Case Study

Organization
City of Fontana

Location
Fontana, California

Industry
Water Utilities

City of Fontana Saves $200,000 Annually with Turf Irrigation Web Map

The City of Fontana, California, serves a population of over 200,000 people. The city irrigates approximately 530 acres of urban landscape, including parks and parkways. Staff wanted to ensure the city wasn't applying unnecessary irrigation to urban landscape. Fontana's analysts asked the geographic information system (GIS) team to provide a map solution that would display—in one web application—real time water use for each of the city's 550 meters. The map would expand Fontana's mission to reach zero water waste during an ongoing California drought.

What Did the City of Fontana Do?

Fontana had been collecting its water metering and landscape data for years. Bringing this information into the city's GIS allowed staff to make a prototype of a map service in ArcGIS℠ Online. The map service shows in real time how many inches of water are applied per meter. Staff can compare this actual watering to budgeted watering through a calculation that converts inches to gallons, and gallons to dollars. The automation eliminates the previous manual workflow requiring staff to sift through hundreds of data pages and spreadsheets. Through radio telemetry, office staff can actually modify water application for individual meters, based on what is on the web map. The city estimates a $200,000 annual savings off its $3.5 million irrigation budget. The web map has helped conserve water, part of Fontana's mission to better serve residents. The application has also been used to help Fontana abide by

> "We wanted to make sure we were applying only the amount of water that was necessary. Having the map service instead of spreadsheets revolutionized what we were doing. That was the ultimate goal: to have a quick status view of whether we are watering on target, over budget, or under budget."
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> **Rogelio Matta**
> Senior Administrative Analyst
> City of Fontana

Mapping dashboards help Fontana monitor water use and make quick, informed decisions to ensure compliance with California drought regulations.

recent regulations enacted in California to help reduce water use by 25 percent during severe drought. Selected city staff now have access to the maps on any device, whether in the field or office, to monitor actual versus budgeted watering.

Could You Use This?

Water agencies wishing to reduce water waste for emergency legislation compliance and cost savings can use web map services to better understand real-time water application. ArcGIS Online enables users across water utilities to compare actual to budgeted water application, so teams can take action to curb water waste and better reach targets.

For more information, visit
esri.com/water.

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