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MARKETS SOLUTIONS CASE STUDIES NEWS ABOUT US



SOLUTIONS

## Landscape Irrigation

Another area of major water conservation is in the landscape. Irrigation occurs at night and not very many people have an opp exactly how their irrigation system is operating or even know how much water the landscape actually needs. ortunity to see

## Kay's Creek Elementary Irrigation Audit Ben Altamirano Ball Fields Smart Controller

The **first way** to conserve impation water is seasonal adjustment. Much less impation is needed during the spring and fall seasons of the year because that's when natifial occurs. So installing a controller where seasonal adjustments can be programmed allows the controller to be adjustments and the secretage of the routine, for example. If the spop heads are programmed to not 10 much solution who holds and to the year and in the fait the temperature decreases to 20% of the holds much much the water budget can be set to effect its barries and and the controller would chamacially water for multices its adjustment to the example. The the output budget can be active for the temperature decreases to 20% of the holds much its final the temperature decreases to 20% of the holds much its final the decay and the temperature decreases to 20% of the holds much its final the decay and the temperature decreases to 20% of the holds much its final temperature despites for by holds much as a distance of the years and the control is would be adjusted for the adjusted for the adjusted for the holds much its final temperature despites for the holds and an example.

The second way of conserving water in the landscape is recording landscape plant root depth. Root depth shows the amount of reservoir the plant has to pull water from the sol. The deeper the roots can be grown the better dought lobrance the plant will have and the more days between implant on an te implemented. Most landscapes are found with 2 to 3 inch turf grass not depth when the turf grass roots can grow much deeper more like 6 to 12 med seep. Implemented and the selection is schedules that example of the depth water the turf grass roots can grow much deeper more like 6 to 12 med seep. Implemented and the selection of the implant will have and the less implant or cycles, mans less rundt, less damage to implant components from vandasm during operation, less repart needed due to less operation of the implant of the 0.5 value the accumulation. Landscape commentation have even deeper roots (to 24 arches) and implant go the root depth helps the shrubs and trees to be healthy and robust. Trees and shrubs do better on a customized schedule for their root depth. More water is applied less frequently.

The **third way** of conserving water in the landscape is connecting the controller to a temperature sensor which then further decreases impalson usage even with a seasonal adjustment in place as with first conservation method above. There are days where the temperature is really cold and virtually no water is evenported or loss from the plants to implication can be decreased on that day. A temperature sensor for the properly attached to the impation controller allows for this automatic adjustment to impation runtimes to be increased or decreased for implation water applied.

A fourth way of conserving water is decreasing the application rate of inrigation water especially on clay soil. Clay soil does not accept water readily and fundif occurs very fast, especially on slopes. Spray heads apply water at a faster rate than most controllers can be programmed low enough to compensate for, so installing lower precipitation rate nozides prevents this runoff from occurring. Low flow multi-stream nozides for spray heads are an excellent investment in decreasing water water.

A fifth way of conserving water in the landscape is keeping the irrigation components in good operation by repaining broken components more frequently. Wate-through of the system in a timely tashion and at least nonce a month is beneficial. Having an irrigation controller map allows this conservation method to effectively be done in a timely manner. See sample irrigation map below.



A sixth way of conserving water, especially in large athletic fields or stoping fields in parks and at commercial properties is installing check valves in line and in the imgation heads. Low head dranage causes the imgation system pipes to need refiling every time the imgation system times on. The air in the pipes addresses for the to ling address constraints and for larger systems, having to litig a 2 min of 4 hor line again every imgation cycle wastes water. Stoping the puddes of water amund each low head decreases damage to the imgation components and decreases damage to the landscape itself.

A seventh way of conserving impation water is installing pressure regulating value sensors to keep the pressure constant in each station regardless of how far away the station is from the main point of connection. Evening out pressure fluctuations allows more impation stations to be operated at once decreasing value window, thus decreasing the amount of time the migration systems in summity of the page are validing by which decreases the chance of vandation to the migration system. Keeping the impation values at a certain pressure also gives the spray heads a determined pair decision station rate than a generic pressure regulation on the maining which is beneficial which the systems.

An **eighth way** of conserving water is monitoring the irrigation water usage by automatic meter reading and online water usage portal dashbc Seeing hourly water usage gives properties the ability to keep up to date usage profiles and identify leaks in the irrigation components.

Water Manage

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