. Mining use

18 Lands bearing sufficient quantity and quality of mineral
19 products for purpose of commercial mining and use.

20 7. Recreational use



1 Lands suitable for use and development as parks,
2 playgrounds, historical sites, natural area, camp grounds,
3 wildlife refuge, scenic sites, and other such uses.

4 8. Watershed use

5 Lands suitable for the use and development as watersheds or
6 for the development of water, and requiring necessary
7 restrictions on other uses.

8 9. Residential use

9 Lands suitable and economically feasible for residential
10 development and use.

11 10. Commercial and industrial use

12 Lands suitable and economically feasible for commercial and
13 industrial development and use.

14 11. Hotel, apartment, and motel use

15 Lands suitable and economically feasible for hotel,
16 apartment, and motel development and use.

17 12. Resort use

18 Lands suitable and economically feasible for resort
19 development and use.

20 13. Unclassified uses



1 Lands not otherwise classifiable under the foregoing
2 sections."

3 SECTION 4. The land use commission, in conjunction with
4 the taro security and purity task force, may create an inventory
5 pursuant to chapter 91, Hawaii Revised Statutes, identifying
6 lands classified as fourth class--taro lands and submit the
7 inventory to the board of land and natural resources for
8 approval.

9 SECTION 5. There is appropriated out of the general
10 revenues of the State of Hawaii the sum of \$ or so
11 much thereof as may be necessary for fiscal year 2022-2023 for
12 the purposes of section 4 of this Act.

13 The sum appropriated shall be expended by the land use
14 commission for the purposes of this Act.

15 SECTION 6. This Act does not affect rights and duties that
16 matured, penalties that were incurred, and proceedings that were
17 begun before its effective date.

18 SECTION 7. New statutory material is underscored.

19 SECTION 8. This Act shall take effect on July 1, 2050.



Report Title:

Classification of Agricultural Lands; Taro Lands; Appropriation

Description:

Creates a classification of agricultural public lands entitled "taro lands". Appropriates funds to the Land Use Commission to create an inventory of lands classified as taro lands.

Effective 7/1/2050. (SD2)

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