

JAN 27 2016

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# A BILL FOR AN ACT

RELATING TO RAPID OHIA DEATH.

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

1           SECTION 1. The legislature finds that the ohia is Hawaii's  
2 most common and widespread native tree. Ohia trees can be found  
3 at sea level and up to elevations of twenty-five hundred meters.  
4 The trees provide critical habitats for rare and endangered  
5 native birds and insects.

6           In recent years, the disease known as rapid ohia death,  
7 caused by the non-native fungal pathogen *Ceratocystis fimbriata*,  
8 has been killing ohia trees in the forests and residential areas  
9 of Puna and Hilo on the island of Hawaii. When infected, the  
10 crown of an ohia tree first turns yellow, and then brown within  
11 a few days or weeks. The fungal pathogen progresses up the stem  
12 of the tree and manifests as a dark staining in the sapwood  
13 along the outer margin of the trunk. Landowners have noticed  
14 that when healthy-looking trees begin exhibiting symptoms, the  
15 trees die in a matter of weeks.

16           As of 2014, approximately fifteen thousand acres on the  
17 island of Hawaii have shown greater than fifty per cent



1 mortality from rapid ohia death. Recent estimates have found  
2 that the disease has affected thirty thousand acres on the  
3 island of Hawaii.

4 The exact transmittal methods of *Ceratocystis fimbriata*  
5 have not yet been determined. However, researchers believe that  
6 the fungus can be transmitted by feral animals, insects, soil,  
7 water, infected cuttings, unsanitized pruning tools, and muddy  
8 vehicles. There is no treatment that can protect ohia trees  
9 from rapid ohia death and there is no cure for infected trees.

10 The legislature finds that rapid ohia death has the  
11 potential to destroy ohia trees statewide. The loss of ohia  
12 trees would be catastrophic to the diversity, structure, and  
13 function of the State's remaining native forests.

14 Researchers of the United States Department of Agriculture,  
15 the University of Hawaii, and other organizations have made  
16 progress in combating rapid ohia death, including isolating the  
17 fungal pathogen, researching alternative hosts for the pathogen,  
18 eliminating other causes for the ohia tree deaths, and making  
19 recommendations on preventing the spread of the disease.  
20 However, the researchers require additional funding to continue  
21 their work.



# S.B. NO. 3047

1           The purpose of this Act is to appropriate funds to combat  
 2 rapid ohia death. The funding will help to continue pathology  
 3 research by the United States Department of Agricultural  
 4 Research Service and other organizations.

5           SECTION 2. There is appropriated out of the general  
 6 revenues of the State of Hawaii the sum of \$325,000 or so much  
 7 thereof as may be necessary for fiscal year 2016-2017 for rapid  
 8 ohia death research, including the employment of pathology post-  
 9 doctoral fellows, technical support for pathology research,  
 10 materials and supplies for pathogen and molecular detection, and  
 11 a new growth chamber for pathology experiments.

12           The sum appropriated shall be expended by the department of  
 13 agriculture for the purposes of this Act.

14           SECTION 3. This Act shall take effect on July 1, 2016.

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# S.B. NO. 3047

**Report Title:**

Rapid Ohia Death; Ceratocystis; Trees; Research; Study;  
Appropriation

**Description:**

Appropriates funds for research to combat rapid ohia death.

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