

Lawn Irrigation Self Audit (LISA) Toolkit

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Colorado State University
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Primary Benefits to Homeowners

- Lower summer monthly water bill and increase property values
- Improve lawn health and vigor
- Reinforces the cities water supply
 - Reduces cities need to “hunt” for new water supplies
 - Can take water out of agriculture



Colorado Water Conservation Board (CWCB)

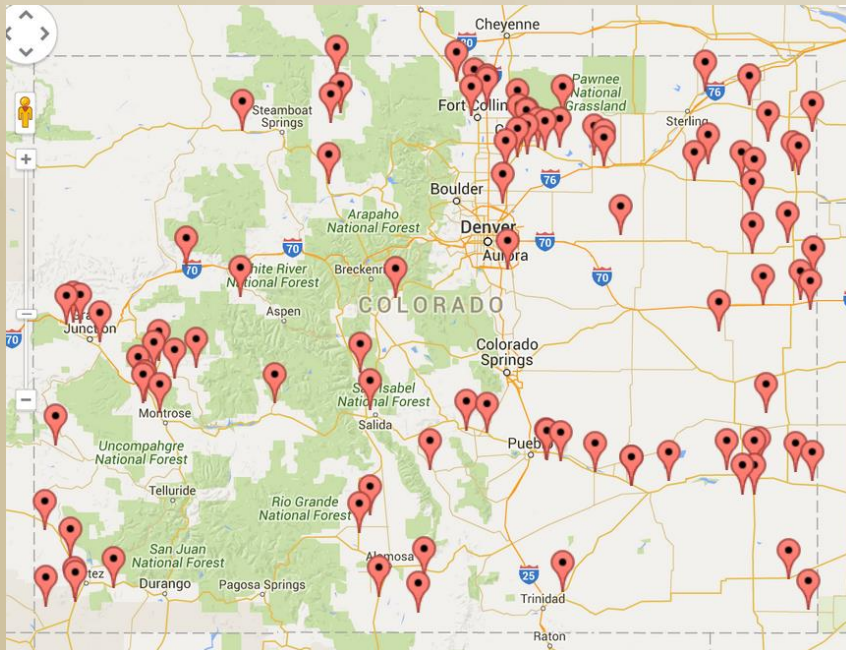
- Mission “water conservation, and drought planning”
- Identified significant water shortages or “gaps” across the state over next 20-40 yrs (SWSI Phase II)
 - Over 50% of summer month domestic water use occurs outside and usually to water lawns.
- CWCB’s Office of Water Conservation and Drought Planning recommendations relate to irrigation:
 - Landscape Irrigation Management
 - Educational Programs

Landscape irrigation systems are not “one-and-done”

- Not only do irrigation systems require maintenance, they also can be better managed to apply only the amount of water that your lawn truly needs
- This can save homeowners money, improve property values, and stabilize water supply delivery



1. No cost to use this service, free
2. Localized weather data through our CoAgMet network to accurately estimate lawn water needs
 - a) Available to rural communities



Crop Evapotranspiration in Inches

Date	RefET Precip	
07/22/2014	0.36	0.00
07/23/2014	0.35	0.00
07/24/2014	0.39	0.00
07/25/2014	0.29	0.02
07/26/2014	0.31	0.00
07/27/2014	0.27	0.00
07/28/2014	0.17	0.02
07/29/2014	0.22	0.05
07/30/2014	0.08	0.47
07/31/2014	0.08	0.01
08/01/2014	0.13	0.02
Sum	2.67	0.59
Average	0.24	0.05



What is an irrigation audit?

- Closes knowledge gap between having the latest irrigation technology and using it to max efficiency
- Identify where lawn watering techniques and systems could be improved to benefit homeowner.
- The **actual audit** is broken into 2 main areas:
 1. Physical audit to collect lawn irrigation data
 2. Analysis and scheduling by the LISA web-tool

Physical Kit



1. LISA kit container (1)
2. Stopwatch with battery (1)
3. Tape measure (1)
4. Plastic mallet (1)
5. Soil probe (1)
6. Catch Cans – numbered (20)
7. Catch Can Support Stakes (20)
8. Optional: additional pairs of Catch Cans (unnumbered) and Stakes

Website

1 (800) 123-4567
[About](#)
[more...](#)

Precipitation

Let's begin with collecting the volume of your catch devices from your kit.

-	-	-	-	-	-
-	-	-	-	-	-
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Continue

Turf

Knowing your turf type is critical in producing accurate results.

Vegetation Density - Amount of exposed bare soil in my lawn

Micro-Climate Factor - My lawn is...

Species Type
☒ Warm season turf ☐ Cool season turf

Zip Code

Physical Kit

- Only need data from two main sources:
 - Rooting depth
 - Irrigation water application- Audit takes 20 mins/zone.



Horticulture Agent Susan Carter of Tri River Area has a kit.
15 others around the state.

- Once the physical audit data is collected it is time to access the LISA web-tool, which will calculate a watering schedule
- Accessible via a direct link: <http://abdodesign.com/lab/lisa/#>

Web~Tool
Results





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Thank you, any questions?