



Water Conservation Plan

December 2014



Delta City
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Delta, UT 84624
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INTRODUCTION

Water availability is always a concern for Delta City. There is ongoing concern about drought and the ripple effects it will have from year to year. Conservation is an ongoing practice for the majority of system users.

Delta is a small farming community that covers approximately three square miles of area with 60 percent dedicated to residential and the remaining used for schools, business, and recreation. Delta is the central hub for the West Millard area. Calculating our GPCD would not be very accurate where our population numbers almost double with a student population of between 2,600-2,800 daily during school days and area residents coming into town for employment.

POPULATION: 3436

CONNECTIONS & DELIVERIES:

Residential	1094
Commercial	123
Industrial	0
Institutional	56
Stock Watering	7

CURRENT WATER SUPPLY/SOURCE

Delta's water system presently has three deep wells, four storage tanks with 3,800,000 gallons capacity. Well information is as follows:

Well	Location	Water Right
Gardner Well (16")	Lat: 39.345453 Long: 112.538817 17 17S 6W SL	68-531, 68-2613, 682562, 68-2532, 68-2583
Ridgetop Well (16")	Lat: 39.388304 Long: 112.513621 12 175S 7W SL	68-724, 68-396, 68-1106, 68-1107, 68- 2613, 68-531, 68-2562, 68- 2532, 68-2583
Sugar Factory Well (12")	Lat: 39.364246 Long: 112.57431 06 17S 6W SL	68-2613, 68-531, 68-2562, 68-2532, 68-2583
Airport Well	34 16S 6W SLBM	68-123

The Airport Well is owned and maintained by the City for operations of the airport. The well is a publicly owned, non-community water system servicing only one user. It is identified by the State Board of Health as System #14027. This well is sampled and tested as a separate system. Water usage is minimal for restroom facilities only. The water is metered.

Secondary Irrigation. Delta City maintains a ditch irrigation system which serves approximately 2.03% of the water customers. The irrigation system is part of Delta Canal Company.

PROJECTS NEEDED THROUGH 2050

- Upgrade 4" mains.
- Loop System
- Extend mains to meet growth demands

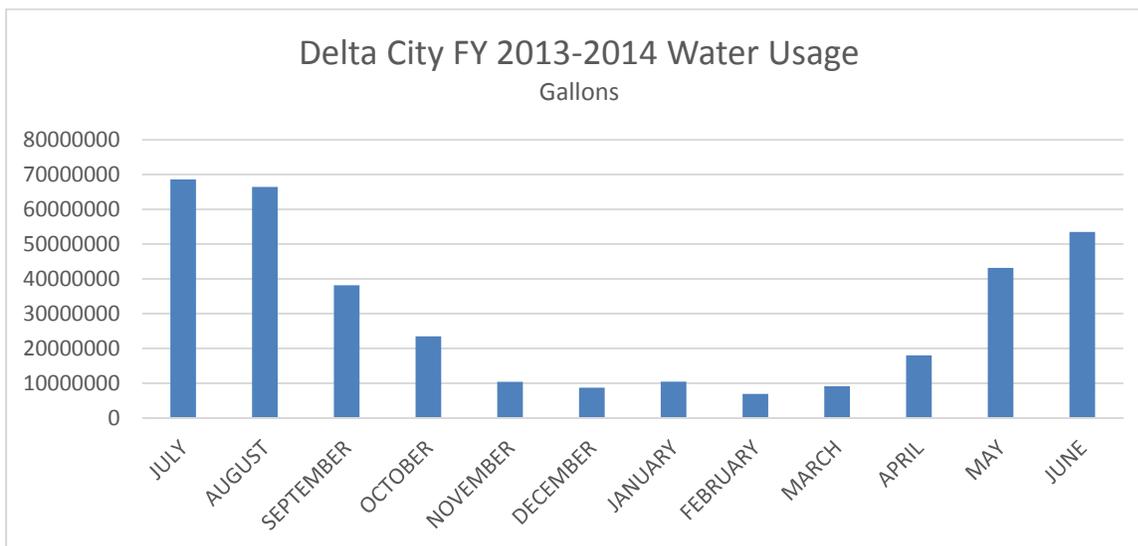
PER CAPITA WATER USAGE

We have tracked total water usage with a downward trend apparent for the past six years. However, wet and dry years cause a major change to our system usage.

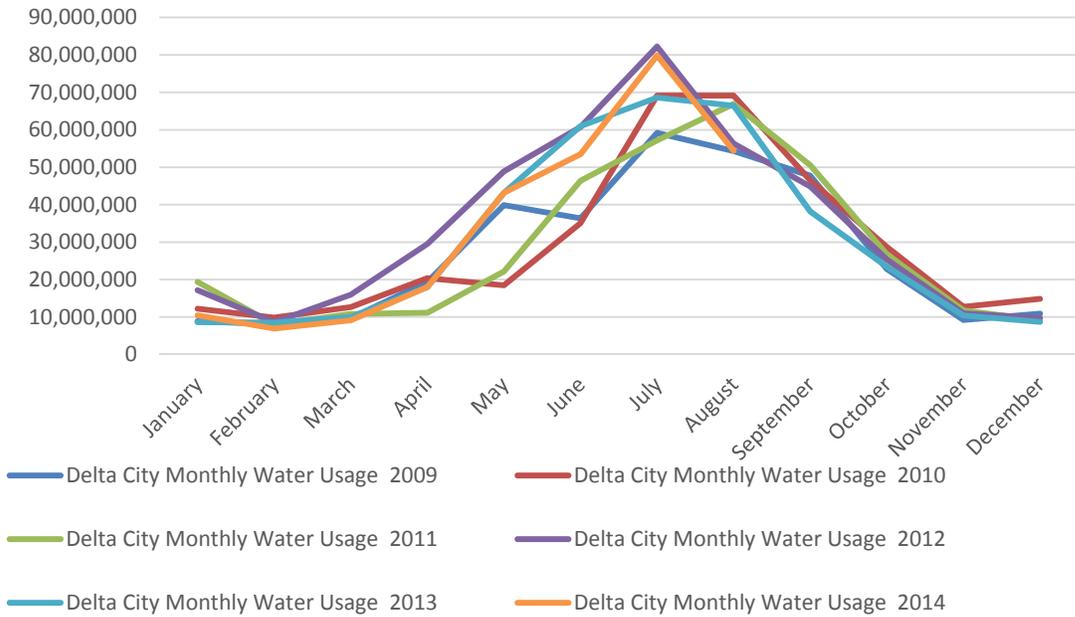
Outside watering comprises a major portion of our water usage. Delta City has 10.5 acres of irrigated parks, Millard County Recreation has 16.5 acres of irrigated parks, with Millard School District using 20 acres for playgrounds and athletic fields.

We pump an average of 300,000 gallons per day in the winter time up to 3,000,000 gallons during the peak summer days due to outside usage.

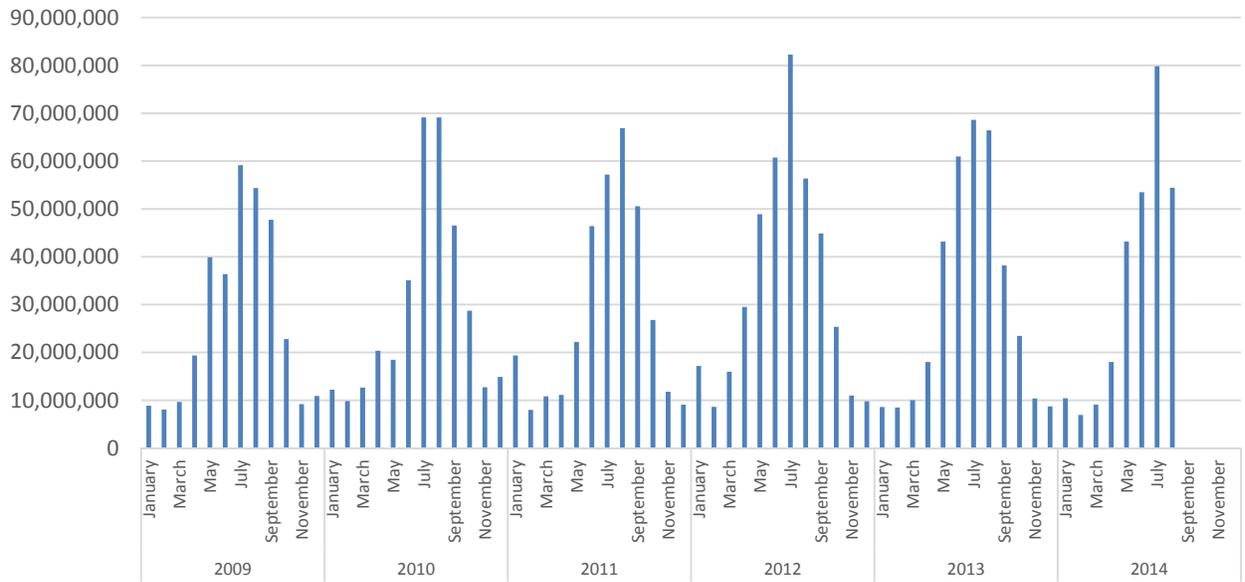
With the addition of our new well and two-million gallon storage tank, we feel that we can handle demand needs for at least the next 15-20 years.



Delta City 2009-2014 Water Usage Comparison



Delta City 2009-2014 Water Usage Comparison



CONSERVATION GOALS

Delta city is operating a fixed base radio read meter system for all of our users. We are able to monitor on a daily basis and are able to spot possible leaks or excessive usage and advise a customer of possible problems before they become expensive. In tracking our water usage, we have placed greater emphasis on meter accuracy, changing meters that are questionable and looking for problems.

METERING SITUATION AND REPLACEMENT SCHEDULE

The metering system while accurate, the reporting system is outdated and is scheduled to be phased out with a new system. Process for acquiring a new system is in the beginning stages.

PRICING AND RATE STRUCTURE

Base rate: \$25.00 per month for up to 4,000 gallons.

Overage: \$0.60 per thousand gallons per month for the next 11,000 gallons

\$0.70 per thousand gallons per month for the next 55,000 gallons

\$0.80 per thousand gallons per month for each 1,000 gallons over 70,000

Water rates outside the city limits are double the rates inside the city.

This rate schedule went into effect August 17th, 2006.

WATER CONSERVATION ORDINANCES & CONSERVATION MEASURES

The City has looked very closely at enacting stiffer charges to higher users, but is reluctant to do so. Delta City residents on a whole are conservative water users. With Delta City, Millard County, and Millard School District being the biggest users during the summer months, taxes would probably have to be raised to pay the higher water rates.

PUBLIC EDUCATION PROGRAMS

Delta City has been using public education to inform the public for well over a decade. It is felt that through this education and the fact that our residents in general are water conscious, our usage has dropped steadily over that time, even with a slight increase in population.

REVENUE AND EXPENDITURES

Revenue from water service to customers for the fiscal year ending June 30, 2014, was \$624,805.11; connection fees were \$21463.00.

Delta City funds a depreciation expense which is put in reserve for future improvements or replacement of aging system components.

CONDITION OF SYSTEM

Generally, the physical condition of our water system is adequate for at least 20 more years. Fire protection is good. All of the distribution system maintains a minimum of 25 psi under peak and fire flow conditions. The distribution system is in excellent shape. We have very few leaks.

WATER CONSERVATION COORDINATOR

The public works director has been designated as the Water Conservation Coordinator.

WATER CONSERVATION PLAN ADOPTION

The water conservation was approved by the Delta City Council on November 20, 2014.