

Water Conservation and Efficiency Program Review

State of Wisconsin
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2. Status of Wisconsin's Water Conservation and Efficiency Goals and Objectives Consistent with the Basin-wide Goals and Objectives:

Wisconsin adopted water conservation and efficiency goals and objectives that are consistent with the Basin-wide goals and objectives. The goals and objectives, which were most recently revised in 2011, can be found on the Department website at:

http://dnr.wi.gov/topic/WaterUse/documents/WDNR_Statewide_WCE_Objectives_2011.pdf

Wisconsin reviews these goals and objectives every 5 years.

3. Water Conservation & Efficiency Program Overview:

The Wisconsin Legislature ratified the Great Lakes—St. Lawrence River Basin Water Resources Compact (Compact) in 2007 Wisconsin Act 227. Act 227 contains additional water conservation and efficiency requirements that go beyond the minimum required by the Compact. These requirements are codified in §281.346 (8), Wis. Stats., and ch. NR 852, Wisconsin Administrative Code.

The Water Use Section of the Wisconsin Department of Natural Resource's Bureau of Drinking Water and Groundwater developed a statewide water conservation and efficiency program that is based on Wisconsin's adaptation of the Great Lakes Regional Conservation and Efficiency Objectives. The program requires mandatory water conservation and efficiency measures for new or increased withdrawals in the Great Lakes Basin, for any new or increased diversions from the Great Lakes Basin, and for any new or increased withdrawals—statewide—that will result in a water loss averaging more than 2 million gallons per day in any 30-day period. Voluntary water conservation and efficiency measures are encouraged for existing water users throughout the state.

This program is implemented through administrative rules, water use permits, and guidance developed in cooperation with the Public Service Commission of Wisconsin (PSC) and the Wisconsin Department of Safety and Professional Services. Rules implementing the program, primarily [ch. NR 852 Wis. Adm. Code](#), establish the necessary components for a water conservation plan and identify water conservation and efficiency measures by water use sector. For withdrawals subject to mandatory water conservation and efficiency,

requirements increase as the volume of withdrawal increases. The department is also developing the voluntary side of the program through education and outreach opportunities, identifying leaders in water conservation and efficiency in each of the water use sectors, and establishing procedures to improve the water use efficiency and conservation efforts in state government facilities. This includes a new effort to develop a program encouraging adoption of agricultural irrigation practices that limit withdrawals and minimize impacts.

In addition, water supply service area plans for public water supply systems must consider water conservation alternatives when identifying options for supplying water. These plans are required by 2026 for all public water systems in Wisconsin serving populations of 10,000 or more; and are required immediately for any Great Lakes Basin public water systems serving populations of 10,000 or more seeking a new or increased withdrawal, and for applicants for diversions of Great Lakes water.

4. Consistency with Regional Objectives:

As shown in the table below, the Wisconsin program is consistent with the regional objectives in the promotion of environmentally sound and economically feasible water conservation measures. More details for each objective are available at http://www.glsregionalbody.org/Docs/Resolutions/GLSLRWRRB_Resolution_6-Conservation-Efficiency.pdf.

OBJECTIVES	LEGISLATIVE OR PROGRAM DESCRIPTION
<ul style="list-style-type: none"> ○ Guide programs toward long-term sustainable water use. 	<ul style="list-style-type: none"> ○ Adoption of Water Conservation and Water Use Efficiency Rules (NR 852), 1/1/2011 <ul style="list-style-type: none"> ○ Mandatory water conservation plans and conservation and efficiency measures for new or increased Great Lakes Basin withdrawals, all diversions of Great Lakes water, and withdrawals with a water loss of ≥ 2 MGD ○ Water Supply Service Area Planning (§. 281.348, Wis. Stats.), rules still in development
<ul style="list-style-type: none"> ○ Adopt and implement supply and demand management to promote efficient use and conservation of water resources. 	<ul style="list-style-type: none"> ○ Continued expansion of a statewide water conservation and efficiency information network representing all water use sectors ○ Establishing water conservation and efficiency guidance by water use sector ○ Implemented a pilot water use audit and water use efficiency upgrade at Peninsula State Park ○ Required water conservation plans are in place for over 288 water use permittees ○ Continued development of irrigation benchmarking program for agriculture and golf courses
<ul style="list-style-type: none"> ○ Improve monitoring and standardize data reporting among State and Provincial water conservation and efficiency programs. 	<ul style="list-style-type: none"> ○ Developed a new database for water use data ○ Developed an on-line reporting system, with ongoing system refinement. On-line reporting is available for all registered water users and reporting forms are mailed to those who choose not to report on-line. On-line system automated quality checks continue to improve reporting quality. ○ The WDNR is integrating conservation reporting into the on-line reporting system ○ Received grant from USEPA Exchange Network to develop an automated data flow from the WDNR water use database to the Great Lakes Commission and USGS
<ul style="list-style-type: none"> ○ Develop science, technology and research. 	<ul style="list-style-type: none"> ○ Co-funded a project with the Public Service Commission titled “Water Efficiency Potential Study for Wisconsin”, which was completed in late 2011 ○ Funded a project titled “Ecological Limits of Hydrologic Alteration” focused on understanding stress to fish populations due to reduced streamflows. Funded a project to develop a hydrogeologic data viewer. ○ Funded a “proof-of-concept” hydrological model to optimize stream flow, withdrawals and crop rotations in a small watershed in central Wisconsin ○ Funded a project entitled “Impacts of potato and maize management and climate change on groundwater recharge across the Central Sands” to better understand impacts of groundwater dependent agro-ecosystems.

<ul style="list-style-type: none"> ○ Develop education programs and information sharing for all water users. 	<ul style="list-style-type: none"> ○ Promoted 2015 EPA <i>WaterSense</i> Fix-a-Leak, including webpage, promotional video. ○ Participated in 2015 Wisconsin DNR State Fair Park Exhibit demonstrating efficient faucet aerators, showerheads, and toilets including handouts of <i>WaterSense</i> labeled aerators, leak detection tablets, showerheads, tattoos, jar openers (aerator removal and tightening tool) ○ Participated in 2015 Farm Technology Days demonstrating first results from new irrigation benchmarking program. ○ Participated in state conferences with displays and presentation for various water use sectors ○ Planning an interagency water conservation and efficiency webpage ○ Participated in irrigation management seminars delivered by UW-Extension ○ Participated in development of a drought early warning system for the upper Midwest.
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5. Wisconsin Water Conservation and Efficiency Program Implementation Timeline and Status:

Program Element	Status
Goals and Objectives	<ul style="list-style-type: none"> ● Completed – December 2008 ● Updated for statewide application – June 2011
Administrative rules	<ul style="list-style-type: none"> ● Chapter NR 852 , Wis. Adm. Code effective January 2011
Websites	<ul style="list-style-type: none"> ● Established DNR water conservation and efficiency page – June 2010
Fix a Leak Week Promotion	<ul style="list-style-type: none"> ● Radio, web, and TV presence – Annually in March
Information Network	<ul style="list-style-type: none"> ● Developed water conservation and efficiency information sharing –
Wisconsin State Fair	<ul style="list-style-type: none"> ● Promoted water conservation and efficiency – Annually in August
Water Conservation Plan Requirements	<ul style="list-style-type: none"> ● Integrated requirements into new water use permit review and issuance process – December 2011
Water Use Audits	<ul style="list-style-type: none"> ● Pilot water use audit project at Peninsula State Park – Completed 2013
Sector Guidance	<ul style="list-style-type: none"> ● Developed sector specific benchmarks to inform water conservation and efficiency guidance – first implemented August 2014