

## STATEWIDE DROUGHT PLAN MATRIX

Drought Phase/Triggers	State and Federal Actions	Water Users and Suppliers Actions
<p><b>NON-DROUGHT PHASE</b> A significant portion of the watershed (<a href="#">see map</a>) is not under drought conditions according to the U.S. Drought Monitor.</p> <p>The U.S. Drought Monitor is a weekly index depicting the location and intensity of drought conditions using a blend of quantitative and qualitative indicators. Drought conditions referenced in this plan are keyed to the U.S. Drought Monitor. <a href="http://drought.unl.edu/dm/monitor.html">http://drought.unl.edu/dm/monitor.html</a></p>	<ul style="list-style-type: none"> <li>➤ Develop/maintain precipitation, stream flow, ground water and water quality monitoring programs.</li> <li>➤ Conduct state and regional water studies and coordinate actions.</li> <li>➤ Assist water suppliers and other users in developing conservation measures.</li> <li>➤ Continue and improve water conservation education.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Develop/update/implement water supply plans (including drought preparedness and response and water conservation programs).</li> <li>➤ Adopt conservation rate structures and ordinances.</li> <li>➤ Establish mutual aid agreements, interconnections, conservation education, redundant/alternative supplies, etc.</li> <li>➤ Minimize water supply system losses and improve water use efficiency.</li> </ul>
<p><b>DROUGHT WATCH PHASE</b> A significant portion of the watershed (<a href="#">see map</a>) is “<b>Abnormally Dry</b>” or in a “<b>Moderate Drought</b>”.</p>	<ul style="list-style-type: none"> <li>➤ Inform Drought Task Force of conditions.</li> <li>➤ Intensify selected monitoring activities.</li> <li>➤ Initiate public awareness.</li> <li>➤ <b>Notify water suppliers of moderate drought conditions.</b></li> <li>➤ Monitor Mississippi River flows and coordinate with the U.S. Army Corps of Engineers (USACE) and hydropower facility owners.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Monitor potential conflicts and problems and notify DNR of source conflicts.</li> <li>➤ <b>Public water suppliers provide conservation information and request customers to implement voluntary measures to reduce water use.</b></li> </ul>
<p><b>DROUGHT WARNING PHASE</b> A significant portion of the watershed (<a href="#">see map</a>) is in a “<b>Severe Drought</b>”, or <b>for public water suppliers using the Mississippi River, the average daily flow at the USGS gage near Anoka is at or below 2000 cfs for five consecutive days.</b></p>	<ul style="list-style-type: none"> <li>➤ Convene Drought Task Force.</li> <li>➤ Increase public drought awareness.</li> <li>➤ <b>Notify water suppliers of severe drought conditions.</b></li> <li>➤ Monitor implementation of the Mississippi River System-Wide Low-Flow Management Plan.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Public water suppliers implement appropriate water use restrictions contained in their water supply plans.</li> <li>➤ Other water users implement appropriate conservation measures.</li> <li>➤ <b>Public water suppliers implement water use reduction actions with a goal of reducing water use to 50% above January levels.</b></li> <li>➤ Dam operators implement the Mississippi river System-Wide Low-Flow Management Plan.</li> </ul>
<p><b>RESTRICTIVE PHASE</b> A significant portion of the watershed (<a href="#">see map</a>) is in an “<b>Extreme Drought</b>”, or <b>for public water suppliers using the Mississippi River, the average daily flow at the USGS gage near Anoka is at or below 1500 cfs for five consecutive days.</b></p>	<ul style="list-style-type: none"> <li>➤ <b>Notify water suppliers of extreme drought conditions.</b></li> <li>➤ Closely monitor river flows.</li> <li>➤ Continue drought awareness efforts to encourage conservation.</li> </ul>	<ul style="list-style-type: none"> <li>➤ Follow MDNR allocation restrictions.</li> <li>➤ <b>Public water suppliers implement water use reduction actions with a goal of reducing water use to 25% above January levels.</b></li> <li>➤ All appropriators conserve water and minimize non-essential water uses.</li> </ul>
<p><b>EMERGENCY PHASE</b> A significant portion of the watershed (<a href="#">see map</a>) is in an “<b>Exceptional Drought</b>”, or highest priority water supply needs are not being met, or there are threatened or actual electricity shortages due to cooling water supply shortages, or <b>for public water suppliers in the Twin Cities, the average daily flow of the Mississippi River USGS gage near Anoka is at or below 1000 cfs for five consecutive days.</b></p>	<ul style="list-style-type: none"> <li>➤ <b>Advise Governor on need for emergency declaration.</b></li> <li>➤ Minnesota Division of Homeland Security and Emergency Management implements MN Emergency Operations Plan (MEOP).</li> <li>➤ Consider request to the USACE for the release of water from the Mississippi River Headwaters Reservoirs.</li> </ul>	<ul style="list-style-type: none"> <li>➤ <b>Public water suppliers implement mandatory water use reduction actions with a goal of reducing water use to January levels.</b></li> <li>➤ Limit water used based on highest priorities defined in <b>Minnesota Statutes 103G.261.</b></li> <li>➤ Implement measures consistent with an emergency declaration.</li> <li>➤ Provide bottled water, hauled water, and sanitations supplies to users, as needed.</li> </ul>