
A BILL FOR AN ACT

RELATING TO WATER.

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

1 SECTION 1. (a) There is established a four-year
2 irrigation water conservation best management practices pilot
3 program, under which the department of accounting and general
4 services shall implement irrigation water conservation best
5 management practices as established by the Landscape Industry
6 Council of Hawaii to improve the efficiency of landscape
7 irrigation installations through low cost, practical measures.
8 The pilot program shall complete, at minimum, four projects with
9 an aggregate area of twenty-five thousand square feet of
10 landscape irrigation using best management practices at or
11 around the existing ten capital district buildings that are part
12 of a pilot study on energy and water conservation.

13 Irrigation water conservation best management practices
14 shall include:

- 15 (1) Best management practices for maintenance; and
16 (2) Best management practices for new installations or
17 major renovations.

18 (b) As used in this section:



1 "Best management practices for maintenance" includes the
2 use of:

- 3 (1) Seasonal timing adjustments to irrigation controller
4 systems;
- 5 (2) Aeration of lawns when compaction increases, and short
6 run-time cycle irrigation in areas where runoff and
7 ponding occur;
- 8 (3) Irrigation controllers programmed for long run times
9 to water as deeply, evenly, and infrequently as
10 possible to encourage deep rooting and increased
11 drought resistance;
- 12 (4) Mulch, organic matter in soils, and drought-tolerant
13 plants or plants that are naturally occurring at the
14 site and surroundings;
- 15 (5) The practice of allowing grass to grow taller to
16 conserve water; and
- 17 (6) Schedule systems to run water at night;

18 provided that best management practices for maintenance may also
19 include periodic practical water audits to review the system
20 components and verify that the components meet the original
21 design criteria for the efficient operation and uniform
22 distribution of water.



1 "Best management practices for new installations or major
2 renovations" includes the use of:

- 3 (1) New installations that require a coverage test prior
4 to acceptance; and irrigation system designs, plans,
5 and specifications that remain on site and contain
6 water conservation language;
- 7 (2) Systems designed with sprinklers spaced head-to-head
8 coverage or better, and with a precipitation rate not
9 exceeding the soil infiltration rate;
- 10 (3) Systems designed to irrigate similar site, slope, sun
11 exposure, soil conditions, and plant materials with
12 similar water use on the same circuit;
- 13 (4) Climate-based automatic irrigation controllers
14 utilizing either evapotranspiration and weather
15 sensors, or soil moisture sensors;
- 16 (5) Flow sensors with a malfunction valve shutoff system
17 capability in an irrigation controller and water
18 submeters that measure outdoor water usage on larger
19 sites;
- 20 (6) Water conserving irrigation components and check
21 valves and drip irrigation for individual specimen
22 plants;



1 (7) Storm water design methods, including infiltration
2 beds, swales, and basins that allow water to collect
3 and soak into the ground on site, utilizing low impact
4 development principles;

5 (8) Nonpotable water sources when available; and

6 (9) A qualified irrigation designer, such as an Irrigation
7 Association-certified irrigation designer, Irrigation
8 Association-certified irrigation contractor, and a
9 maintenance contractor with water conservation
10 expertise.

11 SECTION 2. The department of accounting and general
12 services shall submit a report regarding the results of the
13 four-year irrigation water conservation best management
14 practices pilot program, including any proposed legislation, to
15 the legislature no later than twenty days prior to the convening
16 of the regular session of 2018. The report shall contain but
17 shall not be limited to information on training conducted,
18 installation measures, and water savings as measured by gallons.

19 SECTION 3. There is appropriated out of the general
20 revenues of the State of Hawaii the sum of \$ or so
21 much thereof as may be necessary for fiscal year 2014-2015 for



Report Title:

Water Conservation; Best Management Practices; Public Agency;
Appropriation

Description:

Establishes a four-year pilot program requiring DAGS to implement irrigation water conservation best management practices, as established by the Landscape Industry Council of Hawaii and report to the Legislature. Makes an appropriation. Effective July 1, 2050. (SB803 HD1)

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