
A BILL FOR AN ACT

RELATING TO 'ULU.

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

1 SECTION 1. Hawaiian breadfruit ('ulu) has a long history in
2 Hawaii as an important and consistent food source. This
3 illustrious history includes a period during which breadfruit
4 played a significant role in providing the annual production of
5 millions of pounds of nutritious food that sustained the
6 population across the islands. Research has shown that Kona
7 alone produced fifty thousand to sixty thousand tons of
8 breadfruit per year in what is now the coffee belt. Breadfruit
9 is believed to have arrived in the Hawaiian islands
10 approximately seven hundred years ago. Since its introduction
11 to the climate and soil environment of Hawaii, breadfruit has
12 consistently contributed to and enhanced all aspects of Hawaii,
13 including traditional diet, culture, and lifestyle. Its
14 distinctive beauty and mythical origins, historical, cultural,
15 religious, and social significance, and the diversity of its
16 forms in traditional methods of food production have all
17 contributed to the legacy of breadfruit in the Hawaiian heritage



1 and culture. This significant presence and abundance
2 illustrates how breadfruit flourishes in modernity as the
3 contemporary manifestation of Hawaii Nei.

4 Several factors over the past decade have demonstrated that
5 breadfruit consumption and research are growing in relevance,
6 including the availability of large numbers of breadfruit trees,
7 the expansion of the gluten-free market, the confirmation of
8 value in breadfruit by-products, and the increasing market
9 movement toward locally grown food. For the first time in the
10 technological era, breadfruit has the potential to become a
11 major commercial crop, even while remaining closely connected to
12 traditional Hawaiian, Polynesian, Micronesian, and Melanesian
13 values.

14 Significant global resources exist for breadfruit in
15 Hawaii, including the largest conservation effort of breadfruit
16 agrobiodiversity by the National Tropical Botanical Gardens,
17 significant product research and development by the University
18 of Hawaii, Pacific-wide relationships and development efforts
19 through The Pacific Business Center Program at the Shidler
20 School of Business Administration, and cooperative development
21 structures and processing infrastructure as seen in the Hawaii



1 'Ulu Producers Cooperative. Dozens of other small breadfruit
2 producers around the State make diverse products such as chips,
3 hummus, pies, and baking mixes, and a growing number of
4 restaurants, distributors, and retail vendors are carrying
5 breadfruit products.

6 Despite the increase in breadfruit development in the
7 State, the growth of markets and infrastructure needed to
8 utilize the projected ten- to twenty-fold increase in fruit
9 production is in a precarious state. Substantial investments
10 into breadfruit research and development have occurred, but
11 additional research and market support are required to develop
12 sustainable breadfruit production methods, postharvest handling,
13 processing and refinement, manufacturing methods, scalable flour
14 mill design, packaging, market product development and testing,
15 distribution, and regional sustainable capacity for supply for
16 breadfruit products. Without additional support, the growth of
17 farm production could quickly undermine the development that has
18 been accomplished. In order to realize the vast potential of
19 breadfruit to serve as a major contributor to local food and
20 food security, support for the burgeoning industry is needed.



1 A conservative estimate of \$2,000,000 per year farm value,
2 e.g., two million pounds of fruit per year, is anticipated
3 within five years based on trees currently in the ground that
4 have yet to be productive, with additional economic development
5 coming from processing, marketing, and distribution of the
6 fruit. The global gluten-free market was valued at
7 \$14,940,000,000 in 2016 and is expected to grow at a compound
8 annual growth rate of 9.3 per cent from 2017 to 2025,
9 illustrating the potential market for breadfruit. Furthermore,
10 the profit projected from processing and marketing the
11 breadfruit flower as an organic insecticide is estimated to
12 exceed the million dollar mark. This profit may be due to the
13 far more potent nature of the breadfruit flower that contains a
14 natural tri-chemical compound combination that is such a
15 powerful repellent that the breadfruit outperforms its synthetic
16 competitors.

17 The economic development potential for the processing,
18 refinement, packaging, and exporting of breadfruit products for
19 the state and national market is substantial considering the
20 general employment and economic benefits to the State.



1 'Ulu is a long-lived, easy to grow, productive, nutritious,
 2 starchy staple crop that can continue to contribute to
 3 environmental, social, and economic health of the State for
 4 generations. As everyone who has tasted extraordinary dishes
 5 made from 'ulu knows, there is now high potential for 'ulu to
 6 contribute to healthy diets and food security ideals based on
 7 locally grown foods. In fact, the State has already begun to
 8 realize some of the vast, potential benefits of 'ulu. The
 9 department of education recently placed an order so that all
 10 three hundred of Hawaii's public schools will have 'ulu for at
 11 least one meal.

12 The purpose of this Act is to make an appropriation for the
 13 research, development, marketing, and conservation of
 14 breadfruit.

15 SECTION 2. There is appropriated out of the general
 16 revenues of the State of Hawaii the sum of \$ or so much
 17 thereof as may be necessary for fiscal year 2018-2019 for the
 18 research, development, marketing, and conservation of breadfruit
 19 as follows:

- 20 (1) Developing breadfruit businesses that have
- 21 demonstrated significant product sales;



- 1 (2) Performing research that is directly supporting
2 farmers and industry development; and
3 (3) Providing ancillary support such as tree production,
4 marketing, and public education.

5 The sum appropriated shall be expended by the college of
6 tropical agriculture and human resources at the University of
7 Hawaii for the purposes of this Act.

8 SECTION 3. This Act shall take effect on July 1, 2050.



Report Title:

Agriculture; Breadfruit; 'Ulu; Appropriation; University of Hawaii College of Tropical Agriculture and Human Resources

Description:

Appropriates funds for the research, development, marketing, and conservation of 'ulu. Effective 7/1/2050. (SD1)

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