

# **APPENDIX G DROUGHT TRIGGERS AND ACTIONS**



Table G-1  
Drought Triggers and Actions by Water Provider

Water Provider	Water Sources	Stage 1 - Mild Drought		Stage 2 - Moderate Drought		Stage 3 - Severe Drought		Stage 4 - Critical Drought		Stage 5 - Emergency Drought	
		Stage 1 Trigger	Response	Stage 2 Trigger	Response	Stage 3 Trigger	Response	Stage 4 Trigger	Response	Stage 5 Trigger	Response
<b>Brookesmith SUD (Retail)</b>	Sales from BCWID #1	Daily water demand equals or exceeds 85% (3.4 MG) for 3 consecutive days or 4 MG on a single day.	Achieve a 5% reduction in water use. Reduce or discontinue the flush of water mains. Contact wholesale water customers. Voluntary water use restrictions.	Daily water demand equals or exceeds 90% (3.6 MG) for 3 consecutive days or 4 MG on a single day.	Achieve a 15% reduction in water use. May reduce or discontinue flushing of water mains and irrigation of public landscaped areas. Water use restrictions, including watering schedule and prohibition of non-essential water uses.	When imminent or actual failure of major component which would cause immediate health or safety hazard.	Achieve a 30% reduction in water use. May reduce or discontinue the flushing of water mains. Same mandatory water use restrictions as Stage 2, except more limited water schedule, prohibition of water uses, no applications for additional water connections. Water Allocation Plan may be implemented by GM.	Emergency water shortage when major water line breaks or pump / system fail occurs and causes loss of capability.	Achieve a 50% reduction in water use. BMPs to manage critical water shortage conditions. Same mandatory water use restrictions as Stage 2 and 3, except more limited water schedule, prohibition of further water uses, no applications for additional water connections.	N/A	N/A
<b>Brookesmith SUD (Wholesale)</b>	Sales from BCWID #1	Daily water demand equals or exceeds 85% (3.4 MG) for 3 consecutive days or 4 MG on a single day.	Achieve a 5% reduction in water use. Reduce or discontinue the flush of water mains. Contact wholesale water customers. Request initiation of voluntary measures. Weekly report to news media.	Daily water demand equals or exceeds 90% (3.6 MG) for 3 consecutive days or 4 MG on a single day.	Achieve a 15% reduction in water use. May reduce or discontinue flushing of water mains and irrigation of public landscaped areas. Request wholesale water customers to initiate mandatory measures. GM will prepare for implementation of pro rate curtailment. Weekly report to news media.	When imminent or actual failure of major component which would cause immediate health or safety hazard.	Achieve a 30% reduction in water use. Discontinue the flushing of water mains. Request wholesale water customers to initiate additional mandatory measures. GM will initiate pro rate curtailment. Weekly report to news media.	Emergency water shortage when major water line breaks or pump / system fail occurs and causes loss of capability.	Assess severity of problem and identify actions needed and time required to solve the problem. Notify appropriate city, county, state emergency response officials, if appropriate. Undertake necessary actions, including repairs and/or clean-up as needed. Prepare post-event assessment report.	N/A	N/A
<b>Brown County WID</b>	Lake Brownwood	Lake Brownwood is below elevation 1,420 feet msl. (76% capacity)	Achieve a 5% reduction in water use. Advise customer of early conditions. Require customers to initiate Stage 1 of Drought Contingency Plans. Increase public education. Request voluntary conservation measures.	Lake Brownwood is below elevation 1,417 feet msl. (64% capacity)	Achieve a 15% reduction in water use. Request decrease in water usage. Implement watering restrictions. May reduce water delivery in accordance with pro rate curtailment.	Lake Brownwood is below elevation 1,414 feet msl. (52% capacity)	Achieve a 30% reduction in water use. Request to severely reduce water usage. Watering restrictions. District may reduce water delivery in accordance with pro rata curtailment. May utilize alternative water sources with TCEQ Director approval.	Lake Brownwood is below elevation 1,411 feet msl. (43% capacity)	Achieve a 50% reduction in water use. District may call an emergency meeting with customers. Completely restrict watering. May evaluate the need to discontinue delivery of water for second crops and non-essential uses. May reduce water delivery in accordance with pro rata curtailment. May utilize alternative water sources with TCEQ Director approval.	Lake Brownwood is below elevation 1,408 feet msl. (34% of reservoir capacity). Mechanical or system failures occur. Natural or man-made contamination. Discretion of BCWID General Manager or Board of Directors.	Declaration of an emergency water shortage condition. District will assess severity of the problem and identify actions and time to solve it. May call an emergency meeting with customers. May reduce or eliminate water delivery in accordance with pro rata. May utilize alternative water sources with TCEQ Director approval.
<b>Brownwood</b>	Sales from BCWID #1	Brown County WID #1 declares Stage 1 Drought. High demand on system. Drought monitor indicates drought conditions.	Achieve a 5% reduction in total water use. Voluntary watering schedule. Notify major commercial and industrial water users. Increase leak detection and repair efforts. Daily evaluations of SCADA system and/or operations. May consider water rate increase or water use surcharge.	Brown County WID #1 declares Stage 2 Drought. Inability to maintain 70% storage capacity overnight due to high demand. Demand exceeds 85% capacity for 3 consecutive days. Demand exceeds 90% capacity for 1 day.	Achieve 15% reduction in total water use. Mandatory watering schedule. Initiate 50% reduction in irrigation of parks and landscapes. Reduce commercial and purchased wholesale use by 20%. Increase utility oversight of water waste. May consider water rate increase or water use surcharge.	Brown County WID #1 declares Stage 3 Drought. Inability to maintain 50% storage capacity overnight due to high demand. Demand exceeds 90% capacity for 3 consecutive days. Demand exceeds 95% capacity for 1 day.	Achieve 30% reduction in total water use. Mandatory watering schedule and water use restrictions. Non-essential commercial water reduced by 20%. Require wholesale customers to reduce purchased water use by 30%. Implement utility enforcement of watering schedule and water waste. May consider water rate increase or water use surcharge.	Brown County WID #1 declares Stage 4 Drought. Inability to maintain 35% storage capacity overnight due to high demand. Demand exceeds 95% capacity for 3 consecutive days. Demand exceeds 100% capacity for 1 day.	Achieve 50% reduction in total water use. Mandatory watering schedule. Reduce non-essential commercial water use by 50% to 100%. Require wholesale customers to reduce purchased water use by 50%. Increase utility enforcement of water schedule and waste. May consider water rate increase or water use surcharge.	Same triggers as Stage 4 with addition of one or more secondary triggers. Lake levels less than one year supply. Inability to achieve Stage 4 goals.	Achieve 50% reduction in total water use. Prohibit water use according to a watering schedule. Reduce non-essential commercial use by 75% to 100%. Require wholesale customers to reduce purchased water use by 50%. Increase utility enforcement of water schedule and waste. May consider water rate increase or water use surcharge.
<b>Coleman County SUD</b>	Lake Coleman, Hords Creek Lake	Lake Coleman lake level is equal to or less than 1705.5 ft elevation. USACE curtails the amount of water that the City can obtain from Hords Creek Lake. Daily water demand for City of Coleman equals or exceeds 3.3 MGD for 5 consecutive days.	Achieve a voluntary 10% reduction in daily water demand. GM will monitor limited water supplies and/or reduce water demand. GM will contact City and Brookesmith SUD. Lawn watering schedule restriction. Weekly news report.	Lake Coleman lake level is equal to or less than 1702 ft elevation. USACE significantly curtails the amount of water that the City can obtain from Hords Creek Lake.	Achieve a 20% reduction in daily water demand. Confer with City and Brookesmith SUD. City may modify reservoir operations. Water use restrictions and penalties. Fines for violations.	Lake Coleman lake level is equal to or less than 1700 ft elevation. USACE completely curtails the amount of water that the City can obtain from Hords Creek Lake.	Achieve a 30% reduction in total water use. Meet weekly with City and Brookesmith SUD. Consider tapping reserves in Lake Scarborough. More stringent water use restrictions and penalties.	Major water main break, pump or system failures occur, or any event which cause unprecedented loss of the capability to provide water service, or natural or man-made contamination of the water supply source(s).	Assess severity and identify actions needed and time required to solve. Notify city, county, and/or state emergency response officials for assistance if needed. Undertake necessary actions as needed. Prepare post-event assessment report.	N/A	N/A
<b>Colorado River Municipal Water District (CRMWD)</b>	O.H. Ivie Reservoir	O.H. Ivie Reservoir capacity is less than 138,028 ac-ft or System capacity is less than 77,998 ac-ft.	Achieve a 2% reduction in total water use. Begin 'pump back' operation as needed. Initiate studies to evaluate alternative actions if conditions worsen. Request any or all WUGs to implement Stage 1 or their drought contingency plan.	O.H. Ivie Reservoir capacity is less than 107,060 ac-ft or System capacity is less than 58,499 ac-ft.	Achieve a 5% reduction in total water use. Notify TCEQ within 5 business days of any mandatory measures to be implemented. Request any or all WUGs to implement Stage 2 of their drought contingency plan.	O.H. Ivie Reservoir capacity is less than 76,092 ac-ft or System capacity is less than 38,999 ac-ft.	Achieve a 10% reduction in total water use. Initiate Ward County Well Field System pipeline expansion project. Initiate additional studies if conditions worsen. Request any or all WUGs to implement stage 3 of their drought contingency plan.	Emergency water shortage when a pipeline break, equipment failure, or contamination severely limits distribution capacity.	Assess severity and identify actions needed and time required to solve. Inform utility director to alleviate problem. Notify city, county, and/or state emergency response officials for assistance if needed. Undertake necessary actions as needed.	N/A	N/A

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Drought Triggers and Actions by Water Provider

Water Provider	Water Sources	Stage 1 - Mild Drought		Stage 2 - Moderate Drought		Stage 3 - Severe Drought		Stage 4 - Critical Drought		Stage 5 - Emergency Drought	
		Stage 1 Trigger	Response	Stage 2 Trigger	Response	Stage 3 Trigger	Response	Stage 4 Trigger	Response	Stage 5 Trigger	Response
Ector County Utility District (ECUD)	Sales from Odessa	Daily water demands exceed 90% of City of Odessa's treatment plant's capacity to produce or pump water for three consecutive days.	Achieve a voluntary 1 to 5% reduction in daily water demand. Raise public awareness, request voluntary reductions in nonessential water use.	Daily water demands exceed 95% of City of Odessa's treatment plant's capacity to produce or pump water for three consecutive days.	Achieve a 5 to 10% reduction in daily water demand. Implement mandatory restriction on nonessential water uses. Irrigation watering schedule, mandatory water restrictions, prohibit non-essential water uses.	Daily water demands exceed 98% of City of Odessa's treatment plant's capacity to produce or pump water for three consecutive days or moderate conditions have remained in effect for an extended period.	Achieve a 10 to 15% reduction in daily water demand. Implement bans on certain types of non-essential water uses. Prohibit watering of landscaped areas and non-essential uses. Other limits on industrial, commercial, or residential customers deemed necessary by the Administrator.	Extended duration of severe conditions. Extreme operational conditions such as major line breaks, pump or system failures which cause loss of capability to provide normal water service. Natural or man-made contamination of water sources.	Contact large water users to require they cease landscape irrigation and reduce all other water uses. Implement Severe Condition restriction as needed. Implement Emergency Response Program. City Council may implement a surcharge system for water use over specified volume.	N/A	N/A
Eden	City Well Field	Distribution system tank storage levels remain below 75 percent for a continuous three day period.	Achieve a voluntary 10% reduction in daily water demand. Reduce flushing of water mains. Voluntary water use restrictions.	Distribution system tank storage levels remain below 60 percent for a continuous three day period.	Achieve a 25% reduction in total daily water use. Reduce flushing of water mains, reduce park water. Irrigation watering schedule, limit hydrant use, prohibit non-essential water uses.	Distribution system tank storage levels remain below 50 percent for a continuous three day period.	Achieve a 35% reduction in total daily water use. Refrain from flushing mains, park watering, filling swimming pools. Irrigation watering schedule and limitations on irrigation watering use. Unmetered water for construction under special permit is discontinued.	Major water main break, pump or system failures occur, or any event which cause unprecedented loss of the capability to provide water service, or natural or man-made contamination of the water supply sources occur.	Achieve a 50% reduction in total daily water use. Refrain from flushing mains, park watering, filling swimming pools. Irrigation of landscaped areas is prohibited. Other outdoor uses are prohibited. Administrator authorized to allocate water according to water allocation plan.	N/A	N/A
Fort Stockton	City Well Field	Annually May 1 through September 30. Demand equals or exceeds 5 MG for 3 consecutive days or 6 MG on a single day.	Achieve voluntary 20% reduction in total water uses. Reduce to 4 MG daily demand. Voluntary water use restrictions.	Demand equals or exceeds 5MG for 7 consecutive days or 6 MG on a single day.	Achieve voluntary 20% reduction in total water uses. Reduce to 4 MG daily demand. Irrigation watering schedule, mandatory water use restrictions, prohibit non-essential water uses.	Demand equals or exceeds 6 MG for 7 consecutive days or 7 MG on a single day.	Achieve voluntary 33% reduction in total water use. Lower to 4MG daily demand. Requirements of Stage 2 shall remain in effect except: irrigation watering schedule further limited, watering of golf course tees is prohibited, use of water for construction purposes is discontinued.	Demand equals and exceeds 7 MG for 1 consecutive days or when static water level in the City of Fort Stockton water supply well(s) is equal to or greater than 300 feet.	Achieve voluntary 43% reduction in total water use, and reduce daily water demand to an acceptable daily demand of 4 MG. Requirements of Stage 2 and 3 shall remain in effect. Irrigation watering schedule is further limited. Prohibition of water water outdoor and non-essential water uses.	Major water line breaks, pump or system failures that cause unprecedented loss of water system. Natural or man-made water supply contamination.	Achieve a voluntary 70 percent reduction in total water use, reduce daily water demand to 2 MG. Requirements of Stage 2, 3, and 4 shall remain in effect. Irrigation of landscaped areas is prohibited. Use of water for vehicle washing is prohibited.
Grandfalls	Sales from CRMWD	Annually May 1 through September 30. Pursuant to wholesale contract, CRMWD requests initiation of Stage 1 of the Drought Contingency Plan.	Achieve a reduction in both total water use and daily water demand. Voluntary water use restrictions.	Pursuant to wholesale contract, CRMWD requests initiation of Stage 2 of the Drought Contingency Plan. Total daily water demand equals or exceeds 300,000 gal for 3 consecutive days, demand for 500,000 gal for a single day, continually falling treated water reservoir levels do not refill to 100% overnight.	Achieve a reduction in both total water use and daily water demand. Irrigation watering schedule, mandatory water use restrictions, prohibit non-essential water uses.	Pursuant to wholesale contract, CRMWD requests initiation of Stage 3 of the Drought Contingency Plan. Total daily water demand equals or exceeds 400,000 gal for 3 consecutive days, demand for 600,000 gal for a single day, continually falling treated water reservoir levels do not refill to 75% overnight.	Achieve a reduction in both total water use and daily water demand. Requirements of Stage 2 shall remain in effect except: irrigation watering schedule further limited, watering of golf course tees is prohibited, use of water for construction purposes is discontinued.	Pursuant to wholesale contract, CRMWD requests initiation of Stage 4 of the Drought Contingency Plan. Total daily water demand equals or exceeds 500,000 gal for 3 consecutive days, demand for 700,000 gal for a single day, continually falling treated water reservoir levels do not refill to 50% overnight.	Achieve a reduction in both total water use and daily water demand. Requirements of Stage 2 and 3 shall remain in effect except: irrigation watering schedule is further limited, prohibition of outdoor and non-essential water uses, no applications for new, additional, expanded, or increased water connections.	Major water line breaks, pump or system failures that cause unprecedented loss of water system. Natural or man-made water supply contamination. Continually falling treated water reservoir levels do not refill above 25% overnight.	Achieve a reduction in both total water use and daily water demand. Requirements of Stage 2, 3, and 4 shall remain in effect except: irrigation of landscaped areas is prohibited, use of water to wash vehicles is prohibited.
Millersview-Doole	Sales from CRMWD, Groundwater	Average daily water use reaches 1.56 MGD (currently 60% of system capacity) for three consecutive days. Consideration will be given to weather conditions, time of year, and customer complaints of low water pressure.	Reduce usage by 10%. Inform the public. Implement mandatory lawn watering schedule; water restrictions; pipe insulation; monitoring water pressure in distribution system and water levels in storage tanks.	Average daily water use reaches 1.95 MGD (currently 60% of system capacity) for three consecutive days. Net storage in water usage is continually decreasing on a daily basis and falls below 720,000 gal (60% capacity) for 48 hours. Water pressures reach 35 psi in distribution system.	Reduce usage by 15%. Inform the public. Continue actions from Stage 1. Prohibit outdoor water use. Prohibit non-essential water uses (water line flusing, washing corporation vehicles). Purchase customers for non-compliance to curtailment measures.	Immminent or actual failure of major component of the system which would cause an immediate health or safety hazard. Water demand exceeding 1.95 MGD (currently 75% of system capacity) for three consecutive days. Failure of supplier to deliver contracted water. Available water supply is so low that pumps cannot pump daily water demand.	Reduce usage by 25%. Inform the public. Prohibit water use certain commercial water users which are not essential to health and safety of the community.	N/A	N/A	N/A	N/A
Midland	Sales from CRMWD, City Well Field, O.H. Ivie Reservoir	CRMWD initiates Stage 1. Request from CRMWD due to limitation in available supplies or transmission. Demand reaches 45 MGD (94% of the treatment plant capacity) plus 50% of well field capacity for 5 consecutive days.	Achieve voluntary 10% reduction in daily water demand. Reduced flushing of water mains and increased use of alternative supply source(s) if available. Voluntary water use restrictions. Request for customers to practice water conservation and minimize or discontinue non-essential water use.	CRMWD initiates Stage 2. Request from CRMWD due to limitation in available supplies or their transmission lines. Demand reaches or exceed 55 MGD (95% of water plant's capacity) for 5 consecutive days or 60 MG in a single day.	Achieve 15% reduction in daily water demand. Implement reduced flushing of water mains, increased use of an alternative supply source(s). Irrigation watering schedule. Mandatory water use restrictions. Prohibit non-essential water uses.	CRMWD initiates Stage 3. Failure or threatening failure of a major system component will result in immediate health or safety hazard. Total daily water demand reaches the system limit.	Achieve 20% reduction in daily water demand. Reduce flushing of water mains, reduced irrigation of public landscaped areas to minimum required to avoid vegetation loss, increased use of an alternative supply source. All requirements of Stage 2 except: a more stringent irrigation watering schedule, prohibit watering of golf course tees.	CRMWD initiates Stage 4. Treated water storage levels do no restore overnight.	Achieve a 25% reduction in daily water demand. Reduced or discontinued flushing of water mains, reduced or discontinued irrigation of public landscaped areas, increased use of an alternative supply source. All requirements of Stage 2 and 3 except: more stringent outdoor watering schedules, prohibit various outdoor water uses, no applications for new, additional, expanded, or increased-in-size water connections.	Major water line breaks, or pump or system failure occurs, which cause unprecedented loss of capability to provide water service. Natural or man-made contamination of water supply sources.	Achieve a 30 day sustainable demand level which well fields can provide 25 MGD. Discontinued flushing of water mains, discontinued irrigation of public landscaped areas, use of an alternative supply source(s). All requirements of Stage 2, 3, and 4 shall remain in effect except: irrigation of landscaped areas is prohibited, use of water to wash vehicles is prohibited.

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		Stage 1 Trigger	Response	Stage 2 Trigger	Response	Stage 3 Trigger	Response	Stage 4 Trigger	Response	Stage 5 Trigger	Response
Odessa	Sales from CRMWD	Daily demand > 90% of treatment plant's capacity to produce or pump water for three consecutive days.	Achieve voluntary 1-5% reduction in daily water demand. Raise public awareness of need to conserve water supply. Request voluntary reductions in nonessential water use. Notify industrial users and request voluntary water use restrictions.	Daily demand > 95% of treatment plant's capacity to produce or pump water for three consecutive days.	Achieve 5-10% reduction in daily water demand. Implement mandatory restrictions on nonessential water. Reduce fire hydrant flushing except where needed to maintain water quality. Irrigation watering schedule. Mandatory water use restrictions. Prohibit non-essential water uses.	Daily demand > 98% of treatment plant's capacity to produce or pump water for three consecutive days or the moderate conditions have remained in effect for an extended period.	Achieve 10-15% reduction in daily water demand. Implement ban on certain types of non-essential water uses. Consider implementation of a surcharge for excess water usage. Discontinue all fire hydrants flushing except where critical to maintaining water quality. Reduce or discontinue irrigation of public landscaped areas irrigated with the raw or potable water sources. Prohibit non-essential water uses.	Extended duration of severe conditions. Extreme operational conditions such as major line breaks, pump or system failures which cause loss of capability to provide normal water service. Natural or man-made contamination of water sources.	Reduce water usage as deemed necessary by the Administrator to alleviate the emergency conditions, maintain fire flows, and/or state requirements for the maintenance of distribution systems. Implement emergency response appropriate for the type and anticipated duration of the emergency. Contact all water users to require they cease landscape irrigation and reduce water uses. Implement Emergency Response Program.	Extended duration of severe conditions. Extreme operational conditions such as major line breaks, pump or system failures which cause loss of capability to provide normal water service. Natural or man-made contamination of water sources.	N/A
Red Bluff Power Control District	Red Bluff Lake	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
San Angelo	City Well Field, O.H. Ivie Reservoir	Minimum daily groundwater production coupled with the total amount of surface water available is less than a 24-month supply.	Achieve a 10% reduction in water use. Various outdoor watering use restrictions. Water usage fee.	Minimum daily groundwater production coupled with the total amount of surface water available is less than an 18-month supply.	Achieve a 15% reduction in water use. Various outdoor watering use restrictions. Water usage fee.	Minimum daily groundwater production coupled with the total amount of surface water available is less than a 12-month supply.	Achieve a 25% reduction in water use. Various outdoor watering use restrictions. Water usage fee.	N/A	N/A	N/A	N/A
Snyder	Sales from CRMWD	Begin April 1st to Sept 30th.	Voluntarily limit the use of water for nonessential purposes and to practice water conservation.	Average daily water use exceeds the plant capacity for three consecutive days. CRMWD is unable to supply the daily raw water demand.	Achieve 15% reduction in daily water demand. Visually inspect lines and repair leaks on a daily basis. Reduce landscape irrigation to half the normal irrigation schedule. Voluntary outdoor water use reductions and watering schedule.	Imminent or actual failure of a major component of the system, which would cause an immediate health or safety hazard. Water demand is exceeding the firm system capacity of 8 MGD for 3 consecutive days. Average daily water use exceeds the plant capacity for 3 consecutive days. CRMWD is unable to supply the daily water demand.	Achieve 30% reduction in daily water demand. Visually inspect lines and repair leaks on a regular basis. Irrigation watering schedule. Mandatory water use restrictions. Prohibit non-essential water uses.	Major water main break, pump or system failures occur, or any event which cause unprecedented loss of the capability to provide water service, or natural or man-made contamination of the water supply sources occur.	Achieve a maximum reduction as possible to maintain potable water delivery. Irrigation of landscaped areas is absolutely prohibited. Use of water to wash vehicles is prohibited.	N/A	N/A
Sonora	City Well Field	Average daily water consumption reaches 80% of production capacity of water system (2.01 MGD). Consumption (80%) has existed for 3 days. Weather conditions are considered to be in a drought classification determination.	Develop Information Center and designate Information Person. Advise public. Encourage voluntary reduction of water use. Contact wholesale, commercial, and industrial users and explain initiation. Implementation of system oversight and make adjustments needed.	Average daily water consumption reaches 85% of production capacity of water system (2.13 MGD). Weather conditions indicate mild drought for 5 or more days. One GST or well is taken out of service. Storage capacity (water level) is not 100% maintained during period of 85% production. Existence of any listed condition in Stage 1 for 36 hours.	Outdoor residential use (washing vehicles, landscape or recreational sprinklers, etc.) of water will be permitted only on specified days. City Administrator will monitor system function and establish hours for outside use. Information Center will keep public advised. Commercial and industrial users will be notified to insure mandatory conservation initiation.	Average daily water consumption reaches 90% of production capacity of water system (2.26 MGD). Average daily water consumption will not enable storage level to be maintained and/or recover fully during low demand periods. System demand meets or exceeds 90% max. daily average. Any two conditions listed in Stage 2 occur at same time during 24-hour period.	The City Administrator will ban the use of water for: (1) vehicle washing, window washing, outdoor watering (lawn, shrub, faucet, dripping garden, etc.); (2) Public water uses not essential for health, safety, and sanitary purposes; (3) Commercial users not listed and industrial users will be controlled to the extent dictated by the City Administrator.	Average daily water consumption reaches 95% of production capacity of water system (2.39 MGD). Average daily water consumption will not enable storage level to be maintained above 90% of normal water storage capacity. System demand exceeds max. daily average. Any two conditions listed in Stage 3 occur at same time during 24-hour period.	The City Administrator will ban the use of water for: (1) vehicle washing, window washing, outdoor watering (lawn, shrub, faucet, dripping garden, etc.); (2) Public water uses not essential for health, safety, and sanitary purposes; (3) Commercial users not listed and industrial users will be controlled to the extent dictated by the City Administrator. Wholesale customers shall be notified and initiate curtailment procedures for mandatory DCP measures (if none, follow Sonora's DCP).	Average daily water consumption reaches 100% of production capacity of water system (2.51 MGD). Average daily water consumption will not enable storage level to be maintained above 75% of normal water storage capacity. System demand exceeds peak daily average. Any two conditions listed in Stage 4 occur at same time during 24-hour period. Water system is contaminated. Water system fails (act of God, natural disaster, man).	The City Administrator will ban use of water for all water use, except for water needed for health and human consumption.
Upper Colorado River Authority (UCRA)	Sales from City of San Angelo	The amount of water available, to the City of San Angelo and its developed water sources is less than a 24-month supply.	Achieve a voluntary 10% reduction in daily water demand. Outdoor watering schedule and restrictions.	The amount of water available, to the City of San Angelo and its developed water sources is less than a 18-month supply.	Achieve a 15% reduction in daily water demand. Outdoor watering schedule and restrictions. Prepare for implementation of pro rata curtailment.	The amount of water available, to the City of San Angelo and its developed water sources is less than a 12-month supply.	Achieve a 20% reduction in daily water demand. Outdoor watering is prohibited. Other water uses are prohibited. UCRA Director will contact water customers. If City of San Angelo curtails water delivery to UCRA, they will initiate pro rata curtailment.	City of San Angelo's water distribution system reaches a level that exceeds the amount which may be treated or safely delivered through the system. Water system failure or emergency which limits the amount of water that may be treated or safely delivered through the City of San Angelo's system.	Assess the severity of the problem and communicate with City of San Angelo regarding any water use restriction resolution(s) passed by the San Angelo City Council.	N/A	N/A



**Table G-2  
Source, Manager, and User**

Source	Manager	User
Ballinger/Moonen Lake	Ballinger	Ballinger
		North Runnels WSC
		County-Other (Runnels County)
		Manufacturing (Runnels County)
Lake Balmorhea	Reeves County WCID #1	Irrigation (Reeves County)
Lake Brownwood	Brown County WID #1	Bangs
		Brookesmith SUD
		Brownwood
		Coleman County SUD
		County-Other (Brown County)
		Early
		Santa Anna
		Zephyr WSC
		Irrigation (Brown County)
		Manufacturing (Brown County)
Brady Creek Reservoir	Brady	Brady
		County-Other (McCulloch County)
Lake Coleman	Coleman	Coleman County SUD
		Coleman
		County-Other (Coleman County)
		Irrigation (Coleman County)
Champion Lake	Texas Electric Service Company	Manufacturing (Coleman County)
		Steam Electric Power (Mitchell County)
Colorado River MWD Reservoir System	CRMWD	Big Spring
		Coahoma
		County-Other (Scurry County)
		Ector County UD
		Midland
		Odessa
		Rotan
		Snyder
		Stanton
		Irrigation (Ector County)
		Irrigation (Midland County)
		Manufacturing (Ector County)
		Manufacturing (Howard County)
		Steam Electric Power (Ector County)
Steam Electric Power (Howard County)		

**Table G-2  
Source, Manager, and User**

Source	Manager	User
Colorado River MWD Reservoir (O.H. Ivie) Non-System	CRMWD	Abilene
		Midland
		San Angelo
		Millersview-Doole WSC
		Ballinger
Hords Creek Lake	USACE	Coleman County SUD
		Coleman
		County-Other (Coleman County)
		Irrigation (Coleman County)
		Manufacturing (Coleman County)
Oak Creek	Sweetwater	Bronte
		Robert Lee
		County-Other (Coke County)
		Sweetwater
		Steam Electric Power (Coke County)
O.C. Fisher	San Angelo	San Angelo
		Goodfellow Air Force Base
		UCRA (Miles, Concho Rural WSC, County-Other (Concho, Tom Green), Mining (Tom Green)
		Manufacturing (Tom Green County)
Red Bluff Lake	Red Bluff Water Power Control District	Irrigation (Pecos County)
		Irrigation (Reeves County)
		Irrigation (Ward County)
San Angelo System (Twin Buttes, Nasworthy)	San Angelo	San Angelo
		Goodfellow Air Force Base
		UCRA (Miles, Concho Rural WSC, County-Other (Concho, Tom Green), Mining (Tom Green)
		Manufacturing (Tom Green County)
Lake Winters	Winters	County-Other (Runnels County)
		Manufacturing (Runnels County)
		Winters
Colorado Run-of-River - Brown County		Irrigation (Brown County)
Colorado Run-of-River - Coke County		Irrigation (Coke County)
Colorado Run-of-River - Coleman County		Irrigation (Coleman County)
Colorado Run-of-River - Concho County		County-Other (Concho County)
		Irrigation (Concho County)
Colorado Run-of-River - Ector County		Irrigation (Ector County)
Colorado Run-of-River - Irion County		Irrigation (Irion County)
Colorado Run-of-River - Kimble County		Irrigation (Kimble County)
		Manufacturing (Kimble County)
		Mining (Kimble County)
Colorado Run-of-River - Kimble County	Junction	Junction



**Table G-2  
Source, Manager, and User**

Source	Manager	User
Colorado Run-of-River - McCulloch County		Irrigation (McCulloch County)
Colorado Run-of-River - Menard County		Irrigation (Menard County) Menard
Colorado Run-of-River - Mitchell County		Irrigation (Mitchell County)
Colorado Run-of-River - Runnels County		Irrigation (Runnels County)
Colorado Run-of-River - Sterling County		Irrigation (Sterling County)
Colorado Run-of-River - Sutton County		Irrigation (Sutton County)
Concho Run-of River - Tom Green County	San Angelo	San Angelo
		Goodfellow Air Force Base
		UCRA (Miles, Concho Rural WSC, County-Other (Concho, Tom Green), Mining (Tom Green)
		Manufacturing (Tom Green County)
Rio Grande Run-Of-River - Jeff Davis County (Region E)		County-Other (Reeves County)
		Irrigation (Jeff Davis County Region E)
Rio Grande Run-of-River - Pecos County		Irrigation (Pecos County)
Capitan Reef Complex Aquifer - Pecos County		Irrigation (Pecos County)
		Livestock (Pecos County)
Cross Timbers Aquifer - Brown County		County-Other (Brown County)
		Irrigation (Brown County)
		Livestock (Brown County)
		Mining (Brown County)
Cross Timbers Aquifer - Coleman County		Irrigation (Coleman County)
Cross Timbers Aquifer - Concho County		None reported
Cross Timbers Aquifer - McCulloch County		None reported
Cross Timbers Aquifer - Runnels County		None reported
Dockum Aquifer - Andrews County		Livestock (Andrews County)
		Manufacturing (Andrews County)
Dockum Aquifer - Borden County		Livestock (Borden County)
Dockum Aquifer - Crane County		Manufacturing (Crane County)
Dockum Aquifer - Ector County		Mining (Ector County)
Dockum Aquifer - Howard County		County-Other (Howard County)
		Irrigation (Howard County)
		Livestock (Howard County)
		Mining (Howard County)
Dockum Aquifer - Irion County		Mining (Irion County)
Dockum Aquifer - Loving County		Livestock (Loving County)
		Mining (Loving County)

**Table G-2  
Source, Manager, and User**

Source	Manager	User
Dockum Aquifer - Mitchell County		Colorado City
		Loraine
		Mitchell County Utility
		County-Other (Mitchell County)
		Irrigation (Mitchell County)
		Livestock (Mitchell County)
		Manufacturing (Mitchell County)
		Mining (Mitchell County)
Dockum Aquifer - Reagan County		Irrigation (Reagan County)
Dockum Aquifer - Reeves County		Livestock (Reeves County)
		Pecos (Reeves County)
Dockum Aquifer - Scurry County		County-Other (Scurry County)
		Irrigation (Scurry County)
		Livestock (Scurry County)
		Manufacturing (Scurry County)
		Mining (Scurry County)
Dockum Aquifer - Upton County		Irrigation (Upton County)
		Manufacturing (Upton County)
Dockum Aquifer - Ward County		County-Other (Ward County)
		Irrigation (Ward County)
		Livestock (Ward County)
Dockum Aquifer - Winkler County		County-Other (Winkler County)
		Kermit
		Livestock (Winkler County)
		Manufacturing (Winkler County)
		Mining (Winkler Other)
Edwards-Trinity (Plateau) Aquifer - Andrews County		Irrigation (Andrews County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Coke County		County-Other (Coke County)
		Irrigation (Coke County)
		Livestock (Coke County)
		Mining (Coke County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Concho County		Eden
		County-Other (Concho County)
		Livestock (Concho County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Crockett County		County-Other (Crockett County)
		Crockett County WCID #1
		Irrigation (Crockett County)
		Livestock (Crockett County)
		Manufacturing (Crockett County)
		Mining (Crockett County)

**Table G-2  
Source, Manager, and User**

Source	Manager	User
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Ector County		County-Other (Ector County)
		Greater Gardendale WSC
		Irrigation (Ector County)
		Livestock (Ector County)
		Mining (Ector County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Glasscock County		County-Other (Glasscock County)
		Irrigation (Glasscock County)
		Livestock (Glasscock County)
		Manufacturing (Glasscock County)
Edwards-Trinity (Plateau) Aquifer - Howard County		Mining (Glasscock County)
		County-Other (Howard County)
		Irrigation (Howard County)
		Livestock (Howard County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Irion County		Manufacturing (Howard County)
		County-Other (Irion County)
		Irrigation (Irion County)
		Livestock (Irion County)
		Manufacturing (Irion County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Kimble County		Mertzon
		Mining (Irion County)
		County-Other (Kimble County)
		Irrigation (Kimble County)
		Livestock (Kimble County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - McCulloch County		Manufacturing (Kimble County)
		Mining (Kimble County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Menard County		Livestock (McCulloch County)
		Manufacturing (McCulloch County)
		County-Other (Menard County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Midland County		Irrigation (Menard County)
		Livestock (Menard County)
		Mining (Menard County)
		Airline Mobile Home Park LTD
		County-Other (Midland County)
		Irrigation (Midland County)
		Livestock (Midland County)
Midland		
Manufacturing (Midland County)		
Mining (Midland County)		
		Odessa

**Table G-2  
Source, Manager, and User**

Source	Manager	User
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Pecos County		County-Other (Pecos County)
		Fort Stockton
		Iraan
		Irrigation (Pecos County)
		Livestock (Pecos County)
		Manufacturing (Pecos County)
		Mining (Pecos County)
		Pecos County Fresh Water
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Reagan County		Big Lake
		County-Other (Reagan County)
		Irrigation (Reagan County)
		Livestock (Reagan County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Schleicher County		County-Other (Schleicher County)
		El Dorado
		Irrigation (Schleicher County)
		Livestock (Schleicher County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Sterling County		County-Other (Sterling County)
		Irrigation (Sterling County)
		Livestock (Sterling County)
		Mining (Sterling County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Sutton County		County-Other (Sutton County)
		Irrigation (Sutton County)
		Livestock (Sutton County)
		Manufacturing (Sutton County)
		Mining (Sutton County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Tom Green County		Sonora
		Concho Rural WSC
		County-Other (Tom Green County)
		Irrigation (Tom Green County)
		Livestock (Tom Green County)
Edwards-Trinity (Plateau), Pecos Valley, and Trinity Aquifer - Upton County		County-Other (Upton County)
		Irrigation (Upton County)
		Livestock (Upton County)
		Manufacturing (Upton County)
		Mining (Upton County)
Ellenburger-San Saba Aquifer - Mason County		Rankin
		County-Other (Mason County)
Ellenburger - San Saba Aquifer - McCulloch County		Livestock (Mason County)
		Mining (McCulloch County)
Ellenburger - San Saba Aquifer - Menard County		Livestock (McCulloch County)
		Mining (Menard County)

**Table G-2  
Source, Manager, and User**

Source	Manager	User
Hickory Aquifer - Concho County		Millerview-Doole WSC
Hickory Aquifer - Kimble County		Irrigation (Kimble County)
Hickory Aquifer - Mason County		County-Other (Mason County)
		Irrigation (Mason County)
		Livestock (Mason County)
		Mason
		Mining (Mason County)
Hickory Aquifer - McCulloch County		Brady
		County-Other (McCulloch County)
		Irrigation (McCulloch County)
		Livestock (McCulloch County)
		Manufacturing (McCulloch County)
		Millersview-Doole WSC
Hickory Aquifer - Menard County		Irrigation (Menard County)
Hickory Aquifer - Runnels County		Miles
		Millersview-Doole WSC
Hickory Aquifer - Tom Green County		Concho Rural Water
		County-Other (Tom Green County)
		Goodfellow Air Force Base
		Manufacturing (Tom Green County)
		Millersview-Doole WSC
		Mining (Tom Green County)
Igneous Aquifer - Reeves County		Irrigation (Reeves County)
		Livestock (Reeves County)
Lipan Aquifer - Concho County		Irrigation (Concho County)
Lipan Aquifer - Irion County		Mining (Irion County)
Lipan Aquifer - Runnels County		Livestock (Runnels County)
		Manufacturing (Runnels County)
		Miles
Lipan Aquifer - Sterling County		Sterling City
Lipan Aquifer - Tom Green County		Concho Rural WSC
		County-Other (Tom Green County)
		DADS Supported Living Center
		Irrigation (Tom Green County)
		Livestock (Tom Green County)
		Manufacturing (Tom Green County)
		Mining (Tom Green County)
Tom Green County FWSD 3		
Marble Falls Aquifer - Kimble County		County-Other (Kimble County)
Marble Falls Aquifer - McCulloch County		Irrigation (McCulloch County)
		Richland SUD

**Table G-2  
Source, Manager, and User**

Source	Manager	User
Ogallala and Edwards-Trinity (High Plains) Aquifer - Andrews County		Andrews
	Great Plains Water System Inc.	County-Other (Andrews County)
		Irrigation (Andrews County)
		Livestock (Andrews County)
		Manufacturing (Andrews County)
	Great Plains Water System Inc.	Mining (Andrews County)
	Great Plains Water System Inc.	Steam Electric Power (Ector County)
	Midland	
Ogallala and Edwards-Trinity (High Plains) Aquifer - Borden County		County-Other (Borden County)
		Irrigation (Borden County)
Ogallala and Edwards-Trinity (High Plains) Aquifer - Dawson County		County-Other (Borden County)
Ogallala Aquifer - Ector County		County-Other (Ector County)
		Irrigation (Ector County)
		Livestock (Ector County)
Ogallala and Edwards-Trinity (High Plains) Aquifer - Gaines County		Steam Electric Power (Ector County)
Ogallala Aquifer - Glasscock County		Livestock (Glasscock County)
		Irrigation (Glasscock County)
Ogallala and Edwards-Trinity (High Plains) Aquifer - Howard County		County-Other (Howard County)
		Irrigation (Howard County)
		Livestock (Howard County)
		Manufacturing (Howard County)
		Mining (Howard County)
	Steam Electric Power (Howard County)	

**Table G-2  
Source, Manager, and User**

Source	Manager	User
Ogallala and Edwards-Trinity (High Plains) Aquifer -Martin County		Ector County Utility District
		Odessa
		Manufacturing (Ector County)
		Irrigation (Ector County)
		Coahoma
		Manufacturing (Howard County)
		Steam Electric Power (Howard County)
		County-Other (Martin County)
	CRMWD	CRMWD system customers
		Irrigation (Martin County)
		Livestock (Martin County)
	University Lands	Midland
		Mining (Martin County)
	Stanton	Stanton
		Odessa
	Irrigation (Midland County)	
	Snyder	
	County - Other (Scurry County)	
Ogallala Aquifer - Midland County		Airline Mobile Home Park LTD
		County-Other (Midland County)
		Greenwood Water
		Irrigation (Midland County)
		Livestock (Midland County)
		Manufacturing (Midland County)
		Mining (Midland County)
Other Aquifer - Borden County		County-Other (Borden County)
		Irrigation (Borden County)
		Mining (Borden County)
Other Aquifer - Coke County		Bronte (Coke County)
		County-Other (Coke County)
		Irrigation (Coke County)
		Livestock (Coke County)
		Robert Lee
Other Aquifer - Coleman County		Mining (Coleman County)
Other Aquifer - Concho County		County-Other (Concho County)
		Eden
		Irrigation (Concho County)
		Mining (Concho County)
Other Aquifer - Mason County		County - Other (Mason County)
Other Aquifer - McCulloch County		Livestock (McCulloch County)
		County-Other (McCulloch County)
Other Aquifer - Mitchell County		Livestock (Mitchell County)
Other Aquifer - Pecos County		Livestock (Pecos County)

**Table G-2**  
**Source, Manager, and User**

Source	Manager	User
Other Aquifer - Runnels County		County-Other (Runnels County)
		Irrigation (Runnels County)
		Livestock (Runnels County)
		Mining (Runnels County)
Other Aquifer - Scurry County		County-Other (Scurry County)
		Livestock (Scurry County)
Pecos Valley Aquifer - Andrews County		County - Other (Andrews County)
		Livestock (Andrews County)
		Irrigation (Andrews County)
Pecos Valley, Edwards-Trinity (Plateau) Aquifer - Crane County		Crane
		County - Other (Crane County)
		Manufacturing (Crane County)
		Mining (Crane County)
		Livestock (Crane County)
Pecos Valley, Edwards-Trinity (Plateau) Aquifer - Jeff Davis County		Balmorhea
		Madera Valley WSC
		County - Other (Reeves County)
Pecos Valley, Edwards-Trinity (Plateau) Aquifer - Loving County		County - Other (Loving County)
		Mining (Loving County)
		Livestock (Loving County)
Pecos Valley, Edwards-Trinity (Plateau) Aquifer - Pecos County		Pecos County WCID #1
		Mining (Pecos County)
		Irrigation (Pecos County)
Pecos Valley, Edwards-Trinity (Plateau) Aquifer - Reeves County		Madera Valley WSC
		Conty - Other (Reeves County)
		Manufacturing (Reeves County)
		Mining (Reeves County)
		Livestock (Reeves County)
		Irrigation (Reeves County)



**Table G-2**  
**Source, Manager, and User**

Source	Manager	User
Pecos Valley, Edwards-Trinity (Plateau) Aquifer - Ward County		Crane
		County - Other (Crane County)
		Ector County Utility District
		Odessa
		Manufacturing (Ector County)
		Irrigation (Ector County)
		Big Spring
		Coahoma
		Manufacturing (Howard County)
		Steam Electric Power (Howard County)
		Stanton
		Midland
		Odessa
		Irrigation (Midland County)
		Pecos
		Snyder
		County - Other (Scurry County)
		Grandfalls
		Monahans
		Southwest Sandhills WSC
	Wickett	
	County - Other (Ward County)	
	Manufacturing (Ward County)	
	Mining (Ward County)	
	Steam Electric Power (Ward County)	
	Livestock (Ward County)	
	Irrigation (Ward County)	
Pecos Valley, Edwards-Trinity (Plateau) Aquifer - Winkler County		Midland
		Monahans
		Wink
		County - Other (Winkler County)
		Mining (Winkler County)
		Livestock (Winkler County)
	Irrigation (Winkler County)	
Rustler Aquifer - Loving County		Mining (Loving County)
Rustler Aquifer - Pecos County		Irrigation (Pecos County)
		Livestock (Pecos County)
Rustler Aquifer - Reeves County		Irrigation (Reeves County)
Trinity Aquifer - Brown County		County-Other (Brown County)
		Irrigation (Brown County)
		Livestock (Brown County)
		Mining (Brown County)



**Table G-3  
Drought Triggers and Actions by Source**

Source Name	Type (sw/gw)	Factor considered	TRIGGERS						ACTIONS					
			Source Manager			Users			Source Manager			Users		
			Mild	Severe	Critical/ Emergency	Mild	Severe	Critical/ Emergency	Mild	Severe	Critical/ Emergency	Mild	Severe	Critical/ Emergency
Ballinger/ Moonen Lake	sw	Water Level	1,666	1,662	1,658	same as manager			outside watering limits; request voluntary reduction of use	outside watering limits; fines for violation	prohibit outdoor use; prohibit non essential use; fines	outside watering limits; voluntary reduction of use	outside watering limits; fines for violation	prohibit outdoor use; prohibit non essential use; fines
Lake Balmorhea	sw	Capacity/ Rainfall	<70% intake pond capacity; or no rainfall for 15 consecutive days	<50% intake pond capacity; or no rainfall for 20 consecutive days	<70% intake pond capacity; or no rainfall for 15 consecutive days	same as manager			Achieve voluntary 60% reduction of use for nonessential purposes; water conservation	Achieve 85% reduction in daily water demand. Implement BMPs for supply management.	Achieve 90% reduction in total water usage. Implement BMPs for supply management.	same as manager		
Lake Brownwood	sw	Water Level	1,420	1,417	1,414	same as manager			Initiate stage 1 of DCP; increase public education; request voluntary reduction of use	Initiate stage 2 of DCP; request decrease in use; implement watering restrictions	Initiate stages 3/4 of DCP; request to severely reduce use; may curtail usage and discontinue nonessential uses	Initiate stage 1 of DCP; voluntary reduction of use	Initiate stage 2 of DCP; decrease in use; implement watering restrictions	Initiate stages 3/4 of DCP; severely reduce use; may have reduced deliveries; discontinue all nonessential uses
Brady Creek Reservoir	sw	Supply as % of Demand	supply <= 80% of consumptive needs	supply <= 70% of consumptive needs	supply <= 60% of consumptive needs	same as manager			voluntary 10% reduction of use	20% reduction of use; outdoor watering limits	30% reduction of use; prohibit outdoor water use	same as manager		
Lake Coleman	sw	Water Level	1705 or demand => 3.3 MGD for 5 consecutive days	1,702	1,700	same as manager			voluntary 10% reduction of use; limit outdoor watering; public education	20% reduction; potential pro rata curtailment of customers; further watering restrictions	30% reduction; pro rata curtailment of customers; further watering restrictions	same as manager		
Champion Creek Reservoir	sw													
CRMWD System	sw	Reservoir Storage	< 77,998 ac-ft capacity	< 58,499 ac-ft capacity	< 38,999 ac-ft capacity	same as manager			initiate studies to evaluate alternative actions; begin 'pump back' operatoin as needed; request initiation of Stage 1 of DCPs	continue or initiate actions from Stage 1; initiate studies to evaluate alternative actions; request initiation of Stage 2 of DCPs	continue or initiate actions from Stages 1 or 2; initiate Ward County Well Field System pipeline expansion project; initiate studies to evaluate alternative actions; request initiation of Stage 3 of DCPs; implement alternative supplies	Initiate stage 1 of DCP	Initiate stage 2 of DCP	Initiate stage 3 of DCP
Hords Creek Lake	sw	Demand/ Curtailment	COE curtails usage or demand => 3.3 MGD for 5 consecutive days	COE significantly curtails usage	COE completely curtails usage	same as manager			voluntary 10% reduction of use; limit outdoor watering; public education	20% reduction; potential pro rata curtailment of customers; further watering restrictions	30% reduction; pro rata curtailment of customers; further watering restrictions	same as manager		

**Table G-3  
Drought Triggers and Actions by Source**

Source Name	Type (sw/gw)	Factor considered	TRIGGERS						ACTIONS					
			Source Manager			Users			Source Manager			Users		
			Mild	Severe	Critical/ Emergency	Mild	Severe	Critical/ Emergency	Mild	Severe	Critical/ Emergency	Mild	Severe	Critical/ Emergency
Nasworthy	sw	San Angelo System Supply	< 24 months supply	< 18 months supply	< 12 months supply	same as manager			watering restrictions; water usage fees	increased watering restrictions; increased water usage fees	increased watering restrictions; increased water usage fees	same as manager		
Oak Creek	sw	Water Level	10 ft. below the spillway (51.5% of capacity)	18 ft. below the spillway	19.7 ft. below the spillway	same as manager			voluntary reduction of non-essential use	limited outdoor watering; fines for violators	no outside watering; increased rates; pro rata curtailment	same as manager		
O.C. Fisher	sw	San Angelo System Supply	< 24 months supply	< 18 months supply	< 12 months supply	same as manager			watering restrictions; water usage fees	increased watering restrictions; increased water usage fees	increased watering restrictions; increased water usage fees	same as manager		
O.H. Ivie	sw	Reservoir Storage	< 138,028 ac-ft capacity	< 107,060 ac-ft capacity	< 76,092 ac-ft capacity	same as manager			initiate studies to evaluate alternative actions; request initiation of Stage 1 of DCPs	continue or initiate actions from Stage 1; initiate studies to evaluate alternative actions; request initiation of Stage 2 of DCPs	continue or initiate actions from Stages 1 or 2; initiate studies to evaluate alternative actions; request initiation of Stage 3 of DCPs	Initiate stage 1 of DCP	Initiate stage 2 of DCP	Initiate stage 3 of DCP
Red Bluff Lake	sw	Reservoir Storage	100,000 acre-feet	75,000 acre-feet	50,000 acre-feet	same as manager			reduce amount available to users	reduce amount available to users	reduce amount available to users	reduce irrigated acreage	reduce irrigated acreage	stop irrigation
Twin Buttes	sw	San Angelo System Supply	< 24 months supply	< 18 months supply	< 12 months supply	same as manager			watering restrictions; water usage fees	increased watering restrictions; increased water usage fees	increased watering restrictions; increased water usage fees	same as manager		
Lake Winters	sw	Water Level	<= 50% storage	<= 40% storage	<= 30% storage	same as manager			voluntary 10% reduction of use; request customers to reduce use	mandatory measures to reduce non-essential water use by 30%; weekly contact with customers; weekly media report	mandatory measures to reduce water use by 60%; pro rata curtailment of customers; any other necessary measures	same as manager		
Colorado Run-of-River	sw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies		Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies	
Rio Grande Run-of-River	sw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies		Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies	

**Table G-3  
Drought Triggers and Actions by Source**

Source Name	Type (sw/gw)	Factor considered	TRIGGERS						ACTIONS					
			Source Manager			Users			Source Manager			Users		
			Mild	Severe	Critical/Emergency	Mild	Severe	Critical/Emergency	Mild	Severe	Critical/Emergency	Mild	Severe	Critical/Emergency
Capitan Reef Complex Aquifer	gw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies	Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies		
Cross Timbers Aquifer	gw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies	Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies		
Dockum Aquifer	gw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies	Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies		
Edwards- Trinity (Plateau), Pecos Valley, and Trinity Aquifer	gw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies	Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies		
Ellenburger-San Saba Aquifer	gw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies	Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies		
Hickory Aquifer	gw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies	Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies		
Lipan Aquifer	gw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies	Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies		
Marble Falls Aquifer	gw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies	Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies		

**Table G-3  
Drought Triggers and Actions by Source**

Source Name	Type (sw/gw)	Factor considered	TRIGGERS						ACTIONS					
			Source Manager			Users			Source Manager			Users		
			Mild	Severe	Critical/ Emergency	Mild	Severe	Critical/ Emergency	Mild	Severe	Critical/ Emergency	Mild	Severe	Critical/ Emergency
Ogallala & Edwards-Trinity (High Plains) Aquifers	gw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies	Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies		
Other Aquifer	gw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies	Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies		
Rustler Aquifer	gw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies	Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies		
Seymour Aquifer	gw	Drought Monitor	D1 (Moderate)	D2 (Severe)	D4 (Critical)	D1 (Moderate)	D2 (Severe)	D4 (Critical)	Review DCP; Initiate actions if appropriate	Review DCP; Initiate actions; consider additional supplies	Review DCP and implement ,if appropriate; consider voluntary demand reductions	Review DCP; Initiate actions; consider additional supplies		