

WATER SHORTAGE CRITERIA COMPARISON

PROGRAM COMPONENTS	SFWMD	SJRWMD	SWFWMD
<p>Policy and purpose</p> <ul style="list-style-type: none"> • Protect resource from serious harm • Equitable distribution of available water • Minimize economic impact • Provide advance knowledge of apportionments 	<p>40E-21.011</p> <ul style="list-style-type: none"> • Protect water from serious harm • Avoid undue hardship • Ensure equitable distribution of water resources • Knowledge of how water will be apportioned • Promote WUP permittee security 	<p>40C-21.001</p> <ul style="list-style-type: none"> • Protect resource from serious harm • Equitable distribution of available water • Minimize economic impact • Provide advance knowledge of apportionments • Minimize adverse economic, social and health related impacts • Promote greater security for water use permittees 	<p>40D-21.011</p> <ul style="list-style-type: none"> • Protect water from serious harm • Avoid undue hardship • Ensure equitable distribution of water resources • Knowledge of how water will be apportioned • Promote WUP permittee security
<p>Condition evaluation</p> <ul style="list-style-type: none"> • Real time monitoring • Surface and ground water • Present and anticipated supply • Present and anticipated user demands • Comparison of demands to impact on resource and if serious harm may occur • Minimum flows / levels exceedance 	<p>40E-21.221 Evaluating Conditions</p> <ul style="list-style-type: none"> • Monitoring supply and demand conditions at least monthly • Determination of shortage phase depends upon current / projected status • Comprehensive District real-time monitoring of water resource conditions and modeled projections (monthly or bi-monthly basis) assess water supply availability and water user demands • MFL status for surface and ground water bodies is assessed throughout system • C & SF Project features and regulation schedules are considered • See also: 40E-21.401 	<p>40C-21.221</p> <ul style="list-style-type: none"> • Resource monitoring • Demand monitoring • Comparison of current to historical data to estimate present and anticipated user demands • Estimate present and anticipated available water supply • Current and anticipated flows and levels 	<p>40D-21, Part II</p> <p>40D-21.211 and Table 21-1, Monitoring</p> <ul style="list-style-type: none"> • Drought indicators (12-mo and 24-mo rainfall, 8 – wk and 7-day streamflow, aquifer levels) • Additional considerations (lake levels, NOAA precipitation outlooks, public supply status, etc) <p>40D-21.221, Evaluation</p> <ul style="list-style-type: none"> • Monitoring conditions at least monthly • Determination of shortage depending upon current/ projected status

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<p>Water shortage declaration</p> <ul style="list-style-type: none"> • Standard to declare (insufficient water available) • Source affected (surface / ground) • Geographic area affected • Use class • Restrictions on withdrawals • 4 phases, escalating in severity of restrictions 	<p>40E-21.231 Declaring a Water Shortage</p> <ul style="list-style-type: none"> • Declared according to Source Class in 40E-21.631 (groundwater by water table and confined / semi-confined due to surface and rainfall recharge and surface waters by identified basin and generally related to C & SF Project) • Applied to geographic area affected by shortage (impacted sources and users that use them) <p>40E-21.251 Water Shortage Phases: moderate, severe, extreme critical with escalating severity of restrictions from 15% – 60%</p> <p>40E-21.631 Source Classes defined</p> <p>40E-21.651 Use Classes divided into four major groupings: essential / domestic / utility / commercial; agricultural; nursery / urban irrigation / recreation; and miscellaneous with numerous sub-groups</p> <p>40E-21.671 Method of withdrawal classifications (surface water, pump, gravity flow, artesian well, pumped well, infiltration gallery)</p> <p>40E-21.271, 40E-21.521 - .551 state both general and specific water shortage restrictions by use classification. The Governing Board has discretion to modify the restrictions stated in rule to adapt restrictions to resource conditions.</p>	<p>40C-21.231</p> <ul style="list-style-type: none"> • May declare water shortage warning when increased likelihood of insufficient water or to protect water resources from serious harm • May call for voluntary/reduction in demand • May declare water shortage when insufficient water • May declare water shortage within all or part of WMD • Will coordinate with other WMDs and Georgia to extent practicable when boundaries of affected sources extend beyond district boundaries 	<p>40D-21.231</p> <ul style="list-style-type: none"> • Declared according to Source Class in 40D-21.531 (groundwater, aquifers, surface waters, streams/lakes) • Applied to geographic area affected by shortage (impacted sources and users that use them) <p>40D-21.251, 4 phases – moderate, severe, extreme critical</p> <p>40D-21.531, Source Classifications – groundwater, aquifer levels, surface water, streams/lakes</p> <p>40D-21.451, Use Classifications – indoor, essential, commercial/industrial, ag, and landscape uses (with sub-classifications for lawn/landscape, cemeteries, golf courses, driving ranges, other athletic play areas)</p> <p>40D-21.571, Withdrawal Classifications – surface water, pump, gravity flow, groundwater, artesian wells, pumped wells</p> <p>40D-21.621, Phase I, Moderate Water Shortage</p> <ul style="list-style-type: none"> • At least one drought indicator has moderately abnormal value • Alert local gvmts, others to prepare for possible worsening of conditions • Continue to follow year-round measures (watering 2x/week, 12a-10a or 4p-11:59p)
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			<ul style="list-style-type: none"> • Uses voluntarily reduced, • WUP Conditions, BMPs • No restrictions on car washing, aesthetic features, or pressure washing <p>40D-21.631, Phase II, Severe Water Shortage</p> <ul style="list-style-type: none"> • Multiple drought indicators have moderately abnormal values or one drought indicator has a several abnormal value • Conditions warrant prudent action to ensure reasonable uses only • Watering hours restricted to 12:00a-8a or 6p-11:59a; Dec-Feb 1x/week, Mar-Nov 2x/week • Reduce off-site discharge, recycle water, reduce clean-up activities, maximize use of least restricted Source Class • Car washing restricted to appropriate watering day • Aesthetic water features –8 hours/day; some exemptions • Pressure washing only as necessary and annual aesthetics • Restrictions on HOA enforcement of activities requiring water use (even if use itself is otherwise allowed) • Accelerate conservation/enforcement efforts
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			<p>40D-21.641, Phase III, Extreme Water Shortage</p> <ul style="list-style-type: none"> • Multiple drought indicators have severely abnormal values, or one drought indicator has an extremely abnormal value • Conditions warrant minimization of nonessential water use, preparation for supply augmentation • Watering 12:00a-8a or 6p-11:59p; 1x/week only • Microirrigation and handwatering only during allowable irrigation hours • Eliminate off-site discharge, recycle water, reduce clean-up activities, maximize use of least restricted Source Class • Golf course irrigation further restricted • Car washing on allowed watering day • Aesthetic water features – 4 hours/day, with exemptions • Pressure washing only as necessary, but not for annual aesthetic purposes • Restricts HOA enforcement for activities requiring water use (even if use itself is otherwise allowed) <p>40D-21.651, Phase IV, Critical Water Shortage</p> <ul style="list-style-type: none"> • Multiple drought indicators have extremely abnormal values, or one drought indicator has a critically abnormal
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			<p>value</p> <ul style="list-style-type: none">• Conditions warrant temporary suspension of nonessential use/initiation of supply augmentation• Watering days – 1x/week from 12a-4a only (irrigation systems) and handwatering from 4a-8a or 6p-10p only• If conditions warrant, District may ban all irrigation except microirrigation and handwatering• Car washing prohibited• Aesthetic water features prohibited, with exemptions• Pressure washing only allowed for necessary purpose if professional- grade is used• Restricts HOA enforcement for activities requiring water use (even if use itself is otherwise allowed)
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Water Shortage Phases		<p>40C-21.251 Establishes 4 plans as a function of estimated reduction in demand needed to meet estimated and anticipated available water supply</p>	
<p>Restrictions</p> <p>1. General:</p> <ul style="list-style-type: none"> • Voluntary user agreements • Metering and reporting (CUP condition linkage) • MFL linkage • Shifting to unrestricted source • Monitoring levels and chloride • Restrictions on total withdrawal amount, timing of use, pumping / diversion rates 	<p>40E-21.271</p> <ul style="list-style-type: none"> • Provides broad latitude for Board ordering restrictions, in addition to or in lieu of the specific restrictions stated in the rule, affecting any geographic area, use class or source class. Additional restrictions that may be considered include: voluntary agreements, metering and reporting of all water used, diverted, etc. • Linked to MFL program as stated in both 40E-8 and 40E-22, the regional water shortage plans • Allowing users to shift to unrestricted sources • Providing for monitoring water 	<p>40C-21.271</p> <ul style="list-style-type: none"> • Voluntary user agreements • Metering and reporting of all water used, diverted, impounded or withdrawn • MFL linkage • Shifting to unrestricted source • Monitoring levels and chloride 	<p>40D-21.601(4) prohibits three general kinds of wasteful/unnecessary water use (in addition to specific kinds in 40D-22.201(2))</p> <p>Linkage to CUP conditions and shifting to least restricted source is provided in each phase (and for irrigation, through 40D-22.201)</p> <p>40D-22.201, Year-Round Conservation Measures</p> <ul style="list-style-type: none"> • Applicable to all users • Prohibits five specific wasteful/ unnecessary use practices • General irrigation uses – prohibited from 10a to 4p; low volume methods, hand watering/spot treatment not restricted; exception

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	<p style="text-align: center;">levels and chlorides</p> <p>CUP limiting conditions may also be triggered and require increased monitoring and reporting.</p> <p>40E-21.501 Upon declaration of a shortage, use of water in a manner inconsistent with restrictions is prohibited and subject to enforcement. Wasteful and unnecessary water use is prohibited, regardless of phase and includes allowing water to be dispersed without purpose, or in a grossly inefficient manner, or for a purpose which is unnecessary or which can be accomplished through alternative methods without water use.</p>		<p>for establishment of new plant material; no restriction on reclaimed, requests voluntary conservation between 10a and 4p; provides application rates</p> <ul style="list-style-type: none"> • Additional criterial applicable to certain types of use • Golf Course and Agriculture uses must maintain compliance with all CUP/WUP terms/ conditions or follow specific measures in the rule (see below)
<p>Restrictions</p> <p style="margin-left: 20px;">2. Specific:</p> <ul style="list-style-type: none"> • Use classes • Time of day • Hours of use • Extensive details (balancing factors e.g.: economic impact, efficiency of use, nature of use, public health / safety, etc.) 	<p>40E-21.521 – Phase I Moderate</p> <ul style="list-style-type: none"> • Essential/Domestic/Utility/Commercial • Agriculture • Nursery/Landscape Irrigation/Recreation • Miscellaneous <p>Restrictions stated by use class and, generally, restrict hours and times of day (balancing factors e.g., economic impact, efficiency of use, nature of use, public health/ safety, etc.)</p> <p>No phase 1 or 2 restrictions for efficient ag uses</p> <p>40E-21.531 – Severe</p> <ul style="list-style-type: none"> • Use classes • Time of day • Hours of use • Extensive details (balancing factors e.g., economic impact, 	<p>40C-21.371</p> <p>40C-21.551, Use Classes</p> <ul style="list-style-type: none"> • Essential/Domestic/Utility/Commercial • Agriculture • Nursery/Landscape Irrigation/Recreation • Miscellaneous <p>40C-21.621, Moderate Water Shortage</p> <ul style="list-style-type: none"> • Use classes • Time of day • Hours of use • Extensive details (balancing factors e.g., economic impact, efficiency of use, nature of use, public health /safety, etc.) <p>40C-21.631, Severe Water Shortage</p> <ul style="list-style-type: none"> • Use classes • Time of day • Hours of use • Extensive details (balancing factors 	<p>40D-22.201(4), Lawn and Landscape Use</p> <ul style="list-style-type: none"> • M/Th for even addresses • W/Sa for odd addresses • T/F for common areas, rights of way, properties w/o discernible address • Cemeteries or other properties > 2 acres may water ½ on even days, ½ on odd days • Automated irrigation systems must have properly operated/maintained rain sensors, moisture sensors or other technology to prevent unneeded irrigation <p>40D-22.201(5), Golf Courses</p> <ul style="list-style-type: none"> • Follow IFAS irrigation BMPs

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	<p>efficiency of use, nature of use, public health/ safety, etc.)</p> <p>40E-21.541 – Extreme (As above, with increased restrictions)</p> <p>40E-21.551 – Critical (As above, with increased restrictions)</p>	<p>e.g., economic impact, efficiency of use, nature of use, public health/ safety, etc.)</p> <p>40C-21.641, Extreme Water Shortage</p> <ul style="list-style-type: none"> • Use classes • Time of day • Hours of use • Extensive details (balancing factors e.g., economic impact, efficiency of use, nature of use, public health/safety, etc.) <p>40C-21.651, Critical Water Shortage</p> <ul style="list-style-type: none"> • Use classes • Time of day • Hours of use • Extensive details (balancing factors e.g., economic impact, efficiency of use, nature of use, public health/safety, etc.) 	<ul style="list-style-type: none"> • Fairways/roughs/driving ranges irrigated no more than 2x/week • Tees/greens irrigated no more than 3x/week, with exceptions for plant protection (frost/freeze or heat stress) <p>40D-22.201(6), Athletic Play Areas</p> <ul style="list-style-type: none"> • Allows wetting of clay fields immediately prior to play to ensure athlete/animal safety, sports standards, dust control • Allows one extra irrigation after heavy league play for baseball, softball, football, soccer, polo, other turfgrass fields to encourage turf repair and maintain safe play conditions • ½ irrigated on M/T and T/F
<p>Region Specific Water Shortage Plan</p> <ul style="list-style-type: none"> • Linked to minimum flows / levels • Triggers for Board to consider when evaluating water shortage declaration by phase (I – IV) 	<p>40E-21.221(3)(d)</p> <ul style="list-style-type: none"> • Evaluation shall consider MFLs and associated rules regarding water shortage and MFLs (40E-8 and 40E-22). MFLs shall be implemented allowing for shared adversity between CUP and water resources consistent with 373 and above chapters <p>Chapter 40E-22</p> <ul style="list-style-type: none"> • Trigger levels for Board consideration as to several surface water bodies, especially Lake Okeechobee, are stated by phase. 	<p>40C-21.231</p> <ul style="list-style-type: none"> • Board will consider effect of local responses, anticipated available supply, and jurisdictional boundaries <p>40C-21.271</p> <ul style="list-style-type: none"> • Linked to minimum flows / levels <p>40C-21.401</p> <ul style="list-style-type: none"> • Monitoring • Evaluation of drought indicators <p>40C-21.221</p> <ul style="list-style-type: none"> • Seasonal influences • Ability to implement phased restrictions • Potential for serious harm to natural systems 	<p>40D-21.231</p> <ul style="list-style-type: none"> • Board will consider effect of local responses, anticipated available supply, and jurisdictional boundaries <p>40D-21.251</p> <ul style="list-style-type: none"> • Evaluation of drought indicators • Seasonal influences • Availability of AWS • Ability to implement phased restrictions • Potential for serious harm to natural systems • Geography • Effectiveness of current restrictions • Adverse impacts of restrictions to public

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	<p>40E-8.421</p> <ul style="list-style-type: none">• Conceptual model identifying the relationships between water resource protection requirements of 373 (harm, significant harm, serious harm, and reservations) is stated, in addition to MFL recovery and prevention strategies and the District’s overarching program is explained. <p>40E-8.441</p> <ul style="list-style-type: none">• Details regarding integration of the District’s MFL program with the Water Shortage Plan are stated and include, in summary: (1) shortage restrictions will be imposed, per rules, if an MFL exceedance is occurring during conditions more severe than a 1 in 10 year drought to the extent consumptive uses contribute to such exceedance; (2) shortage restrictions will not be used in placed of an approved recovery plan to provide hydrologic benefits that are to be provided by recovery strategy; (3) MFL criteria will not be utilized to trigger shortage restrictions during conditions less severe than a 1 in 10 drought; (4) restrictions will be implemented considering factors in 40E-21 and the Board shall consider 6 stated factors; Phase 3 restrictions shall be		<p>health, safety, or welfare</p>
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	implemented allowing for a shared adversity between continuing use & resource needs		
<p>Linked to Federal Project Operations</p> <ul style="list-style-type: none"> C & SF Project Seminole Tribe 	<ul style="list-style-type: none"> 40E-22 Various C & SF Project regulation schedules Water Rights Compact 	n/a	n/a
<p>Component of MFL Program</p> <ul style="list-style-type: none"> Circumstances for imposition of restrictions addressed Equitable distribution of water to prevent serious harm with phased cutbacks Not use shortage restrictions in place of recovery strategy Specific factors to consider when declaring shortage to protect MFL water body defined 	<p>40E-21.221(3)(d), evaluation of water conditions shall consider MFLs and the provisions of Chs. 40E-8 and 40E-22 summarized above. MFLs shall be implemented allowing for a shared adversity between consumptive uses and water resources.</p> <p>40E-21.271(3)(d) General Restrictions allows for additional restrictions to be considered in light of MFLs</p> <p>Ch. 40E-22, see especially: 40E-22.332 (Summarized above)</p> <p>40E-8.421, 40E-8.431, 40E-8.441 (Summarized above)</p>	<p>40C-21.221</p> <ul style="list-style-type: none"> Circumstances for imposition of restrictions addressed <p>40C-21.271</p> <ul style="list-style-type: none"> Circumstances for imposition of restrictions addressed Provisions designed to maintain minimum flows and minimum levels, established pursuant to Section 373.042, F.S <p>40C-21.651</p> <ul style="list-style-type: none"> Circumstances for imposition of restrictions addressed 	<p>40D-21.251, Water Shortage Phases</p> <p>See also 40D-2 and 40D-80</p>
Variances	<p>40E-21.275 Variances from Water Shortage rules may be requested, conditions for issuance are stated as are limiting conditions. Generally, the minimum necessary variance to alleviate the circumstance eligible for the variance is allowed. Application contents and procedures are stated and provide for Executive Director action</p>	<p>40C-1.1004, Variances from Water Shortage Rules requesting relief from provisions of 40C-21, F.A.C.</p>	<p>40D-22.303, Variances – file petition for variance/waiver in accordance w/Section 120.542, F.S., and Chapter 28-104, F.S.</p>
Monitoring	<p>40E-21.401 (by District, regarding both resource and demands, sources may include data from</p>	<p>40C-21.401</p> <ul style="list-style-type: none"> Data collection and analysis Water quality 	<p>40D-21.211, Monitoring</p> <ul style="list-style-type: none"> Drought indicators (rainfall, streamflow, aquifer levels)

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	<p>permittees and local, state, federal govt.)</p> <p>CUP limiting conditions may also require additional monitoring and / or more frequent reporting</p>	<ul style="list-style-type: none"> • Flows in surface waters • Transfers of water from one source class to another • Demand of natural systems • Rainfall • Impacts on fish and wildlife <p>40C-21.231</p> <ul style="list-style-type: none"> • protect against salt water intrusion or other deterioration <p>40C-21.271</p> <ul style="list-style-type: none"> • protect against salt water intrusion or other deterioration 	<ul style="list-style-type: none"> • Regional lake levels • US Drought Monitor • Precipitation outlooks (NOAA) • Public supply status – reporting specific to each phase • WUP Condition Reporting
<p>Enforcement</p>	<p>40E-21.421</p> <ul style="list-style-type: none"> • Cooperation and assistance of the State, county and municipal governmental officials, law enforcement officials • Encourages adoption of local ordinances • Enforcement as provided in Section 373.603 and 373.609, F.S., as to ‘partnership’ with local enforcement entities 	<p>40C-21.421</p> <ul style="list-style-type: none"> • Cooperation and assistance of the State, county and municipal governmental officials, law enforcement officials • Encourages adoption of local ordinances • Enforcement as provided in Section 373.603, F.S. 	<p>40D-21.421, Water Shortage Declaration</p> <ul style="list-style-type: none"> • cooperation with local enforcement entities pursuant to Section 373.609, F.S. • Encourages adoption of local ordinances • District enforcement w/focus on WUP permittee • Enforcement as provided in Section 373.603, F.S. <p>40D-21.421, Year-Round Conservation Measures</p> <ul style="list-style-type: none"> • Partnerships with local enforcement entities pursuant to Section 373.609, F.S. • Allows local governments to enact more restrictive criteria • Allows District staff to initiate enforcement pursuant to 373.603 • Allows Executive Director to take action pursuant to Sections 373.119, 373.175(4), 373.246(7), and 120.69, F.S.

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Not applicable to treated effluent or seawater	40E-21.011 Applicable if blended with another traditional water source	40C-21.001	Applicable if blended with another traditional water source
Statutory authorities §§ 373.175, 373.246, 373.171, 373.042, 373.0421, 373.219, 373.086			