

South Jordan City

Water Shortage Management Plan

Residential and Commercial Water Conservation Guide

Rick Maloy, Water Conservation Coordinator
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South Jordan City Water Shortage Management Plan

Residential and Commercial Water Conservation Guide

What is the Water Shortage Management Plan?

The South Jordan City Water Management Plan is intended to preserve and protect the public health, safety, and welfare during periods of drought, temporary water shortage and supply interruption. This Plan is used to support current water efficient ordinances and South Jordan City's Water Conservation Plan.

It is necessary for City water users to know what action is needed to protect the City's water supply during times of shortage and drought. This document outlines the need for water conservation and when watering restrictions are needed, along with how the City will enforce those conservation efforts and restrictions. The City has a water purchase contract with Jordan Valley Water Conservancy District (JVWCD) for 100% of its culinary water. This Plan applies to all persons, customers, and properties utilizing culinary water provided by the City. For restrictions and use of secondary water please see the Secondary Water Shortage Management Plan.

The Water Conservation Plan and current water efficient ordinances can be found on the City's website, www.sjc.utah.gov.

For further questions please contact the Water Conservation Coordinator at (801)253-5230.

Authorization

The City Manager of South Jordan City, with guidance from the Public Works Director and the Water Manager, shall be authorized to enact water shortage responses in accordance with Chapter 13.04.280 of the South Jordan City Municipal Code as the conditions outlined in this Plan occur. Those positions are currently filled by:

Gary Whatcott, City Manager

Jason Rasmussen, Public Works Director

Raymond Garrison, Water Manager

Water Shortage Phases

South Jordan City, together with JWCD, carefully monitors its water supply and use. The City will use data gathered through careful monitoring to determine current drought and water conditions. Based on current levels of the water supply and current conditions, the City will coordinate with JWCD to implement the water shortage phase for a given time frame, as outlined below.

Each phase will be enacted by the City Manager after consulting with the Public Works Director and the Water Manager. After enacting a water shortage phase, the City Manager will contact the City Council and Mayor according to the notification procedures outlined in this plan.

Each level of water shortages has been categorized into four phases according to the water availability. Each phase is labeled and color coded to illustrate when a phase is in effect.

Phase I: Advisory Phase (Green)

Phase II: Moderate Water Shortage (Yellow)

Phase III: Moderate to Severe Water Shortage (Orange)

Phase IV: Severe Water Shortage (Red)

South Jordan City water users will be informed of which phase is in effect through public messages on City owned websites, social media, and through the utility bill. In the case of Phase IV restrictions, additional means will be used to ensure City residents are aware of the current restrictions. Each phase includes unrestricted, voluntary, and/or mandatory water conservation actions to preserve the current water supply and ensure that water users have the information to mitigate further water shortages. The table below is a brief summary of the restrictions required for each phase of the plan.

	Phase I	Phase II	Phase III	Phase IV
Lawn Watering	Unrestricted	Voluntary	Mandatory	Mandatory
Swimming Pools	Unrestricted	Unrestricted	Voluntary	Mandatory
Outdoor Fountains & Ponds	Unrestricted	Unrestricted	Voluntary	Mandatory
Vehicles Washing	Unrestricted	Voluntary	Mandatory	Mandatory
Recreation Sprinklers and Outdoor Water Toys	Unrestricted	Unrestricted	Voluntary	Mandatory

The following sections describe each phase including the triggers that will cause the City Manager to implement a different phase and the intended objectives of each phase.

Phase I: Advisory Phase - Unrestricted Watering Conditions

During the advisory phase, City water users are not required to make water use changes but are encouraged to take steps to conserve water. Under advisory conditions South Jordan City has determined that water supply is enough to meet demand but that the supply may not be as healthy as historic levels. The City will continue to enforce water waste ordinance 13.04.260.

Trigger: total reservoir storage is not projected to be at standard operating capacity by April 1, due to low snow pack, precipitation, and/or lack of carryover storage from the previous year. Other total reservoir storage and predicted inflows are significantly below historic levels for the specific time of year and demands may not be met.

Objective: to prepare utility providers and all other water users for future shortages thereby allowing all water users time for planning and coordination.

Phase II: Moderate Water Shortage – Voluntary Action Required

Water users are asked to follow the voluntary conservation measures of this phase. However, the City will continue to enforce its water waste ordinance 13.04.260.

Requested Voluntary Measures

Lawn Watering: limit watering to three times per week during peak summer months and once per week in spring and fall months. Restrict watering during periods of precipitation and between the hours of 8:00 a.m. and 8:00 p.m.

Vehicle Washing: limit washing vehicles at home by instead using local efficient car wash stations.

Trigger: supply levels from the advisory stage have not improved. Demand levels indicate the need for a more systematic response to manage current water supply. Water levels are at 80% of average annual supply. JVVCD requires curtailment to continue supply.

Objective: reduce demand to meet target consumption levels achieved by voluntary conservation measures. Postpone the enactment of Phase III and more stringent action. Minimize the impact to water users while meeting the targeted water use. Maintain highest water quality through reduction of use.

Termination of Phase: the City Manager may revert to Phase I (Advisory Phase) when the conditions and triggers listed have ceased to exist for a reasonable period of time. Upon termination of Phase II the Advisory Phase becomes effective unless otherwise stated.

Phase III: Moderate to Severe Water Shortage – Voluntary and Mandatory Restrictions

Demand reductions are voluntary with the exceptions of lawn watering and washing of personal vehicles. Mandatory restrictions are outlined as follows and apply to residential, commercial, and government users.

Mandatory Measures

Lawn Watering: restrict watering during periods of precipitation and between the hours of 8:00 a.m. and 8:00 p.m. Outdoor watering is restricted to three days each week for residential and commercial users according to street address during peak months (June, July, and August). Outdoor watering for off peak months (May and September) is restricted to twice per week and is outlined as follows.

Peak month watering schedule (June, July, and August):

- Odd numbered addresses: Monday, Wednesday, and Friday
- Even numbered addresses: Tuesday, Thursday, and Saturday
- Spot watering on Sunday

Off peak watering schedule (May and September)

- Odd numbered addresses: Monday and Friday
- Even numbered addresses: Tuesday and Saturday
- Spot watering on Sunday

Vehicle Washing: washing vehicles at home is restricted where water is left running, taking vehicles to a car wash is suggested. Washing vehicles at commercial car lots is restricted to once per month and at time of sale.

Voluntary Measures

Swimming Pools: cover pools when not in use and reduce the water level in pools by four inches below spill line to prevent water loss.

Outdoor Fountains: turn off fountains that spray above the water level of the pond or fountain surface.

Recreation Sprinklers and Outdoor Water Toys: limit outdoor activities that waste water.

Trigger: the City Manager will enact this phase if the objectives of Phase II have not been met and additional action is needed. During this phase the specific restrictions will be determined based on season, target demand levels and other considerations including: Water supply is 70% of the average supply and JVWCD is requiring curtailment to continue adequate supply, supply levels during Phase II have not improved, or if demand levels require a greater need for a systematic response to manage the situation.

Objective: achieve targeted consumption levels and goals by restricting water use. Ensure adequate water supply during the period of restriction to protect public safety. Minimize disruption to water users while meeting consumption goals and maintaining high water quality through periods of shortages.

Termination of phase: the City Manager may revert to Phase II (Moderate Water Shortage) when the Phase III conditions and triggers cease to exist for a reasonable period of time. Upon termination of Phase III, Phase II becomes effective unless otherwise stated.

Phase IV: Severe Water Shortage – Mandatory Watering Restrictions

Measures in Phase IV are mandatory and the City will begin enforcement of these measures immediately following enactment of Phase IV by the City Manager. The City Manager may prohibit using water for certain non-essential uses in addition to the stated measures within Phase IV.

Mandatory Measures

Lawn Watering: restrict watering during periods of precipitation and between the hours of 8:00 a.m. and 8:00 p.m. Outdoor watering is restricted to two days each week for residential and commercial users according to street address during peak months (June, July, and August). During off-peak months (May and September) outdoor watering is restricted to once per week and is defined by street address.

Peak month watering schedule (June, July, and August):

- Odd numbered addresses: Monday and Friday
- Even numbered addresses: Tuesday and Saturday
- Spot watering on Sunday

Off peak watering schedule (May and August)

- Odd numbered addresses: Monday
- Even numbered addresses: Thursday
- Spot watering on Sunday

Swimming Pools: pools shall be covered when not in use and the water level of pool shall be four inches below the spill line. Pools are also restricted from being filled or replenished.

Outdoor Fountains: water from fountains shall not spray above a fountain or pond surface. Ponds and fountains are restricted from being filled or replenished.

Vehicle Washing: prohibited in all areas of the City except at commercial car wash stations and at commercial car dealership lots, where it shall only wash its vehicles once per month and at time of sale.

Recreation Sprinklers and Outdoor Water Toys: Prohibited

Triggers: the City Manager will enact Phase IV if the objectives of Phase III have not been met and additional action is needed. During this phase the City Manager will determine specific restrictions based on season, target demand levels and other considerations including: water supply is 60% of the average supply and JVWCD is requiring curtailment to continue adequate supply, supply levels during Phase III have not improved, or if demand levels require a greater need for a systematic response to manage the situation.

Objective: achieve targeted consumption levels and goals by restricting water use. Ensure adequate water supply during the period of restrictions to protect public safety. Minimize disruption to water users while meeting consumption goals and maintaining high water quality through periods of shortage. To ensure that water saving goals are met through clearly defined restrictions.

Termination of phase: the City Manager may revert to Phase III (Moderate to Severe Water Shortage) when the conditions and triggers listed have ceased to exist for a reasonable period of time. Upon termination of Phase IV, Phase III becomes effective unless otherwise stated.

Secondary Water Shortage Management Plan

Residential Secondary Use and Conservation Guide

What is the Secondary Water Shortage Management Plan?

South Jordan City provides secondary water to over 3,400 residents. This plan is aimed at ensuring those who have access to secondary water are able to continue using water throughout periods of drought or water shortage.

It may be necessary for the City to ask for voluntary use curtailment or to enact mandatory use restrictions to preserve its water supply. The City's secondary water system is supplied by a series of canals that receive water from Utah Lake. Delivery of water is dependent on sufficient water supply in Utah Lake. If the Lake level drops below a pre-determined level, water will not be delivered to canals.

Secondary Water Shortage Phases

To prevent the interruption of water South Jordan City has put into place this plan with the following phases:

Phase I: Advisory Phase (Green)

Phase II: Moderate Water Shortage (Yellow)

Phase III: Severe Water Shortage (Red)

	Phase I	Phase II	Phase III
Lawn Watering	Unrestricted	Voluntary	Mandatory

Phase I: Advisory Phase – Unrestricted Watering Conditions

During the advisory phase City secondary water users are not required to change their water use but are encouraged to take steps to conserve secondary water. Under advisory conditions the City has determined that the secondary water supply is enough to meet demand but that the supply may not be as healthy as historic levels.

Trigger: Utah Lake levels may not be at normal historic levels by April 1 due to low snow pack, precipitation, and/or lack of carryover storage from the previous year. Other predicted inflows are significantly below historic levels for the specific time of year and demands may not be met.

Objective: prepare utility providers and all other water users for future shortages thereby allowing all water users time for planning and coordination.

Phase II: Moderate Water Shortage – Voluntary Action Required

City secondary water users are asked to follow the voluntary secondary water conservation measures outlined below. However, the City will continue to enforce current water waste ordinance 13.08.190.

Voluntary Measures

Lawn Watering: restrict watering during periods of precipitation and between the hours of 8:00 a.m. and 8:00 p.m. Outdoor watering should be reduced to two days each week for residential users according to street address during peak months (June, July, and August). During off peak months (May and September) outdoor watering is restricted to once per week and is defined by street address.

Peak month watering schedule (June, July, and August):

- Odd numbered addresses: Monday and Friday
- Even numbered addresses: Tuesday and Saturday
- Spot watering on Sunday

Off peak watering schedule (May and August)

- Odd numbered addresses: Monday
- Even numbered addresses: Thursday
- Spot watering on Sunday

Trigger: supply levels from the advisory stage have not improved. Demand levels indicate the need for a more systematic response to manage current water supply. Water levels are at 80% of average annual supply. Secondary water authority requires curtailment to continue supply.

Objective: reduction of demand to meet target consumption levels is achieved by voluntary conservation measures. Postpone enactment of Phase III and more stringent restriction. Minimize the impact to water users while meeting the targeted water use.

Termination of Phase: the City Manager may revert to Phase I (Advisory Phase) when the conditions and triggers listed above have ceased to exist for a reasonable period of time. Upon termination of Phase II the Advisory Phase becomes effective unless otherwise stated.

Phase III: Severe Water Shortage – Mandatory Watering Restrictions

Elements of Phase III will become mandatory and enforcement of these will commence immediately, at the discretion of the Water Manager and City Manager water curtailments may also be implemented for certain types of non-essential use.

Mandatory Measures

Lawn Watering: restrict watering during periods of precipitation and between the hours of 8:00 a.m. and 8:00 p.m. All outdoor watering that uses secondary water provided by the City is restricted to two days each week for residential users according to street address during peak months (June, July, and August). During off-peak months (May and September) outdoor watering is restricted to once per week and according to street address.

Peak month watering schedule (June, July, and August):

- Odd numbered addresses: Monday and Friday
- Even numbered addresses: Tuesday and Saturday
- Spot watering on Sunday

Off-peak watering schedule (May and August)

- Odd numbered addresses: Monday
- Even numbered addresses: Thursday
- Spot watering on Sunday

Triggers: the City Manager will enact Phase III if the objectives of Phase II have not been met and additional action is needed. During this phase the City Manager will determine specific restrictions based on season, target demand levels and other considerations including: water supply is 60% of the average supply, the secondary water authority requires curtailment to continue providing adequate supply, supply levels during Phase II have not improved, or if demand levels require a greater need for a systematic response to manage the situation.

Objective: achieve targeted levels and goals by restricting outdoor water use. Ensure adequate water supply during the period of restrictions. Minimize disruption to water users while meeting consumption goals. Ensure that water saving goals are met through clearly defined restrictions.

Termination of phase: the City Manager may revert to Phase II (Moderate Water Shortage) when the conditions and triggers listed above cease to exist for a reasonable period of time. Upon termination of Phase III, Phase II becomes effective unless otherwise stated.

Culinary and Secondary Water Shortage Enforcement

South Jordan City is committed to protecting its culinary and secondary water supply and ensuring there is a continual supply of water for the future health, safety, and welfare of its citizens. Therefore the City has established an enforcement strategy that is intended to educate culinary and secondary water users about proper use of water and conservation measures. This enforcement strategy also reserves punitive action for repeat violators.

- First Violation: hand delivered notice of violation and instructions of how the violation can be corrected. Violation must be corrected within 15 days.
- Second Violation: \$100 fine assessed through the water utility bill along with a warning of subsequent fines. The violator will also be given the opportunity to attend a water conservation course provided by South Jordan City to avoid paying the \$100 fine.
- Third Violation: \$500 fine assessed through the water utility bill. If the violation continues the City shall fine \$500 every 15 days until the issue is corrected.

Public Notification and Education

Notifying and educating South Jordan City water users is imperative to the success of the Water Shortage Management Plan and the City will make every measure possible to insure residents know and understand the current restrictions. The City will use the following measures to notify and educate the public:

-Website and Social Media: the City will publish the current water use phase along with supporting information on its website www.sjc.utah.gov and the water conservation website www.watersmartsojo.org. Information will also be published on its official social media outlets.

-City Newsletter: the City will publish the current water use phase in the South Jordan City Newsletter and include a notice with the utility bill.

-City Marquees and Signs: the City will use its marquees and signs to publish the water use phase changes alerting water users to conservation measures, and to publish related messages throughout peak watering season.

-Direct Mail: in cases of severe water shortages, the City may use direct mail to ensure that all residents and businesses are informed of the water outlook and the restrictions instated.

Exception Protocols

Administrative exceptions of the restrictions in the Water Shortage Management Plan may be granted by the Public Works Director provided that the general intent of the Plan and its measures are met. Exceptions may also be granted if compliance is proving to cause practical difficulties and unnecessary hardship, and all reasonable options for abatement through modified water management have been exhausted. The criteria for determining hardship shall include, but not limited to, the level of shortage and time required to achieve compliance.

Exceptions may also be issued for a time specific period and shall stipulate both short-term and long-term measures and a schedule for termination of the exception. Such exceptions may be renewed for good cause shown.

A decision to approve or deny exceptions requests will be based upon consideration of criteria including but not limited to impact on water demand, expected duration of the current water shortage, alternative water supply options available to the city, social and economic importance, purpose of water use, and the prevention of structural damage.

Appendix A: 13.04.280 Culinary Water Curtailment Ordinance

13.04.280: CURTAILMENT.:

- A. As outlined in the Water Shortage Management Plan adopted by the city council, the city manager authorized to enact water use restrictions in time of limited water supply in accordance with the following phases:

Phase I: Advisory phase, no restrictions.

Phase II: Moderate water shortage, no restrictions, voluntary action is recommended.

Phase III: Moderate to severe water shortage, mandatory water use restriction in place for outdoor watering and vehicle washing.

Phase IV: Severe water shortage, mandatory water use restrictions in place for outdoor watering, swimming pools, outdoor fountains and ponds, vehicle washing, and recreation sprinklers and outdoor water toys.

- B. It is unlawful for any person by himself or herself, family servants or agents, to violate any proclamation made by the mayor or resolution passed by the city council in pursuance of this section and if any violation thereof occurs the water account holder where the violation occurs will receive a written notice that includes instructions for correcting the violation and a time period of 15 days. If the violation continues after the 15 day time period, the water account holder will be fined \$100.00 and be given a warning of subsequent fines. If the violation continues after the city issues a written notice and fine, the water account holder will then be fined \$500.00. The city may waive any fine if the water account holder attends a water conservation course administered by the city.

Appendix B: 13.08.210. Secondary Water Curtailment Ordinance

13.08.210: CURTAILMENT.

- A. As outlined in the Water Shortage Management Plan adopted by the city council, the city manager is authorized to enact water use restrictions in times of limited secondary water supply in accordance with the following phases:

Phase I: Advisory phase, no restrictions.

Phase II: Moderate water shortage, no restrictions, voluntary action is recommended.

Phase III: Severe water shortage, mandatory restrictions in place for outdoor secondary water use.

- B. It is unlawful for any person by himself or herself, family servants or agents, to violate any proclamation made by the mayor or resolution passed by the city council in pursuance of this section and if any violation thereof occurs the water account holder where the violation occurs will receive a written notice that includes instructions for correcting the violation in a 15 day time period. If the violation continues after the 15 day time period, the water account holder will be fined \$100.00 and be given a warning of subsequent fines. If the violation continues after the city issues a written notice and fine, the water account holder will then be fined \$500.00. The city may waive any fine if the water account holder attends a water conservation course administered by the city.