
A BILL FOR AN ACT

RELATING TO HYDROLOGIC DATA COLLECTION.

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

1 SECTION 1. The legislature finds that while climate change
2 and its impacts on water resources underscore the need for
3 increased hydrologic monitoring and research investigations, the
4 commission on water resource management, whose primary function
5 is to carry out surveys, research, and investigations into all
6 aspects of water use and water quality, has faced considerable
7 challenges due to a decline of hydrologic data collection
8 monitoring stations and programs. Hydrologic data, particularly
9 for low-flow conditions, is fundamental to developing reasonable
10 and scientifically-defensible instream flow standards, along
11 with addressing stream-related disputes and complaints. There
12 are an estimated three hundred seventy-six perennial streams
13 statewide, most of which have little to no comprehensive
14 hydrologic data readily available.

15 The legislature further finds that the Hawai'i mesonet is a
16 statewide advanced weather and climate monitoring network of
17 approximately one hundred telemetered stations, now under



1 construction. While climate information has been gathered for
2 over one hundred years by various entities in the islands, the
3 climate-observing network in Hawaii is fragmented, unmanaged,
4 declining in spatial coverage, and inadequate to meet the needs
5 of researchers and the many stakeholders dependent on the data
6 and the research the data supports, including weather
7 forecasting, flood warning, fire warning, emergency management,
8 water resource management, agriculture, ranching, cultural
9 resource protection, ecosystem protection, recreation, research
10 on weather, climate, hydrological processes, ecosystem
11 processes, and many other topics.

12 The cost of operating and maintaining the Hawai'i mesonet
13 and managing and making the data available is estimated to be
14 \$500,000 per year, with approximately fifty per cent of that
15 amount derived from federal funds like the National Oceanic and
16 Atmospheric Administration mesonet program.

17 The legislature also finds that the commission on water
18 resource management's goal of using a solid and up-to-date
19 foundation of data on water resources, water use, and water
20 dynamics in making water resource management decisions includes
21 collaborating with the university of Hawaii water resource



1 research center in its Hawai'i mesonet network of telemetered
2 stations to assist in determining water availability in Hawaii
3 in light of climate change and future changes in precipitation
4 patterns.

5 The purpose of this Act is to appropriate funds to improve
6 the State's understanding of the complex hydrologic systems in
7 Hawaii and provide additional resources for the Hawai'i mesonet.

8 SECTION 2. There is appropriated out of the general
9 revenues of the State of Hawaii the sum of \$ or so
10 much thereof as may be necessary for fiscal year 2024-2025 to
11 improve the State's understanding of the complex hydrologic
12 systems in Hawaii; provided that the funds shall be appropriated
13 as follows:

14 (1) \$ for stream gauges;

15 (2) \$ for operating and maintaining the Hawai'i
16 mesonet; and

17 (3) \$ for monitoring wells.

18 The sum appropriated shall be expended by the department of
19 land and natural resources for the purposes of this Act.

20 SECTION 3. In accordance with section 9 of article VII of
21 the Hawaii State Constitution and sections 37-91 and 37-93,



1 Hawaii Revised Statutes, the legislature has determined that the
2 appropriations contained in H.B. No. , will cause the state
3 general fund expenditure ceiling for fiscal year 2024-2025 to be
4 exceeded by \$ or per cent. In addition, the
5 appropriation contained in this Act will cause the general fund
6 expenditure ceiling for fiscal year 2024-2025 to be further
7 exceeded by \$ or per cent. The combined total
8 amount of general fund appropriations contained in only these
9 two Acts will cause the state general fund expenditure ceiling
10 for fiscal year 2024-2025 to be exceeded by
11 \$ or per cent. The reasons for exceeding the
12 general fund expenditure ceiling are that:

- 13 (1) The appropriation made in this Act is necessary to
14 serve the public interest; and
- 15 (2) The appropriation made in this Act meets the needs
16 addressed by this Act.

17 SECTION 4. This Act shall take effect on July 1, 3000.



Report Title:

Commission on Water Resource Management; Hawaii Mesonet;
Hydrologic Data; Appropriation; Expenditure Ceiling

Description:

Appropriates funds to improve the State's water resource
management and hydrologic data collection. Effective 7/1/3000.
(HD1)

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not legislation or evidence of legislative intent.*

