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## A BILL FOR AN ACT

RELATING TO URBAN WATER CONSERVATION.

**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 at state facilities through low cost,  
8 practical measures. The pilot program shall complete, at  
9 minimum, four projects with an aggregate area of twenty-five  
10 thousand square feet of landscape irrigation using best  
11 management practices at or around the existing ten capital  
12 district buildings that are part of a pilot study on energy and  
13 water conservation.

14           Irrigation water conservation best management practices  
15 shall include:

16           (1) Best management practices for maintenance; and



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



1 provided that best management practices for maintenance may also  
2 include periodic practical water audits to review the system  
3 components and verify that the components meet the original  
4 design criteria for the efficient operation and uniform  
5 distribution of water.

6 "Best management practices for new installations or major  
7 renovations" includes the use of:

8 (1) New installations that require a coverage test prior  
9 to acceptance; and irrigation system designs, plans,  
10 and specifications that remain on site and contain  
11 water conservation language;

12 (2) Systems designed with sprinklers spaced to achieve  
13 head-to-head coverage or better, and with a  
14 precipitation rate not exceeding the soil infiltration  
15 rate;

16 (3) Systems designed to irrigate similar site, slope, sun  
17 exposure, soil conditions, and plant materials with  
18 similar water use on the same circuit;

19 (4) Climate-based automatic irrigation controllers  
20 utilizing either evapotranspiration and weather  
21 sensors, or soil moisture sensors;



- 1           (5) Flow sensors with a malfunction valve shutoff system
- 2                    capability in an irrigation controller and water
- 3                    submeters that measure outdoor water usage on larger
- 4                    sites;
- 5           (6) Water conserving irrigation components and check
- 6                    valves and drip irrigation for individual specimen
- 7                    plants;
- 8           (7) Storm water design methods, including infiltration
- 9                    beds, swales, and basins that allow water to collect
- 10                  and soak into the ground on site, utilizing low impact
- 11                  development principles;
- 12           (8) Nonpotable water sources when available; and
- 13           (9) A qualified irrigation designer, such as an Irrigation
- 14                  Association-certified irrigation designer, Irrigation
- 15                  Association-certified irrigation contractor, and a
- 16                  maintenance contractor with water conservation
- 17                  expertise.

18           SECTION 2. The department of accounting and general

19 services shall submit a report regarding the results of the

20 four-year irrigation water conservation best management

21 practices pilot program, including any proposed legislation, to





# H.B. NO. 1080

**Report Title:**

Urban 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.

*The summary description of legislation appearing on this page is for informational purposes only and is not legislation or evidence of legislative intent.*

