
A BILL FOR AN ACT

RELATING TO RAT LUNGWORM DISEASE.

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

1 SECTION 1. The legislature finds that the department of
2 health has reported over seventy cases of rat lungworm disease
3 caused by *Angiostrongylus cantonensis* from 2001 to 2014. There
4 have been many more cases in 2015, including at least two on
5 Maui. The disease has claimed lives and caused crippling
6 chronic disability. The cost for one severe case can exceed
7 \$1,000,000. The Hawaii island rat lungworm disease working
8 group has been formed at the Daniel K. Inouye college of
9 pharmacy at the University of Hawaii at Hilo and has been
10 conducting research and educational outreach on the disease for
11 the past four years.

12 The purpose of this Act is to appropriate funds to the
13 University of Hawaii at Hilo, the department of health, the
14 department of land and natural resources, and the department of
15 agriculture for programs, studies, and activities related to the
16 prevention and eradication of rat lungworm disease.



1 SECTION 2. There is appropriated out of the general
2 revenues of the State of Hawaii the sum of \$695,000 or so much
3 thereof as may be necessary for fiscal year 2017-2018 and the
4 same sum or so much thereof as may be necessary for fiscal year
5 2018-2019 for programs, studies, and activities related to the
6 prevention and eradication of rat lungworm disease, including:

7 (1) Together with the department of land and natural
8 resources and the department of agriculture,
9 implementing a long-term, statewide collaborative
10 effort to monitor invasive mollusk and paratenic hosts
11 for rat lungworm infection;

12 (2) Conducting laboratory testing to determine the
13 effectiveness of deworming rats to reduce rat lungworm
14 transmission;

15 (3) Conducting laboratory testing of a wide range of
16 commercially available produce washes as well as other
17 potential solutions;

18 (4) Conducting laboratory testing of commercially
19 available filters and ultraviolet systems to determine
20 effectiveness in catchment;



- 1 (5) Optimizing existing tests or developing new blood-
2 based tests for rat lungworm diagnostics;
- 3 (6) Conducting and publishing a study on long-term
4 recovery from rat lungworm disease and recommending
5 medical treatments and assistances;
- 6 (7) Together with the department of health, developing a
7 rural health educational outreach program for
8 rainwater catchment users;
- 9 (8) Together with the department of health, providing
10 educational outreach to kindergarten through twelfth
11 grade school personnel involved in food procurement
12 and preparation, and school garden projects; and
- 13 (9) Developing rat lungworm curriculum and an integrated
14 pest management plan for control of invasive hosts in
15 all Hawaii school garden projects.

16 The sums appropriated shall be expended by the University
17 of Hawaii at Hilo for the purposes of this Act.

18 SECTION 3. There is appropriated out of the general
19 revenues of the State of Hawaii the sum of \$ or so much
20 thereof as may be necessary for fiscal year 2017-2018 and the
21 same sum or so much thereof as may be necessary for fiscal year



1 2018-2019 for activities related to the prevention and
2 eradication of rat lungworm disease, including:

- 3 (1) Providing educational outreach materials and best
4 practices for control for the general public and
5 Hawaii health care providers;
- 6 (2) Working with the University of Hawaii at Hilo to
7 develop a rural health educational outreach program
8 for rainwater catchment users;
- 9 (3) Together with the University of Hawaii at Hilo,
10 providing educational outreach to kindergarten through
11 twelfth grade school personnel involved in food
12 procurement and preparation, and school garden
13 projects; and
- 14 (4) Together with the department of agriculture and the
15 department of land and natural resources, develop an
16 integrated pest management plan for best practices for
17 control of rat lungworm hosts and providing that
18 information to the public.

19 The sums appropriated shall be expended by the department
20 of health for the purposes of this Act.



1 SECTION 4. There is appropriated out of the general
 2 revenues of the State of Hawaii the sum of \$ or so much
 3 thereof as may be necessary for fiscal year 2017-2018 and the
 4 same sum or so much thereof as may be necessary for fiscal year
 5 2018-2019 for activities relating to the prevention and
 6 eradication of rat lungworm disease, including:

7 (1) Together with the department of agriculture and
 8 department of health, developing an integrated pest
 9 management plan for best practices for control of rat
 10 lungworm hosts and providing that information to the
 11 public; and

12 (2) Together with the University of Hawaii at Hilo,
 13 implementing a long-term, statewide collaborative
 14 effort to monitor invasive mollusk and paratenic hosts
 15 for rat lungworm infection.

16 The sums appropriated shall be expended by the department
 17 of land and natural resources for the purposes of this Act.

18 SECTION 5. There is appropriated out of the general
 19 revenues of the State of Hawaii the sum of \$ or so much
 20 thereof as may be necessary for fiscal year 2017-2018 and the
 21 same sum or so much thereof as may be necessary for fiscal year



1 2018-2019 for activities relating to the prevention and
2 eradication of rat lungworm disease, including:

3 (1) Providing educational outreach to farmers' groups and
4 farmers providing food for schools to implement
5 integrated pest maintenance for control of carriers of
6 rat lungworm disease; and

7 (2) Together with the department of land and natural
8 resources and the department of health, developing an
9 integrated pest management plan for best practices for
10 control of rat lungworm hosts and providing that
11 information to the public.

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

14 SECTION 6. This Act shall take effect on July 1, 2017.

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INTRODUCED BY:

<u>Richard Long</u>	<u>Ch. Todd</u>
<u>Walt A. Ketchum</u>	<u>[Signature]</u>
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JAN 20 2017



H.B. NO. 474

Report Title:

Rat Lungworm Disease; Appropriation

Description:

Appropriates funds to the University of Hawaii at Hilo, the department of health, department of land and natural resources, and department of agriculture for programs, studies, and activities related to rat lungworm disease.

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