HOUSE OF REPRESENTATIVES TWENTY-SEVENTH LEGISLATURE, 2014 STATE OF HAWAII H.B. NO. 2009

### 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 thousand square feet of landscape irrigation using best 10 11 management practices at or around the existing ten capital district buildings that are part of a pilot study on energy and 12 13 water conservation.

14 Irrigation water conservation best management practices 15 shall include:

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



Page 2

# H.B. NO. 2069

1	(b)	As used in this section:
2	"Bes	t management practices for maintenance" includes the
3	use of:	
4	(1)	Seasonal timing adjustments to irrigation controller
5		systems;
6	(2)	Aeration of lawns when compaction increases, and short
7		run-time cycle irrigation in areas where runoff and
8		ponding occur;
9	(3)	Irrigation controllers programmed for long run times
10		to water as deeply, evenly, and infrequently as
11		possible to encourage deep rooting and increased
12		drought resistance;
13	(4)	Mulch, organic matter in soils, and drought-tolerant
14		plants or plants that are naturally occurring at the
15		site and surroundings;
16	(5)	The practice of allowing grass to grow taller to
17		conserve water; and
18	(6)	Schedule systems to run water at night;
19	provided	that best management practices for maintenance may also
20	include p	eriodic practical water audits to review the system
21	component	s and verify that the components meet the original



#### Page 3

## H.B. NO. 2009

1	design criteria for the efficient operation and uniform		
2	distribution of water.		
3	"Best management practices for new installations or major		
4	renovations" includes the use of:		
5	(1)	New installations that require a coverage test prior	
6		to acceptance; and irrigation system designs, plans,	
7		and specifications that remain on site and contain	
8		water conservation language;	
9	(2)	Systems designed with sprinklers spaced to achieve	
10		head-to-head coverage or better, and with a	
11		precipitation rate not exceeding the soil infiltration	
12		rate;	
13	(3)	Systems designed to irrigate similar site, slope, sun	
14		exposure, soil conditions, and plant materials with	
15		similar water use on the same circuit;	
16 <sup>-</sup>	(4)	Climate-based automatic irrigation controllers	
17		utilizing either evapotranspiration and weather	
18		sensors, or soil moisture sensors;	
19	(5)	Flow sensors with a malfunction valve shutoff system	
20		capability in an irrigation controller and water	
21		submeters that measure outdoor water usage on larger	
22		sites;	
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Page 4

### H.B. NO. 2069

1 (6) Water conserving irrigation components and check 2 valves and drip irrigation for individual specimen 3 plants; 4 (7) Storm water design methods, including infiltration 5 beds, swales, and basins that allow water to collect 6 and soak into the ground on site, utilizing low impact 7 development principles; 8 (8) Nonpotable water sources when available; and 9 A qualified irrigation designer, such as an Irrigation (9) 10 Association-certified irrigation designer, Irrigation 11 Association-certified irrigation contractor, and a 12 maintenance contractor with water conservation 13 expertise. 14 SECTION 2. The department of accounting and general 15 services shall submit a report regarding the results of the 16 four-year irrigation water conservation best management 17 practices pilot program, including any proposed legislation, to 18 the legislature no later than twenty days prior to the convening 19 of the regular session of 2019. The report shall contain but shall not be limited to information on training conducted, 20 installation measures, and water savings as measured by gallons. 21



Page 5

### H.B. NO. 2069

1	SECTION 3. 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 2014-2015 for the
4	implementation of a four-year irrigation water conservation best
5	management practices pilot program pursuant to this Act.
6	The sum appropriated shall be expended by the department of
7	accounting and general services for the purposes of this Act.
8	SECTION 4. This Act shall take effect on July 1, 2014.
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### H.B. NO. 2069

#### 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.

